

STANDING COMMITTEE MINUTES
City of Spokane
Public Infrastructure, Environment, and Sustainability
October 23, 2017

Committee Members Present

Council Member Mike Fagan, Vice Committee Chair
Council Member Breean Beggs
Council Member Lori Kinnear
Council Member Candace Mumm
Council Member Karen Stratton
Council President Ben Stuckart

Committee Members Absent

Council Member Amber Waldref, Committee Chair

Staff Present

Hannahlee Allers, Eldon Brown, Steve Burns, Chris Cafaro, Mike Cannon, Brian Coddington, Marcia Davis, Leroy Eadie, Anna Everano, Marlene Feist, Jacob Fraley, Luis Garcia, Raylene Gennett, Ken Gimpel, Kara Heatherly, Gary Kaesemeyer, Dan Kegley, Abigail Martin, Brian McClatchey, Adam McDaniel, Skyler Oberst, Cadie Olsen, Mike Ormsby, David Paine, Steve Riggs, Rick Romero, John Saywer, Elizabeth Schoedel, Scott Simmons, Mike Sloon, Heather Trautman, Kyle Twohig, Scott Windsor

Guests Present

Kip Hill, Paul Kropp

Council Member Fagan called the meeting to order at 1:30 p.m.

Review and Approval of Minutes:

Council Member Fagan asked for a motion to approve the minutes of the September 25, 2017 meeting.

Ø **Action Taken:**

- Ø Council President Stuckart moved to approve the minutes of the September 25, 2017 meeting as presented; the motion was seconded by Council Member Mumm. The minutes were approved unanimously.

Priority Strategies

Cleaner River, Faster – Water Quality Standards:

Mayor David Condon gave a presentation on water quality standards and the City's work to address PCB's. He spoke about the Integrated Clean Water Plan, the PCB standards, as well as, the City's National Pollution Discharge Elimination System (NPDES) permit. He discussed the areas of investment to benefit the removing of contaminants and provide return for the Citizens.

Two-Year Strategic Priorities:

Rick Romero reviewed the strategies identified for the two-year work plan for the Public Infrastructure, Environment, and Sustainability Committee. He showed a PowerPoint slide that included the four priority strategies. The items will be shown on the committee's agenda and reported on as progress continues.

Rapidly Accelerating Street Pavement Maintenance Projects

Overview of 2017 Projects Techniques:

Scott Simmons gave an overview of the street repair strategies during 2017 that included assessing pavement conditions and condition of road base along with the average daily traffic volumes with a focus on improving drivability and safety. Scott gave a PowerPoint that showed the progress of several projects this year including the rebuild of Lincoln downtown, Thor Avenue, Maxwell Street, Freya, and Sunset Boulevard.

Repurposing Public Property to Stimulate Private Investment

No report this meeting.

Smart Use of Water Resources for Economic Growth

No report this meeting.

Putting Our Renewable Energy Resources to Work in the Community

Request for Qualifications for an Energy Consultant:

Scott Simmons discussed the request for qualifications that was put out to search for an energy consultant with the purpose of expert advice on the Upriver Dam and Waste to Energy facilities electricity resources.

Flex Session

Ordinance Amendments for Sidewalks (Snow):

Heather Trautman and Abigail Martin discussed the proposed changes to the ordinance for sidewalks 12.01. Discussion was had on the options for removal abatement and costs. Heather spoke about the process to address abandoned homes and around school walking zones. The Committee suggested that Council Member Beggs and Kinnear to work with Heather and Abigail on language for the ordinance.

Consent Items (Briefing Papers only):

1. Mission Avenue Grind and Overlay
2. CSO 24 (1st and Adams) Control Facility Guaranteed Maximum Price
3. Contract for Specialized Testing of Wastewater/Stormwater
4. Contract for Upriver Dam Parking lot/Driveway Paving
5. Contract for Well Study
6. Purchase Motor Control Centers for Water Department
7. Extension of Value Blanket to Purchase Automated Yard Carts for Solid Waste Collection
8. Extension of Value Blanket to Purchase Automated Refuse Carts for Solid Waste Collection

9. Amend Ordinance C-13628 to Release Utility Easement (Wonder Spokane)
Waste to Energy Facility

10. Amendment and Extension to Contract for Revised Closure and Post-Closure Plan and Update to Financial Assurances for the Northside Landfill
11. Extension of Contract for Quarterly Crane/Hoist/Trolley and Lifeline Inspections and Preventative Maintenance
12. Renewal of Consultant Agreement for Software Maintenance and Technical Support Plus Parts for the Control Systems
13. Renewal of Contract for Vacuum Support Services
14. Renewal of Value Blanket for Purchase of Anhydrous Ammonia and Phosphoric Acid
15. Renewal of Value Blanket for the Purchase of Hydrochloric Acid
16. Amendment to Value Blanket for the purchase of Sodium Hydroxide 50%
17. Renewal of Value Blanket for Compressor Rentals
18. Renewal of Value Blanket for Purchase of High Calcium Quicklime
19. Renewal of Value Blanket for Purchase of Activated Carbon

Fleet Services

20. Purchase one Terminal Tractor for Waste to Energy
21. Value Blanket Renewal for Purchase of Automotive Batteries
22. Purchase one TV Van for Wastewater Department
23. Purchase two Ford Transit Cargo Vans for Water Department

Executive Session:

None.

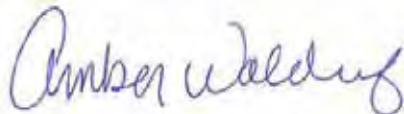
Adjournment

The meeting adjourned at 2:50 p.m.

Prepared by:

Barbara Patrick, Administrative Specialist

Approved by:



Chair

Public Infrastructure, Environment and Sustainability Committee

Meeting Agenda for

October 23, 2017

1:15 p.m. – COUNCIL BRIEFING CENTER

The Spokane City Council's Public Infrastructure, Environment and Sustainability Committee meeting will be held at **1:15 p.m. on October 23, 2017** in Council Briefing Center, Lower Level, City Hall, 808 West Spokane Falls Boulevard, Spokane, Washington.

The meeting will be conducted in a standing committee format. Because a quorum of the City Council may be present, the standing committee meeting will be conducted as a committee of the whole council. The Public Infrastructure, Environment and Sustainability Committee meeting is regularly held every 4th Monday of each month at 1:15 p.m. unless otherwise posted.

The meeting will be open to the public, with the possibility of moving or reconvening into executive session only with the members of the City Council and the appropriate staff. No legislative action will be taken. No public testimony will be taken and discussion will be limited to appropriate officials and staff.

Minutes:

Approval of Minutes of the September 25, 2017 meeting.

Priority Strategies:

Cleaner River, Faster – Water Quality Standards
Two-Year Strategic Priorities

1:15 p.m.

Mayor Condon
Rick Romero

Rapidly Accelerating Street Pavement Maintenance Projects:

Overview of 2017 Projects Techniques

1:45 p.m.

Scott Simmons

Repurposing Public Property to Stimulate Private Investment:

No report this meeting.

None

Smart Use of Water Resources for Economic Growth:

No report this meeting.

None

Putting Our Renewable Energy Resources to Work in the Community:

Request for Qualifications for an Energy Consultant

2:00 p.m.

Scott Simmons

Flex Session:

Ordinance Amendments for Sidewalks (Snow)

2:30 p.m.

Abigail Martin/Heather Trautman

Consent Items (Briefing Papers):

1. Mission Avenue Grind and Overlay
2. CSO 24 (1st and Adams) Control Facility Guaranteed Maximum Price
3. Contract for Specialized Testing of Wastewater/Stormwater
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15. Renewal of Value Blanket for the Purchase of Hydrochloric Acid
16. Amendment to Value Blanket for the purchase of Sodium Hydroxide 50%
17. Renewal of Value Blanket for Compressor Rentals

2:45 p.m.

Dan Buller
Kyle Twohig
Mike Cannon
John Saywers
Marcia Davis
Steve Burns
Scott Windsor
Scott Windsor
Eldon Brown
David Paine

Public Infrastructure, Environment and Sustainability Committee

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Agenda Continued:

18. Renewal of Value Blanket for Purchase of High Calcium Quicklime

19. Renewal of Value Blanket for Purchase of Activated Carbon

Fleet Services

Steve Riggs

20. Purchase one Terminal Tractor for Waste to Energy

21. Value Blanket Renewal for Purchase of Automotive Batteries

22. Purchase one TV Van for Wastewater Department

23. Purchase two Ford Transit Cargo Vans for Water Department

Executive Session:

Executive Session may be held or reconvened during any Public Infrastructure, Environment and Sustainability Committee meeting.

Next Public Infrastructure, Environment and Sustainability Committee Meeting:

November 27, 2017

Briefing Papers

Briefing Paper

Public Infrastructure Environmental Sustainability

Division & Department:	Office of Neighborhood Services, Code Enforcement and Parking
Subject:	Amendments to Spokane Municipal Code 12.02, 12.01 & 8.02
Date:	October 13, 2017
Author (email & phone):	Abigail Martin amartin@spokanecity.org 509.625.6858
City Council Sponsor:	Council Member Waldref
Executive Sponsor:	Rick Romero
Committee(s) Impacted:	Public Infrastructure Environmental Sustainability
Strategic Initiative:	Innovative Infrastructure, Health and Safety
Deadline:	October 16, 2017

Background/History:

This is the requested update to the 2017-2018 snow plan, addressing proposed changes to the City Municipal Code in an effort to specify what constitutes an appropriate pedestrian pathway, authorizing the City to have snow removed when citizens fail to keep walkways clear, and charge the Utility Bill for the cost of the snow removal, and defines snow as an obstruction of the right of way.

Executive Summary:

- Ordinance amendments to Spokane Municipal Code 12.02.010 & 12.02.0210 & 12.01.0804
 - 36" pedestrian pathway with ADA access
 - Snow and ice are determined to be obstructions of the right of way
 - The City may order the removal
 - Billed to the property via Spokane Municipal Code 8.02.068 on the utility bill
 - Identifies a season for snow: November 15-March 15

- Ordinance amendments to Spokane Municipal Code 8.02.068
 - Addition of snow and ice to items like vegetation and debris to what constitutes obstruction of the right of way
 - Sum total of costs to include cost incurred by the City and surcharge of eighty-five dollars as an administrative fee

- Authorized abatement includes:
 - Prioritized areas: Funnel areas where children and families are walking to school, block faces leading up to crosswalks and Downtown
 - Residences & Businesses in these areas will be notified beforehand that they are on a priority walking route to school or CBD and our communication is paired with Spokane Public Schools & DSP outward communication to their parent/student populations
 - Notice may include media, signs, 311
 - Can determine elderly/needy based on Utility Billing lists (Option for waiver or sliding scale)
 -

- Budget breakdown: (over)

Options	Initial Investment	Operation Costs
<p><i>Fleet replacement \$ to purchase tractors, Code and Public Works \$ for operations; Snow removal program around schools/prioritized areas</i></p>	<p>Tractor (1) \$19,000 Blower (1) \$5,000 Broom (1) \$3,734 Truck (repurposed) Trailer (repurposed)</p> <p>Total initial investment \$27,734</p>	<p>Hourly rate per tractor set</p> <p>Tractor, blower, truck and trailer \$35</p> <p>Staff (5 days/week/4 months) \$122</p> <p>Total hourly rate \$157</p>
<p><i>Snow blowers and 2 FTE for four months; perhaps in the Downtown due to vaulted sidewalks</i></p>	<p>Snow blowers (2) \$3,100 Truck (repurposed)</p> <p>Total initial investment \$6,200</p>	<p>Hourly rate per snow blowing team</p> <p>Truck, blower \$25</p> <p>Staff (5 days/week/4 months) \$122</p> <p>Total hourly rate \$147</p>
<p><i>Shovels and snow blowers and 6-8 Geiger crew for four months, 20 hrs./week maximum</i></p>	<p>Snow blowers (2) \$3,100 Shovels (6) \$20 Truck (repurposed)</p> <p>Total initial investment \$6,320</p>	<p>Hourly rate per snow blowing/shoveling team</p> <p>Snow blowers (2), shovels \$10 Geiger \$48/hour</p> <p>Total hourly rate \$58</p>
<ul style="list-style-type: none"> • Communication (communicated via media, educational campaign, and community partners) proactive patrolling in an effort to enforce 36" pedestrian pathway 		
<p><u>Budget Impact:</u></p> <p>Approved in current year budget? No</p> <p>Annual/Reoccurring expenditure? Yes</p> <p>Specify funding source:</p> <p>Fleet replacement funds, Code Enforcement, Public Works</p>		

Operations Impact:

Consistent with current operations? No

Requires change in current operations? Yes

Specify operations change:

Amendments would allow for deployment of equipment and FTE/temp seasonal to operate and remove snow where property owners had neglected maintenance of a 36" pedestrian pathway. Then Utility Billing would recoup the cost via the monthly bill.

BRIEFING PAPER

Public Infrastructure, Environment & Sustainability Committee
Engineering Services
October 23, 2017

Subject:

Mission Grind & Overlay (2014092)

Background:

This project will grind & overlay Mission Avenue between Division Street & Hamilton Street and includes miscellaneous storm water system, ADA required curb ramp upgrades and a widened sidewalk from Cincinnati Street to Hamilton Street. Various median pass throughs are also being constructed to improve crossing safety.

Impact

This project will be constructed half at a time (westbound then eastbound). One direction of traffic will be detoured onto Indiana, then the other direction.

Work on this project will occur as early in the spring of 2018 as possible and last 8-10 weeks. This project is being closely coordinated with the large Sharp Avenue project planned to begin after Gonzaga graduation next May. There will likely be some overlap of the two projects in late May, but we hope to reduce that overlap as best as possible by beginning the Mission project as early as weather allows.

Action

This project is on ad now with bids scheduled to open on October 23, 2017. We plan to put this project on council agenda shortly thereafter.

Funding

This project is federally funded.

**Mission Ave. G&O
Project Location**



BRIEFING PAPER
Engineering Services
October 23, 2017

Subject:

CSO 24 (1st & Adams) – Amendment #4 Control Facility Construction and Balance of Project (Guaranteed Maximum Price)

Background:

CSO 24 is one of two downtown tanks (CSO 26 being the other) both of which are being constructed by the GC/CM delivery method. This delivery method will involve multiple bid packages being let as opposed to the more conventional method where the entire project is bid in a single bid package. With design completed and the bulk of the project bought out, the final guaranteed maximum price has now been established.

Project Description:

Phase 4: Control Facility Construction and Balance of Project is the final contract phase for the construction of CSO 24 and consists of the remaining work for the completion of the tank facility, inlet and outlet piping, road restoration, and plaza construction

Previously, early packages have been awarded to accelerate the project construction by relocating utilities, installing outfall piping, and beginning shoring and excavation activities. This package consists of the remainder of the project scope to construct a 2.4 million gallon storage facility with associated restoration, including plaza amenities.

This phase was negotiated with the general contractor/construction manager Walker/Halme Joint Venture. The work is performed in a cost reimbursable format, with a Guaranteed Maximum Price not to exceed \$12,318,194.59 plus tax.

This amendment establishes the final price for the project scope. The total contract cost is \$22,808,548.82 plus sales tax.

Public Impact:

One lane of traffic will remain open on either Sprague or Riverside Ave. until fully restored prior to Bloomsday 2018. Next summer, 1st Avenue and Cedar will be closed for deep utility installation and an eastbound detour route will be established. Adams St. between Sprague and 1st. will continue accommodate local access for KHQ only and be closed to all other traffic.

BRIEFING PAPER
City of Spokane
Public Infrastructure, Environment and Sustainability Committee
Riverside Park Water Reclamation Facility
October 23, 2017

Subject

Contract award to ALS Environmental for specialized testing of wastewater and stormwater. Fulfills Department of Ecology issued discharge permit requirements.

Background

As part of the current NPDES discharge permit, The Riverside Park Water Reclamation Facility (RPWRF) is required by the Department of Ecology to monitor wastewater for three toxic pollutants, PCBs (polychlorinated biphenyls), PBDEs (polybrominated diphenyl ethers), and 2,3,7,8-TCDD (2,3,7,8-tetrachlorodibenzo-p-dioxin). PCB testing is also a component of the City's stormwater permit.

Four proposals were received for this testing under RFP #4372-17. The four firms were: Test America, Pacific Rim Laboratories, SGS AXYS, and ALS Environmental. ALS Environmental submitted the lowest cost proposal with a 3 year contract amount of **\$167,790** (\$55,930 per year).

ALS Environmental is one of the largest environmental testing laboratories in the World with numerous offices in North America. Testing completed under this contract would all take place at their Burlington, Ontario, Canada facility. The ALS Burlington Lab specializes in the analyses being requested and has the experience, expertise and resources necessary to meet the needs of the City for this contract.

Impact

With the ability to test for these toxic chemicals of concern, RPWRF will be able to assist Ecology and other groups identify potential sources of contamination to the Spokane River. By approving this contract, the City will be able to comply with its NPDES permit requirements and other obligations.

Action

Recommend Approval.

Funding

This contract will be funded from the RPWRF Laboratory budget.

BRIEFING PAPER
City of Spokane
Public Infrastructure, Environment and Sustainability Committee
Water Department
October 23, 2017

Subject

Upriver Facility Paving Project (2017169)

Background

This project is proposing to perform maintenance on the existing gravel access and parking area for the City's Upriver Dam Facility, see attached maps. The existing gravel access driveway and parking area has been a very high maintenance surface as it currently exists. We propose to utilize the existing gravel base and pave the surface with hot mix asphalt (HMA). We also propose to provide stormwater treatments consisting of bio-swale and low impact development (LID) meeting basic treatment guidelines as required per the Department of Ecology and the Spokane Regional Stormwater Manual within wellhead protection areas.

This background information is provided for council consideration. This project is estimated to cost \$153,000. The project bid opening is on October 23, 2017 and we plan to put this project on council advanced agenda shortly after bid opening.

Impact

This work will require coordination with Upriver Dam Facility tours during construction.

Action

Recommend Approval.

Funding

This contract will be funded by the water department

BRIEFING PAPER
City of Spokane
Public Infrastructure, Environment and Sustainability Committee
Water Department
October 23, 2017



BRIEFING PAPER
City of Spokane
Public Infrastructure, Environment and Sustainability Committee
Water Department
October 23, 2017

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES

MAYOR
 DAVID A. CONDON

COUNCIL MEMBERS
 BEN STUCKART, CITY COUNCIL PRESIDENT
 AMBER WALDREY
 BREANN BEGGS
 KAREN STRATTON
 LORI KINNEAR
 MIKE FAGAN
 CANDACE MUMM

CITY ADMINISTRATOR
 THERESA SANDERS

ENGINEERING OPERATIONS MANAGER,
 KYLE TWOBIO

CITY ENGINEER
 DAN BULLER, PE

DIRECTOR OF UTILITIES
 SCOTT SIMMONS

DIRECTOR OF WATER AND WASTEWATER COLLECTION
 DAN KEGLEY

SHEET INDEX

- 1) COVER SHEET / INDEX / VICINITY MAPS
- 2) PAVING
- 3) GRADING & DRAINAGE
- 4) ESC PLANS
- 5) DETAILS
- 6) DETAILS
- 7) DETAILS

PROJECT LOCATION

UPRIVER PARKING LOT IMPROVEMENTS

CITY PROJECT # 2017169

APPROVED	DATE
APPROVED	DATE
APPROVED	DATE
APPROVED	DATE

BRIEFING PAPER
City of Spokane
Public Infrastructure, Environment and Sustainability Committee
Integrated Capital Management
October 23, 2017

Subject

Contract with GSI Water Solutions, Inc. for Well Station Evaluation.

Background

Three drinking water well sites are not operating at the maximum efficiency and study of these wells was added to the Six Year Water Program starting in 2013. A Request for Qualifications (RFQ) was advertised to select a qualified engineering consultant experienced in hydrogeology, groundwater modeling, municipal well construction and well rehabilitation for this evaluation.

RFQ submittals were accepted on August 7, 2017 for Evaluation of Hoffman, Ray Street and Well Electric Well Stations. The selection committee reviewed the four submittals received and to determine the most qualified firm. GSI Water Solutions, Inc. was selected as the most qualified. Contract negotiations have resulted in a scope and fee to complete the work.

Impact

Evaluation of Well Sites will determine the most cost effective way to maximize the efficiency, redundancy, and resilience of each well site as well as minimize impacts to the Spokane Valley Rathdrum Aquifer and Spokane River.

Action

Recommend Approval of contract with GSI Water Solutions, Inc. for the amount not to exceed \$824,000.

Funding

Funding for this project will be from Water Utility Rates.

BRIEFING PAPER
City of Spokane
Public Infrastructure, Environment, & Sustainability Committee
Water & Hydroelectric Services Department
October 23, 2017

Subject

Purchase of Allen-Bradley/Rockwell Automation Motor Control Centers (MCCs) from Columbia Electric Supply (Spokane, WA) by sole source agreement. Purchases for 2017 will total \$286,526.45.

Background

With assistance from City Legal, the Water department has standardized on Allen Bradley/Rockwell Automation controls for the City of Spokane Water System and associated Water Pumping Stations (previously resolved on RES 2016-0058). This equipment incorporates comprehensive information and monitoring for the Supervisory Control and Data Acquisition (SCADA) system used to ensure compliance with the Department of Health. A five (5) year sole source agreement is requested to expedite future purchases of this equipment due to the lead time involved.

2017 Purchases:

Central Avenue Well Pump Station MCC – \$99,105.92
Thorpe Road Booster Station MCC – \$95,247.35
Ray Street Well Pump Station MCC – \$92,173.18

Impact

This agreement will expedite future purchases of this equipment in line with City standards and authorize the immediate purchase of three (3) MCC systems to support current Water Department projects.

Action

Recommend approval. This vital equipment is custom designed and, therefore, has substantial lead time.

Funding

Funding for the Thorpe Road and Ray Street MCCs has been allocated from the ICM Six Year Capital Plan budget. Funding for the Central Avenue MCC has been allocated from Drinking Water State Revolving Fund (DWSRF) grant money.

BRIEFING PAPER

Public Infrastructure, Environment and Sustainability Committee
Solid Waste Collection
October 23, 2017

Subject

One-year extension of a Value Blanket Order with Schaefer Systems International, Inc. (Charlotte, NC) for the purchase of automated yard waste carts.

Background

The Solid Waste Collection Department requests a one-year extension of a Value Blanket Order to purchase 95 gallon automated yard waste carts. Bid #4158-15 was issued to 23 suppliers; the contract was awarded to the lowest responsive bidder. The initial contract was for two years with the option of three one-year extensions; this will be the first extension.

In the bid, there was a provision that allowed the winning vendor to request a price adjustment after the initial two-year contract term. Schaefer Systems has requested to increase their pricing by \$4.62 (0.14 x 33 lbs.) per cart due cost increases from their raw material suppliers. There is an industry shortage of high density polyethylene (HDPE) resin resulting from Hurricane Harvey. Schaefer Systems included market data and letters from their HDPE supplier to support their written request.

Impact

Diversion from disposal allows residential accounts to benefit from the reduced costs to compost yard waste as well as make a positive environmental impact. These carts have increased collection efficiency since their implementation. Purchase of these carts will allow us to have inventory available for cart replacement, as well as new account growth. The anticipated annual expenditure is \$150,000 (including tax).

Action

Recommend approval.

Funding

All funding for this purchase will be from the Solid Waste Collection/Recycling/Minor Equipment funds.

BRIEFING PAPER

Public Infrastructure, Environment and Sustainability Committee

Solid Waste Collection

October 23, 2017

Subject

One-year extension of a Value Blanket Order with Otto Environmental Systems, LLC (Eloy, AZ) for the purchase of automated refuse carts.

Background

The Solid Waste Collection Department requests a one-year extension of a Value Blanket Order to purchase 32 gallon, 68 gallon, and 95 gallon automated refuse carts. Bid #4157-15 was issued to 23 suppliers; the contract was awarded to the lowest responsive bidder. The initial contract was for two years with the option of three one-year extensions; this will be the first extension. Otto Environmental is not requesting a price adjustment as allowed in the bid so pricing will remain unchanged during this contract extension.

Impact

Automated refuse carts allow residential accounts to benefit from the automated collection of garbage for disposal. These carts have increased collection efficiency since their implementation. Purchase of these carts will allow us to have inventory available for cart replacement, as well as new account growth. The anticipated annual expenditure is \$200,000 (including tax).

Action

Recommend approval.

Funding

All funding for this purchase will be from the Solid Waste Collection Operations/Minor Equipment funds.

BRIEFING PAPER
City of Spokane
Public Infrastructure, Environment and Sustainability Committee
Planning and Development
October 23, 2017

Subject

Amending Ordinance C-13628 that vacated the alley between Mallon & Broadway, from Post to Lincoln as requested by Wonder Spokane, LLC.

Background

In 1954 The City vacated the above mentioned alley and reserved an easement for CenturyLink. The reason for amending the vacation ordinance is that the existing building (Wonderbread Building) is built across this alley and is in the process of being remodeled. There is an issue with funding because the title company can't clear title. A map of the easement area is attached.

Impact

CenturyLink is in support of this easement release.

Action

Recommend Approval.

Funding


Not applicable.

Easement Amendment



Amending Ordinance C-13628 to release the utility easement

Legend

 Easement Area

THIS IS NOT A LEGAL DOCUMENT:
The information shown on this map is compiled from various sources and is subject to constant revision. Information shown on this map should not be used to determine the location of facilities in relationship to property lines, section lines, streets, etc.



BRIEFING PAPER
City of Spokane
Public Infrastructure, Environment and Sustainability Committee
Solid Waste Disposal
October 23, 2017

Subject

Amendment and extension to contract with SCS Engineers, Bellevue, Washington, to provide Revised Closure and Post-closure Plan and Update the Financial Assurances for the Northside Landfill.

Background

In September 2015 the City of Spokane contracted with SCS Engineers to provide a revised closure and post-closure plan and update the financial assurances for the Northside Landfill per the amended Washington Administrative Code (WAC) 173-351 *Criteria for Municipal Solid Waste Landfills*. The revised documents were submitted to WA Department of Ecology. Comments were received from the agency.

Additional time plus additional funds are required to address the agency comments. The cost of this amendment is \$10,000.00, and will extend the contract to June 30, 2018.

Impact

This contract amendment and extension will ensure that the Northside Landfill will remain in compliance with the WA Department of Ecology and WAC requirements for Closure, Post-closure, and Financial Assurances for the Northside Landfill.

Action

Recommend Approval of this contract amendment and extension.

Funding

Funding for this contract amendment is included in the 2017 and 2018 Landfill operations budgets.

BRIEFING PAPER
City of Spokane
Public Infrastructure, Environment and Sustainability Committee
Solid Waste Disposal
October 23, 2017

Subject

Extension of contract with Konecranes, Inc., of Spokane Valley, for quarterly crane/hoist/trolley and lifeline preventative maintenance inspections and unscheduled service calls at the WTE facility.

Background

The WTE facility utilizes five cranes, including double girder top-riding cranes, and in-house monorail cranes, and two lifelines in its operations. All of this equipment requires quarterly inspections and as-needed repairs.

Responses of RFP#4075-14 were opened November 3, 2014, and Konecranes Inc., of Spokane Valley, was the only respondent. The original contract was for one year with the option of 4 one-year extensions. This is the 3rd of those extensions.

Cost for this extension is \$60,000.00 plus a 10% administrative reserve of \$6,000.00 for a contract total of \$66,000.00 excluding taxes.

Impact

The cranes, hoists, and lifelines used at the waste to energy facility must be inspected on schedule, and all inspections and maintenance completed by certified inspectors and technicians. Any equipment that is not maintained on schedule, and in accordance with safety regulations must be taken out of service. This contract will allow for the continued safe operations of the cranes/hoist/ trolley and lifelines at the WTE facility.

Action

Recommend Approval of this extension for January 1 to December 31, 2018.

Funding

Funding is included in the 2018 operations budget for the WTE facility.

BRIEFING PAPER
City of Spokane
Public Infrastructure, Environment and Sustainability Committee
Solid Waste Disposal
October 23, 2017

Subject

Renewal of consultant agreement with ABB, Inc., Portland, Oregon, for software maintenance and technical support plus parts for the control systems at the WTE facility.

Background

ABB, Inc., owns a custom proprietary software which is used to enhance the operational effectiveness of the WTE facility to reduce maintenance costs to the City. In October 2014, Council declared ABB, Inc., as a sole source for providing the software and support required to operate the WTE facility's control system. The original contract issued under that sole source resolution was for 3 years with the option to renew for an additional 2 one-year extensions. This is the first of those extensions.

The cost of this renewal is \$125,144.00 plus a 10% administrative reserve of \$12,514.40 for a total of \$137,658.40, excluding taxes.

Impact

Utilizing the consultant who is familiar with this proprietary software, and the ability to purchase required parts as necessary will keep the WTE facility operating properly.

Action

Recommend Approval of this renewal for November 17, 2017, to November 17, 2018.

Funding

Funding for this contract renewal is included in the 2017 and 2018 operations budgets for the WTE facility.

BRIEFING PAPER
City of Spokane
Public Infrastructure, Environment and Sustainability Committee
Solid Waste Disposal
October 23, 2017

Subject

Renewal of Contract with Big Sky Industrial of Spokane for vacuum support services at the WTE facility.

Background

During maintenance outages at the WTE Facility sandblasting material is used throughout the boiler depending on work being performed. Vacuum support services are needed for vacuuming sandblast sand and cleanup of various levels after sandblasting is complete.

Also required is the vacuuming of sump and water jet transfer line in the ash house and vacuuming of carbon room and overflow areas, as well as water wash of air cooled condensers. All work must be done with no vacuum exhaust being released outside the building. All vacuum materials will be disposed on site at the waste to energy facility.

The original contract was for one year, with 4 additional one-year extensions. This is the 3rd of those extensions. Cost of this extension is \$150,000.00 plus a 10% administrative reserve of \$15,000.00 for a contract total of \$165,000.00 excluding taxes.

Impact

The sandblasting of the boilers and other outage related cleaning produces sand, ash, and other materials that must be collected and disposed of for employee safety and environmental protection. This contract allows this work to be done in a safe and environmentally conscious manner.

Action

Recommend Approval contract renewal for January 1 to December 31, 2018.

Funding

Funding is included in the 2018 operations budget for the WTE facility.

BRIEFING PAPER
City of Spokane
Public Infrastructure, Environment and Sustainability Committee
Solid Waste Disposal
October 23, 2017

Subject

Renewal of Value Blanket with Brenntag Pacific, Inc., for purchase of Anhydrous Ammonia and Phosphoric Acid for the WTE Facility.

Background

Anhydrous ammonia and phosphoric acid are required for the operation of the WTE Facility. Brenntag Pacific, Inc., has agreed to provide both anhydrous ammonia and phosphoric acid with no price increase over 2017.

The original Value Blanket was for 1 year with the option of 4 one-year renewals. This is the 3rd of those renewals.

The cost to provide these chemicals for the WTE Facility is \$579,150.00. This amount is based on the following estimates:

Phosphoric Acid - \$208,809.81 plus taxes of \$18,375.26 for a total of \$227,185.07
Anhydrous Ammonia - \$323,496.00 plus taxes of \$28,467.65 for a total of \$351,963.65.

Impact

Continued on-time deliveries of anhydrous ammonia and phosphoric acid will allow for the uninterrupted operation of the WTE Facility.

Action

Recommend Approval of this Value Blanket renewal for the period January 1, 2018 to December 31, 2018.

Funding

Funding for these chemicals is included in the 2018 WTE Facility operations budget.

BRIEFING PAPER
City of Spokane
Public Infrastructure, Environment and Sustainability Committee
Solid Waste Disposal
October 23, 2017

Subject

Renewal of Value Blanket with Northstar Chemical of Tualatin, Oregon, for the purchase of Hydrochloric Acid for the WTE Facility.

Background

Hydrochloric acid is required for the operation of the WTE facility. On October 20, 2014, the City received 3 bids in response to RFB#4059-14. Northstar Chemical was the lowest cost bidder. The original RFB allowed for a 1-year agreement with 4 additional 1-year renewals. This is the 3rd of those renewals. Northstar Chemical has agreed to hold the pricing the same as 2016 and 2017.

The cost of this renewal is \$37,814.40 plus taxes of \$3,327.67 for a total of \$41,142.07.

Impact

Renewal of this value blanket will allow for the uninterrupted operation of the WTE facility.

Action

Recommend Approval of this Value Blanket renewal for January 1 to December 31, 2018.

Funding

Funding for this value blanket is included in the 2018 operations budget for the WTE facility.

BRIEFING PAPER
City of Spokane
Public Infrastructure, Environment and Sustainability Committee
Solid Waste Disposal
October 23, 2017

Subject

Amendment to Value Blanket with BHS Specialty Chemical Products (Nampa, ID) for purchase of Sodium Hydroxide 50% Membrane (Caustic Soda).

Background

Sodium Hydroxide is required for the operation of the waste to energy facility. On October 6, 2014, four sealed bids were received for purchase of Sodium Hydroxide 50%. BHS Specialty was the lowest cost bidder.

Due to a higher than expected receipt of waste for disposal at the waste to energy, Sodium Hydroxide 50% Membrane (Caustic Soda) usage has been higher than anticipated in 2017. This amendment will add funds to allow for purchase of additional Sodium Hydroxide that is required due to the additional waste.

Cost of the Amendment is \$20,000.00 for the remainder of 2017.

Impact

This purchase will allow for the continued uninterrupted operation of the WTE.

Action

Recommend Approval of this Value Blanket amendment.

Funding

Funding is included in the 2017 operations budget.

BRIEFING PAPER
City of Spokane
Public Infrastructure, Environment and Sustainability Committee
Solid Waste Disposal
October 23, 2017

Subject

Renewal of Value Blanket with Atlas Copco of Arlington, Washington, for compressor rentals during scheduled outages and on an as-needed basis.

Background

Responses to RFP#4066-14 were received on November 27, 2014, with Atlas Copco being the only respondent.

Compressor rentals are required for the WTE Facility during scheduled and unscheduled outages and on an as-needed basis. The original Value Blanket was for one year, with 4 additional one-year extensions. This is the 3rd of those extensions.

The cost of this Value Blanket renewal is \$124,167.44 plus taxes of \$10,926.73 for a total of \$135,094.17.

Impact

Rental of these compressors will allow the WTE Facility to support maintenance operations during routine and non-routine outages, as well as support operation of the facility in the event of a compressor failure.

Action

Recommend Approval of this Value Blanket renewal for January 1, 2018 to December 31, 2018.

Funding

Funding for this Value Blanket is included in the 2018 operations budget for the WTE Facility.

BRIEFING PAPER
City of Spokane
Public Infrastructure, Environment and Sustainability Committee
Solid Waste Disposal
October 23, 2017

Subject

Renewal of Value Blanket with Graymont Western US, Inc., of Salt Lake City, for purchase of high calcium quicklime for the WTE facility.

Background

On October 27, 2014, sealed bids were opened in response to RFB #4064-14 to provide the WTE facility with high calcium quicklime. The high calcium quicklime is used to reduce acid in the flue gasses. Water is added to the powdered lime to create a slurry which is injected into the flue to remove hydrochloric acid and SO₂ to comply with environmental regulations. The slurry also helps to cool the flue gasses to the correct emission temperature.

The original RFB allowed for 1 year with 4 additional 1-year renewals. This is the 3rd of those renewals.

The cost of this Value Blanket is \$1,287,360.00 plus taxes of \$113,287.68 for a total of \$1,400,647.68.

Impact

Uninterrupted deliveries of high calcium quicklime will allow the WTE facility to continue to operate.

Action

Recommend Approval of this Value Blanket renewal for December 2, 2017 to December 1, 2018.

Funding

Funding for this purchase is included in the 2018 operations budget for the WTE facility.

BRIEFING PAPER
City of Spokane
Public Infrastructure, Environment and Sustainability Committee
Solid Waste Disposal
October 23, 2017

Subject

Renewal of Value Blanket with Cabot Norit Activated Carbon, Marshall, Texas, for purchase of activated carbon for use at the WTE Facility.

Background

On October 8, 2015, the City issued RFB #4174-15 to procure activated carbon for use in the WTE facility. Six bids were received. Cabot Norit Activated Carbon was selected as the lowest cost bidder

Cabot Norit has agreed to renew this value blanket with a 3.26% increase. This is the first increase under this bid. The initial term was for 1 year with the option to renew for 4 additional 1-year periods. This is the 2nd of those renewals.

The cost of this Value Blanket is \$76,950.00 plus taxes of \$6,771.60 for a total of \$83,721.60.

Impact

The Air Operating Permit for the WTE facility requires that the pollution control equipment reduce mercury and dioxin and furans that could potentially be released into the atmosphere. Activated carbon injected into the flue gas aids in this reduction, and is required to be in compliance with the Title V Air Operating Permit. If the pollution control equipment is not operating, the WTE facility would have to shut down or risk violating permit conditions or potentially causing harm to the environment.

Action

Recommend Approval of this Value Blanket for December 2, 2017 to December 1, 2018.

Funding

Funding is included in the 2018 operations budget for the WTE facility.

BRIEFING PAPER

City of Spokane - Fleet Services

Public Infrastructure, Environment & Sustainability Committee

October 23, 2017

Subject

Purchase of one terminal tractor for the Waste To Energy (WTE) plant from Leavitt Machinery (Spokane, WA) for \$117,211.59 incl. tax.

Background

This terminal tractor was put out to bid (#4397-17) with Leavitt Machinery being the most economical choice of the three received. Although this was the highest of the three bids, it is available now versus the other two options, which would be three to four months before receiving the new unit. This year we have spent \$21,991 keeping the current unit in operation and are in need of a replacement sooner rather than later. The warranty offered on the choice recommended for approval exceeds the other two bids as well. Furthermore, the Tico's standard options are superior to what the Ottawa offers.

Impact

This terminal tractor is replacing a unit that has reached the end of its economic lifecycle.

Action

Recommend approval.

Funding

Funds are available in the WTE budget.

BRIEFING PAPER
City of Spokane - Fleet Services
Public Infrastructure, Environment & Sustainability Committee
October 23, 2017

Subject

The renewal of the Value Blanket (VB) with Battery Systems of Spokane of Spokane for the purchase of automotive batteries for an estimated annual expenditure of \$48,000.00.

Background

This is a renewal of an annual Value Blanket to purchase automotive batteries as needed for the Fleet Services department.

Impact

Batteries are purchased by Fleet Services for use throughout the city of Spokane fleet of equipment.

Action

Recommend approval.

Funding

Funds are available in the Fleet Services Department budget.

BRIEFING PAPER
City of Spokane - Fleet Services
Public Infrastructure, Environment & Sustainability
Committee
October 23, 2017

Subject

Purchase of one TV Van for the Wastewater Department.

Background

This purchase of one TV Van for the Wastewater Department for \$269,544.21 incl. tax will be purchased with R.S. Technical Services through two nationally bid contracts. The chassis will be off of the NJPA contract and the body will be off of the HGAC Buy contract.

Impact

This TV Van is a replacement unit that has reached the end of its economic lifecycle.

Action

Recommend approval.

Funding

Funds are available in the Wastewater Department's budget.

BRIEFING PAPER
City of Spokane - Fleet Services
Public Infrastructure, Environment & Sustainability Committee
October 23, 2017

Subject

Purchase of two Ford Transit Cargo Vans for the Water Department.

Background

Purchase of two cargo vans for the Water Department through the State contract for \$59,535.45 incl. tax.

Impact

These cargo vans are replacement units for vans that have reached the end of their economic lifecycle.

Action

Recommend approval.

Funding

Funds are available in the Water Department's budget.

Handouts

City of Spokane

Water Quality Standards Concerns

Briefing Paper



September 2017

Issue:

The City of Spokane is seeking a reinstatement of Water Quality Standards for Washington state developed by the Washington State Department of Ecology. Currently, the City faces compliance with Water Quality Standards set hurriedly by the U.S. Environmental Protection Agency (EPA) a year ago. **The EPA standards are unattainable and threaten the City's long-term financial wellbeing and citizen affordability without any appreciable increase in overall public health.**

Water Quality Standards Background:

In mid-November 2016, the EPA overrode the Washington State Department of Ecology's (Ecology) water quality standards for Washington state in favor of its own. The EPA quickly published the new rule, which took effect at the end of December 2016.

The abrupt change in direction followed a years-long process by Ecology to update Washington's Water Quality Standards for Protecting Human Health as found in Chapter 173-101A of the Washington Administrative Code (WAC), and planning for \$340 million in City investment based, in part, on these standards. Ecology worked hard to develop a thoughtful water quality rule, with PCBs set at 170 ppq, based on sound science in order to protect human health. The Ecology rule considered the **unique attributes of the state's watersheds**, the discharges within our state, and the efforts which have been undertaken to reduce pollution in Washington. The City supported Ecology's efforts in developing criteria for PCBs, arsenic, and methyl mercury that used scientific standards, common sense, and conditions within Washington state.



Instead of supporting this collaborative process, the EPA released its own rule, leaving Ecology with a nearly impossible compliance workload, municipal dischargers with unachievable and immeasurable standards, and the public with a tremendous impending financial drain on the economy without a reasonable expectation of an increased health benefit.

The City is particularly concerned about the numerical limits for PCBs in the EPA rule. That **standard, at 7 ppq, is unachievable with any current or anticipated technology.** There aren't even tests that can effectively measure PCBs at that level.

Spokane's Environmental Investment:

The City of Spokane celebrates the river as our greatest natural asset and seeks to protect it for future generations. The City voluntarily developed a comprehensive Integrated Clean Water Plan that will greatly enhance the health of the Spokane River. The plan includes projects to reduce overflows from combined sewers to the river, reduce stormwater runoff entering the river, and to improve the treatment at the City's wastewater treatment plant. The plan takes aim at a variety of pollutants and will deliver magnitudes greater pollution reduction benefits to the river than if the City chose to complete only the work that is required by the Clean Water Act and other mandates.

These investments total more than \$340 million. This is a generational investment in our river and overall environmental health. The City sold \$200 million in "green" revenue bonds to fund this work, which won't be paid off for 20 years. The work will be finished in 2021.

Additionally, the City, in concert with the Spokane region and Ecology, also has been a leader in developing innovative and direct-to-implementation projects which specifically address and reduce PCBs and other toxics in our watershed.



The Spokane River Regional Toxics Task Force (SRRTTF) is a collaboration of NPDES dischargers (public entities and private), environmental interest groups, regulators in Washington and Idaho, and the EPA. The City's participation is a mandatory requirement of the permit. The approach to PCBs taken by the SRRTTF is to identify and implement PCB controls and monitor how the river responds to PCB controls and is designed to be an alternative to imposing numeric limits.

Closing:

The City is especially concerned about maintaining affordability of its utility services to assist our families. In 2015, the City's median household income (MHI) was \$44,350, considerably lower than the City of Seattle's MHI of \$75,331, the state's MHI of \$64,129, and the U.S.'s MHI of \$55,775. As a result, the City has committed to limit annual utility rate increases to inflation for the next 20 years and still achieve the environmental results previously set for the City.

Washington state—by EPA's own admission—is already one of the most environmentally protective states in the nation. In fact, the past EPA Region 10 Director Dennis McLerran was quoted in the news release which announced the EPA water-quality standards as saying, "Washington maintains one of the strongest water programs in the entire nation." Yet, the federal agency still elected to override Ecology's good work, ignore the input of Washington citizens, businesses, and government agencies, and render standards for particular pollutants that are frankly unattainable and immeasurable.

Talking about the Plan

"Spokane's plan delivers better environmental results than previous plans at a lower cost, saving ratepayers \$150 million and meeting permit deadlines. The EPA applauds Mayor Condon and the City of Spokane..."

-Nancy Stoner, EPA

"Spokane might be the first in the nation that's doing this as a smart government approach to planning—rather than by court order."

*-Grant Pfeifer, Eastern Regional Office,
Department of Ecology*

"...any actions that reduce pollution in the Spokane and Columbia rivers are worthwhile, and will benefit the whole region. The Tribe encourages the State to work with the City to continue with the development of the Plan and its funding."

-Rudy Peone, Spokane Tribal Chairman

"Spokane has developed a thorough, cross-disciplinary integrated plan that addresses infrastructure needs and improves water quality, all while saving ratepayers money. Their process and lessons learned will now inform utilities from coast to coast..."

*-Ken Kirk, National Association
of Clean Water Agencies (NACWA)*

"Hundreds of cities are dealing with Clean Water Act compliance issues. Spokane's water plan is innovative and provides a roadmap that other cities can follow."

*-Indianapolis Mayor Greg Ballard,
U.S. Conference of Mayors' Water Council*

"The City's Integrated Clean Water Plan identifies projects, which will provide meaningful progress towards reducing toxics in the Spokane River. The largest of these is the mitigation of stormwater which flows from the Cochran Basin."

*-Spokane River Regional
Toxics Task Force*

Briefing Paper INTEGRATED CLEAN WATER PLAN

An Overview

City of Spokane

January 2017



Introduction

At the City of Spokane, we are completing about \$340 million in work to manage stormwater and wastewater that will improve the health of the Spokane River. This collection of work is detailed in the City's nationally recognized, innovative Integrated Clean Water Plan.

The Integrated Clean Water Plan is designed to be both environmentally and financially responsible. The plan delivers magnitudes greater pollution reduction

benefits for the River at a cost that's about \$150 million less than previous plans. The plan includes projects to meet the City's Clean Water Act requirements as well as projects, like managing stormwater to the river from a

large north side area called the Cochran Basin, that are voluntary but simply make sense for the health of the river.



This approach is transforming how we manage stormwater and wastewater, while building critical infrastructure and above-ground improvements to build stronger neighborhoods and a healthier Spokane. The work in the plan represents the largest single infrastructure investment in the City's history. Many projects already have been completed, and the majority of the rest of the program will be under construction in 2017.

Background

The City has worked to address Spokane River water quality concerns for decades. From 2000 through 2012, the City spent \$220 million on clean water improvements. We also participate in regional efforts to improve dissolved oxygen levels and reduce PCBs in the river.

In the last several years, we revolutionized our thinking to adopt an integrated approach to improve water quality that's designed to get enhanced results more quickly at a more affordable price. An integrated approach, as outlined by the Environmental Protection Agency, required us to study all flows bringing pollutants to the river, consider all viable technologies to manage those flows, and develop a comprehensive solution that brings us the best value for our investment.

Throughout this process, we engaged the public, neighborhoods, regulators, environmental groups, river users, community partners, and other interested stakeholders to explain the challenge and receive input. Our plan has received national and regional recognition for its innovative approach and commitment to protecting the Spokane River for future generations.

The Integrated Clean Water Plan Goals

Cleaner River Faster.

Under our integrated approach, the City is prioritizing projects that have a greater impact on reducing pollution in the River. We have included stormwater work and improvements at our wastewater treatment plant to get us additional environmental value, rather than just focusing on required work. In many respects, stormwater drives this discussion; it is going into the river continually not just during large storms that overwhelm the capacity of our combined sewers. The volume of untreated stormwater going to the river vastly surpasses the volume from combined sewers.

Volumes	Source
54 Million Gallons	From all combined sewers to River
28.5 Million Gallons	From 2 largest combined sewer basins
1 Billion Gallons	From all stormwater outfalls to River
300-600 Million Gallons	From Cochran stormwater basin alone
34 Million Gallons	Wastewater treated daily at treatment plant

Implement Cost-Effective & Innovative Approaches.

We are including many approaches that are available to deal with stormwater. We are incorporating new “green” strategies when we rebuild streets—storm gardens, pervious pavements, and other technologies—to continue to get stormwater out of our existing systems for long-term management.

Achieve Holistic Integration with other Infrastructure.

We are leveraging our investment to gain additional infrastructure work and above-ground improvements that improve neighborhoods. We are integrating street rehabilitation, water main replacement, park improvements, sidewalks, sewer pipe upgrades, and pedestrian/bike lanes or trails with our Integrated Clean Water Plan projects. The Cochran Basin project will improve streets in Northwest Spokane and add an access point for rafts and kayaks. Our citizens agree with this approach. More than 77% voted for a street levy with a keen focus on this kind of integration.

The Projects

The plan includes:

- A series of projects to **control overflows from combined wastewater and stormwater sewers** and meet current regulations. Eight projects are under way or completed, and another eight are will get started in 2017. Overflows from these sewers (known as CSOs) occur during large storms or periods of rapid snowmelt. This work will cost about \$180 million.
- Construction of **tertiary treatment at the Riverside Park Water Reclamation Facility**. This major expansion of the plant will dramatically improve the quality of the effluent that we release to the Spokane River. The new system will address a variety of pollutants, including phosphorus, metals, and PCBs. Cost is about \$125 million.
- Management of **stormwater coming from the Cochran Basin** on the North Side of Spokane, where the City separated storm sewers in the 1980s. Because of the volume of water that reaches the river through this single stormwater outfall, this voluntary project would have a far greater impact on pollutants than the combined sewer projects. Current estimates for this work total \$34 million.

This set of work provides greater removal of PCBs, heavy metals, total suspended solids, and phosphorus than these projects would on their own.



An example of a raft & kayak launch point.

Financing

The overall cost for the Integrated Plan work totals about \$340 million. The City and its citizens are making a significant financial investment to complete the plan. In November 2014, the City sold \$200 million in utility revenue bonds for this work. Those bond dollars will be combined with capital dollars from utility rates to pay the overall expense.

Contact

Scott Simmons, Public Works & Utilities Division Director * City of Spokane * (509) 625-6584 * smsimmons@spokanecity.org



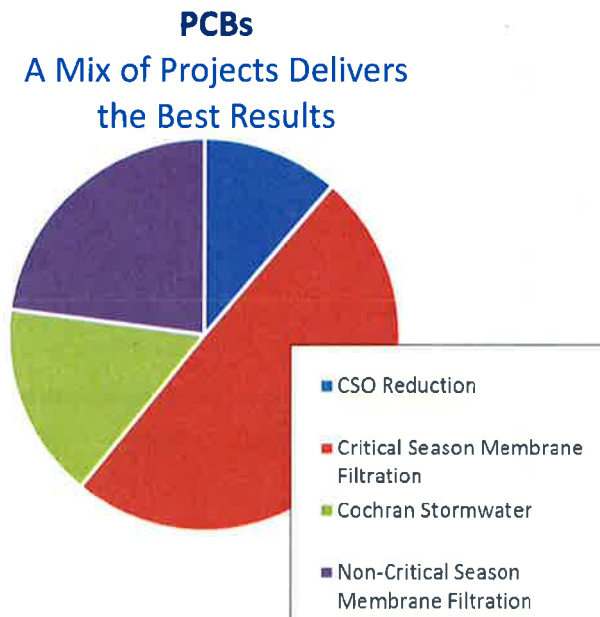
Integrated Clean Water Plan & PCBs

September 2017

The City of Spokane voluntarily developed a comprehensive Integrated Clean Water Plan that will greatly enhance the health of the Spokane River. The plan includes projects to reduce overflows from combined sewers to the river, reduce stormwater runoff entering the river, and to improve the treatment at the City’s wastewater treatment plant. The plan includes work that is mandated and other voluntary work that just makes sense for the health of the river.

The plan takes aim at a variety of pollutants and will deliver magnitudes greater pollution reduction benefits to the river than if the City chose to complete only the work that is required by the Clean Water Act and other mandates.

PCBs and related toxics are of particular interest. The Spokane River and Lake Spokane are on the State of Washington’s 303(d) list of impaired water bodies for PCBs. As a result, the City is participating in the work of Spokane River Regional Toxics Task Force, which is tasked with developing direct-to-implementation projects to reduce PCBs. The City ranked PCB removal high when it evaluated the environmental benefits of the projects it selected.



An analysis of PCB removal shown on page 2 demonstrates the value of the City’s Integrated Plan. Mandated projects would deliver about 17 grams of PCB removal annually for the River. When the voluntary components of the City’s Integrated Plan—running the membrane filtration technology at the wastewater plant during the non-critical season and addressing the stormwater runoff from what’s known as the Cochran Basin—the results reach nearly 30 grams of PCB removal annually.

Additionally, it’s important to note that PCBs are ubiquitous in the environment and many are legacy PCBs. The City is suing Monsanto, as the primary generator of PCBs to fund cleanup work in our watershed. Clearly, multiple strategies are needed to address the problem in any significant way. The chart above demonstrates that the holistic approach and multiple strategies employed in its Integrated Plan add up to the best PCB reduction for the river.

The Integrated Plan also includes an adaptive management approach to mitigate risk from population growth and climate change. The approach would remove stormwater from combined and separated stormwater piping as part of street and other public works projects. The City has budgeted for a \$5 million annual investment for the utility portion of such projects. This work would capture PCBs on site, although the City needs to further quantify the PCB reduction benefit of this approach.

PCB Load Reduction

Integrated Clean Water Plan

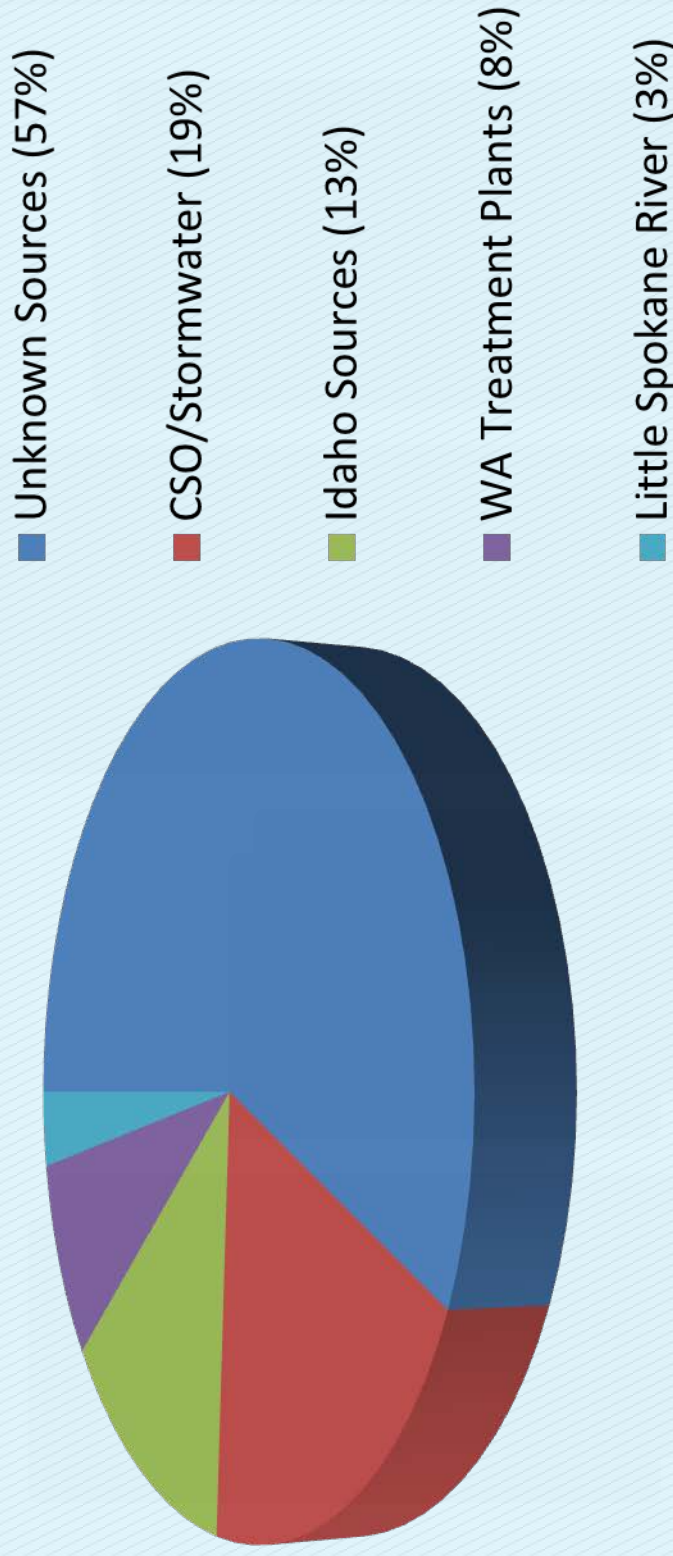


Other Efforts on PCBs

The City is continuing with other work to reduce PCBs entering the Spokane River. Among other things, the City is:

- Working on a project to disconnect the stormwater outfall from the Union Basin to the Spokane River. Historically, this basin is heavy industrial area, and testing has shown higher concentrations of PCBs than other areas within the City.
- Completing more regular cleaning of sediments in catch basins, particularly in industrial areas, to remove PCBs before they reach the river. Testing of these sediments shows ongoing and diffuse sources of PCBs in some areas.
- Working to identify sources of PCBs. The City received a grant to test for PCB levels in products that may come in contact with stormwater that are purchased by local governments, such as road paint, de-icer, motor oil, and similar products.
- Implementing a new PCB-free product preference purchasing policy. The City adopted new policies that require preference for PCB-free products.
- Encouraging the use of low-impact development techniques by private developers to more effectively manage stormwater on site.
- Researching ways to destroy PCBs. The City funded a study looking at the ability of mushroom mycelium to break down PCBs and is launching a new study that looks at incineration of biosolids in the City's Waste to Energy Facility to destroy PCBs.

How do PCBs enter the River?



Reference: Ecology Spokane River PCB Source Assessment, April 2011

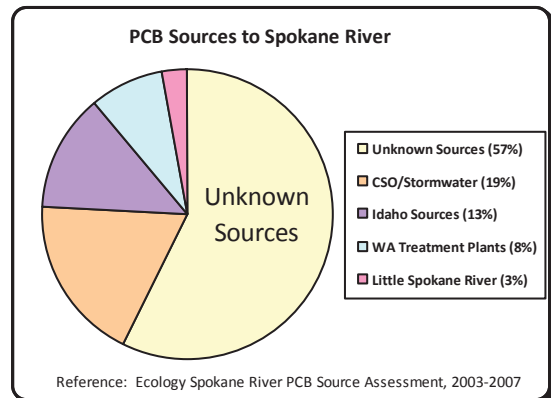
SPOKANE RIVER REGIONAL TOXICS TASK FORCE FUNDING REQUEST

Our Vision - The Regional Toxics Task Force will work collaboratively to characterize the sources of toxics in the Spokane River and identify and implement appropriate actions needed to make measurable progress towards meeting applicable water quality standards for the State of Washington, State of Idaho, and The Spokane Tribe of Indians and in the interests of public and environmental health.

Background

The State of Washington Department of Ecology (Ecology) and the EPA are doing something different than a TMDL to address toxics in the Spokane River. To accelerate clean-up actions, interests groups and governments in the Spokane River basin have collaborated on a unique and innovative approach to reduce PCBs and dioxins in the river. They are pursuing a direct-to-implementation strategy that includes the establishment of a Spokane River Regional Toxics Task Force (Toxics Task Force) to identify and reduce PCBs and dioxins at their source in the watershed.

PCB pollution in the Spokane River is not coming from a few isolated point sources. It is diffuse and difficult to trace. A PCB Source Assessment prepared by Ecology leaves many unanswered questions with respect to the sources of PCBs in the Spokane River. The Assessment identified less than 50% of the sources that contribute to the observed concentrations of PCBs in the river. A consistent method for collecting and analyzing toxics data is necessary in identifying the sources of PCBs in the watershed and implementing clean up actions.



Current Progress

In addition to known sources and site specific clean-up actions in progress, the Toxics Task Force is currently working to identify the unknown sources of PCB's and Dioxins in the Spokane River and develop a cleanup plan aimed at meeting applicable water quality standards. The Task Force recently contracted with an independent community Technical Advisor to assist in development of additional control methods.

Funding Needs

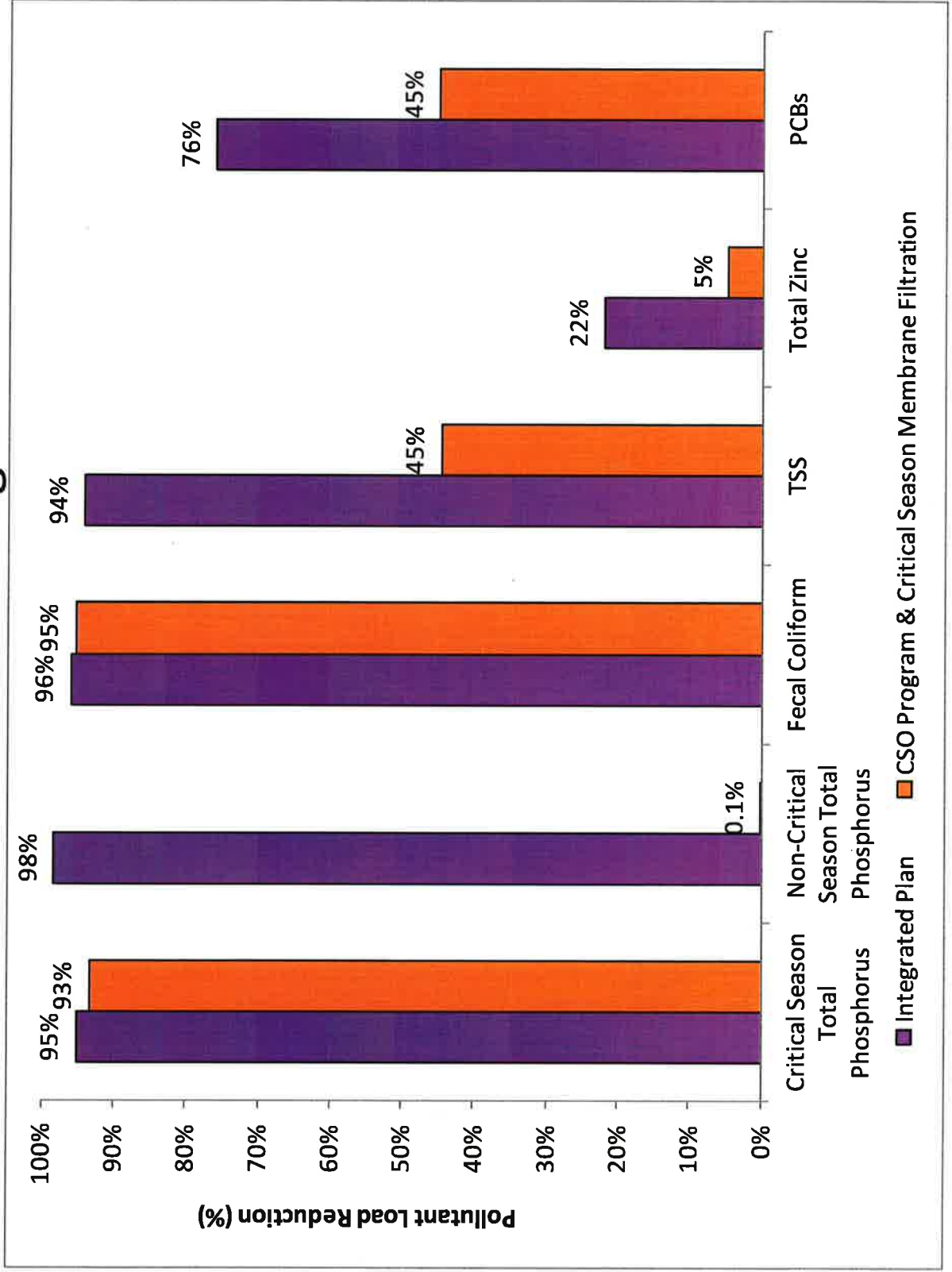
The Toxics Task Force requires \$350,000 in matching Ecology funding during the next biennium to determine the extent of the cleanup required and to act upon the recommendations of the Technical Advisor to implement cleanup methods towards meeting applicable water quality standards. The cleanup plan will:

- Identify the amount by which total PCB and dioxin loads need to be reduced to obtain water quality standards
- Identify specific sources that need to be reduced to meet the overall reduction targets
- Identify the most effective means by which to reduce the identified sources
- Determine best management practices and implementation plans to reduce PCBs and dioxins with the goal of meeting applicable water quality standards

For more information on the Toxics Task Force, visit www.srrttf.org

Pollutant Load Percent Reduction

With and Without Integrated Plan





Mayor David A. Condon

October 17, 2017

Lee Forsgren, Deputy Assistant Administrator for Water
Office of Water
Environmental Protection Agency (EPA)
1200 Pennsylvania Avenue N.W.; WCJN-4530-50
Washington, DC 20460

Dear Mr. Forsgren,

Thank you for taking the time to meet with me and our Public Works Director Scott Simmons on Oct. 5. We appreciated the spirit of collaboration and creativity offered as we seek solutions that will allow the City of Spokane (City) to continue to be both environmentally and financially responsible, as we grapple with new Water Quality Standards.

We are very interested in pursuing a long-term variance as outlined by EPA during our meeting to help us address the new PCB standard of 7 ppq, a number, as we all know is not yet achievable by any known or anticipated technology and can't even be measured.

As we discussed, the city has worked closely with EPA, the Washington State Department of Ecology (Ecology) and community stakeholders for several years to develop and implement our Integrated Clean Water Plan, which has garnered national interest and attention. The City's current program to improve water quality in the Spokane River, as defined in the plan, totals \$340 million, is now years into construction, and already removing millions of gallons of stormwater and wastewater from the river. That's a \$1,600 per citizen investment by our community in the river. The City is paying for this expansive series of projects from utility rates collected and saved over the last decade combined with a new \$200 million debt issue that requires \$13.5 million in annual debt service payments until 2034. Based on this level of expenditures you indicated that we would meet the investment needed to demonstrate compliance with the 2% residential indicator used by EPA to support long-term variance requests.

At our meeting, you and your team (Sara Hisel-McKoy, Corey Buffo, Christopher Kloss, Lucy Edmondson, Cindy Schuster, Michael Lidgard, and Angela Chung) proposed a variance that minimally would coincide with the repayment of the City's debt in 2034. Because of the magnitude of the City's current clean water program, the debt payments would serve as a sufficient annual contribution toward the new standards and meet the terms of the variance. We understand that we will need to work with Ecology and EPA Region 10 on this matter, but that ultimate approval of such a variance rests with EPA nationally. Upon approval, it would be added to our NPDES permit and reviewed as permits are renewed on a five-year cycle.

The City of Choice

808 W. Spokane Falls Blvd. • Spokane, Washington 99201-3335
Phone: 509.625.6250 FAX: 509.625.6563

Mr. Lee Forsgren
October 17, 2017
Page 2

Ultimately, we seek a solution that will help ensure long-term affordability of lifeline utility services for our most vulnerable citizens. The City's median household income is \$44,350, considerably lower than the State of Washington MHI of \$64,129, the U.S. MHI of \$55,775, and the self-sufficiency standard of \$56,010 as determined by a recent University of Washington study of how much a family of four must earn to meet its basic needs in Spokane County.

While that low median household income level concerns us, we are more troubled by the utility cost burden we place on those with the lowest incomes. A quick glance at the American Community Survey for the Spokane Metropolitan Area indicates that at least 20 percent of our households earn \$25,000 or less annually. Some 57 percent of students in Spokane Public Schools qualify for free and reduced price lunch. We clearly need to find a balance that protects our river and our citizens.

We have already reached out to EPA Region 10 officials to continue this dialogue, and we are proceeding with meetings already set with Ecology. Thank you again for a productive meeting.

Sincerely,



David A. Condon
Mayor

CC: Council President Ben Stuckart, City of Spokane
Council Member Amber Waldref, City of Spokane

Sara Hisel-McKoy, Director, Standards and Health Protection Division (Office of Science and Technology, Office of Water)
Corey Buffo, Chief, Regional Branch, Water Quality Standards Program (Office of Science and Technology)
Christopher Kloss, Branch Chief, Water Permits Division

Lucy Edmondson, Director, Washington Operations Office
Cindy Schuster, Regional Intergovernmental Contact
Michael Lidgard, Acting Director, Office of Water and Watersheds
Angela Chung, Associate Director, Office of Water and Watersheds

EPA Water Quality Standards (Fish Consumption Rule)
Milestone Record
City of Spokane
2016-2017

Date	What	Who
November 15, 2016	EPA announces it has developed new Water Quality Standards for Washington State. Includes 7 ppq standard for PCBs and an arsenic standard below what's found naturally in groundwater	EPA announcement
November 15, 2016	Ecology Director Maia Bellon issues a news release indicating that Ecology is "disappointed" by EPA's decision and said Ecology's work was tailored to work for Washington state	Ecology news release
November 28, 2016	City Council is briefed on the new EPA Water Quality Standards at the Public Works Committee Meeting.	Elizabeth Schoedel, Scott Simmons
November 29, 2016	Staff briefs Mayor on new EPA Water Quality Standards and PCB limits expected in new NPDES permit	Mayor, Theresa Sanders, Mike Piccolo, Scott Simmons, Elizabeth Schoedel, Cadie Olsen, Marlene Feist, Craig Trueblood on the phone
November 29, 2016	Inland Empire Paper and Greater Spokane Incorporated meet with Mayor to discuss PCB standards.	Doug Krapas, Todd Mielke, Mayor, Scott Simmons, Marlene Feist
November 30, 2016	Final EPA Water Quality Standards Rule was published in the Federal Register.	EPA action
December 7, 2016	Meeting with Grant Pfeiffer and Jim Bellaty, Ecology, at North Monroe office	Scott Simmons, Marlene Feist, Cadie Olsen
December 12, 2016	Meeting with State Legislative Delegation in City Hall – Included information on water quality standards	Mayor, Theresa Sanders, Council Members, staff
December 13, 2016	State of Idaho submits final Water Quality Standards rule to EPA. Fish consumption at 17.5 g and cancer risk at 1 in 100,000. PCB limit would be 190 ppq	Idaho action
December 15, 2016	Association of Washington Business (AWB) sends letter to the Governor asking the state to seek reconsideration of the EPA Water Quality Standards.	AWB action
December 16, 2016	Received information from Association of Washington Business (AWB) on their work to get the rule reviewed/reconsidered.	Marlene Feist

December 22, 2016	Letter requesting a reconsideration of the EPA standards sent to EPA Region 10 Director Dennis McLerran	From the Mayor
December 22, 2016	Letter requesting Ecology to ask for a reconsideration of the EPA Water Quality Standards sent to Ecology Director Maia Bellon	From the Mayor
December 28, 2016	Final EPA Water Quality Standards Rule takes effect – 30 days after publication in the Federal Register.	EPA Action
January 6, 2017	Meeting with staff members of our Federal Delegation to discuss the need for reconsideration of the Water Quality Standards promulgated by EPA	Mayor, Scott Simmons, Marlene Feist, Katherine Miller
Week of January 16, 2017	Mayor met with Congressional leaders in Washington, DC. This was one of the topics discussed.	Mayor
January 23, 2017	Response received from Dennis McLerran of EPA, declining the City's request to reconsider the Water Quality Standards	To the Mayor
January 23, 2017	Met with Craig Trueblood to brainstorm ideas on how to get the rule reconsidered	Elizabeth Schoedel, Scott Simmons, Marlene Feist, Cadie Olsen
January 25, 2017	EPA officials meet with Spokane River Regional Toxics Task Force to discuss new water quality standards.	Elizabeth Schoedel, Cadie Olsen
February 7, 2017	Letter from Mayor to State leaders, Erickson and Benton, who were named to the EPA Transition Team about Water Quality Standards	From the Mayor
February 8, 2017	Letter to Erickson and Benton shared with City Council	Scott Simmons
February 10, 2017	Letter from Ecology to the Mayor from Department of Ecology, stating Ecology was uncertain whether they would challenge the EPA rule	To the Mayor
February 21, 2017	AWB (Association of Washington Business) files a petition for reconsideration of the EPA Water Quality Standards.	AWB action
February 22, 2017	Scott calls Tim Peckinpugh to get an assessment of the proposed HR 465 and discuss other strategies around the new water quality standards	Scott Simmons
February 23, 2017	Mayor signs on with the U.S. Conference of Mayors in support of HR 465, which is about integrated planning. Specifically, it would require EPA to ensure that a standard is	Marlene Feist & U.S. Conference of Mayors

	technically achievable and that the technology is affordable.	
February 27, 2017	Received letter from EPA Region 10, acknowledging receipt of letter to Erickson and Benton and referencing an upcoming conference call with EPA staff.	From EPA
March 2, 2017	Phone conference call with EPA staff from national and region 10 headquarters	Mayor, Scott Simmons, Elizabeth Schoedel, Marlene Feist
March 23, 2017	Followup letter to Erickson and Benton after conference call with EPA Staff, indicating dissatisfaction with that meeting and requesting an in-person meeting	From the Mayor
March 23, 2017	Followup letter to Congressional delegation after conference call with EPA staff, indicating dissatisfaction with that meeting and requesting in-person meetings	From the Mayor
April 1, 2017	Article in U.S. Conference of Mayors Water Council e-newsletter for April.	From the U.S. Conference of Mayors Water Council
April 5, 2017	Meeting Eastern Regional Director for State Department of Ecology Grant Pfeifer to discuss Ecology's current position on standards.	Scott Simmons, Grant Pfeifer
April 11, 2017	Meeting with Spokane Riverkeeper Jerry White, Lands Council CEO Mike Peterson, and Center for Justice's Rick Eichstaedt to discuss City's position on standards.	Scott Simmons, Marlene Feist, Jerry White, Mike Peterson, Rick Eichstaedt
April 12, 2017	Phone meeting with Ecology officials to discuss process of how our new NPDES permit will ultimately incorporate new standards.	Scott Simmons, Marlene Feist, Elizabeth Schoedel, Lars Hendron, Sara Hunt, Ellie Key, Diana Washington, Grant Pfeifer
May 31, 2017	Adriane Borgias and Grant Pfeifer from Ecology spoke to the SRRTF about their plans to hold "in-depth" listening sessions with all affected parties, tribes and NGOs by the fall. All permittees were to remain covered under administrative extensions until new permits are completed.	Adriane Borgias, Grant Pfeifer, Cadie Olsen, members of the SRRTF
June 30, 2017	Ecology sends letter with an attached administrative order related to NLT milestones and CSO completion dates	From Ecology, Adriane Borgias
October 6, 2017	Visit to Washington D.C. to meet with Congressional Delegation and EPA in person.	Mayor, Scott Simmons EPA Headquarters: Lee Forsgren, Deputy Assistant Administrator for Water, Office of Water Sara Hisel-McKoy, Director, Standards and Health Protection

		<p>Division (Office of Science and Technology, Office of Water) Corey Buffo, Chief, Regional Branch, Water Quality Standards Program, Office of Science and Technology, OW Christopher Kloss, Branch Chief, Water Permits Division (OW)</p> <p>EPA Region X: Lucy Edmondson, Director, Washington Operations Office Cindy Schuster, Regional Intergovernmental Contact (schuster.cindy@epa.gov) Michael Lidgard, Acting Director, Office of Water and Watersheds Angela Chung, Associate Director, Office of Water and Watersheds</p>
October 19, 2017	Ecology “listening” session on NPDES permits and incorporating new water quality standards.	Scott Simmons, Cadie Olsen, Marlene Feist, Heather Bartlett, Jason Norberg, Adriane Borgias, Ellie Key, Grant Pfeifer

**Integrated Water Plan Outreach
2012/2013/2014**

Date Group	# of People	Notes
2/18/2014	10	Integrated Plan timeline/funding options
2/26/2014	4	Rick/Theresa S/Grant/Tom update on Integrated Plan
3/3/2014		City Council adopted resolution during regular 6 p.m. meeting/CityCable 5
3/10/2014	6	Discussion on Glover Field/CSO projects
3/12/2014	12	Rick/Marcia/Lars/Chris update on Integrated Plan, 6-year water & wastewater plans
3/14/2014	10	Official hand-off of draft Integrated Plan to Ecology
3/17/2014		City Council adopted resolution during regular 6 p.m. meeting/CityCable 5
3/18/2014	25	City presents to all Clean Water officials at Ecology in Olympia
4/10/2014	12	
4/29/2014	6	update to Spokane Tribal officials
4/30/2014	10	In Washington D.C./National officials
5/5/2014		City Council adopted resolution during regular 6 p.m. meeting/CityCable 5
5/13/2014	20	Theresa, Rick presented on stormwater funding issues
5/19/2014	5	Discussion on how to proceed with state funding
6/6/2014	10	Andy Billig, Kevin Parker, M Baumgartner, Timm Ormsby, etc
6/16/2014	10	Update with Spokane Tribal officials
6/17/2014	15	Marcia Davis organized the tour
7/24/2014	12	
8/19/2014	5	Rick, Theresa, Gloria, and City lobbyists met with Rob Duff and some state legislators
10/29/2014	10	Mayor, Rick, Gloria meet with legislators in City Hall

Citizens (presentations, etc.)

2/22/2013	20	Mike Taylor - Glover field possibilities
3/1/2013	30	Introduction of the Integrated Plan
3/13/2013	15	Introduction of the Integrated Plan
3/19/2013	20	Explanation of CSO 34-3 project
3/26/2013	200	Introduction of the Integrated Plan - also live tweeting/facebook
3/26/2013	120	Marcia Davis/Lars Hendron/Lynn Schmidt - Overview of integrated plan plus CSO/stormwater
4/20/2013	20	Lake Spokane homeowners associations summit (Lake Spokane Protection Assn.)
5/8/2013	100	Mayor Condon on sustainability, Integrated Plan, and the business case
		Shared information on FB

**Integrated Water Plan Outreach
2012/2013/2014**

Date Group	Stakeholders	# of People	Notes
2/8/2013	Riverkeeper, Lands Council, Center for Justice	6	Rick Eichstaedt, Bart Mihailovich, Mike Peterson - introduction
2/22/2013	Riverkeeper, Lands Council, Center for Justice	3	Rick Eichstaedt, Bart Mihailovich, Mike Peterson - update on sizing
3/25/2013	NW Environmental Defense Center	1	Marla Nelson
3/26/2013	Spokane River Forum - Mayor keynote on Integrated Plan	200	Mayor lunch keynote to full conference attendees
3/26/2013	Spokane River Forum - panel discussion (stormwater & CSO)	120	Marcia Davis/Lars Hendron/Lynn Schmidt - breakout session on Integrated Plan
4/23/2013	Sierra Club, Rachel Paschal Osborne	1	Meeting between Elizabeth Schoedel and Rachel Osborne
5/28/2013	Sierra Club, Rachel Paschal Osborne	1	Meeting with Rick Romero, Elizabeth Schoedel & Rachel Osborne
6/27/2013	Spokane River Regional Toxics Task Force	20	Introduction to the Integrated Plan to other local officials, etc.
7/11/2013	US Conf of Mayors Water Council	25	Introduction to the Spokane Integrated Plan
8/7/2013	Participation in Rain Ops seminar	20	NW Environmental Defense Ctr sponsored event
8/12/2013	Riverkeeper, Center for Justice	2	Update on work on CSO amendment, Integrated Plan, NLT
9/10/2013	Lands Council	3	CSO Basin 6 pilot project, update on plan work
9/30/2013	Update with Rachel Paschal Osborne, Sierra Club	1	Update conducted by Elizabeth Schoedel
10/9-10/10/13	US Conf of Mayors Water Council	20	Rick participating in bi-annual mtg
10/24/2013	Riverkeeper, Center for Justice, Lands Council, River Forum, Ecology, etc.	90	Presentation on Integrated Plan at Green Solutions seminar with reps in attendance
1/16/2014	Riverkeeper, Center for Justice Lands Council	3	Presentation on updated Integrated Plan, NLT
2/6/2014	NW Environmental Defense Center	1	Marlene & Marcia provide update to Marla Nelson
4/21/2013	Riverkeeper, Center for Justice, Lands Council	3	Updated information to stakeholders
4/23/2014	Spokane River Regional Toxics Task Force	20	Rick presentation to the group
4/30/2014	Meeting with US Conf of Mayors Water Council's Rick Anderson	1	In Washington DC - Mayor, Rick
6/20/2014	Presentation to the U.S. Conf of Mayors' Water Council	50	Mayor presents to the Water Council
7/15/2014	Presentation to NACWA	100	Mayor & Rick Romero present to National Association of Clean Water Agencies
7/23/2014	Spokane River Regional Toxics Task Force	20	Elizabeth and Rick presented to the task force
TOTAL (minus duplicates from above)		107	

**Integrated Water Plan Outreach
2012/2013/2014**

Date Group **Media Coverage** **# of People** **Notes**

Date Group	Media Coverage	# of People	Notes
12/16/2012	Spokesman Review - "City Hopes to extend sewage outflow deadline"		Jonathan Brunt article
1/16/2013	Spokesman Review - "City shuffles staff to tackle clean water plan"		Mike Prager article
1/28/2013	Spokesman Review - "Getting There: Kendall Yards park to serve as stormwater filter"		Mike Prager article - http://www.spokesman.com/stories/2013/jan/28/getting-there-kendall-yards-park-will-also-serve/
1/28/2013	"A River Runs Through It" - On stormwater and Kendall Yards project		Riverkeeper blog post - http://www.cforjustice.org/2013/01/28/a-river-runs-through-it/
2/1/2013	KPBX news coverage on integrated plan (interview w/ Mayor)		Steve Jackson piece
3/7/2013	"Stormwater v. Sewage for the City of Spokane" blog post		NW Environmental Defense Center (Marla Nelson) - http://www.spokanecleanwater.org/1/post/2013/03/stormwater-versus-sewage-for-the-city-of-spokane.html
3/27/2013	"City Reassesses Plan for Avoiding River Pollution"		KPBX public radio piece - http://www.kpbx.org/spr-news-feed-entry-311-city-reassesses-plan-for-avoiding-river-pollution
4/17/2013	Mike Fitzsimmons show on KXLY 920 (Rick & Mayor guests)		Audience reached through radio and on-line streaming
4/21/2013	Included social media mentions on City FB, Twitter		
4/21/2013	"Volunteers spruce up City's storm gardens"		Kevin Graman article - http://www.spokesman.com/stories/2013/apr/21/volunteers-spruce-up-citys-storm-gardens/
4/1/2013	"Executive Director's Report"		Coverage in the Lands Council's April 2013 newsletter
5/16/2013	"Tree Inventory helps arborists plan for Spokane's future"	5700	Spokesman Review - Jonathan Brunt
5/16/2013	"Tree Inventory helps arborists plan for Spokane's future"		http://www.spokesman.com/stories/2013/may/16/spokane-tree-inventory-helps-arborists-plan-for/
5/30/2013	Shared on FB		FB post reach - 300 (Talked about connection with stormwater)
5/30/2013	"Part II: Addressing Spokane's Stormwater & Sewage" blog post	5,900	NW Environmental Defense Center (Marla Nelson) - http://www.spokanecleanwater.org/1/post/2013/05/part-ii-addressing-spokanes-stormwater-and-sewage.html
5/30/2013	Shared post on City FB, Twitter		FB post reach - 284
5/30/2013	"Monroe St Bridge closed for two weeks due to stormwater project"		Down to Earth blog - by Paul Dillon
6/1/2013	A Tale of Two Stormwater LID Projects - AWC magazine		http://www.downtoearthnw.com/blogs/down-earth/2013/may/30/monroe-st-bridge-closed-two-weeks-due-to-stormwater-project#more
7/20/2013	"City to get loans for sewer projects"		Features Spokane's Broadway SURGE project - http://www.awcnet.org/portals/0/documents/lid/Article3CaseStudies.pdf
7/20/2013	"City to get loans for sewer projects"		Brief in Spokesman Review by Nick Deshais
7/20/2013	"City to get loans for sewer projects"		http://www.spokesman.com/stories/2013/jul/19/in-brief-group-oks-funds-for-new-nic-center/

**Integrated Water Plan Outreach
2012/2013/2014**

Date Group	# of People	Notes
8/7/2013		"Can we get a park with that?" S-R Shawn Vestal column on Glover concept: http://www.spokesman.com/stories/2013/aug/07/can-we-get-a-park-with-that/
8/7/2013		"Open House set for Spokane's Integrated Clean Water Plan" Down to Earth blog post: http://www.downtoearthnw.com/blogs/down-earth/2013/aug/07/open-house-set-spokanes-integrated-clean-water-plan/
8/7/2013		"Spokane city budget proposal adds 25 police officers" S-R Nick Deshais article on 2014 budget, including info on CSO/stormwater work: http://www.spokesman.com/stories/2013/aug/07/spokane-city-budget-proposal-adds-25-police/
8/12/2013		"Developer and city reroute pipes to prevent pollution in river" KPBX public radio piece by Paige Browning: http://kpbx.org/spr-news-feed-entry-747-developer-and-city-reroute-pipes-to-prevent-pollution-in-river
8/13/2013		"City of Spokane, Kendall Yards team up to clean, use stormwater" S-R Nick Deshais article: http://www.spokesman.com/stories/2013/aug/13/city-of-spokane-kendall-yards-team-up-to-clean/
8/19/2013		"All In on Stormwater" Blog post by Riverkeeper (Bart Mihailovich): http://www.cforjustice.org/2013/08/19/all-in-on-stormwater/
8/26/2013		"Spokane City Council votes on ordinance tonight to better manage stormwater" Down to Earth blog post: http://www.downtoearthnw.com/blogs/down-earth/2013/aug/26/spokane-city-council-votes-ordinance-tonight-better-manage-storm-water/
8/21/2013		"Join in Solidarity for a clean Spokane River" Riverkeeper Blog "The Living River" http://www.cforjustice.org/2013/08/21/join-in-solidarity-for-a-clean-spokane-river/
8/29/2013		"Spokane steps up spending to curb river pollutants" article in Journal of Business (Treva Lind): http://www.spokanejournal.com/article.php?id=9516
9/19/2013		"Geek Out: Exactly how big is the city's new CSO reduction tank?" Down to Earth blog - by Paul Dillon http://www.downtoearthnw.com/blogs/down-earth/2013/sep/19/geek-out-exactly-how-big-citys-new-cso-reduction-tank/
9/23/2013		"Wastewater Project begins on Ray Street" KREM TV - http://www.krem.com/traffic/alerts/Project-to-reduce-wastewater-flow-begins-on-Ray-Street-224945432.html
9/24/2013		"City, Lands Council partner on stormwater pilot project in Shadle Park area" WaterWorld Magazine online: http://www.waterworld.com/news/2013/09/25/city-the-lands-council-partner-on-stormwater-pilot-project-in-shadle-park-area.html
10/1/2013		"City of Spokane & Lands Council partners on stormwater pilot project in Shadle Park" Down to Earth blog post: http://www.downtoearthnw.com/blogs/down-earth/?page=2
10/3/2013	6,500	"Shadle-area stormwater gardens will filter runoff" Spokesman Review - Pia Hallenberg http://www.spokesman.com/stories/2013/oct/03/shadle-area-stormwater-gardens-will-filter-runoff/

**Integrated Water Plan Outreach
2012/2013/2014**

Date Group	# of People	Notes
5/4/2014		Spokesman Review, Dave Wasson http://www.spokesman.com/stories/2014/may/04/clean-water-plan-largest-public-works-project-in/
5/6/2014		Spokesman Review, Dave Wasson http://www.spokesman.com/stories/2014/may/06/city-council-endorses-integrated-clean-water-plan/
5/5/2014		KPBX, Paige Browning, http://kpbx.org/spr-news-feed-entry-1879-city-unveils-310m-water-plan-to-public
5/7/2014		Spokesman Review editorial: http://www.spokesman.com/stories/2014/may/07/editorial-feds-state-should-give-city-credit-for/
5/8/2014		Riverkeeper blog: http://www.cforjustice.org/2014/05/08/has-a-new-bar-been-set-in-spokane/
5/13/2014		http://www.tw.org/index.php?option=com_twitter&eventID=2014050079
6/8/2014		http://www.spokesman.com/stories/2014/jun/08/council-implements-pcb-free-product-preference/
8/6/2014		http://www.spokesman.com/stories/2014/aug/06/spokane-city-budget-proposal-boosts-police/
8/11/2014		Out There Monthly http://www.outtheremonthly.com/is-it-safe-to-swim-in-the-spokane-river/
9/14/2014		http://www.spokesman.com/stories/2014/sep/14/spokane-utilities-director-romero-innovative/
9/17/2014		Shared on Facebook & Twitter "Editorial: City plan to clean waterways deserves funding"
10/1/2014		http://www.spokesman.com/stories/2014/sep/17/editorial-city-plan-to-clean-waterways-deserves/ http://www.inlander.com/spokane/troubled-waters/Content?oid=2361935
11/3/2014		Moody's news release https://www.moody.com/research/Moody's-assigns-Aa2-to-the-City-of-Spokane-Water-and--PR_311913?WT.mc_id=AM~VWFob29fRmluYW5jZTQyX1NCX1JhdGluzYB OZXdzX0FsbF9Fbmc%3D~20141103_PR_311913
11/12/2014		Bond Buyer newspaper http://www.bondbuyer.com/news/regionalnews/spokane-wash-to-sell-175m-of-green-bonds-1067877-1.html
11/16/2014		Spokesman Review http://www.spokesman.com/stories/2014/nov/16/city-issues-200-million-in-green-bonds/

**Integrated Water Plan Outreach
2012/2013/2014**

Date Group # of Notes People

Date Group	# of Notes	People	Notes
		7,000	Fb reach 354
Nov. 2013			Replays of Rick's Green Solutions speech on Cable 5, web
11/14/2013		7,000	Photo of current construction at 21st & Ray CSO tank
Dec. 2013			Replays of Kari Mackenbach green infrastructure speech on Cable 5
1/9/2014		35,000	Distribution of Link Spokane publication
1/9-1/10/14		30,000	Share Link Spokane publication on web
		8,500	Share on FB/Twitter
1/22/2014		8,500	Current pictures of CSO tank at 21st & Ray on FB/Twitter
1/28/2014		8,500	Mule cleanup post on FB/Twitter of River bank
2/3/2014		110,000	News Release on NLT design/const mgmt RFQ
		8,500	Shared on Facebook & Twitter
3/3/2014			Mayor Monday media brfg
3/10/2014			Mayor Monday media brfg
3/1/2014			Your City with the Mayor program
4/24/2014		8,500	H2O Breakfast Promotion on FB & Twitter
4/26/2014			Earth Day booth focusing on stormwater
4/29/2014		110,000	News release announcing Council's plan to adopt plan
		8,500	Shared on Facebook & Twitter
4/30/2014		8,500	Photo from Underhill CSO tank posted to FB & Twitter
5/7/2014			Underhill CSO Tank blog post
6/20/2014		110,000	News release on Mayor's presentation, advocacy with USCOM
		8,500	Shared on Facebook & Twitter
7/15/2014		110,000	News release on presentation to NACWA
		9,000	shared on Facebook & Twitter
8/1/2014			Blog post on new stormwater permit & integrated plan
10/15/2014			Council release on its legislative priorities
10/20/2014			Facebook & Twitter video from San Francisco ratings trip
10/29/2014			Blog post on Green Bonds
11/6/2014		110,000	News release on green bond ratings from Moody's, S&P
		9,000	Shared on Facebook & Twitter
11/18/2014		110,000	News release on wastewater bill discounts & rates
		90,000	Shared on Facebook & Twitter

**Integrated Water Plan Outreach
2012/2013/2014**

Date Group	# of People	Notes
City Council Action		
3/3/2014		Approved
3/10/2014		Approved
3/17/2014		Approved
5/5/2014		Approved
10/28/2014		Approved

Presentations

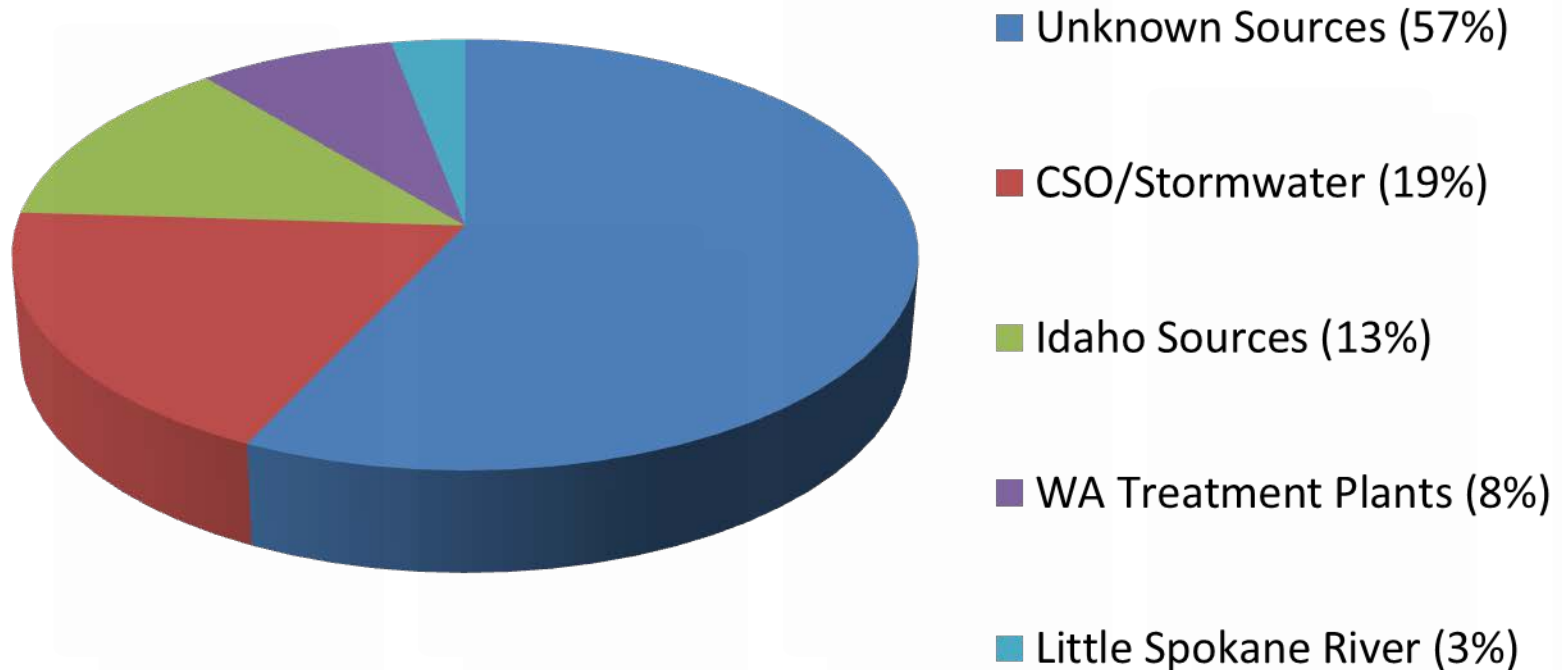


Water Quality Standards & PCBs

October 2017



How do PCBs enter the River?

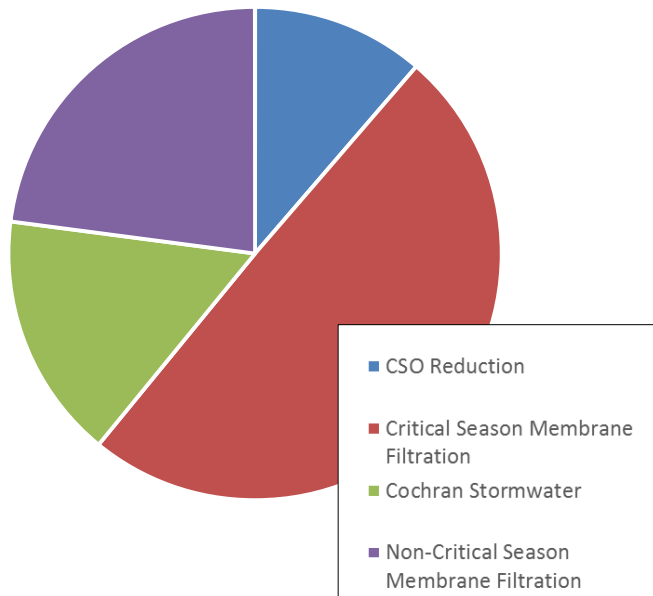


Reference: Ecology Spokane River PCB Source Assessment, April 2011

Integrated Plan Gets Results

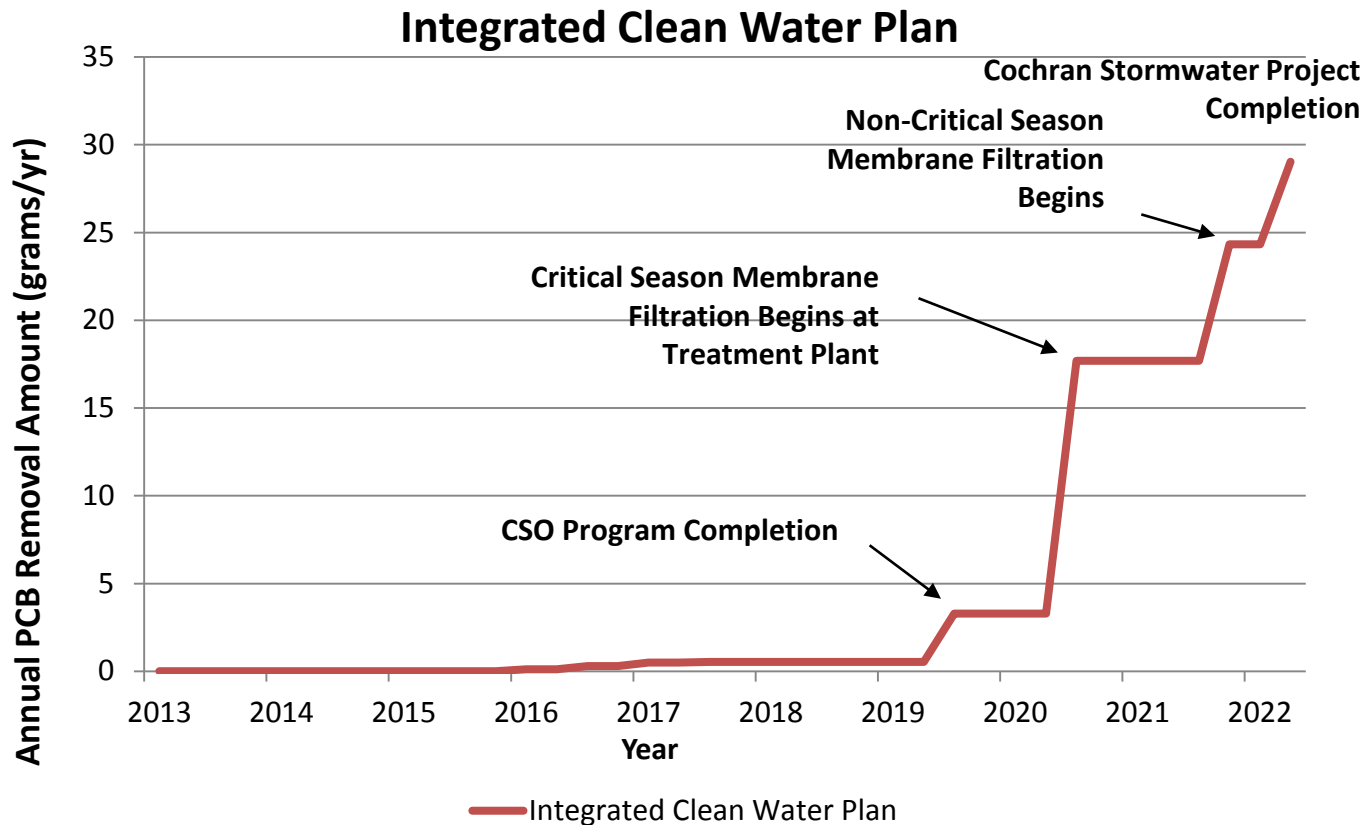
PCBs

A Mix of Projects Delivers the Best Results



- 3 components:
 - **CSO:** Manage flows going to River from combined sewers
 - **Stormwater:** Include Cochran Basin project
 - **NLT:** Add tertiary treatment at Treatment Plant

PCB Load Reduction



**30 grams
of PCB
removal
annually
from
Integrated
Plan
projects**

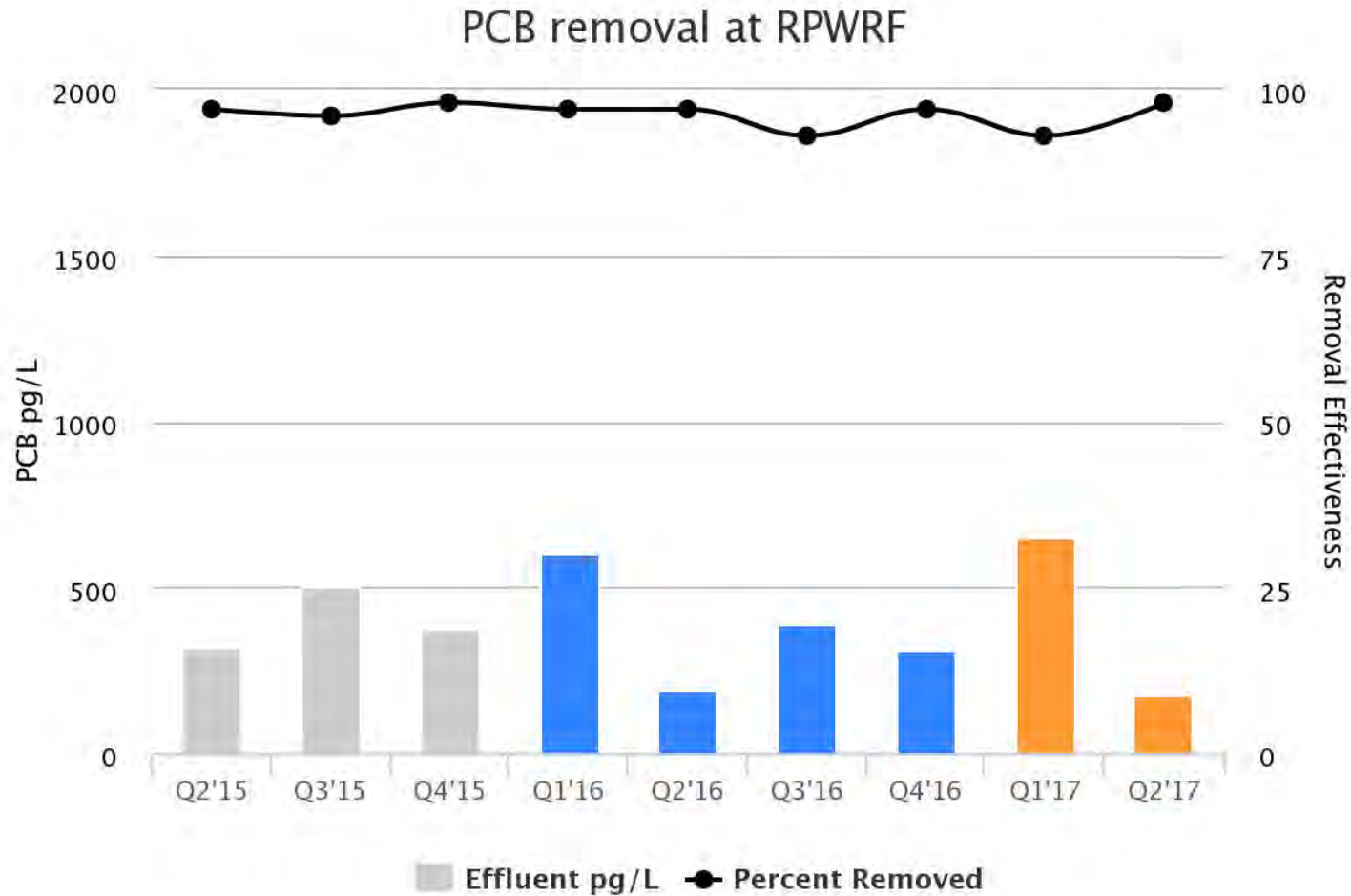
Other PCB Efforts

- Addressing areas with high legacy PCBs like Union Basin
- Addressing stormwater when we rebuild streets
- Regular cleaning of catch basins
- PCB-free purchasing policy
- Low-impact development ordinance
- Research on ways to destroy PCBs
 - Mycelium research
 - WTE incineration
- Suing Monsanto over PCB pollution

Where We Were Headed

- Close to getting a new permit with the Ecology PCB standard
 - 170 ppq (parts per quadrillion)
- Completion of NLT would get us close to reaching this very low number
- Remember, TSCA accepts cleanups to 50 ppm
- Consumer products allowed to have 50 ppm of “inadvertently” produced PCBs

Progress Already – Pre-NLT!

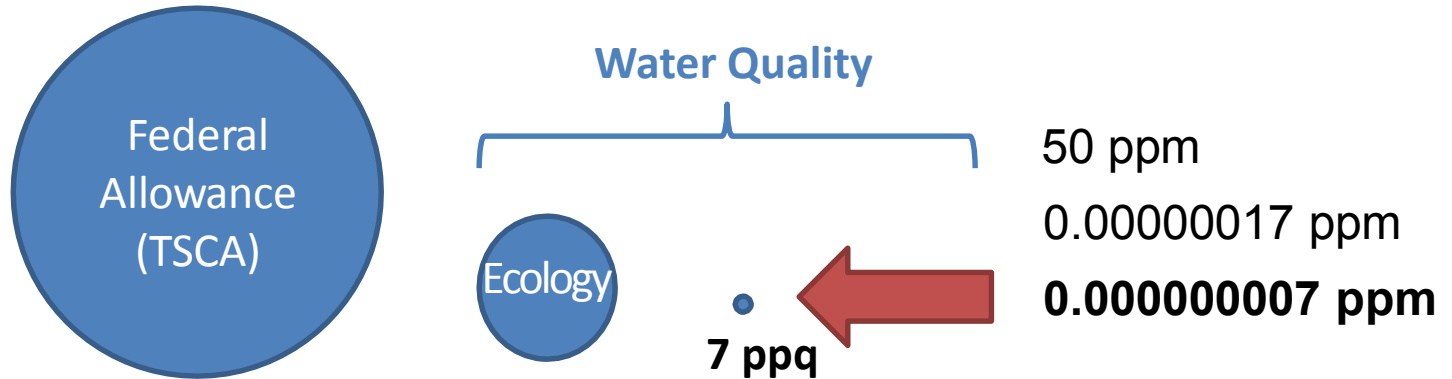


The 7 ppq challenge

- Testing is not reliable to this level
- Technology to get there doesn't currently exist
- Future cost to citizens is unknown
 - Additional to 20 years of payments on “green” bonds
- Impact to PCB level in water is unknown
- Impact to PCB accumulation in fish also unknown
 - Need to compare PCB “fingerprint” in fish w/ what's coming from point sources

Magnitude Difference

What Are PCB Limits?



TSCA compared to new EPA Water Quality Standard

Magnitude Difference = **7 Billion**

Where should we invest citizens' \$?

- Other kinds of river cleanups
- Other pollutants
- River bank restoration
- Continued stormwater removal in street projects
- Access points for recreation
- Other ways to enjoy the river – Viewpoints, public plazas, bike and ped facilities



Progress continues!

Public Infrastructure, Environment and Sustainability Committee

2-Year Priority Work-Plan Outline – Innovative Infrastructure

Priority Strategy 1. Rapidly Accelerating Street Pavement Maintenance Projects

- Lower cost, shorter duration pavement improvement options
- Paving unimproved streets

Priority Strategy 2. Repurposing Public Property to Stimulate Private Investment.

- Stormwater Utilities in PDAs
- Partnership with Spokane Public Schools for new neighborhood schools, libraries and parks/fields
- Leverage our Riverfront Park investments to stimulate urban development
- Surplus City property back on the tax roles

Priority Strategy 3. Smart Use of Water Resources for Economic Growth

- Water-Smart conservation and capacity strategies and partnerships
- Aquifer protection investments in environmental clean-up

Priority Strategy 4. Putting Our Renewable Energy Resources to Work in the Community

- Waste to Energy, Upriver Dam, Landfill and Wastewater opportunities

Street Repair Strategies

- **Pavement Condition & Condition of Road Base**
- **Average Daily Traffic Volume**
- **Funding Availability**
- **Plans for Future Work**
 - How does the Street fair on the priority matrix?
- **Can we improve drivability and safety?**



**Full Rebuild
Lincoln/Monroe
downtown**

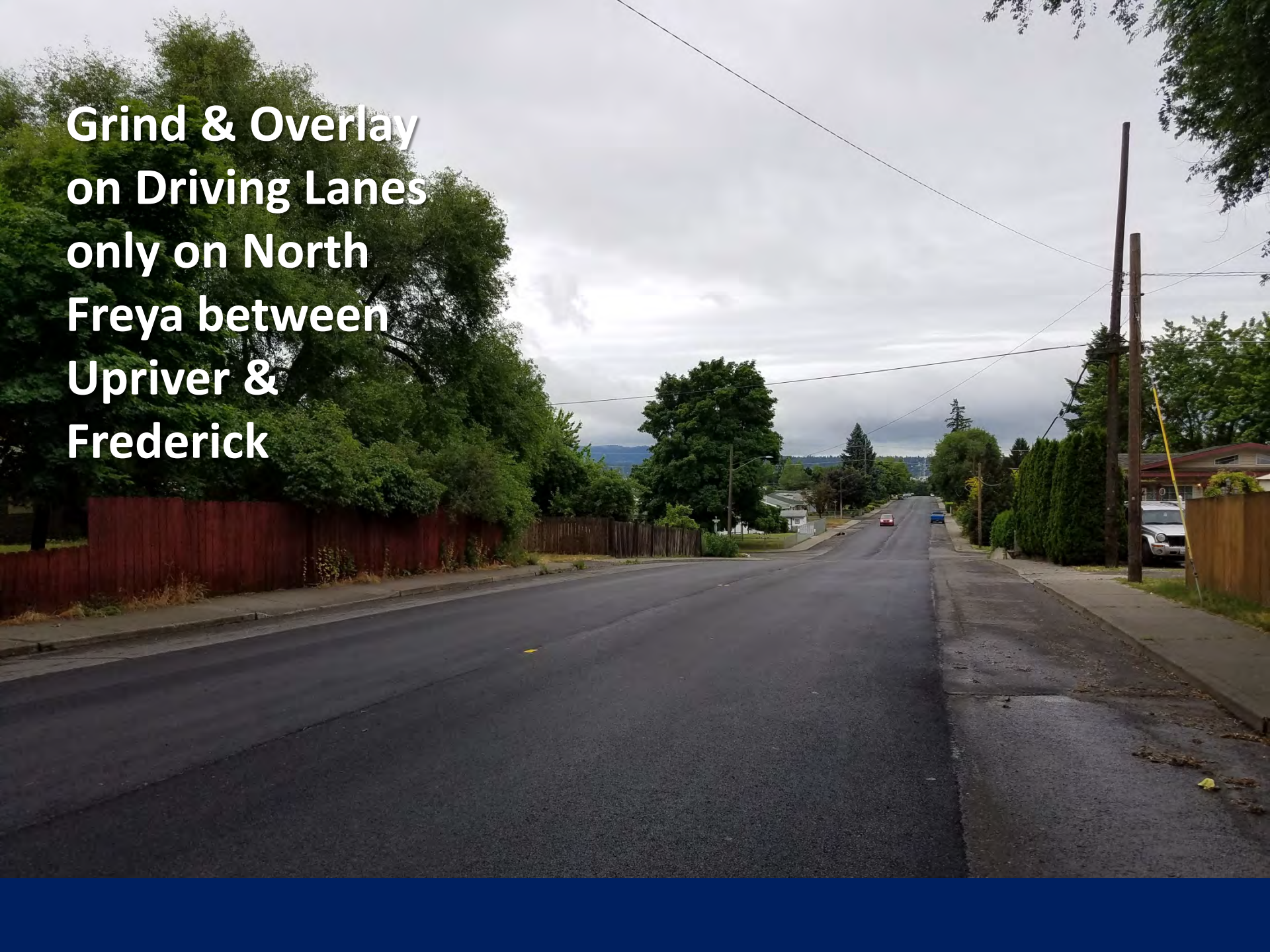



**2-inch Grind &
Overlay on Thor
between Sprague
& Second**



**2-inch Grind &
Overlay on Maxwell
near Maple**

**Grind & Overlay
on Driving Lanes
only on North
Freya between
Upriver &
Frederick**






**Another view of
Driving Lane
Grind & Overlay
on North Freya
near Esmeralda
Golf Course**



**Thin overlay on
Driving Lanes
Only on Sharp
between Pearl &
Hamilton**



**Thin Overlay
work on Sunset
Blvd/Driving
Lanes only**



**Chip Seal on
Upriver from
Greene to
Center/Driving
Lanes Only**



Crack Sealing



Patch Repairs



Pothole Repairs