



# SEATTLE CITY COUNCIL

## Legislative Summary

CB 118588

Record No.: CB 118588

Type: Ordinance (Ord)

Status: Passed

Version: 3

124966

In Control: City Clerk

File Created: 11/10/2015

Final Action: 12/17/2015

**Title:** AN ORDINANCE relating to Seattle Public Utilities; authorizing the Director of Seattle Public Utilities to enter into a Joint Project Agreement with King County to design, construct, operate, and maintain the Ship Canal Water Quality Project, in partial fulfillment of the objectives of the Consent Decree authorized under Ordinances 123908 and 124129, and the "Plan to Protect Seattle's Waterways" authorized under Ordinance 124766, to reduce Combined Sewer Overflows; and ratifying and confirming certain prior acts.

### Date

Notes:

Filed with City Clerk: 12/17/2015

Mayor's Signature: 12/17/2015

Sponsors: Bagshaw

Vetoed by Mayor:

Veto Overridden:

Veto Sustained:

**Attachments:** Att 1 Ex A - Project Description, Att 1 Ex B - Change Management, Att 1 Ex C - One Team Decision Making Guidelines, Att 1 Ex D - List of Potential Causes for Capital Cost Increases, Att 1 Ex E - DNRP-WTD Invoice Format, Att 2 - SCWQP System Illustration

**Drafter:** bob.hennessey@seattle.gov

**Filing Requirements/Dept Action:**

### History of Legislative File

Legal Notice Published:

☐ Yes

☐ No

| Version: | Acting Body:                                                                                 | Date:      | Action:                            | Sent To:                   | Due Date: | Return Date: | Result: |
|----------|----------------------------------------------------------------------------------------------|------------|------------------------------------|----------------------------|-----------|--------------|---------|
| 1        | Mayor                                                                                        | 11/24/2015 | Mayor's leg transmitted to Council | City Clerk                 |           |              |         |
|          | Action Text: The Council Bill (CB) was Mayor's leg transmitted to Council. to the City Clerk |            |                                    |                            |           |              |         |
|          | Notes:                                                                                       |            |                                    |                            |           |              |         |
| 1        | City Clerk                                                                                   | 11/24/2015 | sent for review                    | Council President's Office |           |              |         |
|          | Action Text: The Council Bill (CB) was sent for review. to the Council President's Office    |            |                                    |                            |           |              |         |
|          | Notes:                                                                                       |            |                                    |                            |           |              |         |

- 1 Council President's Office 11/24/2015 sent for review Seattle Public Utilities and Neighborhoods Committee  
Action Text: The Council Bill (CB) was sent for review. to the Seattle Public Utilities and Neighborhoods Committee  
Notes:
- 1 Full Council 11/30/2015 referred Seattle Public Utilities and Neighborhoods Committee  
Action Text: The Council Bill (CB) was referred. to the Seattle Public Utilities and Neighborhoods Committee  
Notes:
- 1 Seattle Public Utilities and Neighborhoods Committee 12/08/2015 pass as amended Pass  
Action Text: The Committee recommends that Full Council pass as amended the Council Bill (CB).  
In Favor: 1 Chair Bagshaw  
Opposed: 0  
Absent(NV): 1 Member Harrell
- 2 Full Council 12/14/2015 passed as amended Pass  
Action Text: The Council Bill (CB) was passed as amended by the following vote and the President signed the Bill:  
Notes: ACTION 1:  
  
Motion was made by councilmember Burgess and duly seconded to amend  
  
ACTION 2:  
  
In Favor: 7 Council President Burgess, Councilmember Godden, Councilmember González , Councilmember Harrell, Councilmember Licata, Councilmember O'Brien, Councilmember Sawant  
Opposed: 0  
Absent(NV): 1 Councilmember Rasmussen
- 3 City Clerk 12/16/2015 submitted for Mayor  
Mayor's signature  
Action Text: The Council Bill (CB) was submitted for Mayor's signature. to the Mayor  
Notes:
- 3 Mayor 12/17/2015 Signed  
Action Text: The Council Bill (CB) was Signed.  
Notes:
- 3 Mayor 12/17/2015 returned City Clerk  
Action Text: The Council Bill (CB) was returned. to the City Clerk  
Notes:
- 3 City Clerk 12/17/2015 attested by City Clerk  
Action Text: The Ordinance (Ord) was attested by City Clerk.  
Notes:
-

**CITY OF SEATTLE**  
**ORDINANCE** 124966  
**COUNCIL BILL** 118588

AN ORDINANCE relating to Seattle Public Utilities; authorizing the Director of Seattle Public Utilities to enter into a Joint Project Agreement with King County to design, construct, operate, and maintain the Ship Canal Water Quality Project, in partial fulfillment of the objectives of the Consent Decree authorized under Ordinances 123908 and 124129, and the "Plan to Protect Seattle's Waterways" authorized under Ordinance 124766, to reduce Combined Sewer Overflows; and ratifying and confirming certain prior acts.

WHEREAS, the City of Seattle and King County own and operate their own combined sewer systems, portions of which are interconnected and that in some locations are at risk of overflows during heavy rain events; and

WHEREAS, the combined sewer system overflows (CSOs) are regulated under the federal Clean Water Act and governed by the State of Washington under the terms of National Pollutant Discharge Elimination System (NPDES) permits separately issued to both the City of Seattle and King County; and

WHEREAS, the terms of the NPDES permits require the City of Seattle and King County to limit untreated overflows at each CSO outfall to an average of no more than one per year; and

WHEREAS, under a Consent Decree with the U.S. Environmental Protection Agency (EPA), the Washington Department of Ecology (Ecology), and the U.S. Department of Justice (DOJ) authorized by Ordinance 123908 and amended by Ordinance 124129, the City of Seattle must implement control measures to limit untreated combined sewer overflows in accordance with State of Washington requirements by December 31, 2025; and

1 WHEREAS, under a separate Consent Decree with EPA, Ecology, and DOJ, King County must  
2 control its combined sewer overflows, including its 3<sup>rd</sup> Ave. W outfall by December 2023  
3 and 11<sup>th</sup> Ave. NW outfall by 2030; and

4 WHEREAS, the Consent Decrees of both the City and King County contain a "Joint Operations  
5 and System Optimization Plan between the City of Seattle and King County," ("Joint  
6 Plan"), which provides that CSO facilities be identified that may be beneficial to jointly  
7 operate and/or monitor; and

8 WHEREAS, the City of Seattle and King County have identified and evaluated a joint Ship  
9 Canal Water Quality Project to control combined sewer overflows from their respective  
10 outfalls 147, 174, 150, 151, 152, and 3<sup>rd</sup> Ave. W (008), and 11<sup>th</sup> Ave. NW (004); and

11 WHEREAS, the City of Seattle is required to construct a Shared West Ship Canal Tunnel (aka  
12 Ship Canal Water Quality Project) for outfalls 147, 174, 150, 151, and 152 by its EPA  
13 and Ecology approved "Plan to Protect Seattle's Waterways" (Long-Term Control Plan  
14 and Integrated Plan); and

15 WHEREAS, King County has a 2012 CSO Long Term Control Plan Amendment approved by  
16 state and federal regulators identifying independent options to control overflows at its 3<sup>rd</sup>  
17 Ave. W Outfall (008) and 11<sup>th</sup> Ave. NW outfall (004), and King County is seeking  
18 approval from EPA and Ecology to a modified schedule for completion of its 3<sup>rd</sup> Ave W  
19 CSO control project and a change in the project description for the 11<sup>th</sup> Ave NW CSO  
20 project, consistent with the joint Ship Canal Water Quality Project; and

21 WHEREAS, Seattle Public Utilities will be the lead agency and will construct, own, and operate  
22 the completed and commissioned Ship Canal Water Quality Project, and will work with

King County in accordance with the Joint Plan in the design, construction,  
commissioning, operation and maintenance of the project facilities; and

WHEREAS, Seattle Public Utilities and King County have agreed to share the costs of the Ship  
Canal Water Quality Project, including but not limited to costs for project planning,  
design, land acquisition, permitting, construction, mitigation required by SEPA,  
commissioning, operation, maintenance, repairs, replacements, alterations,  
improvements, monitoring and modeling, and one percent for the arts, with Seattle Public  
Utilities paying 65 percent and King County paying 35 percent of the costs of the joint  
Ship Canal Water Quality Project, subject to change if the Parties mutually agree to  
modify the Project; NOW, THEREFORE,

**BE IT ORDAINED BY THE CITY OF SEATTLE AS FOLLOWS:**

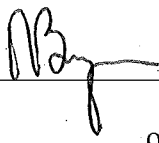
Section 1. The Director of Seattle Public Utilities is authorized to execute a Joint Project  
Agreement with the King County Department of Natural Resources and Parks, substantially in  
the form as attached hereto as Attachments 1 and 2, to design, construct, operate, and maintain  
the Joint Ship Canal Water Quality Project, in partial fulfillment of the objectives of the City's  
Consent Decree and Plan to Protect Seattle's Waterways, to reduce Combined Sewer Overflows.

Section 2. The Director of Seattle Public Utilities will prepare and submit to the Seattle  
Public Utilities and Neighborhoods Committee, or the appropriate Council committee, a semi-  
annual written progress report focusing on the Ship Canal Water Quality Project. The written  
report will include a narrative identifying work completed to date, upcoming project milestones,  
a project schedule assessment, and a cost update for the City's and King County's portions of the  
project.

Section 3. Any act consistent with the authority of this ordinance taken after its passage and prior to its effective date is ratified and confirmed.

Section 4. This ordinance shall take effect and be in force 30 days after its approval by the Mayor, but if not approved and returned by the Mayor within ten days after presentation, it shall take effect as provided by Seattle Municipal Code Section 1.04.020.

Passed by the City Council the 14<sup>th</sup> day of Dec., 2015, and signed by me in open session in authentication of its passage this 14<sup>th</sup> day of Dec., 2015.

  
\_\_\_\_\_  
President \_\_\_\_\_ of the City Council

Approved by me this 17<sup>th</sup> day of December, 2015.

  
\_\_\_\_\_  
Edward B. Murray, Mayor

Filed by me this 17<sup>th</sup> day of December, 2015.

  
\_\_\_\_\_  
Monica Martinez Simmons, City Clerk

(Seal)

1 Attachments:

2 Attachment 1 – City of Seattle and King County Ship Canal Water Quality Joint Project  
3 Agreement

4 Exhibit A – SPU/DNRP Ship Canal Water Quality Project – Project Description

5 Exhibit B – SPU/DNRP Ship Canal Water Quality Project – Change Management

6 Exhibit C – SPU/DNRP Ship Canal Water Quality Project – One Team Decision Making  
7 Guidelines

8 Exhibit D – SPU/DNRP Ship Canal Water Quality Project – List of Potential Causes for  
9 Capital Cost Increases

10 Exhibit E – DNRP-WTD Invoice Format

11 Attachment 2 – SCWQP (Ship Canal Water Quality Project) System Illustration  
12



King County

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## **Exhibit A**

# **SPU/DNRP Ship Canal Water Quality Project**

## **Project Description**

**October 28, 2015**

### **Project Purpose**

The purpose of The Ship Canal Water Quality (WQ) Project is to provide offline storage of combined sewer overflows (CSOs) for five Seattle Public Utilities (SPU) and two King County Department of Natural Resources and Parks (DNRP) CSO basins to meet regulatory control standards which limits CSOs to an average of no more than one untreated discharge per year per outfall on a twenty year moving average. The specific basins, and CSO to be controlled by the project, include the SPU Ballard CSO basins (Outfalls 150, 151, and 152), Fremont CSO basin (Outfall 174) and Wallingford CSO basins (Outfall 147), DNRP 3rd Avenue West Regulator (DSN008), and DNRP 11th Avenue NW Regulator (DSN004). The total minimum control volume to be achieved for these SPU and DNRP CSO basins combined is 15.24 million gallons (MG). The facility must also meet water quality standards and protection of designated uses, and must be verified by post construction monitoring (frequency of overflow and sediment sampling).

### **Project Scope**

The Ship Canal WQ Project will provide offline storage of combined wastewater in a deep storage tunnel constructed between the Ballard and Wallingford CSO areas, on the north side of the Ship Canal. The Project will control the Ballard CSO basins (Outfalls 150, 151 and 152), Fremont (Outfall 174) and Wallingford CSO basins (Outfall 147), DNRP 3rd Avenue West Regulator (DSN008), and 11th Avenue NW Regulator (DSN004). Figure 1 provides a plan view of the Ship Canal WQ Project location and components.

The main components of The Ship Canal WQ Project include the storage tunnel and appurtenances, conveyance facilities to convey SPU and DNRP CSO flows into the tunnel, and a pump station and force main to drain flows from the tunnel.

The storage tunnel and appurtenances will include:

- A minimum 15.24-MG offline storage tunnel with a nominal 14-foot inside diameter and approximately 14,000 feet long or as defined during the design phase of the project.
  - The stored combined sewage in the storage tunnel will flow from the Wallingford CSO Outfalls westward to an effluent pump station located near the Ballard CSO Outfalls 150 and 151.
  - The tunnel route is planned to be generally in street right-of-way along the north side of the Ship Canal.
- Seven diversion structures for diverting influent CSO flow away from existing CSO outfalls to the tunnel.

- Four drop structures to convey influent CSO flow into the storage tunnel.
- All four drop structures will have odor control.
- A pump station will be located at the West tunnel Portal as defined during the design phase of the project, with a minimum peak capacity of 32 MGD to empty the storage tunnel in approximately 12 hours.

Conveyance facilities will include:

- Gravity sewer line to convey flows from SPU's diversion structure at Fremont Outfall 174 to the tunnel drop shaft (approximately 100 lineal feet (lf) of 36-inch diameter pipe);
- Gravity sewer line to convey flows from DNRPs diversion structure at 3<sup>rd</sup> Ave. W ( under the Ship Canal) to the tunnel drop shaft (approximately 800 lf of 60 and 48-inch diameter pipe);
- Gravity sewer line to convey flows from DNRPs diversion structure at 11<sup>th</sup> Ave. NW to the tunnel drop shaft (approximately 100 lf of 72 and 60-inch diameter pipe);
- Force main to convey flows from the tunnel pump station to DNRPs existing Ballard Siphon wet-weather barrel forebay (approximately 1900 lf of 24-inch diameter pipe).

All conveyance sizing and quantities are estimates based on conceptual planning to date. Actual diameters and lengths of conveyance facilities will be determined during the design phase of the project.

Gravity sewer lines to convey flows from SPU's diversion structures at Ballard outfalls 150, 151 and 152, and Wallingford outfall 147 to the tunnel drop shafts have been excluded from The Ship Canal WQ Project in accordance with the Joint King County/Seattle CSO Initiative Work Plan Item 4: Cost-Sharing Method for Joint Capital Projects.

The control strategy will limit the inflow to the tunnel from each outfall to each outfall's control volume per event. The minimum control volume for each outfall is:

#### SPU Outfalls

- Fremont (Outfall 174): 1.06 MG
- Wallingford (Outfall 147): 2.15 MG
- Ballard (Outfall 152): 5.38 MG
- Ballard (Outfall 150/151): 0.62 MG

#### DNRP Outfalls

- 3rd Avenue West (DSN008): 4.18 MG
- 11th Avenue Northwest (DSN004): 1.85 MG

Each agency has calculated the control volumes required to meet their independent needs. Although calculation methods vary between the agencies, SPU and DNRP agree that these are the minimum volumes to be controlled to and provided for by The Ship Canal WQ Project.

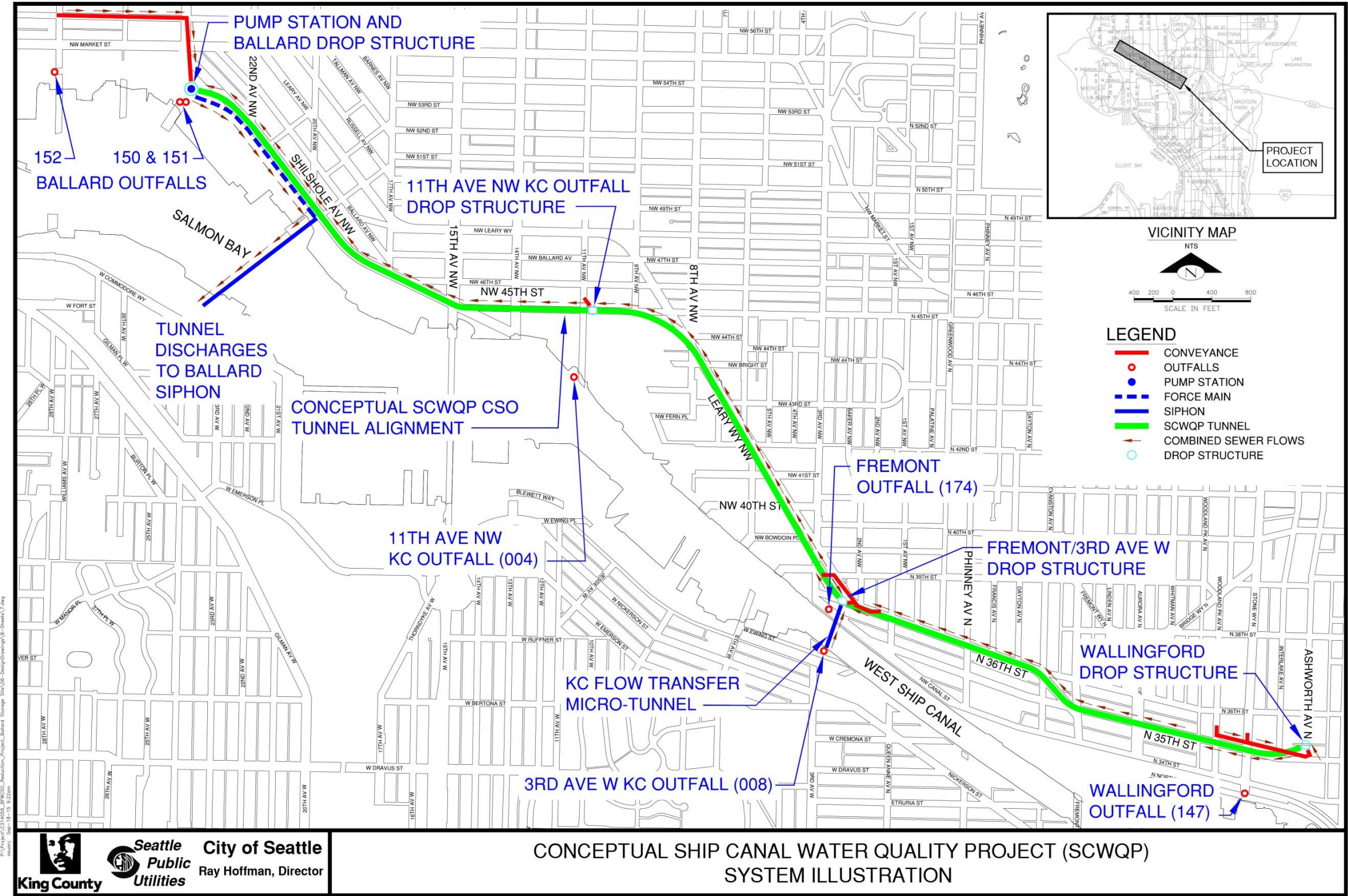
SPU will own and operate the tunnel components listed below, and all new structures and pipes appended to each existing DNRP outfall pipe. Ownership of outfall pipes will remain unchanged. The Ship Canal WQ Project tunnel components include:

- The tunnel in its entirety, including the East and West Portals;
- The pump station and force main;
- All diversion structures, including DNRP's 3rd Avenue West and 11th Ave NW structures, SPU diversion structures for Ballard outfalls 150,151 and 152, Fremont outfall 174 and Wallingford outfall 147;
- All of the conveyance system associated with SPU's outfalls and downstream of the 3rd Avenue West and 11th Ave NW diversion structures;
- All control gates and associated structures and control systems;
- All odor control systems;
- All appurtenances associated with the above; and
- All real property associated with the Project

Any changes to this project scope need to be negotiated and agreed to by both SPU and DNRP through the Change Management process, attached to the Joint Project Agreement as Exhibit B.



**Figure 1: Ship Canal WQ Project Plan**





**King County**

## Project Capital Cost Estimate

Total project capital costs for the Ship Canal Water Quality (WQ) Project are estimated at \$423.4 million. This estimate is from SPU's Final Project Definition Report Volume 1, December 2014, with sales tax and escalation adjustments. The estimate includes exclusions from cost sharing described above and is escalated to the mid-point of construction assuming 2% escalation. The estimate is AACE Class 4, which has level of accuracy of minus 20%, plus 30% (\$338.7 to \$550.4 million cost range).

## Project Schedule Summary

The compliance schedule for the Ship Canal WQ Project (per the City's approved Plan to Protect Seattle's Waterways) is summarized below. A detailed project schedule shall be included in the Project Management Plan.

| Task                                                                   | Compliance Date |
|------------------------------------------------------------------------|-----------------|
| Submit Draft Engineering Report (Facility Plan) for review and comment | 3/31/2017       |
| Submit Final Engineering Report (Facility Plan) for approval           | 12/31/2017      |
| Submit Draft Plans and Specifications for review                       | 3/31/2020       |
| Submit Final Plans and Specifications for approval                     | 12/31/2020      |
| Construction Start (notice to proceed)                                 | 7/1/2021        |
| Construction Completion                                                | 12/31/2025      |
| Achieve Controlled Status                                              | 12/31/2026      |

## Signatures

|                               |                                                                                            |
|-------------------------------|--------------------------------------------------------------------------------------------|
| <i>Madeline Goddard, P.E.</i> | <i>Deputy Director, Drainage and Wastewater Line of Business, Seattle Public Utilities</i> |
|                               | Date:                                                                                      |

|                         |                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------|
| <i>Henry Chen, P.E.</i> | <i>Deputy Director, Project Delivery and Engineering Branch, Seattle Public Utilities</i> |
|                         | Date:                                                                                     |

|                         |                                                            |
|-------------------------|------------------------------------------------------------|
| <i>Pam Elardo, P.E.</i> | <i>Director, King County Wastewater Treatment Division</i> |
|                         | Date:                                                      |



King County

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## **Exhibit B**

# **SPU/DNRP Ship Canal Water Quality Project**

## **CHANGE MANAGEMENT**

### **October 28, 2015**

#### **Background**

SPU and DNRP are committed to work together to implement the Joint Ship Canal Water Quality Project (Project), to control both agencies' CSOs into the Ship Canal. The Project is under a Consent Decree mandated schedule (both agencies have separate consent decree schedules that this project must comply with,) and like many large scale municipal projects, is expected to be technically challenging and complex. The Project must meet all required milestones as it progresses through design and construction. Potential cost increases are to be managed and/or avoided and require management oversight, review and guidance through project design and construction.

To address the potential risks to the project, a Change Management process with a Project Review and Change Management Committee (PRCMC) is established through this document and the Joint Project Agreement (JPA) to provide senior level management oversight, support, and direction to the project. The PRCMC will focus on project issues that can affect project scope, schedule and/or budget, and serve as the forum to discuss major issues and concerns as they arise and make recommendations to keep the project on schedule and within budget. The PRCMC will provide support and guidance throughout the project design, construction phases. Decisions will be made by consensus of the Committee. If consensus cannot be reached, the decision will be elevated to follow Paragraph 12 of the One Team Decision Making Guidelines (Exhibit C).

In addition, the PRCMC will provide support and guidance throughout the project commissioning, operations and maintenance. Changes to the final Operations and Maintenance Plan are to be managed and require management oversight, review and guidance. Decisions will be made by consensus of the Committee. If consensus cannot be reached, the decision will be elevated to follow Paragraph 12 of the One Team Decision Making Guidelines (Exhibit C).

If the Parties agree to change the project scope beyond the Project Description, then the joint project cost shares and the costs to which those shares apply will be revised. The cost shares will be recalculated in accordance with Technical Memorandum No. 4 to include additional avoided independent project, if applicable. These modified cost shares will then be used to assign costs to the Parties for both the larger Ship Canal Project and any consequently modified CSO control project in other basins.

#### **Project Review and Change Management Committee Objectives and Membership**

SPU is responsible for the implementation of PRCMC decisions for the Project. However both agencies' compliance with their approved mandated Consent Decrees, NPDES Permits and Post

Construction Monitoring Plans are dependent in part on the Project's success in controlling CSOs. SPU will use the PRCMC to leverage the experiences, expertise, and insights of the committee members to effectively progress the Project. The PRCMC will be responsible for the following:

- Understand the commitments inherent in the Project Description and the Joint Project Agreement. Provide the bigger picture and look-ahead view;
- Reach agreement on what the required goals of the Project are versus the desired goals,
- Maintain an awareness of risks through regular project briefings;
- Engage in high level problem solving to ensure effective management of project risks,
- Monitor and conduct formal reviews of project scope, costs, schedules, refinements and adjustments during project design through construction;
- Meet every other month or more frequently as determined by the PRCMC or requested by the Project team to provide management-level oversight by both SPU and DNRP,
- Review status reports and monitor project progress;
- Review and validate prior to SPU's formal Stage Gates 2 (preferred option, funding for design, placeholder for total cost projection and O&M), Stage Gate 3 (final design plans, contract specifications and engineer's estimate of construction costs) and Stage Gate 5 (project close out) to ensure approved project objectives, as documented in the Project Description, are met or that new/modified objectives are justified and documented;
- Make decisions and provide direction to the Project team on course of action for key project elements;
- Make decisions on contract changes as defined in Table B-1, Table B-2 and Table B-3, attached;
- Authorize Project Description and budget changes.

PRCMC meetings will be structured to fully inform the committee members and provide up to date status reports on the following:

- Cost and schedule;
- Understanding of the risks identified for the Project, and the cost and schedule implications of the risks;
- Permitting challenges that affect project scope, schedule or budget;
- Alternatives analysis, and approach for on-going success of the project;
- Analysis of consultant and construction contract changes essential for project delivery as defined in the Project Description, Exhibit A; and
- The plan for stakeholder involvement, stakeholder input and expectations, and proposed strategy to respond to stakeholder expectations.

## Meetings

Meetings will be scheduled by SPU as the lead agency. The SPU Project Delivery and Engineering Deputy Director will chair the PRCMC. The WTD Division Director will attend the meetings and the SPU Project Administrator will staff the meetings. Meeting agendas will be provided at least two days in advance of all meetings. Minutes will be taken and retained on an accessible site for all committee members using either dedicated project or SharePoint. An electronic "Direction and Action Log" will be developed, maintained and retained on an accessible site for reference by the project team and the PRCMC members.

## **PRCMC Membership**

The PRCMC shall be composed of SPU and DNRP management with specific areas of expertise and experience considering the nature of the project and its potential challenges. The PRCMC Chair ensures the board fulfills its role. The Project Administrator organizes, schedules and staffs the meetings, develops agendas, coordinates with PRCMC Chair and DNRP's Project Representative on agenda items, materials and presentations as they are needed for the PRCMC meetings; records and maintains records for the PRCMC proceedings. Committee members will bring their experience and expertise to bear on the review, analysis and decisions made and directions given by the PRCMC.

The PRCMC members include the following:

- DNRP WTD Director
- DNRP WTD Project Planning & Delivery Section Manager
- DNRP WTD Engineering Unit Manager
- DNRP WTD Construction Unit Manager
- DNRP WTD Plant Operations Manager
- DNRP WTD Assistant Plant Manager
- SPU DWW LOB Deputy Director
- SPU Project Delivery and Engineering Branch Deputy Director (Chair)
- SPU Construction Management Director
- SPU Engineering Director
- SPU Systems Operation Assessment and Monitoring Division Director
- SPU Utility Operations and Maintenance Division Director
- SPU Systems Operation Planning and Analysis Manager
- SPU Utility Operations Manager

Participation by the members is dependent upon the phase of the Project and the PRCMC agenda. Project team subject matter experts will be requested to attend the meetings on an as-needed basis.

**Table B-1. Required Approvals for Consultant Contract Amendments**

| Type of Change                                                                                                                 | Required Approval                                                                  | Dollar Threshold                                                        | Aggregate Overall PROJECT Schedule Extension Threshold**               | Reporting                                                                                                             | Notes                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Amendment required to deliver per JPA project description (Scope, Schedule and Budget) and is within consultant contract scope | SPU PM<br>SPU Division<br>Director                                                 | (Less than \$250K)<br>Per SPU change management policies and procedures | Up to 2 months impact on the required Project delivery date in the JPA | Reporting to PRCMC                                                                                                    | Changes essential for project delivery as defined in the baseline project description |
|                                                                                                                                | Approval by both PDEB and LOB Directors and concurrence of WTD PPD Section Manager | For changes exceeding \$250K but under \$500K                           | Up to 4 months impact on the required Project delivery date in the JPA | Reporting to DNRP on any and all contract changes (cost or schedule) on the monthly basis and at 30/60/90 submittals. |                                                                                       |
|                                                                                                                                | Approval by both SPU PDEB, LOB and concurrence of WTD Deputy Directors             | For changes exceeding \$500K but under \$1M                             | Up to 6 months impact on the required Project delivery date in the JPA |                                                                                                                       |                                                                                       |

|                                                                     |                                                                                 |                                                                                         |                                                                               |  |                                                                |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--|----------------------------------------------------------------|
| Any change to the project description and Amendments exceeding \$1M | Approval by SPU Director and concurrence of DNRP Director or Delegated to PRCMC | All changes that are outside the JPA project description.<br><br>All changes above \$1M | Greater than 6 months impact on the required Project delivery date in the JPA |  | Financial participation will be per the cost sharing agreement |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--|----------------------------------------------------------------|



**King County**

**Table B-2**

**Required Review and Approval Responsibility for  
Construction Contract Changes Per Individual Contract GREATER THAN \$10M**

| <b>Construction Contract Change Threshold</b>                                                                            | <b>Approval Level</b>                                                      |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Change requiring usage of budgeted project contingency reserve up to \$500,000                                           | Follows SPU project approval authority matrix                              |
| Change requiring usage of budgeted project contingency reserve over \$500,000                                            | Follows SPU project approval authority matrix and WTD PPD Section Manager  |
| Changes requiring usage of budgeted management reserve and aggregate changes of <\$500,000                               | SPU Project Manager/ Construction Manager/Director                         |
| Changes requiring usage of budgeted management reserve and between \$500K - \$1M                                         | SPU Project Delivery and Engineering Director with WTD PPD Section Manager |
| Changes requiring usage of budgeted management reserve and between \$1M - \$2M or >10% and <15% of contract award amount | Project Review and Change Management Committee (PRCMC)                     |
| Changes requiring usage of budgeted management reserves > \$2M or >15% of contract award amount                          | SPU and DNRP Division Level Directors                                      |
| Changes desired by stakeholders but not included in JPA project description < \$2 M                                      | Project Review and Change Management Committee (PRCMC)                     |
| Changes desired by stakeholders but not included in JPA project description > \$2 M                                      | SPU and DNRP Department Level Directors                                    |



**Table B-3**  
**Required Review and Approval Responsibility for**  
**Construction Contract Changes Per Individual Contract LESS THAN \$10M**

| <b>Construction Contract Change Threshold</b>                                                                              | <b>Approval Level</b>                                                      |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Change requiring usage of budgeted project contingency reserve up to \$250,000                                             | Follows SPU project approval authority matrix                              |
| Change requiring usage of budgeted project contingency reserve over \$250,000                                              | Follows SPU project approval authority matrix and WTD PPD Section Manager  |
| Changes requiring usage of budgeted management reserve and aggregate changes of <\$250,000                                 | SPU Project Manager/ Construction Manager/Director                         |
| Changes requiring usage of budgeted management reserve and between \$250K - \$500K                                         | SPU Project Delivery and Engineering Director with WTD PPD Section Manager |
| Changes requiring usage of budgeted management reserve and between \$500K - \$1M or >10% and <15% of contract award amount | Project Review and Change Management Committee (PRCMC)                     |
| Changes requiring usage of budgeted management reserves > \$1M or >15% of contract award amount                            | SPU and DNRP Division Level Directors                                      |
| Changes desired by stakeholders but not included in JPA project description < \$1 M                                        | Project Review and Change Management Committee (PRCMC)                     |
| Changes desired by stakeholders but not included in JPA project description > \$1 M                                        | SPU and DNRP Department Level Directors                                    |

- **Project Contingency Reserves:** The amount of funds allocated to the project to cover identified risk events identified in the risk register that occur on the project, excluding changes to project scope.
- **Project Management Reserves:** The amount of funds allocated to the project to cover unidentified and unquantifiable risk events that occur on the project.
- **Project Reserve:** Sum of Project Contingency Reserves and Project Management Reserves. Project Reserves are part of the cost estimate and approved project budget.
- **Project will have major milestones:** Submission of Draft Facility Plan for review, Submission of Final Facility Plan for Approval, Submission of Draft Plans and Specifications for Review (90%), Submission of Final Plans and Specification for Approval (100%), Construction start (Notice to Proceed) and Construction Completion are SPU's Consent Decree/LTCP milestone requirements. Any delay to any of the milestones is subject to the Change Management process.

The project reserve threshold levels may be revised upon mutual written agreement of the Parties, executed by the Department Directors or their designees.



King County

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## **Exhibit C**

### **SPU/DNRP Ship Canal Water Quality Project**

### **One Team Decision Making Guidelines**

### **October 28, 2015**

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. The Ship Canal WQ Project Team is empowered and encouraged to make relevant decisions to carry out projects in a way that is efficient, adds value, and maximizes the prospects of a successful project. However, there are boundaries to the Team's authority. The Team is responsible for understanding project assignment, including its purpose, scope, schedule and budget; and for seeking timely approval by governance decision-makers for changes that exceed authorized levels.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 2. At each stage of the Project the active members of the Team at the time, should be solicited for their point of view. It is the responsibility of the Team lead and other members of the Team to listen to the other's view and consider it in the context of each decision being made and with the ultimate goal of achieving the best outcome for the Project, SPU and DNRP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3. A deliberate transition meeting should occur whenever the Lead for the Project changes from planning to design to construction to commissioning to operations and maintenance to help ensure that the members of the Project Review and Change Management Committee understand the issues and risks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 4. If a particular member has an opinion about something that strictly resides in their area of expertise or concern and does not significantly affect the interests of the other members, <u>and</u> it is not inconsistent with asset management guidelines or standards, the Team should give some amount of deference to that particular member on that topic. For example, if the operator has a preference for equipment that does not affect NPV, schedule, project functionality, environmental impact, department standards, or community expectations, then they would normally be the one to make that decision. Another example might be Project Delivery and Engineering Branch (PDEB) deciding between DBB and GCCM project delivery methods. However, if a Team member wants to pursue an option for their personal preference, but the option would affect the NPV or impair the functionality or operability of the Project, they should not normally be deferred to. |
| 5. While each Team member is expected to pay particular attention to the interests that they have selected to represent in the process, they should at the same time temper that by also considering what is best from an overall project or customers' interest. It is expected that any Team member should speak up and raise concerns within the Team about proposed project decisions or changes that, in the view of that Team member, may negatively affect scope, schedule or budget, or potentially undermine project success.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 6. Previous decisions should not be revisited unless there is compelling new information. A modification of a Team's membership is usually not a sufficient reason to revisit a previous decision. New members to the Team should be brought up to speed by the current Team lead (or someone designated by the lead) at the stage they begin engaging with the Project Team.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 7. If choices can be easily and clearly analyzed by asset management techniques, then these should be used to make a decision.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 8. The Team should work hard and creatively to openly discuss and propose alternatives in order to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

find the best solution or reach the best decision that can achieve as many project objectives as possible. This is an obligation of all Team members, but especially that of the current lead which, at the particular phase, is most responsible for keeping the Project and Team moving forward.

9. The Team should strive for general agreement and clear commitment among Team members when making decisions. That is to say that each of the Team's members should at least be able to live with the decision that is being proposed, even if it is not their preferred outcome. Silence is your concurrence. It is also worth considering including other mitigating aspects of a decision that can move Team members from the most grudging acceptance to more enthusiastic support.

10. Notes should always be taken and decisions will be documented in a Decision Log.

11. All Team members are responsible for supporting Team decisions in word and action.

12. If general agreement among members is not possible, then the Lead is responsible for making a final decision (including any compromise aspect). This action will be the direction of the Team, subject to #13, below.

13. If a member cannot live with the direction of the Team; the following "appeal" process should be used:

- The member should notify the Team and/or Team leader (Project Administrator) of their lack of agreement/support and will seek further guidance with his/her division management.
- The member should promptly talk to the following First Level Decision Makers:

| Project Phase              | SPU                                              | DNRP                          |
|----------------------------|--------------------------------------------------|-------------------------------|
| Planning or Design         | Engineering Director                             | WTD Engineering Unit Manager  |
| Construction               | Construction Management Director                 | WTD Construction Unit Manager |
| Commissioning              | Systems Operation, and Planning Analysis Manager | WTD Assistant Plant Manager   |
| Operations and Maintenance | Utility Operations Manager                       | WTD Assistant Plant Manager   |

Team members will present issues of concern in order of precedence, to the First Level Decision Makers to determine whether or not to take the dispute forward with their counterpart for resolution.

- If First Level Decision Makers choose not to pursue the issues of concern, then this is the end of the "appeal" and the Team direction stands;
  - If First Level Decision Makers choose to address the issues of concern with their counterpart, and agreement is made, their decision is final; or
  - If First Level Decision Makers choose to address the issues of concern with their counterpart, and no decision is made, then the issue must be promptly elevated to the Second Level Decision Makers.
- Elevate the issues of concern to the following Second Level Decision Makers:

| Project Phase                    | SPU                                                             | DNRP                                              |
|----------------------------------|-----------------------------------------------------------------|---------------------------------------------------|
| Planning, Design or Construction | Project Delivery and Engineering Branch Deputy Director         | WTD Project Planning and Delivery Section Manager |
| Commissioning                    | Systems Assessment Operations and Maintenance Division Director | WTD Plant Operations Manager                      |
| Operations and Maintenance       | Utility Operations and Maintenance Division Director            | WTD Plant Operations Manager                      |

- If agreement is made by the Second Level Decision Makers, their decision is final;
- If no decision is made, then the issue must be promptly elevated to the SPU DWW LOB Deputy Director and WTD Director; their decision is final.



King County

## Exhibit D

# SPU/DNRP Ship Canal Water Quality Project List of Potential Causes for Capital Cost Increases

October 28, 2015

The following table provides guidance regarding agency responsibility for costs that exceed the total Project budget as defined in the Joint Project Agreement and subsequent agreed upon revisions to the total Project cost.

| Potential Causes for Capital Cost Increases |                                                                                                                                                                                                                                  | Financially Responsible Agency             |        |                |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------|----------------|
|                                             |                                                                                                                                                                                                                                  | Lead Agency                                | Shared | Partner Agency |
| 1.                                          | Project delays caused by delays in obtaining land use and development permits.                                                                                                                                                   | X                                          |        |                |
| 2.                                          | Project delays caused by delays in obtaining environmental permits.                                                                                                                                                              | To be jointly determined by both Agencies. |        |                |
| 3.                                          | Unanticipated permit conditions once permits are issued.                                                                                                                                                                         |                                            | X      |                |
| 4.                                          | Higher than estimated street-use fees by the City.                                                                                                                                                                               |                                            | X      |                |
| 5.                                          | Unanticipated environmental mitigation costs.                                                                                                                                                                                    |                                            | X      |                |
| 6.                                          | Unanticipated changes to design and construction policies and codes.<br>(e.g. changes to green building or sustainability requirements, or equity and social justice policies)<br>(Shared, unless applicable to only one agency) |                                            | X      |                |
| 7.                                          | Project delays caused by delays in acquiring needed sites.                                                                                                                                                                       | X                                          |        |                |
| 8.                                          | Project cost increases due to higher than estimated site acquisition costs.                                                                                                                                                      |                                            | X      |                |
| 9.                                          | Unanticipated demands by local utility managers/owners.                                                                                                                                                                          |                                            | X      |                |
| 10.                                         | Unanticipated demands by local property owners.                                                                                                                                                                                  |                                            | X      |                |
| 11.                                         | Unknown existing utility conflicts.                                                                                                                                                                                              |                                            | X      |                |
| 12.                                         | Discovery of contaminated groundwater or soils on the                                                                                                                                                                            |                                            | X      |                |

| Potential Causes for Capital Cost Increases |                                                                                                                                                                                                                                                                                                               | Financially Responsible Agency                                                                                                                                                                                                            |        |                |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------|
|                                             |                                                                                                                                                                                                                                                                                                               | Lead Agency                                                                                                                                                                                                                               | Shared | Partner Agency |
|                                             | construction site and resultant investigation and clean-up.                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                           |        |                |
| 13.                                         | Discovery and removal of hazardous waste.                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                           | X      |                |
| 14.                                         | Unanticipated costs as a result of archaeological discoveries.                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                           | X      |                |
| 15.                                         | Unanticipated geotechnical considerations (seismic, boulders, groundwater, unstable soils, liquefaction, etc.) Depends on professional services compliance with industry defined 'standard of care' / condition on appropriate construction management within industry standard/not within industry standard. | To be jointly determined by both Agencies.                                                                                                                                                                                                |        |                |
| 16.                                         | Higher than anticipated requirements for storm water or dewatering treatment and disposal during construction                                                                                                                                                                                                 |                                                                                                                                                                                                                                           | X      |                |
| 17.                                         | Chosen site requires extension of conveyance pipelines and outfall over assumed planning level estimates. Based on percentage.                                                                                                                                                                                |                                                                                                                                                                                                                                           | X      |                |
| 18.                                         | Chosen site or alignment results in unanticipated costs for demolition of existing structures, property acquisition and relocation.                                                                                                                                                                           |                                                                                                                                                                                                                                           | X      |                |
| 19.                                         | Changed market conditions for labor, materials and equipment and other factors of construction such as fuel cost.                                                                                                                                                                                             |                                                                                                                                                                                                                                           | X      |                |
| 20.                                         | Changed bidding climate.                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                           | X      |                |
| 21.                                         | Project delays and increased costs caused by bid protests.                                                                                                                                                                                                                                                    | To be jointly determined by both Agencies. (Example: If protest is due to lead agency not complying with all procurement requirements, then lead agency is responsible. If protest is found to be frivolous then agencies may share cost. |        |                |
| 22.                                         | Project delays associated with material and equipment unavailability (not including sole sourced materials and equipment).                                                                                                                                                                                    |                                                                                                                                                                                                                                           | X      |                |
| 23.                                         | Higher than estimated material and equipment costs due to inflation.                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                           | X      |                |

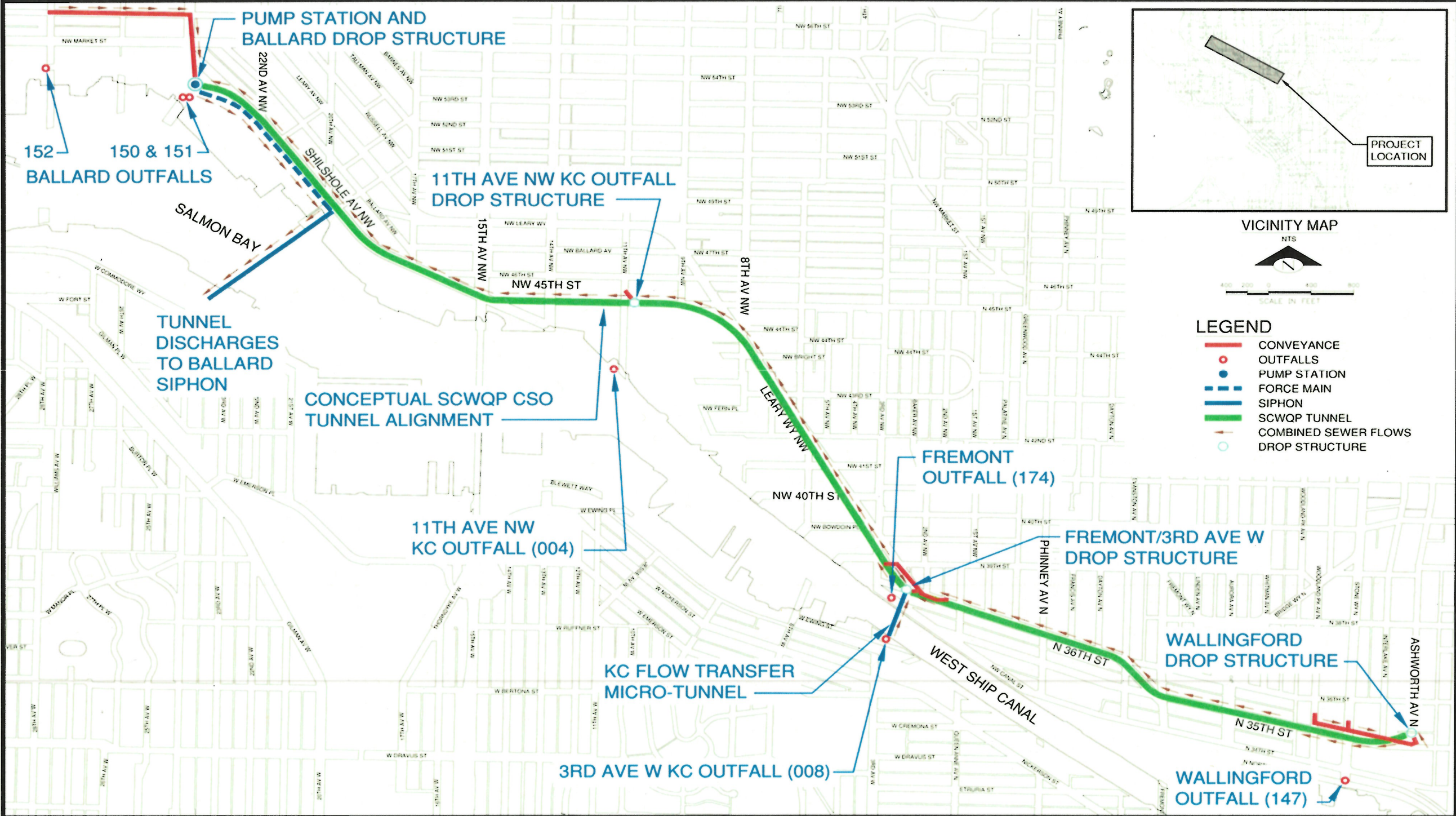
| Potential Causes for Capital Cost Increases |                                                                                                                                                                                                   | Financially Responsible Agency                                                                                 |        |                |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------|----------------|
|                                             |                                                                                                                                                                                                   | Lead Agency                                                                                                    | Shared | Partner Agency |
| 24.                                         | Project cost increases caused by delays in obtaining <b>lead agency</b> sole source materials and equipment.                                                                                      | X                                                                                                              |        |                |
| 25.                                         | Project cost increases caused by delays in obtaining <b>partner agency</b> sole source materials and equipment.                                                                                   |                                                                                                                |        | X              |
| 26.                                         | Project cost increases caused by <b>partner agency</b> delay in providing concurrence on use of project contingency reserve per Table B-2 and Table B-3 of Exhibit B.                             |                                                                                                                |        | X              |
| 27.                                         | Unanticipated sales tax increases.                                                                                                                                                                |                                                                                                                | X      |                |
| 28.                                         | Overrun due to changes that resulted from reliance on data provided by either jurisdiction proved to be inaccurate.                                                                               | To be jointly determined by both Agencies based on who's Agency provided the information found to be in error. |        |                |
| 29.                                         | Compressed design schedule requires additional internal and consultant staff after baseline schedule and budget are set.                                                                          | To be jointly determined by both Agencies.                                                                     |        |                |
| 30.                                         | Increased oversight of high profile projects requires additional staff time to manage. Based on who requests, if only one agency requires then not shared (Example: Added third party oversight). | To be jointly determined by both Agencies.                                                                     |        |                |
| 31.                                         | Construction claims – basis of the claim used to determine.                                                                                                                                       | To be jointly determined by both Agencies.                                                                     |        |                |
| 32.                                         | Correction of construction defects.                                                                                                                                                               |                                                                                                                | X      |                |
| 33.                                         | Correction of design errors and omissions.                                                                                                                                                        |                                                                                                                | X      |                |
| 34.                                         | Failure to achieve start-up and commissioning of project within agreed budget and time frame.                                                                                                     | To be jointly determined by both Agencies.                                                                     |        |                |
| 35.                                         | Labor issues such as strikes.                                                                                                                                                                     |                                                                                                                | X      |                |
| 36.                                         | Project delays caused by force majeure delays.                                                                                                                                                    |                                                                                                                | X      |                |
| 37.                                         | Legal costs.                                                                                                                                                                                      | To be jointly determined by both Agencies.                                                                     |        |                |

**Exhibit E**  
**DNRP-WTD Invoice Format**  
**October 28, 2015**

SPU will provide DNRP with a progress report on work completed on The Ship Canal WQ Project to-date, along with a cost report that includes costs to date for the items identified below. SPU will submit the cost report with each monthly invoice.

| <b>WTD Cost Template</b>                                                                           | <b>Costs</b> |
|----------------------------------------------------------------------------------------------------|--------------|
| <b>CONSTRUCTION</b>                                                                                |              |
| <i><b>Construction Contracting</b></i>                                                             |              |
| Mitigation Construction Contracts                                                                  |              |
| <i><b>Owner Furnished Equipment</b></i>                                                            |              |
| <i><b>Outside Agency Construction</b></i>                                                          |              |
| <i><b>Other Capital Charges</b></i>                                                                |              |
| <b>NON-CONSTRUCTION</b>                                                                            |              |
| <i><b>Engineering Services</b></i>                                                                 |              |
| <i><b>Planning &amp; Management Services</b></i>                                                   |              |
| <i><b>Permitting &amp; Other Agency Support</b></i>                                                |              |
| <i><b>Right-of-Way</b></i>                                                                         |              |
| Land Purchases/Easements                                                                           |              |
| Local Agency Mitigation                                                                            |              |
| <i><b>Misc. Service &amp; Materials</b></i>                                                        |              |
| <i><b>Internal Staff Labor (need to understand their Org Structure to identify categories)</b></i> |              |
| <i><b>Overhead (Need to understand if tracked separately)</b></i>                                  |              |
| <i><b>Other</b></i>                                                                                |              |
| Sustainability                                                                                     |              |
| Art                                                                                                |              |
| <b>PROJECT TOTAL</b>                                                                               |              |





**SUMMARY and FISCAL NOTE\***

| <b>Department:</b>       | <b>Contact Person/Phone:</b> | <b>Executive Contact/Phone:</b> |
|--------------------------|------------------------------|---------------------------------|
| Seattle Public Utilities | Ed Mirabella/4-5959          | Aaron Blumenthal/3-2656         |

*\* Note that the Summary and Fiscal Note describes the version of the bill or resolution as introduced; final legislation including amendments may not be fully described.*

**1. BILL SUMMARY**

Legislation Title: AN ORDINANCE relating to Seattle Public Utilities; authorizing the Director of Seattle Public Utilities to enter into a Joint Project Agreement with King County to design, construct, operate, and maintain the Ship Canal Water Quality Project, in partial fulfillment of the objectives of the Consent Decree authorized under Ordinances 123908 and 124129, and the “Plan to Protect Seattle’s Waterways” authorized under Ordinance 124766, to reduce combined sewer overflows; and ratifying and confirming certain prior acts.

**Summary and background of the Legislation:** This ordinance authorizes the Director of Seattle Public Utilities (SPU) to enter into a Joint Project Agreement with King County for the Ship Canal Water Quality (WQ) Project. This project will provide offline storage of Combined Sewer Overflow (CSO) flows from five SPU and two King County CSO basins to meet regulatory control standards.

Last August, SPU received U.S. Environmental Protection Agency and Washington Department of Ecology approval of the “Plan to Protect Seattle’s Waterways,” authorized by Ordinance 124766. The plan identifies the Shared West Ship Canal Tunnel Option (AKA The Ship Canal WQ Project) as the preferred option to control SPU’s Ballard, Fremont and Wallingford CSO outfalls and King County’s 3<sup>rd</sup> Avenue W. and 11<sup>th</sup> Avenue NW CSO outfalls. Construction of the project is to be completed by December 31, 2025.

The \$423 million project will provide approximately 15 million gallons of CSO storage with a 14,000 foot-long deep tunnel. The tunnel will be constructed between the Ballard and Wallingford CSO areas, on the north side of the Lake Washington Ship Canal. Cost shares for the project are calculated based on the ratio of costs of each agency’s independent CSO project costs that are avoided by selecting this joint project solution. Those avoided costs are storage facilities and portions of conveyance facilities that are not being constructed because of the joint project. However, the conveyance facilities that would have been constructed under either a joint or independent solution are excluded from the costs share and are the responsibility of the respective agency. SPU will fund a 65% cost share of the project costs, 65% of the capitalized post construction costs, and 100% of the excluded SPU costs per the table below. King County is funding the remaining 35% of project costs. The Ship Canal Water Quality Project will control City CSO basins in Ballard, Fremont, Wallingford, and King County’s 3<sup>rd</sup> Avenue W. and 11<sup>th</sup> Avenue NW CSO basins.

SPU will be the lead agency, will own the completed Ship Canal WQ Project facilities, and will be responsible for planning, design, permitting, construction, delivery, operation, maintenance,

repair, alteration, monitoring, improvement and support of the project. King County will assist SPU with review and provide its technical expertise in delivering the project.

## 2. CAPITAL IMPROVEMENT PROGRAM

       This legislation creates, funds, or amends a CIP Project.

## 3. SUMMARY OF FINANCIAL IMPLICATIONS

  x   This legislation has direct financial implications.

### 3.a. Appropriations

#### Appropriations Notes:

No additional appropriation is being sought by this legislation. SPU's share of project costs (capital and operations & maintenance) is incorporated into the current CIP spending plan, Strategic Business Plan, and rates set from 2016-2018. The Council in 2015 approved Seattle's Plan to Protect Seattle's Waterways, which includes the proposed spending for this project through 2025. The costs associated with this project are included in the City's 2016-2021 approved Capital Improvement Program. Future costs will continue to be appropriated through the budget and rate setting process.

SPU will fund 65% of the project costs and 65% of the capitalized post construction costs, and 100% of the excluded SPU costs per the table below. King County is funding the remaining 35% of project costs. The table below outlines the expected costs and their allocation between SPU and King County.

There are components of the Project that are associated with SPU's CSO control solution in the Ballard and Wallingford basins that are being constructed by SPU and that, consistent with a 2012 agreement with King County (attached Exhibit A), are to be funded in their entirety by SPU. No costs associated with these components will be borne by King County. The shared portion of the Ship Canal WQ Project, as defined herein, does not include the components excluded from cost sharing consistent with those described in CSO Initiative Work Plan Item 4 (Exhibit A attached) and the SPU purchase of parcel numbers 046700-0423 and 046700-0431 (former Yankee Grill site) in Ballard.

| Description                            | Total Cost     | KC             | KC %         | SPU            | SPU%         |
|----------------------------------------|----------------|----------------|--------------|----------------|--------------|
| Joint Ship Canal WQ Project Cost Share | \$381.8        | \$133.7        | 35.0%        | \$248.2        | 65.0%        |
| Excluded 100% SPU cost                 | \$31.4         | \$ -           | 0.0%         | \$31.40        | 100.0%       |
| Capitalized Post Construction Cost     | \$10.2         | \$3.6          | 35.0%        | \$6.6          | 65.0%        |
| <b>Total*</b>                          | <b>\$423.4</b> | <b>\$137.3</b> | <b>32.4%</b> | <b>\$286.2</b> | <b>67.6%</b> |

\*Note: Total costs based on 2014 dollars escalated to the mid-point of construction assuming 2% escalation. Numbers may not total due to rounding.

The budget estimate for completing SPU's Council-approved Plan to Protect Seattle's Waterways is \$600 million. Supporting appropriations will be proposed to Council for consideration during the development of future CIPs.

#### 4. OTHER IMPLICATIONS

**a) Does the legislation have indirect or long-term financial impacts to the City of Seattle that are not reflected in the above?**

This legislation has long-term financial implications. It is an important step for SPU to meet Consent Decree and regulatory requirements. In addition, wastewater flows that would otherwise not have been contained by this project will require treatment by King County. Treatment costs for this additional amount of wastewater will impact ratepayers in 2025 and beyond. SPU anticipates the impacts to be about \$25,000 per year for this project. Flows will be conveyed to the West Point treatment facility and charges will be determined based on the Joint King County/Seattle Initiatives Item 7 (attached Exhibit B). Operations and maintenance are being established for Seattle's CSO projects to establish budgets to operate and maintain them after construction. These budgets will include the incremental flow charges, which are expected to be minor. Operation and maintenance costs for the Ship Canal WQ project are estimated to be approximately \$870,000 per year.

**b) Is there financial cost or other impacts of not implementing the legislation?**

Under the Consent Decree, SPU is required to address combined sewer overflows in this basin. Lacking a Joint Project Agreement, SPU and King County would construct their respective independent projects which are similar in cost to each Agency's cost shares as shown in the cost table in Section 3, above. If the Joint Project is not implemented there would be significant impacts to Seattle communities since four independent projects would have to be constructed. Impacts of those projects would include: 1) increased truck traffic in more communities; 2) additional privately-owned land being consumed for project purposes and displacement of private businesses and residents; 3) decreased operational flexibility and more operational impacts for SPU and King County. Building independent projects instead of a joint project is contrary to both parties' Consent Decrees, which requires the City and County cooperatively work together.

**c) Does this legislation affect any departments besides the originating department?**

No.

**d) Is a public hearing required for this legislation?**

No. The project team conducted numerous public meetings throughout the development of the Plan to Protect Seattle's Waterways and ongoing communications with the community and property owners are planned throughout the project.

**e) Is publication of notice with *The Daily Journal of Commerce* and/or *The Seattle Times* required for this legislation?**

No.

**f) Does this legislation affect a piece of property?**

This legislation does not have an immediate impact on a particular piece of property. Acquisition of certain properties for this project was authorized by Ordinances 124718 and 124719. However, the Joint Project Agreement authorized by this legislation will require SPU to acquire additional property rights for project construction and completion. Acquisition of such future property rights will be subject to Council legislative approval.

**g) Please describe any perceived implication for the principles of the Race and Social Justice Initiative. Does this legislation impact vulnerable or historically disadvantaged communities?**

SPU's Plan to Protect Seattle's Waterways, approved by Ordinance 124766, indicates the following for construction and operational impacts for the West Ship Canal Tunnel Option (AKA The Ship Canal WQ Project): The neighborhoods that have the highest potential to be affected include Ballard and Fremont/Wallingford. Disproportionate impacts to minority or low income populations are not expected. The operational effects would be minor to moderately beneficial associated with improved water quality in area receiving waters, and there would be no adverse operational effects that would be predominantly borne by minority or low-income populations and underserved communities.

**h) If this legislation includes a new initiative or a major programmatic expansion: What are the long-term and measurable goals of the program? Please describe how this legislation would help achieve the program's desired goals.**

The Joint Project Agreement authorized by this legislation will allow construction of a project to construct storage of CSO flows from SPU and King County CSO basins to meet federal and state regulatory control standards and requirements. Construction completion must be achieved by December 31, 2025 and must achieve "Controlled Status" by meeting a performance standard of no more than one overflow per year per outfall on a 20-year moving average. The facility must also meet water quality standards and protection of designated uses, and must be verified by post construction monitoring (frequency of overflow and sediment sampling/analysis to meet sediment standards).

**i) Other Issues:**

None.

**List attachments/exhibits below**

Exhibit A – Joint King County/Seattle CSO Initiative Work Plan Item 4: Cost-Sharing Method for Joint Capital Projects

Exhibit B – Joint King County/Seattle Initiatives Item 7

Attachment 1 – Incremental Costs Excel Workbook

## Joint King County/Seattle CSO Initiative Work Plan Item 4: Cost-Sharing Method for Joint Capital Projects

### Overview

This paper describes the cost sharing approach that will be used to allocate costs of any joint CSO storage and related projects selected by King County and Seattle as part of their development of their current Long-term Control Plans.

The primary issues addressed in the paper are:

- The range of joint projects potentially covered,
- The conceptual basis for joint project cost shares, based on independent project costs,
- Sources of consistent project design parameters and cost assumptions to be used by both parties,
- The project components and the life cycle costs of those components that will be included in cost share calculations,
- Certain key economic assumptions to be used in the calculations,
- The range of joint projects' costs to which the cost shares will apply, and
- The collaborative workshop-based process by which specific project inputs will be selected for each candidate joint project being considered.

### 1. Background

**Context.** As part of their joint Combined Sewer Overflow (CSO) planning negotiations under the umbrella of their respective Long-term Control Plans (LTCP), the King County Wastewater Treatment Division (KCWTD) and the Seattle Public Utilities (SPU) - (jointly the "parties") are exploring opportunities for reducing total capital costs by coordinating and combining major capital projects. These savings may be available through economies of scale and other efficiencies from replacing independently designed and executed storage projects with a smaller number of jointly developed storage projects, as well as from other coordinated capital project options.

**Objective.** The parties aim is to define a method for sharing capital and operating costs in joint projects that ensures "win-win" outcomes, in which associated risks and rewards are apportioned equitably. The cost sharing method should ensure a clear, common understanding of the method. This involves:

- thoroughly defining the basis for calculations,
- identifying the range of potential applications, including project components and costs included and excluded, and
- creating the procedures and formal agreements needed to implement this financial feature of the parties' joint CSO initiative as intended.

**Range of the Method's Use and Applications.** The cost-sharing method is for the sole purpose of determining cost shares in joint King County/Seattle CSO projects. It contains a level of detail and a set of consistent assumptions designed specifically for this purpose.

The cost-sharing estimation method is not intended to replace normal capital project cost estimating and budgeting procedures, which will proceed to more refined levels of estimation after joint projects have been selected and cost shares in those projects have been defined. These more developed estimates may involve different agency-specific assumptions consistent with normal capital planning practices of the parties.

**Other Cost Share Issues.** The parties may develop additional cost-sharing arrangements separately to address circumstances and opportunities such as the following:

- **Financing.** There may be situations in which the cost share requirements or timing of a joint project places burdens on either party, for financing their portion of the joint project in addition to their other independent CSO projects. This issue recognizes that specific arrangements and agreements may be possible to manage financing contributions for specific joint projects in a way that most effectively apportions the defined cost shares of each party over time.

The goal of these agreements and arrangements would be to maximize each agency's ability to manage the pattern of its sewer rates and critical financial performance parameters. They may include such techniques as changing agencies' schedules of payments for two or more joint project shares while leaving the present value of their shares unaffected, or employing bond financing techniques and structures that address similar concerns.

- **Incentive Financing.** The nature of CSO-related projects make them good candidates for competitive low-interest loan programs such as those administered by the State Revolving Fund (SRF) and Public Works Trust Funds. For purposes of application and administration of the loan proceeds, one agency may be required to act as lead representative for a project. Such arrangements would be separate from any cost allocation arrangement defined by this methodology, although the financing benefits may be shared in proportions reflective of the joint project cost shares.
- **CSO Joint Project Management.** In addition to the cost share determination, the parties must agree separately on both project construction management and ongoing project operation and maintenance responsibilities. The cost shares essentially assume shared responsibilities, and changes to that model would be accompanied by review of and potential associated changes to parties' financial contributions.
- **CSO Program Trade-Offs.** There may be situations in which the parties can trade cost responsibilities across projects or areas through agreements in order to achieve efficiencies that may be gained from each party's competitive advantage. These potential trades may include each utility specializing in particular types of projects or operating activities and reassigning financial responsibilities for certain ongoing functions within each agency, and are being examined as part of a separate task of the joint CSO Initiative.

## 2. Joint CSO Projects Covered by Cost-Sharing Calculations

The primary purpose of the cost-sharing method is to apportion costs of joint projects between the parties in a way that equitably rewards both agencies for pursuing joint CSO projects that are expected to reduce the combined cost of CSO control or improve water quality performance. The specific joint CSO project candidates to which the cost-sharing method would apply include the following :

- Duwamish River storage and treatment projects;
- Ship Canal/University/Montlake Area joint storage projects;
- A Ship Canal tunnel controlling CSOs of multiple basins; and
- Any LTCP projects of either party for which the costs are reduced by switching from the current independent and separate system operation to a jointly modeled, designed and operated system for CSO control.

[Note: The cost sharing approach of this memo is focused on CSO projects while several other items on the list of KCWTD/SPU negotiation topics may require separate, ad hoc cost sharing and financial arrangements.]

## 3. Cost-Sharing Method Concept

**Synopsis.** The proposed cost sharing method is based on three principles:

1. Controlling CSO's through joint multi-basin efforts may be less costly (or otherwise beneficial) than controlling the same CSOs individually for some projects;
2. Both parties should share in the potential savings of such joint action; and
3. Projects or facilities within each party's independent LTCP that are unaffected by the choice of a joint project should remain the responsibility of that party.

That outcome can be ensured if the cost shares of joint action are assigned to each party in proportion to the cost of their particular independent control solution.

More specifically, the independent control solution costs to be included in share calculations for any joint capital project will be each party's estimated cost for the components of its independent control solution that are replaced by the joint project.

The defined cost shares will then be used to apportion the set of actual joint project costs that replaces the avoided individual solution facility components. This is graphically illustrated in **Figure 1**. The top half of **Figure 1** represents the conveyance and facilities that are the responsibility of each utility with independent CSO basin control solutions. The bottom half of

**Figure 1** adds the conveyance and storage facilities required for a joint, combined-basin solution (dashed lines).

The cost shares will be based on the parties' respective estimated costs of the facilities (labeled A and B within the King County and SPU ovals in **Figure 1**) that are replaced by the combined facility. These shares will then be used to allocate all of the costs associated with the newly required joint facilities (labeled as C in **Figure 1**). Finally, the initial conveyance (or other unaffected) segments (solid lines) will remain the responsibility of each utility as these facilities would be built under either a joint or an independent solution.

***In short, cost shares will be based on facilities that are replaced by joint action; cost shares will be applied to the new joint facilities that replace them.***

This approach contrasts with shares determined by either estimated control volume or estimated peak flow because it ensures that each party will realize a proportional financial benefit from an economically superior joint alternative, while the other approaches do not.

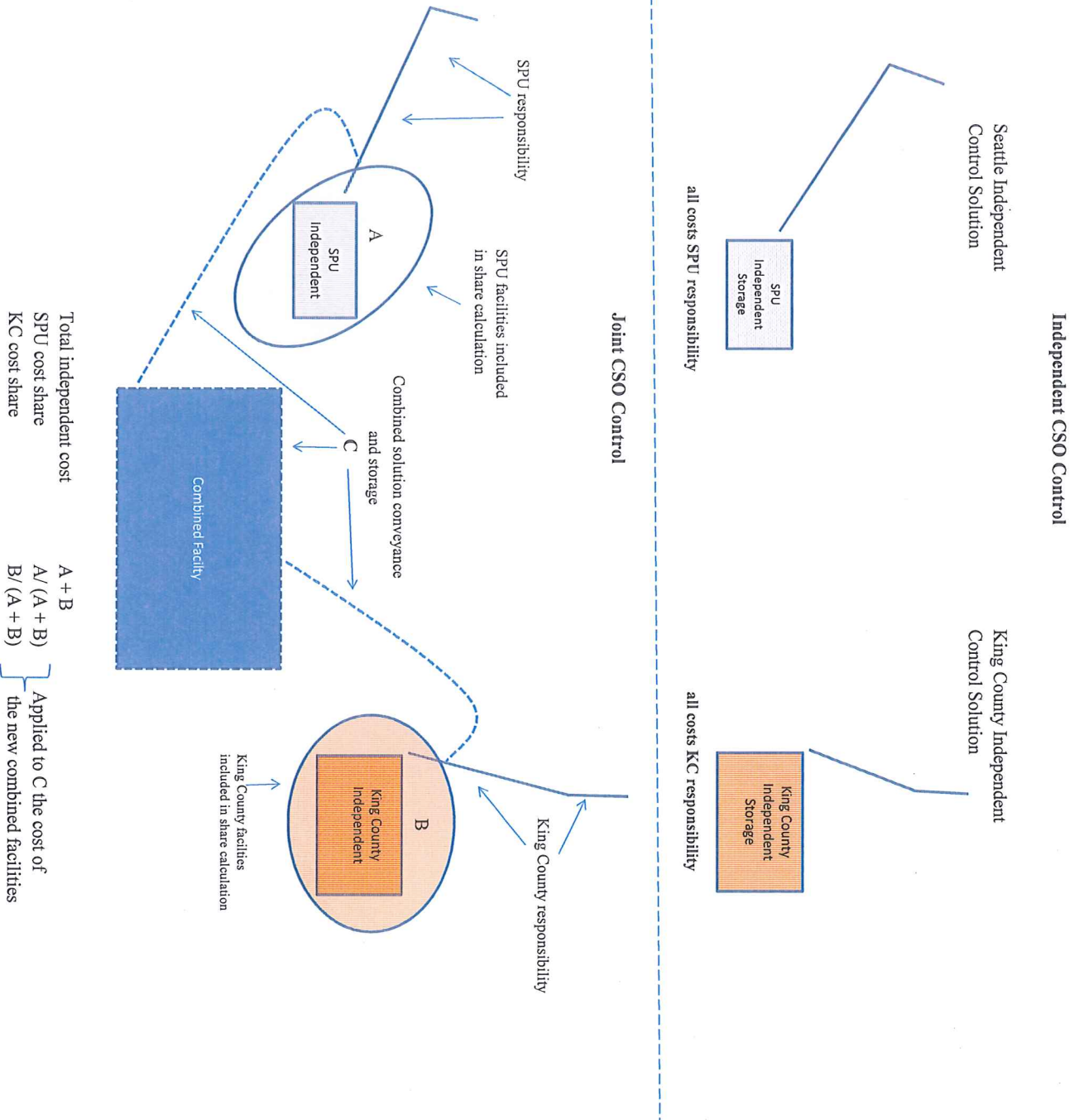
To illustrate, if control volumes (CVs) were used for cost sharing and the CVs of potentially paired basins were split 2/3 for King County and 1/3 for SPU, while independent costs were equal at \$50 million each, a potential joint project lowering combined costs to \$90 million - a savings of \$10 million - would be split \$60 million to King County and \$30 million to SPU. In that illustrative case, King County would pay more for a lower-cost joint solution.

**Basic cost share formula:** The basic formula for the proposed cost shares calculation is simple:

$$\text{Share}_{i-\text{joint}} = C_{i-\text{Independent}} / (C_{\text{SPU-Independent}} + C_{\text{KC-Independent}})$$

where:  $\text{Share}_{i-\text{joint}}$  is the share of total joint project cost for party "i"  
 $C_{i-\text{Independent}}$  is the sum of avoided project costs for party "i"  
 The denominator is the sum of avoided project costs for both parties.

Figure 1



**Table 1** provides a simple numerical example of the cost share calculation. For Seattle and King County, the potentially avoidable independent costs of controlling CSO's by joint action are shown in their respective columns. In this case:

$$C_{\text{SPU-Independent}} = \$51.7 \text{ million}$$

$$C_{\text{KC-Independent}} = \$58.3 \text{ million}$$

| <b>Table 1</b><br><b>Cost Share Calculation Example:</b><br><b>Seattle and King County</b><br><b>Independent CSO Project Costs(\$m)</b> |                |                    |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|
| <b>Formula Component</b>                                                                                                                | <b>Seattle</b> | <b>King County</b> |
| Tabula Cost                                                                                                                             | \$18.0         | \$21.0             |
| * Multiplier                                                                                                                            | 2.00           | 2.00               |
| = Project Cost                                                                                                                          | \$36.0         | \$42.0             |
| + Property Acquisition Cost                                                                                                             | \$6.0          | \$6.0              |
| + Replacements (50 yrs)                                                                                                                 | \$6.5          | \$7.0              |
| + Life Cycle O&M (50 yrs)                                                                                                               | \$3.2          | \$3.3              |
| <b>= Total Cost</b>                                                                                                                     | <b>\$51.7</b>  | <b>\$58.3</b>      |
| <b>Joint Project Cost Share</b>                                                                                                         | <b>47.0%</b>   | <b>53.0%</b>       |

The combined cost to both parties of acting independently is \$110 million (\$51.7 m + \$58.3 m). The calculated cost shares each would pay for applicable joint project costs are:

$$\text{Share}_{\text{SPU-joint}} = (\$51.7 / \$110.0) = 47.0\%$$

$$\text{Share}_{\text{KC-joint}} = (\$58.3 / \$110.0) = 53.0\%$$

To continue the example, assume the new components of a joint project that completely controls both sets of CSOs have a total cost of \$100 million. In this case, SPU would pay \$47 million of the total cost, thereby saving \$4.7 million while King County would pay \$53 million of the total cost thereby saving \$5.3 million. In this example, each utility would save 9.1 percent compared to its cost of independently controlling its basin CSOs.

**Geographic "units" of cost share calculation.** The cost share approach requires the identification of the independent project components that are replaced by a joint project. For example, the joint project candidates listed in Section 2 above include some in which single independent projects for each of the two parties would be replaced with one joint project. Other joint project candidates would replace several independent projects in multiple basins for each party. The proposed cost-sharing method would address each of these applications following the same basic approach however with slight differences.

- In the case of joint projects replacing single independent projects for each agency, as with the paired Ship Canal projects, separate cost shares will be developed for each joint project, with the resulting cost shares applied to the costs of that joint project solution

only (i.e., basin-by-basin). For example assume that a joint Montlake project<sup>1</sup> replaces one independent project for each of the agencies to control the same basins. The SPU cost share for the new components of a joint Montlake project would be calculated as:

**SPU Joint Montlake Cost Share =**

$$\text{SPU Montlake } C_{\text{Indep}} / (\text{SPU Montlake } C_{\text{Indep}} + \text{KC Montlake } C_{\text{Indep}})$$

- In the case where there is one joint project (e.g., a Ship Canal tunnel) replacing a set of independent projects located in multiple basins, cost shares will be calculated based on the sum of the affected facility costs for each agency's independent solutions for all of its basins controlled by the joint project. For example, if a tunnel replaced several independent projects for each agency, the King County share would reflect all of the affected independent projects and would be calculated as:

**KC Joint Tunnel Share =**

$$(\text{KC } C_{\text{Tunnel Basins}}) / (\text{SPU } C_{\text{Tunnel Basins}} + \text{KC } C_{\text{Tunnel Basins}})$$

Where:

KC  $C_{\text{Tunnel Basins}}$  = sum of avoided components' cost of KC independent solutions for all tunnel basins

SPU  $C_{\text{Tunnel Basins}}$  = sum of avoided components' cost of SPU independent solutions for all tunnel basins

#### 4. Independent Project Components Included in $C_{\text{Independent } i}$

The independent solution costs included in the cost share calculations will be those avoided by switching to a joint project solution. This will require for each joint initiative the definition of, and agreement on, an identifiable collection of avoided capital facilities and operating and maintenance activities within each party's independent CSO control solution. These may include storage facilities as well as some portions of upstream and downstream conveyance and pumping facilities.

**Figure 1** illustrates the principle underlying the definition of independent facilities to be included in the independent solution cost share calculations. A mutually-defined schematic diagram of this sort will be developed for each cost sharing case.

Specific facilities covered (along with their associated O&M and scheduled replacements) may include, but are not limited to:

- storage tanks,
- influent conveyance lines,
- forcemains,
- pump stations,

<sup>1</sup> Montlake is one of three joint projects identified for this area.

- regulators,
- outfalls, and
- any other capital features included in the independent basin solution.

GSI installations represent a special case of costs which will not be included in cost share calculations, but may be included among the joint solution costs to which the shares will apply:

**Why Exclude GSI Costs.** While these facilities are contemplated as part of the solution for certain basins, for simplification of costing in this application, their cost will not be included as independent costs for cost share calculation. This is consistent with the cost sharing concept because the "grey" project solutions for each agency that would be included in the calculations will be initially sized to manage basin control volumes in the absence of any flow reduction contributions from GSI projects. By not including the independent GSI costs in the share calculation any subsequent cost reduction due to lesser flow from GSI will be reflected in the joint project costs and thereby shared. This will also preserve proportional shares of GSI costs and benefits for each party, and thus maintain economic incentives.

#### 5. Independent Cost Components Included in $C_{\text{Independent } i}$

All estimated major elements of projected life cycle costs will be included in the calculation of the parties' independent solution costs. This will ensure accurate and consistent calculations of shares for independent solutions that may require different proportions of first-costs and ongoing annual costs. [Note: As stated above, the purpose of these estimates is to calculate cost shares on a consistent basis; they are not meant to replace project cost estimates required for other purposes such as later phases of LTCP development or budgeting.]

Standard components of cost estimates, and their inclusion in the proposed cost-sharing method are the following:

- Construction cost. All components of independent CSO control solutions will be included, with the construction costs itemized and estimated at a "feasibility analysis" level and on a consistent basis between the two parties. The parties will convene one or more design workshops prior to actual cost share calculations to select consistent approaches to special construction cost topics, including but not limited to pump design, site demolition and preparation, building requirements, storage sizing relative to control volume requirements, and costing model departures for small projects.
- Contingency. Contingencies will be included in the cost estimates, but only as one of several implicit components of a composite multiplier that also reflects allied costs and sales taxes. The baseline value for this multiplier will be 2.0.<sup>2</sup> The multiplier will be applied to the sum of construction costs, but not to property acquisition costs.

<sup>2</sup>A multiplier is proposed in lieu of more detailed and specific calculations of allied cost components. Each agency has a different means of estimating these costs. By using a single multiplier consistency is ensured.

- Allied costs & sales tax. These costs will also be reflected, along with contingencies, by the single multiplier described above.
- Property acquisition. All land acquisition and assembly will be included, with estimates based on square footage requirements and prices that are differentiated by residential versus commercial land and by area of the City.
- Facility component replacements. Facility component replacement cost estimates and frequencies of replacement will be defined and included in the life cycle cost calculations underlying the cost share calculations. Consistency will be ensured by using stock assumptions by type of facility, which will be reviewed and agreed upon at the joint project definition workshop described above.
- Operation and maintenance. Annual operation and maintenance costs will be estimated on a collaborative basis for avoided components of independent solutions and new components of joint projects, and included at a constant inflation-adjusted level for the period of analysis for the life cycle cost calculations.

The cost calculation formula - reflected in **Table 1** above - is as follows, with all costs expressed as present values over the defined calculation period:

$$TC = (CC * M) + PA + R + O\&M - S$$

where:

|     |                                                                         |
|-----|-------------------------------------------------------------------------|
| TC  | = total cost                                                            |
| CC  | = construction cost                                                     |
| M   | = multiplier (= 2.0)                                                    |
| PA  | = property acquisition cost                                             |
| R   | = projected facility component replacement costs in the planning period |
| O&M | = operation and maintenance costs over the planning period              |
| S   | = salvage value, if any                                                 |

## 6. Assumptions and Sources of Values for Cost Components

**Construction costs.** For storage projects and their associated facilities, such as conveyance lines, pump stations, etc., each party will employ the same version of the Tabula cost estimation system, using consistent techniques and assumptions to calculate costs. AACE Class 4 "feasibility-level" estimation (1%-15% design) will be the basis for these costs, and the mid-range values will be used, rather than the +/- range or a weighted average of high/medium/low values<sup>3</sup>. The parties will collaboratively review their respective assumptions for the independent solutions and avoided components to be replaced by all candidate joint projects.

**Other cost components.** For any costs not estimated by the Tabula tool, the two parties will collaboratively consider and select cost projections and procedures. For example, major

<sup>3</sup> See Attachment A, King County Draft CSO LTCP Tech Memo 620, for Class 4 description.  
<http://www.kingcounty.gov/environment/wastewater/CSO/ProgramReview/Plan.aspx#techmemos>

maintenance and replacement and annual O&M allowances will be identified and projected separately. Cost allowances deemed to be comparable for all projects and both agencies (e.g., allied costs and contingencies) may be addressed in a simplified fashion. The rationale is that these costs comprise either a small or very similar share of life cycle costs for relevant facility types, so a detailed itemization of these costs would not affect the percentage split for independent solutions and therefore is not critical for the calculations.

## **7. Life Cycle Cost Calculation Parameters and Assumptions**

To capture the full costs of avoided components of independent solutions, life cycle cost estimates will be used. By relying on life cycle costs, independent solutions with different trade-offs between capital and operating costs can be reflected equitably in the analysis. These independent solution costs will be calculated over a consistently defined planning period, as noted below. The cost-sharing method will also include other consistently applied parameters to support those calculations. The major assumptions to be used are:

**Time horizon.** Life cycle costs will be calculated for a 100-year period. [Note: This differs from the 50-year horizon used by King County for CSO project cost estimation in its preliminary Long-Term Control Plan (LTCP) cost projections.] Each pair of independent solution cost calculations will also be calculated for a 50-year horizon, to test for potential impact of considering a shorter planning horizon. In the case of significant differences, the parties will resolve them at a cost share calculation workshop and agree on the preferred assumption and calculation.

**Discount rate.** Life cycle costs will be converted to present value using a 3% real discount rate. [Note: This differs from the 2.2% value used by King County in its LTCP process and the 5% value currently used (but under review) by SPU for normal asset management analyses.] Calculations will also be performed for each independent solution cost estimate to illustrate the impact of considering higher (5%) and lower (2.2%) real discount rates. Again, in the case of significant differences, the parties will resolve them at a cost share calculation workshop and agree on the preferred assumption and calculation.

**Project timing assumption.** Cost estimates for each party's independent solution will be escalated to January 2012 using an agreed index, and present values will be calculated based on the same assumed 2013 start date for all projects. They will not be adjusted to reflect different project sequencing that would be part of an actual LTCP.

**Project construction phasing.** Project construction costs, including the allied cost multiplier and property acquisition cost will be spread over either a 5-year or an 8-year construction period<sup>4</sup>. The parties will, as part of their joint project design workshop(s), agree on the basis for selection of 5-year versus 8-year phasing plans (e.g., dollar thresholds, project type). O&M costs and the actual timing of project component replacements will begin at the on-line date for the specific project.

<sup>4</sup> Other construction periods can be used as long as they are consistent for a particular type of facility.

**Level of Precision.** Cost shares will be calculated to the nearest tenth of one percent.

**Example.** **Table 2** presents an illustrative example of the standard life cycle cost calculation template to be used for the independent project costs that would be replaced by each separate candidate project. The life-cycle cost calculations will be used to determine the joint project cost share calculations. The **Table 2** example shows life-cycle cost calculation for one party's independent LTCP solution that would be replaced by a joint KC/SPU project. Note that template provides an "input block" for definition of the key cost parameters required for life cycle cost calculation, along with a highlighted result cell that shows the resulting life cycle cost to be used in cost share calculation.

- a. The present value of the project capital cost is calculated in **Section A** of Table 2. It is based on a user input capital cost value that already includes: 1) the base capital cost from Tabula cost estimation, times 2) the 2.0 multiplier factor for allied costs, contingencies and sales tax, plus 3) property acquisition.
- b. (**Attachment B** contains a Tabula Cost Example for the Stone Way In-line Storage Project, for illustrative detail of the base Tabula cost referred to above.)
- c. **Section A** also reflects project phasing, with percentage splits automatically applied for a user-specified construction period, either 5 or 8 years. The Table 2 example shows a split for 5 years.
- d. **Section B** calculates the present value of the sum of 1) user-specified annual O&M costs plus 2) major maintenance/replacement components that are projected to be required at 10-, 25- and 50-year intervals.
- e. **Section C** shows the annual sums of the preceding cost elements over a 100-year planning horizon, and calculates the composite present value, based on a user-specified discount rate. This final present value result will be the basis for the agency cost in the cost share calculations defined above.

Table 2: Independent CSO Project Life Cycle Cost Calculation Template

**Directions:** Fill in Construction Period, Capital Cost including soft cost multiplier and property acquisition/preparation, Annual O&M, and Replacements to be made in 10, 25 and 50 years.

| Input Block                         |             |  |  |  |  |  |  |  |  |
|-------------------------------------|-------------|--|--|--|--|--|--|--|--|
| Construction Period (5- or 8-years) | 8           |  |  |  |  |  |  |  |  |
| Capital 5 yr construction           | \$1,000,000 |  |  |  |  |  |  |  |  |
| Annual O&M                          | \$10,000    |  |  |  |  |  |  |  |  |
| Replacements, 10-year cycle         |             |  |  |  |  |  |  |  |  |
| Replacements, 25-year cycle         | \$25,000    |  |  |  |  |  |  |  |  |
| Replacements, 50-year cycle         | \$50,000    |  |  |  |  |  |  |  |  |
| Discount Rate                       | 3%          |  |  |  |  |  |  |  |  |

|                              |            |                                  |
|------------------------------|------------|----------------------------------|
| TOTAL PV OF LIFE CYCLE COST: | \$ 937,328 | (= Cost Share Calculation Input) |
|------------------------------|------------|----------------------------------|

Independent Option: No XXX (put agency and project name here)

[illegible]

|                            |                |               |               |               |               |               |                |                |                |
|----------------------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|
| Project Costs              | \$865,386      | 60,000        | 20,000        | 42,500        | 85,000        | 42,500        | 182,500        | 365,000        | 202,500        |
| Project Costs              | \$0            | -             | -             | -             | -             | -             | -              | -              | -              |
| Project Commissioning      | \$0            | -             | -             | -             | -             | -             | -              | -              | -              |
|                            | \$0            | -             | -             | -             | -             | -             | -              | -              | -              |
| <b>TOTAL CAPITAL COSTS</b> | <b>865,386</b> | <b>60,000</b> | <b>20,000</b> | <b>42,500</b> | <b>85,000</b> | <b>42,500</b> | <b>182,500</b> | <b>365,000</b> | <b>202,500</b> |

[illegible]

### B. OPERATING COSTS

|                         |          |   |   |   |   |   |   |   |   |
|-------------------------|----------|---|---|---|---|---|---|---|---|
| Annual O&M              | \$25,369 | - | - | - | - | - | - | - | - |
| Elect & Inst (10 years) | \$21,573 | - | - | - | - | - | - | - | - |
| Mechanical (25 years)   | \$16,144 | - | - | - | - | - | - | - | - |
| Replacement (50 years)  | \$8,857  | - | - | - | - | - | - | - | - |
|                         | \$0      | - | - | - | - | - | - | - | - |

## TOTAL OPERATING COSTS

|                |            |        |        |        |        |        |         |         |         |
|----------------|------------|--------|--------|--------|--------|--------|---------|---------|---------|
|                |            |        |        |        |        |        |         |         |         |
| C, TOTAL COSTS | \$ 937,328 | 60,000 | 20,000 | 42,500 | 85,000 | 42,500 | 182,500 | 365,000 | 202,500 |

**8. Cost Share Estimation, Confirmation and Application Process**

**Joint project design workshop(s).** SPU and King County representatives will meet for one or more workshops to define and agree on the physical requirements for both independent and joint control solutions. This will include both verifying the flow and control parameters involved and agreeing on consistent design parameters for proposed independent solutions. The intent of this physical component of the workshops is to ensure consistency in the size, composition and design of the independent solutions.

As part of these reviews, the initial design workshops will also produce agreements on other cost-related assumptions, including but not limited to the version of Tabula to use, property acquisition and preparation assumptions, replacement requirements and frequencies for each project and annual O&M estimates for each.

**Independent cost estimation.** Based on independent project design and costing assumption results of the King County-SPU design workshop(s), staff at King County and SPU will develop life cycle cost estimates for the avoided components of their respective independent projects, following the procedures and using the assumptions and parameters defined above. This step, subject to the following review, will form the base for calculating the respective cost shares of the joint facilities.

**Cost share calculation and confirmation workshop.** King County and SPU representatives will convene another workshop to review and confirm the initial life cycle cost estimates for each party's independent solutions, to ensure consistency and thoroughness, and will agree on the final cost shares to be included in a formal agreement.

The purpose of this workshop will be to identify any areas of inconsistency in the cost estimates or variability in sensitivity analyses, discuss and resolve the inconsistencies, and agree on the proposed final joint project cost shares to submit to the team leaders. The goals of this review are to:

- ensure consistency in the application of the cost estimating procedures,
- review and resolve any issues where results fluctuate for a reasonable range of assumptions, and
- agree on the final cost shares to be included in a formal agreement.

**Joint project costs covered.** Once the cost shares for each candidate joint project are defined, the two parties will specify the list of actual joint initiative project cost elements to which the cost shares will apply. These will follow the guideline described in Section 3 above. Costs to be included will be those associated with the new components in the joint solution. In cases where the joint solution is enhanced by the inclusion of GSI installations, retrofits of existing system components, or other features, these will be included among the new joint project features. Similarly, if subsequent regulation allows for design or operational efficiencies that change the required size, design or cost of a joint solution, the joint project as revised will be covered.

---

For any of these new elements of a joint solution, the calculated cost shares will apply, at a minimum, to the following categories of cost:

- design,
- permitting,
- construction,
- agreed levels of overhead,
- post-construction regulatory or other design changes,
- property acquisition,
- post-construction monitoring,
- annual O&M,
- grant proceeds,
- fines or penalties.

The cost shares will be applied consistently to the actual joint project costs incurred, independent of how much savings may or may not be realized by the joint solution.

**Form of Agreement.** The cost shares and their scope of application will be incorporated in an MOA between the two agencies, defined to remain in effect for a specified project life and to apply to all covered costs that may arise over that period.

## **Attachment A**

**Excerpt**

**Technical Memorandum 620**

**2012 Comprehensive Combined Sewer Overflow Control Program  
Review**

**Cost Estimating Methodology CSO Control Facilities**

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**Technical Memorandum 620**

**2012 Comprehensive Combined Sewer  
Overflow Control Program Review**

**Cost Estimating Methodology for CSO  
Control Facilities**

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May 2011



**King County**

Department of Natural Resources and Parks  
**Wastewater Treatment Division**

**King Street Center, KSC-NR-0512**  
**201 South Jackson Street**  
**Seattle, WA 98104**

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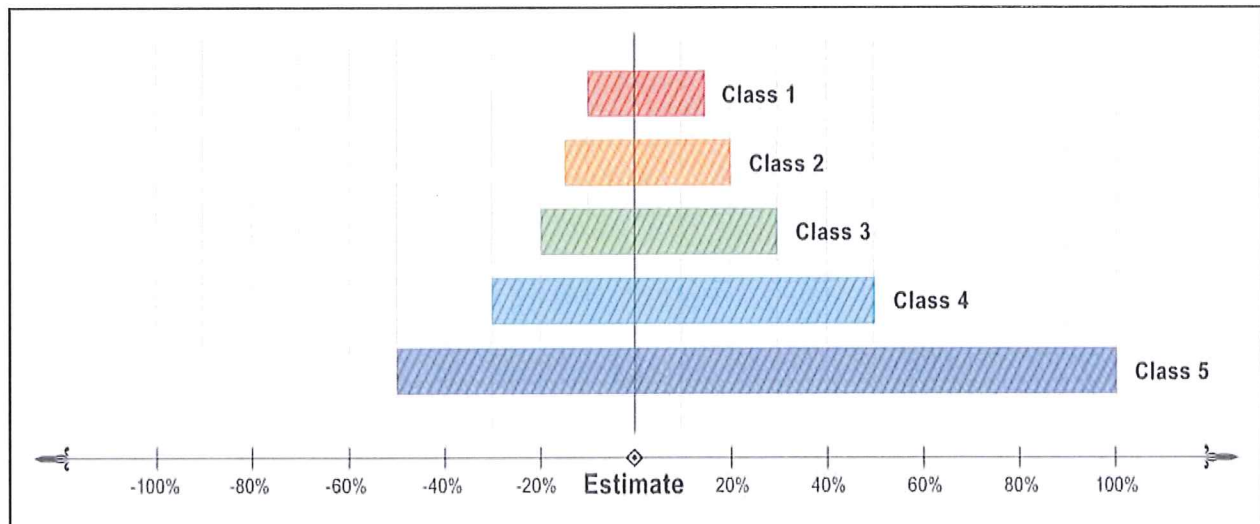
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## 4. ACCURACY AND RANGE

The accuracy of an estimate varies depending on the methods used, the amount of project information available, and the time available to prepare the estimate. Using these criteria, the Association for the Advancement of Cost Engineering (AACE) classifies estimates into five types. The primary defining characteristics for each class is the status of various design components, as shown in Table 4-1. The design status of the alternatives in the Program Review is such that the cost estimates are Class 5 estimates. The accuracy range for Class 5 estimates is – 50% to +100% as indicated in Figure 4-1.

**Table 4-1. Design Status for Determining AACE Cost Estimate Class**

|                                    | <b>Class 5</b> | <b>Class 4</b> | <b>Class 3</b> | <b>Class 2</b> | <b>Class 1</b> |
|------------------------------------|----------------|----------------|----------------|----------------|----------------|
| Project Scope Description          | General        | Preliminary    | Defined        | Defined        | Defined        |
| Plant Production/Facility Capacity | Assumed        | Preliminary    | Defined        | Defined        | Defined        |
| Plant Location                     | General        | Approximate    | Specific       | Specific       | Specific       |
| Soils & Hydrology                  | None           | Preliminary    | Defined        | Defined        | Defined        |
| Integrated Project Plan            | None           | Preliminary    | Defined        | Defined        | Defined        |
| Project Master Schedule            | None           | Preliminary    | Defined        | Defined        | Defined        |
| Escalation Strategy                | None           | Preliminary    | Defined        | Defined        | Defined        |
| Work Breakdown Structure           | None           | Preliminary    | Defined        | Defined        | Defined        |
| Project Code of Accounts           | None           | Preliminary    | Defined        | Defined        | Defined        |
| Contracting Strategy               | Assumed        | Assumed        | Preliminary    | Defined        | Defined        |



**Figure 4-1. Accuracy Range for Cost Estimating Classes under AACE International System**

## **Attachment B**

### **Tabula Cost Example Stone Way In-line Storage Project**

## **Final Alternatives - N-13a: Joint SPU/King County Storage Upstream of the Fremont Siphon - In-Line Storage in Right of Way**

### **Design Criteria**

- SPU Storage Volume requirements: 1.931 MG (NPDES147 Basin), 0.93 MG (NPDES174 Basin), and 0.185 MG (NPDES060 Basin)
- King County Storage Volume Requirements: 4.18 MG (3<sup>rd</sup> Avenue West Regulator)
- Peak Flows: 15.0 MGD (NPDES147 Basin), 7.5 MGD (NPDES174 Basin), and 29.3 MGD (3<sup>rd</sup> Avenue West Regulator)
- Average dry weather flows will require continuous pumping to convey flows to the King County system

### **Description**

Alternative N-13 consists of distributed or joint combined sewer overflow (CSO) storage upstream of the Fremont Siphon for SPU NPDES147 and NPDES174 Basins and the King County 3<sup>rd</sup> Avenue West Regulator. Based on the draft 2010 CSO Reduction Plan, a CSO control volume of 2.86 MG is required to reduce overflows at NPDES147 and NPDES174 Outfalls to an average of one untreated overflow per year. A total maximum storage volume of 7.226 MG is required to control all three outfalls. In-line storage for a portion of this volume could be provided with an in-line storage tunnel and effluent pump station. This would consist of a storage tunnel from the undeveloped commercial property at the intersection of North 40<sup>th</sup> Street and Stone Way North, located in the middle of NPDES147 Basin to the private commercial property located at North 34<sup>th</sup> Street and Stone Way North. A layout of the alternative is shown on the attached figure.

The main components of this alternative would include:

- 7.226 MG In-line storage tunnel, 22foot-diameter, 2,560 feet
- 14.45 MGD effluent pump station
- Two diversion structures
- Approximately 250 feet of force main
- Approximately 1,150 feet of gravity conveyance pipes

### **Storage Tunnel**

The control volume for NPDES147 and NPDES174 Basins and the 3<sup>rd</sup> Avenue West Regulator could be stored in a 22foot-diameter, 2,560 feet long tunnel at a slope of 0.001 ft/ft.

The tunnel boring machine (TBM) would launch from private property at North 34<sup>th</sup> Street and Stone Way North and bore north towards the undeveloped commercial property at the intersection of North 40<sup>th</sup> Street and Stone Way North. Typical tunnel design standards require one to two and half times the tunnel diameter of soil/ground cover depending on the type of material being tunneled through. For this phase of alternative development, approximately 2.5 times is assumed. Further research and exploration of the geotechnical conditions may allow the tunnel to have less cover and will be determined during preferred alternative development.

The tunnel would be an in-line facility with flows from the upper part of NPDES147 Basin permanently routed to the tunnel. This would require that the effluent pump station be

designed for continuous operation. Flows from the lower portion of NPDES147 Basin would be directed to the tunnel during a storm event. Since the tunnel is deeper than the surrounding existing sewer facilities, all flows that enter the tunnel will need to be pumped to the King County North Interceptor.

## **Facilities Building**

An above grade facilities building would be located on private property at North 34<sup>th</sup> Street and Stone Way North. These facilities would contain an odor control system, electrical controls, and a stand-by power generator for the tunnel and associated effluent pump station. The actual contents of the building will be determined during preferred alternative development.

## **Flow Diversion and Discharge**

Diverting flows to the beginning of the storage tunnel would require reconfiguring the surrounding combined sewer. Four new structures would divert SPU flow from the upper portion of NPDES147 Basin to the inlet of the tunnel. These structures would be located along Bridge Way North at Woodland Park Avenue North, Midvale Avenue North, and Stone Way North, with one structure on undeveloped commercial property to pick up the sewer flows that bisect the property. Based on flow monitoring data from meters located at Stone Way North and North 40<sup>th</sup> Street and at NPDES147 Outfall, this gravity diversion would capture approximately 40 percent of the NPDES147 Basin flow.

Flow that enters NPDES147 Basin south of Bridge Way North would be collected by a diversion structure located just upstream of NPDES147 Outfall. From the diversion structure, approximately 250 feet of gravity pipe would carry flow to the downstream end of the storage tunnel located on private property at Stone Way North and North 34<sup>th</sup> Street.

Since the storage tunnel is located in NPDES147 Basin and is upstream of NPDES174 Outfall, flows from NPDES174 Basin would not be diverted to the storage tunnel. It is assumed that diverting and storing sufficient flow from NPDES147 Basin will allow NPDES174 Basin flows to enter the interceptor that would otherwise overflow to NPDES174 Outfall. This will be confirmed during modeling and the next phase of alternative development.

## **Construction Assumptions**

King County's Tabula cost estimating program was used to develop a Class 5 estimate for this storage facility. The attached documentation lists the construction assumptions used.

| LTCP Alternative Analysis                |      |                                                           |          |      |                         |             |                            |                           |                         |
|------------------------------------------|------|-----------------------------------------------------------|----------|------|-------------------------|-------------|----------------------------|---------------------------|-------------------------|
| Operation and Maintenance Cost Template  |      |                                                           |          |      |                         |             |                            |                           |                         |
| Alternative Number                       |      | N13a                                                      |          |      |                         |             |                            |                           |                         |
| Alternative Description                  |      | Fremont/Wallingford/Ballard - Inline Storage in Stone Way |          |      |                         |             |                            |                           |                         |
| 12/9/2010                                |      |                                                           |          |      |                         |             |                            |                           |                         |
| Cost Element                             | Note | Type/Condition                                            | Quantity | Unit | Unit Cost/<br>Base Cost | Ann<br>Freq | Anticipated<br>Annual Cost | Variability<br>Multiplier | High End<br>Annual Cost |
| Conveyance Pipeline-<br>special cleaning | 7    | Typical                                                   | 1150     | LF   | \$ 1.75                 | 1           | \$ -                       | 1                         | \$ -                    |
|                                          |      | Arterial                                                  |          | LF   | \$ 2.00                 | 1           | \$ 2,300                   | 1                         | \$ 2,300                |
|                                          |      | Lakeline                                                  |          | LF   | \$ 2.00                 | 1           | \$ -                       | 1                         | \$ -                    |
|                                          |      | Force Main                                                |          | LF   | \$ 2.00                 | 1           | \$ -                       | 1                         | \$ -                    |
| Diversion Structure                      |      |                                                           |          |      |                         |             |                            |                           |                         |
|                                          |      | Type 1 - Basic                                            | 2        | ea   | \$ 260                  | 4           | \$ 2,080                   | 1.5                       | \$ 3,120                |
|                                          | 8    | Type 2 - Hydrobrake                                       |          | ea   | \$ 260                  | 12          | \$ -                       | 1.5                       | \$ -                    |
|                                          |      | Type 3 - Motorized                                        |          | ea   | \$ 1,000                | 4           | \$ -                       | 1.5                       | \$ -                    |
| Undercrossing                            |      |                                                           |          |      |                         |             |                            |                           |                         |
|                                          |      |                                                           |          | LF   | \$ 2                    | 1           | \$ -                       | 1.5                       | \$ -                    |
| Wet weather Pump Station                 |      |                                                           |          |      |                         |             |                            |                           |                         |
|                                          |      | Type 1 - < 50 HP                                          |          | ea   | \$ 6,500                | 1           | \$ -                       | 1.25                      | \$ -                    |
|                                          |      | Type 2 - 50 HP & up                                       |          | ea   | \$ 11,600               | 1           | \$ -                       | 1.25                      | \$ -                    |
|                                          | 9    | Demand charge                                             |          | HP   |                         | 1           | \$ -                       | 1                         |                         |
| Effluent Pump Station                    |      |                                                           |          |      |                         |             |                            |                           |                         |
|                                          |      | Type 1 - <50HP                                            | 1        | ea   | \$ 5,000                | 1           | \$ -                       | 1.25                      | \$ -                    |
|                                          |      | Type 2 - 50HP & up                                        |          | ea   | \$ 9,600                | 1           | \$ 9,600                   | 1.25                      | \$ 12,000               |
|                                          |      | Continuous Operation                                      |          | ea   | \$ 2,000                | 1           | \$ -                       | 1.25                      | \$ -                    |
|                                          | 9    | Demand charge                                             | 487      | HP   |                         | 1           | \$ 4,489                   | 1                         |                         |
| Storage Tanks                            | 12   |                                                           |          |      |                         |             | \$ -                       |                           |                         |
|                                          |      | Type 1 - < 72-inch pipe                                   |          | LF   | \$ 1.75                 | 2           | \$ -                       | 1.25                      | \$ -                    |
|                                          |      | Type 2 - < 1.5 MG                                         |          | ea   | \$ 16,500               | 1           | \$ -                       | 1.25                      | \$ -                    |
|                                          |      | Type 3 - > 1.5 MG                                         |          | MG   | \$ 2,180                | 1           | \$ -                       | 1.5                       | \$ -                    |
|                                          |      | Type 4 - Tunnel                                           |          | MG   | \$ 87,675               | 1           | \$ 87,675                  | 1.5                       | \$ 131,512              |
| Tank cleaning equipment                  |      |                                                           |          |      |                         |             |                            |                           |                         |
|                                          | 11   | Motorized gate                                            |          | ea   | \$ 1,040                | 1           | \$ -                       | 1.25                      | \$ -                    |
|                                          |      | Tipping bucket                                            |          | ea   | \$ 1,040                | 1           | \$ -                       | 1.5                       | \$ -                    |
| Odor Control                             | 12   |                                                           |          |      |                         |             |                            |                           |                         |
|                                          |      |                                                           | 0        | MG   | \$ 1,700                | 1           | \$ -                       | 1.25                      | \$ -                    |
| Other special O&M requirements           |      |                                                           |          |      |                         |             |                            |                           |                         |
| GSI                                      |      |                                                           |          |      |                         |             |                            | 1.25                      | \$ -                    |
| Retrofit                                 |      |                                                           |          |      |                         |             |                            | 1                         | \$ -                    |
| I/I Reduction                            |      |                                                           |          |      |                         |             |                            | 1.5                       | \$ -                    |
| Annual O&M                               |      |                                                           |          |      |                         |             | \$ 106,143                 |                           | \$ 148,932              |

## Cost Calculations for Project: **Alternative N-13a, In-Line Storage**

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Printed date : 12/07/2010

Project year: 2010

*The estimated construction cost below, which includes contractor overhead and profit, is for planning purposes only. The output does NOT include contingency, sales tax, or allied costs (design, permitting, construction management, etc. ).*

### Assumptions

Project Year: 2010  
Responsible Party:  
Comments:

### Sub Items

| <u>Name</u>                       | <u>Type</u>  | <u>Year</u> | <u>Cost</u> | <u>Multiplier</u> | <u>2010 Cost</u> |
|-----------------------------------|--------------|-------------|-------------|-------------------|------------------|
| 21' Dia Tunnel                    | Tunnel       | 2010        | 42,700,000  | 1.00              | 42,700,000       |
| 14.45 MGD Pump Station            | Pump Station | 2010        | 4,310,000   | 1.00              | 4,310,000        |
| Influent Line for Upper Basin 147 | Pipe         | 2010        | 476,000     | 1.00              | 476,000          |
| Influent Line for Lower Basin 147 | Pipe         | 2010        | 652,000     | 1.00              | 652,000          |
| Force Main from Pump Station      | Pipe         | 2010        | 218,000     | 1.00              | <u>218,000</u>   |
| Year 2008 Subtotal                |              |             |             |                   | \$48,300,000     |

Year 2010 Total: \$48,300,000

## Cost Calculations for Tunnel: **21' Dia Tunnel**

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Printed date : 12/07/2010

Project year: 2010

*The estimated construction cost below, which includes contractor overhead and profit, is for planning purposes only. The output does NOT include contingency, sales tax, or allied costs (design, permitting, construction management, etc. ). Unless added as an Additional Costs item in the estimate, this cost does NOT include land acquisition costs.*

### Assumptions

Construction Year: 2010  
 Inside Diameter: 18 ft.  
 Length: 2560 ft  
 Dewatering: Significant  
 Launch Shaft Existing Utilities: Average  
 Launch Shaft Excavation Depth: 70 ft  
 Launch Shaft Surface Restoration: Pavement  
 Retrieval Shaft Excavation Depth: 170 ft  
 Retrieval Shaft Surface Restoration: Pavement  
 Retrieval Shaft Existing Utilities: Average  
 Tunnel Easement Length: 0 ft  
 Easement Type: None  
 Land Adjustment Factor: Seattle  
 Launch Shaft Footprint: Standard  
 Retrieval Shaft Footprint: Standard

### Tunnel Geometry

|                |           |
|----------------|-----------|
| Outer Diameter | 19.5 ft   |
| Spoils Volume  | 28,300 CY |

### Launch Shaft Geometry

|                    |           |
|--------------------|-----------|
| Width              | 59 ft     |
| Length             | 186 ft    |
| Footprint          | 11,000 SF |
| Volume             | 28,500 CY |
| Easement Footprint | 25,700 SF |

### Retrieval Shaft Geometry

|                    |           |
|--------------------|-----------|
| Width              | 49 ft     |
| Length             | 69 ft     |
| Footprint          | 3,380 SF  |
| Volume             | 21,300 CY |
| Easement Footprint | 11,800 SF |

Miscellaneous

Spoils Loads                      2,830 loads

Unit Costs (Basis 2008)

| <u>Item</u>                                           | <u>Quantity</u> | <u>Unit</u> | <u>Unit Cost</u>   | <u>It</u> |
|-------------------------------------------------------|-----------------|-------------|--------------------|-----------|
| Spoils Haul                                           | 28,300.0        | CY          | 12.0               |           |
| Launch Shaft Excavation                               | 28,500.0        | CY          | 15.0               |           |
| Launch Shaft Shoring                                  | 34,300.0        | SF          | 140.0              |           |
| Launch Shaft Existing Utilities                       | 11,000.0        | SF          | 6.0                |           |
| Launch Shaft Backfill                                 | 28,500.0        | CY          | 18.0               |           |
| Launch Shaft Surface Restoration                      | 1,220.0         | SY          | 74.0               |           |
| Retrieval Shaft Excavation                            | 21,300.0        | CY          | 15.0               |           |
| Retrieval Shaft Shoring                               | 40,100.0        | SF          | 325.0              |           |
| Retrieval Shaft Existing Utilities                    | 3,380.0         | SF          | 6.0                |           |
| Retrieval Shaft Backfill                              | 21,300.0        | CY          | 18.0               |           |
| Retrieval Shaft Surface Restoration                   | 376.0           | SY          | 74.0               |           |
| Tunnel Dewatering                                     | 1.0             | LS          | 80,000.0           |           |
| TBM Procurment                                        | 1.0             | LS          | 6,190,000.0        |           |
| Tunnel Boring                                         | 2,560.0         | ft          | 3,530.0            |           |
| Additional TBM Procurement to Upsize to 21'           | 1               | LS          | 360,000.0          |           |
| Additional Tunnel Boring to Upsize to 21' dia         | 2,560           | LF          | 600.0              |           |
| Land Aquisition for Launch Shaft Industrial           | 31,250          | SF          | 31.0               |           |
| Land Aquisition for Retrieval Shaft Office/Commerical | 45,380          | SF          | 49.0               |           |
| Seattle DOT Street Use Fee                            | 56,320          | SF          | 11.7               |           |
|                                                       |                 |             | Year 2008 Subtotal | \$        |

Mobilization/Demobilization at 6%

Multiplier from ENRCCI 8815 (2008) to 8645 (2010)

Effective Multiplier

Construction Year 2010 Subtotal \$

Year 2010 Total: \$42,700,000

## Cost Calculations for Pump Station: 14.45 MGD Pump Station

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Printed date : 12/07/2010

Project year: 2010

*The estimated construction cost below, which includes contractor overhead and profit, is for planning purposes only. The output does NOT include contingency, sales tax, or allied costs (design, permitting, construction management, etc. ). Unless added as an Additional Costs item in the estimate, this cost does NOT include land acquisition costs.*

### Assumptions

Construction Year: 2010  
Capacity: 14.45 mgd  
Total Dynamic Head: 98 ft  
Excavation Depth: 0 ft

### Calculated Parameters

|                                               |                |
|-----------------------------------------------|----------------|
| Required Pump Power                           | 487 Hp         |
| Base Architectural/Structural Unit Cost       | 144,000 \$/mgd |
| Architectural/Structural Unit Cost Adjustment | -43,200 \$/mgd |
| Base Mechanical Unit Cost                     | 71,600 \$/mgd  |
| Mechanical Unit Cost Adjustment               | -12,400 \$/mgd |

### Unit Costs (Basis 2008)

| <u>Item</u>                | <u>Quantity</u> | <u>Unit</u> | <u>Unit Cost</u> | <u>Item Cost</u> |
|----------------------------|-----------------|-------------|------------------|------------------|
| Site/Civil                 | 1.0             | LS          | 858,000          | 858,000          |
| Electrical/Instrumentation | 1.0             | LS          | 1,070,000        | 1,070,000        |
| Architectural/Structural   | 14.5            | mgd         | 101,000          | 1,460,000        |
| Mechanical                 | 14.5            | mgd         | 59,200           | 855,000          |
| Standby Generator 500 kW   | 1               | EA          | 150,000          | 150,000          |
| Year 2008 Subtotal         |                 |             |                  | \$4,390,000      |

Multiplier from ENRCCI 8815 (2008) to 8645 (2010) 0.98

Construction Year 2010 Subtotal \$4,310,000

Year 2010 Total: \$4,310,000

## Cost Calculations for Pipe: **Influent Line for Upper Basin 147**

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Printed date : 12/07/2010

Project year: 2010

*The estimated construction cost below, which includes contractor overhead and profit, is for planning purposes only. The output does NOT include contingency, sales tax, or allied costs (design, permitting, construction management, etc. ).*

### Assumptions

Construction Year: 2010  
 Length: 750 ft  
 Conduit Type: Gravity  
 Depth of Cover: 20 ft  
 Trench Backfill Type: Imported  
 Disposal Type: No Disposal Cost  
 Manhole Spacing: Average (500 ft)  
 Existing Utilities: Complex  
 Dewatering: Minimal  
 Pavement Restoration: Half Width - Arterial (22 ft)  
 Traffic: Heavy  
 Land Acquisition: None  
 Required Easements: None  
 Land Adjustment Factor: Seattle  
 Trench Safety: Standard  
 Pipe Diameter: 18 in.

### Geometry

|                              |         |
|------------------------------|---------|
| Outer Diameter               | 1.92 ft |
| Trench Width                 | 4.99 ft |
| Excavation Depth             | 22.9 ft |
| Complete Surface Rest. Width | 6.99 ft |

### Unit Costs (Basis 2008)

| <u>Item</u>                   | <u>Quantity</u> | <u>Unit</u> | <u>Unit Cost</u> | <u>Item Cost</u> |
|-------------------------------|-----------------|-------------|------------------|------------------|
| Excavation                    | 3,180.0         | CY          | 13.00            | 41,300           |
| Backfill                      | 2,630.0         | CY          | 34.00            | 89,600           |
| Complete Pavement Restoration | 583.0           | SY          | 86.00            | 50,100           |
| Overlay Pavement Restoration  | 1,250.0         | SY          | 28.00            | 35,000           |
| Trench Safety                 | 34,400.0        | SF          | 0.53             | 18,200           |
| Spoil Load and Haul           | 3,180.0         | CY          | 16.00            | 50,800           |
| Pipe Unit Material Cost       | 750.0           | lf          | 24.00            | 18,000           |
| Pipe Installation             | 750.0           | lf          | 29.00            | 21,800           |
| Place Pipe Zone Fill          | 463.0           | CY          | 34.00            | 15,700           |
| Manholes                      | 2.0             | MH          | 10,700.00        | 21,400           |
| Existing Utilities            | 750.0           | lf          | 42.00            | 31,500           |

|                    |           |       |               |
|--------------------|-----------|-------|---------------|
| Dewatering         | 750.0 lf  | 24.00 | 18,000        |
| Traffic Control    | 750.0 lf  | 16.00 | 12,000        |
| Street use fee     | 16,500 SF | 2.10  | <u>34,700</u> |
| Year 2008 Subtotal |           |       | \$458,000     |

|                                                   |  |             |
|---------------------------------------------------|--|-------------|
| Mobilization/Demobilization at 6%                 |  | 1.06        |
| Multiplier from ENRCCI 8815 (2008) to 8645 (2010) |  | <u>0.98</u> |
| Effective Multiplier                              |  | 1.04        |

Construction Year 2010 Subtotal \$476,000

Year 2010 Total: \$476,000

## Cost Calculations for Pipe: **Influent Line for Lower Basin 147**

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Printed date : 12/07/2010

Project year: 2010

*The estimated construction cost below, which includes contractor overhead and profit, is for planning purposes only. The output does NOT include contingency, sales tax, or allied costs (design, permitting, construction management, etc. ).*

### Assumptions

Construction Year: 2010  
 Length: 400 ft  
 Conduit Type: Gravity  
 Depth of Cover: 10 ft  
 Trench Backfill Type: Imported  
 Disposal Type: No Disposal Cost  
 Manhole Spacing: Average (500 ft)  
 Existing Utilities: Complex  
 Dewatering: Significant  
 Pavement Restoration: Half Width - Arterial (22 ft)  
 Traffic: Heavy  
 Land Acquisition: None  
 Required Easements: None  
 Land Adjustment Factor: Seattle  
 Trench Safety: Special Shoring  
 Pipe Diameter: 24 in.

### Geometry

|                              |         |
|------------------------------|---------|
| Outer Diameter               | 2.5 ft  |
| Trench Width                 | 5.75 ft |
| Excavation Depth             | 13.5 ft |
| Complete Surface Rest. Width | 7.75 ft |

### Unit Costs (Basis 2008)

| <u>Item</u>                   | <u>Quantity</u> | <u>Unit</u> | <u>Unit Cost</u> | <u>Item Cost</u> |
|-------------------------------|-----------------|-------------|------------------|------------------|
| Excavation                    | 1,150.0         | CY          | 13.00            | 15,000           |
| Backfill                      | 767.0           | CY          | 34.00            | 26,100           |
| Complete Pavement Restoration | 344.0           | SY          | 86.00            | 29,600           |
| Overlay Pavement Restoration  | 633.0           | SY          | 28.00            | 17,700           |
| Trench Safety                 | 10,800.0        | SF          | 17.00            | 184,000          |
| Spoil Load and Haul           | 1,150.0         | CY          | 16.00            | 18,400           |
| Pipe Unit Material Cost       | 400.0           | lf          | 36.00            | 14,400           |
| Pipe Installation             | 400.0           | lf          | 33.00            | 13,200           |
| Place Pipe Zone Fill          | 311.0           | CY          | 34.00            | 10,600           |
| Manholes                      | 1.0             | MH          | 7,390.00         | 7,390            |
| Existing Utilities            | 400.0           | lf          | 58.00            | 23,200           |

|                     |       |    |            |               |
|---------------------|-------|----|------------|---------------|
| Dewatering          | 400.0 | lf | 100.00     | 40,000        |
| Traffic Control     | 400.0 | lf | 24.00      | 9,600         |
| Diversion Structure | 2     | EA | 100,000.00 | 200,000       |
| Street use fee      | 8,800 | SF | 2.10       | <u>18,500</u> |
| Year 2008 Subtotal  |       |    |            | \$627,000     |

|                                                   |  |  |  |             |
|---------------------------------------------------|--|--|--|-------------|
| Mobilization/Demobilization at 6%                 |  |  |  | 1.06        |
| Multiplier from ENRCCI 8815 (2008) to 8645 (2010) |  |  |  | <u>0.98</u> |
| Effective Multiplier                              |  |  |  | 1.04        |

Construction Year 2010 Subtotal \$652,000

Year 2010 Total: \$652,000

## Cost Calculations for Pipe: Force Main from Pump Station

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Printed date : 12/07/2010

Project year: 2010

*The estimated construction cost below, which includes contractor overhead and profit, is for planning purposes only. The output does NOT include contingency, sales tax, or allied costs (design, permitting, construction management, etc. ).*

### Assumptions

Construction Year: 2010  
 Length: 200 ft  
 Conduit Type: Force Main  
 Depth of Cover: 8 ft  
 Trench Backfill Type: Imported  
 Disposal Type: No Disposal Cost  
 Manhole Spacing: None  
 Existing Utilities: Complex  
 Dewatering: Significant  
 Pavement Restoration: Trench Width  
 Traffic: Heavy  
 Land Acquisition: None  
 Required Easements: None  
 Land Adjustment Factor: Seattle  
 Trench Safety: Special Shoring  
 Pipe Diameter: 24 in.

### Geometry

|                              |         |
|------------------------------|---------|
| Outer Diameter               | 2.15 ft |
| Trench Width                 | 5.3 ft  |
| Excavation Depth             | 11.2 ft |
| Complete Surface Rest. Width | 7.3 ft  |

### Unit Costs (Basis 2008)

| <u>Item</u>                   | <u>Quantity</u> | <u>Unit</u> | <u>Unit Cost</u> | <u>Item Cost</u> |
|-------------------------------|-----------------|-------------|------------------|------------------|
| Excavation                    | 437.0           | CY          | 13.00            | 5,690            |
| Backfill                      | 275.0           | CY          | 34.00            | 9,340            |
| Complete Pavement Restoration | 162.0           | SY          | 86.00            | 13,900           |
| Trench Safety                 | 4,460.0         | SF          | 17.00            | 75,800           |
| Spoil Load and Haul           | 437.0           | CY          | 16.00            | 7,000            |
| Pipe Unit Material Cost       | 200.0           | lf          | 114.00           | 22,800           |
| Pipe Installation             | 200.0           | lf          | 33.00            | 6,600            |
| Place Pipe Zone Fill          | 136.0           | CY          | 34.00            | 4,620            |
| Existing Utilities            | 200.0           | lf          | 58.00            | 11,600           |
| Dewatering                    | 200.0           | lf          | 100.00           | 20,000           |
| Traffic Control               | 200.0           | lf          | 24.00            | 4,800            |

|                    |       |    |           |              |
|--------------------|-------|----|-----------|--------------|
| Type 205A Manhole  | 1     | EA | 25,000.00 | 25,000       |
| Street use fee     | 1,200 | SF | 2.10      | <u>2,520</u> |
| Year 2008 Subtotal |       |    |           | \$210,000    |

|                                                   |  |  |  |             |
|---------------------------------------------------|--|--|--|-------------|
| Mobilization/Demobilization at 6%                 |  |  |  | 1.06        |
| Multiplier from ENRCCI 8815 (2008) to 8645 (2010) |  |  |  | <u>0.98</u> |
| Effective Multiplier                              |  |  |  | 1.04        |

Construction Year 2010 Subtotal \$218,000

Year 2010 Total: \$218,000

## **Joint King County/Seattle Initiatives Item 7**

### **Incremental Costs and Credits Associated with Combined Sewer Overflow Return Flows and Other Seattle Flow-Changing Initiatives**

#### **Overview**

This outline identifies the major components that form the basis for estimates of the incremental or decremental cost of increased or decreased flows delivered to the West Point Treatment Plant (WP) or South Treatment Plant (SP) due to Seattle CSO initiatives, including returns from Combined Sewer Overflow (CSO) control facilities, installation of Green Stormwater Infrastructure, flow separation, and other captured CSO flow. The components below focus on the costs associated with operations of intervening pump stations, tunnel facilities and major treatment plants. The specific examples accompanying this memo include 1) the Elliott West CSO facility flows going to WP and 2) the Henderson CSO facilities going to SP, however the approach should be applicable in other cases as well. The approach and principles stated in this memo, while specifically addressing CSO control return flows, can be adapted to the more general topic of incremental increases in flows to the system with recognition and adaptation of the special characteristics of the particular application.

The principles that should guide the determination of charges for increased flows associated with CSO facilities and installations are that they be:

- Rational and reasonable – the charge makes sense to the component agencies and the public
- Economically efficient – the charges lead to appropriate investment decisions.
- Effective in recovering costs associated with the activity
- Based on available data to the degree possible. This may involve some loss of ultimate precision but should support the greater goals of being:
  - a. Replicable – easy to get up-to-date data (on an annual basis)
  - b. Verifiable – assumptions and calculations can be checked and refined
- Transferrable – a similar approach would be used for any component agency and any facility with due recognition of the relevant special characteristics of the specific application.
- Consistent in that calculating the value of (decremental) credits will be consistent with the methods of calculating incremental costs.

Charges for Seattle project return flows and credits for Seattle reduced flows from other initiatives will include costs associated with: 1) the operations of the relevant facilities tributary to the Treatment Plant (TP) accepting the flows (if any), such as pump stations and other special facilities, e.g. the Henderson Tunnel Facilities; and 2) the flow-related and solids-related costs associated with incremental changes in flows at the treatment plant.

For TP charges/credits, changes in flows to the treatment plant will be charged/credited on a rate per million gallons comprised of three components. The first reflects expenses associated with flow conveyance, including the number of pump stations between source and treatment plant; secondly, flow processing; and finally, the third element reflects costs associated with solids processing. The expenses associated with solids will recognize the characteristic solids content of return CSO flows. As the solids content of CSO flows may vary significantly over time the use of a moving five year average of return flow characteristics may provide stability to the charge.

To provide perspective on the magnitude of costs discussed in this memo, estimates of the individual components of the charges are provided by example calculations for Elliott West CSO facilities and WP (based on 2012 adopted budget data) and Henderson CSO Facilities and SP (based on 2011 actuals). It is assumed billings or credits will be based on the actual costs and data from the previous year, unless otherwise noted or specified. Data updates will occur on a 5 year cycle or in light of process or facility changes that have a material effect on the processing cost with subsequent charges adjusted accordingly.

#### **A. Pump Station Costs**

Incremental operations costs for pump stations will be based on the number of pump stations between the source of the increased flow and the TP, applied as a per million gallon charge reflecting the 5 year average of operating costs of the pump stations. The resulting per-million gallons charge is then multiplied by the number of intervening pump stations. This “per million gallons per pump station” charge will be comprised of:

1. Increased energy costs – electricity costs attributed to specific pump stations between the source of the increased flow and the treatment plant. Costs are based on the 5 year average of pumping electricity costs per million gallons of the pump stations in the combined segment of the system for flows going to WP and for the specific pump stations in line with flows going to SP.
2. Increased operations cost – non-energy operating costs attributed to specific pump stations between the source of the increased flow and the treatment plant. Costs are based on the 5 year average of the flow-based incremental non-energy operating cost per million gallons of pump stations in the sample.

#### **B. Henderson Tunnel Facilities Costs**

Incremental operations costs for Henderson-MLK Treatment Tunnel: flow to the Henderson-MLK Treatment Tunnel is expected to impact the existing O&M by requiring the treatment tunnel to operate more frequently and for a longer duration, filling it more rapidly, increasing the number of flow peaks, and reducing treatment effectiveness. Incremental increases in O&M costs will be incurred for keeping the tunnel ready to perform, equipment, chemicals, and cleaning the tunnel after treatment to maintain compliance in the existing tunnel.

1. The parties agree that SPU will pay DNRP, annually, a share of the actual O&M costs incurred by DNRP, based on SPU's estimated average proportional share of flows to the Henderson/MLK Treatment Tunnel, which the parties agree is 13.3%.
2. The costs of increased O&M at the Henderson/MLK Treatment Tunnel shall be:
  - Increased energy, water and chemical costs
  - Increased operations cost – electrical and mechanical maintenance.

#### **B. West Point Flow Related Costs**

1. Increased WP flow processing costs. Charges for increased flows to WP from a CSO control facility (as measured by CSO returned flows) will reflect the annual costs for power and chemicals specific to flow treatment (including sodium hypochlorite, sodium bisulfate, caustic soda and others as may be relevant). The per-million gallon charge for these expenses is equal to the annual total divided by total inflow volumes to the plant.
2. Increased Local Hazardous Waste fees. WTD is charged a fee per million gallons of inflow to its plants by (KC?)Public Health for the local hazardous waste program. This fee will be applied to the increased CSO return flows.
3. West Division overtime labor costs during peak flows. Increased labor costs for additional staffing and overtime during peak flow periods. Use a ratio of returned CSO gallons during peak flow periods to total WP gallons during peak flow periods. Include benefits and WP labor overhead. Excludes CSO gallons released from storage during non-peak periods.

Note: Initial analysis indicates the labor amounts are not material and therefore have not been included the calculation.

4. WP facilities maintenance operating costs. Increased labor costs attributed to maintenance of WP liquid facilities. Use a ratio of returned CSO gallons to annual WP gallons. Include benefits and WP labor overhead.

Note: In the example, maintenance work is not allocated between liquids and solids and is presented as an aggregate.

#### **C. West Point Solids Processing Costs**

1. Increased plant solids operating costs. Increased solids to WP from CSOs (based on 5 year moving average of TSS) increase the annual costs for chemicals (dewatering polymer and thickening polymer) specific to solids treatment and grit hauling & disposal. The per-million gallon charge is based on the total costs for these expenses divided by total plant

inflow volumes. The charge is then adjusted by the 5-year moving average of CSO TSS relative to total inflow TSS to be applied against the CSO return flows

2. Increased biosolids haul & application operating costs. Increased solids to WP from CSOs (adjusted for TSS) increase the annual costs for hauling & application of biosolids. Excluding fixed cost components, the total haul and application cost from WP was determined. The per-million gallon charge is equal to the total costs for these expenses divided by total plant inflow volumes, which is then applied to the CSO adjusted return flows.
3. WP facilities maintenance operating costs - Increased labor costs attributed to maintenance of WP solids handling facilities. In light of data source limitations, maintenance work is not allocated between liquids and solids and is presented as an aggregate.

#### **D. South Plant Flow Related Costs**

1. Increased SP flow processing costs. Charges for increased flows to SP will reflect the annual costs for power and chemicals specific to flow treatment (including sodium hypochlorite, sodium bisulfate, caustic soda and others as may be relevant). The per-million gallon charge for these expenses is equal to the annual total divided by total inflow volumes to the plant.
2. Increased Local Hazardous Waste fees. WTD is charged a fee per million gallons of inflow to its plants by Seattle and King County Public Health for the local hazardous waste program. This fee will be applied to the increased CSO return flows.
3. East Division overtime labor costs during peak flows. Increased labor costs for additional staffing and overtime during peak flow periods. Use a ratio of returned CSO gallons during peak flow periods to total WP gallons during peak flow periods. Include benefits and WP labor overhead. Excludes CSO gallons released from storage during non-peak periods.

Note: Initial analysis indicates the labor amounts are not material and therefore have not been included the calculation.

4. SP facilities maintenance operating costs. Increased labor costs attributed to maintenance of SP liquid facilities. Use a ratio of returned gallons to annual SP gallons. Include benefits and SP labor overhead.

Note: In the example, maintenance work is not allocated between liquids and solids and is presented as an aggregate.

### **E. South Plant Solids Processing Costs**

1. Increased plant solids operating costs. Increased solids to SP from CSOs (based on 5 year moving average of TSS) increase the annual costs for chemicals (dewatering polymer and thickening polymer) specific to solids treatment and grit hauling & disposal. The per-million gallon charge is based on the total costs for these expenses divided by total plant inflow volumes. The charge is then adjusted by the 5-year moving average of CSO TSS relative to total inflow TSS to be applied against the CSO return flows
2. Increased biosolids haul & application operating costs. Increased solids to SP from CSOs (adjusted for TSS) increase the annual costs for hauling & application of biosolids. Excluding fixed cost components, the total haul and application cost from SP was determined. The per-million gallon charge is equal to the total costs for these expenses divided by total plant inflow volumes, which is then applied to the CSO adjusted return flows.
3. SP facilities maintenance operating costs - Increased labor costs attributed to maintenance of SP solids handling facilities. In light of data source limitations, maintenance work is not allocated between liquids and solids and is presented as an aggregate.

### **F. Determination of Flow Quantities to Which Charges and Credits Will Apply**

1. For any independent Seattle CSO storage facility, the measured release flows returned to the County's conveyance system will form the basis for return flow incremental cost calculation unless by mutual agreement an average is specified.
2. For any independent Seattle direct transfer of flow, the measured release flows returned to the County's conveyance system will form the basis for incremental cost calculation unless by mutual agreement an average is specified.
3. For a jointly developed County/City CSO facility, all operating costs associated with that CSO facility will be shared based on the cost share calculation developed for that facility, according to the methodology selected by King County and Seattle. Return flow share assignments, on the other hand, will be based on the respective design control volumes for each agency in their basins tributary to the joint CSO facility.
4. For Green Stormwater Infrastructure installations in CSO basins that are owned and maintained by Seattle, modeled reductions in influent flows to a TP will form the basis for decremental flow credit calculation. These calculations will rely on the methodology underlying the estimates contained in the *December 2013 SPU-WTD Joint Program*

*Management Technical Memorandum on Green Stormwater Infrastructure  
Modeling Methods.*

**G. Billing and Further Considerations**

1. Billing frequency will be annual, after year-end results are known (approximately second quarter).
2. Calculation will be based on most recent year of full data, e.g. charges covering 2013 would be first billed June 2014 and based on 2013 year-end data unless otherwise specified.
3. Verification of assumptions, reconciliations and incorporation of changed conditions into subsequent charges.

**H. Attachments**

1. The attached excel workbook (Attachment 1) provides an example of the estimate for incremental costs associated with the increased return flows from the Elliott West CSO facility and West Point, including:
  - a. A summary sheet indicating the major components of the charge and estimated contribution to the total charge. References to the detailed spreadsheets are included.
  - b. Detailed sheets that provide additional data on the source of the cost element
2. The attached excel workbook provides an example of the estimate for incremental costs associated with the increased flows from the Henderson Facilities and South Plant, including:
  - a. A summary sheet indicating the major components of the charge and estimated contribution to the total charge. References to the detailed spreadsheets are included.
  - b. Detailed sheets that provide additional data on the source of the cost element

Summary Ex B Att 1 - Incremental Costs Excel Workbook

V1

 West Point and Elliott West

[Summary Table WP \(Pg 1\)'!A1](#)  
[Elliott 2010&11 Oper Cost Pg 2!'A1](#)  
[Local Hazardous Waste Fee Pg 3 '!A1](#)  
[Asset Mgmt Costs Pg 4!'A1](#)  
[2012 West Operating Bdgt Pg 5-7!'A1](#)  
[2012 West Solids H&App Pg 8!'Print Area](#)  
[CSO Solids Adjustment Pg 9!'A1](#)  
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South Plant and Henderson

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# 2012 Estimated Elliott West Return Flow Cost Recovery

[For Ordinance 124966 / CB 118588]

## Cost Recovery Summary

|                                                       |          |          |
|-------------------------------------------------------|----------|----------|
| Elliott CSO Facility Operating Cost (17%)             |          | \$74,070 |
| Pump Station Cost                                     |          | \$44.20  |
| West Point Treatment Rate (per million gallons (mg))) | \$450.33 |          |
| Elliott West CSO Return Flows (mg (17%))              | 32       | \$14,330 |
| Total Estimated 2012 Charge                           |          | \$88,445 |

Support Sheet

Page 9 - Cal CSO Solids Adjustment - Line 23

## Elliott West Facilities

|                                                 |           |           |
|-------------------------------------------------|-----------|-----------|
| Elliott West Operating Costs (Project 421797)   |           |           |
| 2012 Cost Estimate (Year-end 2011 escalated 3%) | \$375,818 |           |
| WP Overhead (47% Per 2012 Septage Rate)         | \$59,889  |           |
| Total Elliott West Costs                        |           | \$435,706 |
| Seattle Charge (17%)                            | 17.0%     | \$74,070  |

Page 2 - Elliot 2010 & 2011 Oper Cost - Line 62  
Page 12 - West Division Overhead - Line 23

## Pump Stations

|                                     |             |         |
|-------------------------------------|-------------|---------|
| Total Electricity expense 2007-2011 | \$2,444,106 |         |
| Non-energy costs 2007 - 2011        | \$2,000,000 |         |
| Total Flow                          | 100,552     | \$44.20 |

## West Point Treatment Plant

|                                                            | Total Dollars | Rate per mg |
|------------------------------------------------------------|---------------|-------------|
| <b>2012 Estimated West Point Flows (million gallons)</b>   | 33,909        |             |
| <b>Flow Processing</b>                                     |               |             |
| Local Hazardous Waste Fee (Public Health, per mg))         |               | \$45.79     |
| West Plant Processing Costs (2012 Budget)                  |               |             |
| 53520 Electricity                                          | \$3,470,712   |             |
| 53530 Water/Sewer                                          | \$36,050      |             |
| 53540 Solid Waste Deposal                                  | \$22,660      |             |
| 52277 Sodium Hypochlorite                                  | \$708,328     |             |
| 52279 Sodium Bisulfate                                     | \$362,324     |             |
| 52280 Caustic Soda                                         | \$23,340      |             |
| 53131 Grit Haul/Disposal                                   | \$367,875     |             |
| Total West Plant Processing Costs                          | \$4,991,289   | \$147.20    |
| Total West Point Flow Processing Rate (per mg)             |               | \$192.99    |
| <b>Solids Processing &amp; Hauling for CSOs</b>            |               |             |
| West Plant Solids Processing Operating Costs (2012 Budget) |               |             |
| 52272 Thickening Polymer                                   | \$232,100     |             |
| 52278 Dewatering Polymer                                   | \$1,170,770   |             |
| Total West Plant Solids Processing Costs (2012 Budget)     | \$1,402,870   |             |
| West Plant Haul & Application                              | \$2,269,533   |             |
| West Plant Solids Processing & Hauling                     | \$3,672,403   |             |
| West Plant CSO Adjustment Factor                           | 52.4%         |             |
| Solids Processing & Hauling Rate                           | \$1,924,332   | \$56.75     |
| <b>Maintenance and Asset Management</b>                    |               |             |
| West Division 2012 Maintenance Operating                   | \$6,801,579   |             |
| Maintenance Rate                                           | \$6,801,579   | \$200.59    |
| <b>West Point Treatment Plant Rate</b>                     |               | \$450.33    |

Page 9 - Cal CSO Solids Adjustment - Line 15

Page 3 - Local Hazardous Waste Fee - Line 11

Page 5 - 2012 West Operating Budget - Line 9  
Page 5 - 2012 West Operating Budget - Line 10  
Page 5 - 2012 West Operating Budget - Line 11  
Page 6 - 2012 West Operating Budget - Line 52  
Page 6 - 2012 West Operating Budget - Line 54  
Page 6 - 2012 West Operating Budget - Line 55  
Page 6 - 2012 West Operating Budget - Line 57

Page 6 - 2012 West Operating Budget - Line 51  
Page 6 - 2012 West Operating Budget - Line 53

Page 8 - 2012 West Solids Hauling & Appl. - Line 22

Page 9 - Cal CSO Solids Adjustment - Line 26

Page 7 - 2012 West Operating Budget - Line 93&100

## Cost Considered But Not Included in Calculation

|                                                                      |             |  |
|----------------------------------------------------------------------|-------------|--|
| West Division 2012 Total Overtime Budget                             | \$468,829   |  |
| Total West Plant Flow Processing Asset Mgmt. Costs (2012 Estimate)   | \$0.00      |  |
| Total West Plant Solids Processing Asset Mgmt. Costs (2012 Estimate) | \$1,610,444 |  |

Page 7 - 2012 West Operating Budget - Line 57

Page 4 - Asset Mgmt Costs - Line 29

**Elliott West CSO Summary Expenses 2010 & 2011**

[For Ordinance 124966 / CB 118588]

| Account             | Description                 | JAN-10           | FEB-10           | MAR-10           | APR-10           | MAY-10          | JUN-10           | JUL-10           | AUG-10           | SEP-10           | OCT-10           | NOV-10           | DEC-10           | TOTAL             |
|---------------------|-----------------------------|------------------|------------------|------------------|------------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 51110               | Salaries-Regular            | 8,917.32         | 10,079.67        | 10,943.06        | 6,669.40         | 4,144.04        | 6,319.32         | 4,640.57         | 2,845.95         | 10,188.90        | 7,333.62         | 10,249.16        | 13,099.19        | 95,430.20         |
| 51130               | Salaries-Overtime           | 913.81           | 192.76           | 316.44           | 52.46            | 394.65          | 419.23           | 214.72           | 73.01            | 1,448.95         | 1,890.60         | 1,414.97         | 3,472.09         | 10,803.69         |
| 51161               | Vacation Expense            |                  |                  | 596.34           | 1.24             |                 |                  | 606.30           |                  | 12.67            | 55.60            | 29.65            | 437.92           | 1,739.72          |
| 51162               | Sick Leave Expense          | 24.48            | 36.81            | 30.06            | 103.58           | 88.52           | 21.02            | 6.00             |                  | 1.64             | 6.80             | 44.48            | 93.55            | 456.94            |
| 51163               | Holiday Pay                 |                  |                  |                  |                  |                 |                  |                  |                  | 5.48             |                  | 53.51            | 166.31           | 225.30            |
| 51164               | Jury Duty                   | 4.48             |                  |                  |                  |                 |                  |                  |                  | 2.07             |                  |                  |                  | 6.55              |
| 51165               | Military Leave              |                  | 48.07            | 30.57            | 5.13             | 17.52           | 41.65            | 9.87             |                  |                  |                  |                  |                  | 152.81            |
| 51166               | Funeral Leave               |                  | 71.62            | 63.47            | 69.41            | 7.71            | 19.14            |                  | 1.11             |                  |                  |                  | 48.96            | 281.42            |
| 51168               | Furlough Replacement Time   |                  | 126.22           | 64.77            |                  | 6.87            |                  | 11.31            | 3.16             | 14.69            | 9.87             |                  |                  | 236.89            |
| 51169               | Other Paid Time Off         | 1,442.97         | 1,460.84         | 1,236.12         | 942.92           | 829.55          | 1,159.31         | 1,194.59         | 509.26           | 2,584.17         | 1,243.00         | 3,310.12         | 3,113.75         | 19,026.60         |
| 51315               | Flex Benefit Combined Chg   | 2,045.53         | 2,300.40         | 2,080.78         | 1,334.88         | 974.25          | 1,358.44         | 1,073.18         | 514.33           | 2,175.84         | 1,576.68         | 2,388.17         | 2,949.04         | 20,771.52         |
| 51320               | Oasi/Fica                   | 822.69           | 895.79           | 978.91           | 590.41           | 402.98          | 599.37           | 539.61           | 254.96           | 980.36           | 679.79           | 1,070.86         | 1,341.60         | 9,157.33          |
| 51330               | Retirement                  | 564.08           | 623.10           | 681.05           | 411.32           | 277.64          | 420.61           | 366.80           | 176.98           | 683.38           | 466.81           | 741.65           | 945.13           | 6,358.55          |
| 51335               | Pension Trust 117rwt        | 26.99            | 29.84            | 36.64            | 29.64            | 13.27           | 18.19            | 13.03            | 6.88             | 28.53            | 30.29            | 31.66            | 33.16            | 298.12            |
| 51340               | Industrial Insurance/Sspf   |                  |                  |                  |                  |                 |                  |                  |                  | 0.78             | 4.70             | 2.61             | 11.92            | 20.01             |
| 52277               | Sodium Hypochlorite         | (0.00)           |                  |                  |                  |                 |                  |                  |                  | 3,430.86         | 4,217.71         | 6,369.69         | 11,010.30        | 25,028.56         |
| 52279               | Sodium Bisulfite            | 3,676.73         | 349.29           | -                | -                | -               | -                | -                | -                |                  | 5,020.02         | 4,024.23         | 23,782.25        | 36,852.52         |
| 52290               | Supplies-Misc.              |                  |                  |                  |                  |                 |                  |                  |                  |                  |                  |                  | 33.89            | 33.89             |
| 52391               | Maintenance Parts/Materials | 3,870.16         | 11,077.97        | 4,690.00         | 2,422.33         | 77.85           | 222.32           | 2,670.52         | 906.45           | 385.26           | 8,686.73         | 274.20           | 9,898.20         | 45,181.99         |
| 53105               | Professional Services       |                  | 350.00           |                  |                  |                 |                  |                  |                  |                  |                  |                  |                  | 350.00            |
| 53510               | Natural Gas                 |                  | 32.01            | 32.01            | 32.01            | 344.56          | 130.43           | 32.86            | 32.86            | 32.86            | 32.86            | 32.86            | 65.72            | 801.04            |
| 53520               | Electricity                 | -                | 7,342.67         | 6,112.51         | 5,729.66         | 31.64           | 12,290.44        | 6,659.58         | 5,590.09         | 5,461.64         | 8,771.41         | 7,565.25         | 19,224.60        | 84,779.49         |
| 53530               | Water/Sewer                 |                  | 555.95           | 285.89           | 755.44           | 63.62           | 490.85           | 711.21           | 351.26           | 11,983.76        | 21.25            | 574.26           | 2,978.08         | 18,771.57         |
| 53807               | Permits/Licenses            |                  |                  |                  |                  | 169.00          |                  |                  | 181.00           |                  |                  |                  |                  | 350.00            |
| 53890               | Services-Misc.              | 817.97           |                  | 377.66           | 807.84           | (106.68)        | 200.00           | 827.00           | 443.48           | 105.00           | 817.97           | 461.10           | 991.85           | 5,743.19          |
| <b>Total</b>        |                             | <b>23,127.21</b> | <b>35,573.01</b> | <b>28,556.28</b> | <b>19,957.67</b> | <b>7,736.99</b> | <b>23,710.32</b> | <b>19,577.15</b> | <b>11,890.78</b> | <b>39,526.84</b> | <b>40,865.71</b> | <b>38,638.43</b> | <b>93,697.51</b> | <b>382,857.90</b> |
| <b>% Year Total</b> |                             | <b>6.0%</b>      | <b>9.3%</b>      | <b>7.5%</b>      | <b>5.2%</b>      | <b>2.0%</b>     | <b>6.2%</b>      | <b>5.1%</b>      | <b>3.1%</b>      | <b>10.3%</b>     | <b>10.7%</b>     | <b>10.1%</b>     | <b>24.5%</b>     | <b>100.0%</b>     |

| Account             | Description                   | JAN-11           | FEB-11           | MAR-11           | APR-11           | MAY-11           | JUN-11           | JUL-11           | AUG-11           | SEP-11           | OCT-11           | NOV-11           | Prelim DEC-11    | TOTAL             |
|---------------------|-------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 51110               | Salaries-Regular              | 7,839.22         | 6,493.24         | 10,545.37        | 8,624.79         | 8,493.42         | 5,730.71         | 7,766.59         | 6,179.68         | 7,252.15         | 5,539.65         | 9,966.00         | 9,374.96         | 93,805.78         |
| 51120               | Temporary                     |                  |                  |                  |                  |                  |                  |                  | 358.85           | 24.47            |                  |                  |                  | 383.32            |
| 51130               | Salaries-Overtime             | 786.60           | 509.39           | 1,268.59         | 714.13           | 1,803.74         | 146.02           | 182.56           | 205.30           | 256.63           | 238.70           | 1,490.06         | 173.72           | 7,775.44          |
| 51161               | Vacation Expense              | 1.94             | 1.21             | 706.33           | 1,189.78         | 121.73           | 627.93           | 2.65             | 0.19             |                  |                  |                  |                  | 2,651.76          |
| 51162               | Sick Leave Expense            | 6.17             | 7.97             |                  | 13.53            | 17.70            | 10.27            | 29.10            | 0.39             |                  | 0.22             | 9.18             |                  | 94.53             |
| 51163               | Holiday Pay                   | 5.34             | 2.97             |                  |                  | 26.22            |                  | (6.51)           |                  |                  |                  |                  |                  | 28.02             |
| 51164               | Jury Duty                     |                  |                  |                  |                  |                  |                  |                  | 9.79             | 5.55             |                  | 12.92            |                  | 28.26             |
| 51165               | Military Leave                |                  |                  |                  | 86.04            |                  |                  |                  |                  |                  |                  |                  |                  | 86.04             |
| 51166               | Funeral Leave                 | 12.73            | 1.51             |                  | 0.70             |                  | 0.99             | 27.42            | 0.89             | 39.83            | 0.41             | 14.21            |                  | 98.69             |
| 51168               | Furlough Replacement Time     | 2.74             | 2.91             | 23.34            | 90.17            | 46.22            |                  | 35.64            | 0.59             |                  |                  | 3.78             |                  | 205.39            |
| 51169               | Other Paid Time Off           | 1,098.93         | 1,131.06         | 1,027.31         | 1,038.56         | 1,366.59         | 1,272.88         | 1,885.96         | 1,042.55         | 1,274.89         | 753.78           | 2,111.13         |                  | 14,003.64         |
| 51315               | Flex Benefit Combined Chg     | 2,036.17         | 1,669.56         | 2,178.44         | 2,018.43         | 1,999.92         | 1,194.12         | 1,892.54         | 1,338.82         | 1,658.12         | 1,305.07         | 784.81           |                  | 18,076.00         |
| 51320               | Oasi/Fica                     | 710.90           | 611.08           | 943.43           | 857.06           | 796.88           | 619.93           | 712.73           | 687.02           | 484.67           | 496.19           | 921.58           |                  | 7,841.47          |
| 51330               | Retirement                    | 488.45           | 416.93           | 652.80           | 517.50           | 541.43           | 423.84           | 627.28           | 490.14           | 590.10           | 437.99           | 859.20           |                  | 6,045.66          |
| 51335               | Pension Trust 117rwt          | 18.90            | 17.38            | 38.00            | 37.93            | 22.60            | 16.00            | 19.65            | 14.48            | 29.91            | 15.61            | 30.63            |                  | 261.09            |
| 51340               | Industrial Insurance/Sspf     | 0.65             | 0.36             |                  |                  | 3.18             |                  |                  |                  |                  |                  |                  |                  | 4.19              |
| 51370               | Unemployment Compensation     |                  |                  | 13.00            |                  | 7.72             |                  |                  |                  |                  |                  |                  |                  | 20.72             |
| 52224               | Motor Oil                     |                  |                  |                  |                  |                  |                  |                  | 1,198.53         |                  |                  |                  |                  | 1,198.53          |
| 52277               | Sodium Hypochlorite           | 4,337.55         | 315.76           |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 4,653.31          |
| 52279               | Sodium Bisulfite              | 4,690.58         | 356.42           |                  | 4,201.22         |                  |                  |                  |                  |                  |                  |                  | 3,701.98         | 12,950.20         |
| 52290               | Supplies-Misc.                |                  |                  |                  |                  | 126.47           |                  |                  |                  |                  |                  |                  |                  | 126.47            |
| 52391               | Maintenance Parts/Materials   | 1,908.52         | 56.18            | 8,155.18         | 160.12           | 549.49           | 3,387.79         | 1,000.39         | 5,061.49         | 741.74           | 320.12           | 2,402.56         | 1,327.25         | 25,070.83         |
| 53105               | Professional Services         |                  |                  | 350.00           |                  |                  | 350.00           |                  |                  |                  |                  |                  |                  | 700.00            |
| 53510               | Natural Gas                   |                  | 32.86            | 32.86            | 32.86            | 34.16            | 34.48            | 34.48            | 34.48            | 34.48            | 34.48            | 35.77            | 35.71            | 376.62            |
| 53520               | Electricity                   | 34.10            | 8,479.33         | 7,868.04         | 8,187.20         | 7,663.28         | 7,518.00         | 5,944.23         | 6,059.95         | 6,088.74         | 6,046.70         | 6,612.12         | 19,242.95        | 89,744.64         |
| 53530               | Water/Sewer                   | 66.00            | 1,373.08         | 675.90           | 345.05           | 67.89            | 353.25           | 494.34           | 320.97           | 8,030.50         | 29.73            | 4,422.38         | 5,377.49         | 21,556.58         |
| 53807               | Permits/Licenses              |                  |                  |                  |                  | 208.00           | 169.00           | 262.00           | 208.00           |                  |                  |                  |                  | 847.00            |
| 53890               | Services-Misc.                | 817.97           |                  | 105.00           | 1,332.82         | 2,001.09         |                  | 922.97           |                  | 105.00           |                  | 890.00           | 2,562.51         | 8,737.36          |
|                     | <b>Year-end Adj 2011 Dec.</b> |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | <b>47,500.00</b> | <b>47,500.00</b>  |
| <b>Total</b>        |                               | <b>24,863.46</b> | <b>21,479.20</b> | <b>34,583.59</b> | <b>29,447.89</b> | <b>25,897.73</b> | <b>21,855.21</b> | <b>21,834.02</b> | <b>23,212.11</b> | <b>26,616.78</b> | <b>15,218.65</b> | <b>30,566.33</b> | <b>89,296.57</b> | <b>364,871.54</b> |
| <b>% Year Total</b> |                               | <b>6.8%</b>      | <b>5.9%</b>      | <b>9.5%</b>      | <b>8.1%</b>      | <b>7.1%</b>      | <b>6.0%</b>      | <b>6.0%</b>      | <b>6.4%</b>      | <b>7.3%</b>      | <b>4.2%</b>      | <b>8.4%</b>      | <b>24.5%</b>     | <b>100.0%</b>     |

## 2011-13 WTD Hazardous Waste Fund Contribution (2012 Budget)

Source Contact: Darci Thurman - WTD Finance

| <u>Source</u>               | <u>Actual</u><br><u>2009</u><br><u>Flow</u> | <u>2011</u><br><u>Rate</u> | <u>2011</u><br><u>LHWP Fee</u> | <u>Actual</u><br><u>2010</u><br><u>Flow</u> | <u>2012</u><br><u>Rate</u> | <u>2012</u><br><u>LHWP Fee</u> | <u>Projected</u><br><u>2011</u><br><u>Flow</u> | <u>2013</u><br><u>Rate</u> | <u>2013</u><br><u>LHWP Fee</u> |
|-----------------------------|---------------------------------------------|----------------------------|--------------------------------|---------------------------------------------|----------------------------|--------------------------------|------------------------------------------------|----------------------------|--------------------------------|
| Renton\Vashon<br>West Point |                                             |                            |                                |                                             |                            |                                |                                                |                            |                                |
| <b>Total System</b>         | <b>61,850</b>                               | <b>\$ 33.92</b>            | <b>\$ 2,097,939</b>            | <b>65,013</b>                               | <b>\$ 45.79</b>            | <b>\$2,976,948</b>             | <b>63,120</b>                                  | <b>\$ 45.79</b>            | <b>\$2,890,256</b>             |

Note: Budgeted contribution calculated using prior year actual flow x projected next year's rate

### Historical & Projected 2000 - 2014

|                | <u>Annual</u><br><u>Flow</u> | <u>Rate</u><br><u>Per MG</u> | <u>Annual</u><br><u>Fee</u> | <u>Flow % Change</u> |
|----------------|------------------------------|------------------------------|-----------------------------|----------------------|
| 1999 Actual    | 79,278                       |                              |                             |                      |
| 2000 Actual    | 69,971                       | \$ 25.31                     | \$ 1,936,342                |                      |
| 2001 Actual    | 68,693                       | \$ 25.31                     | \$ 1,989,898                | -1.83%               |
| 2002 Actual    | 66,248                       | \$ 25.31                     | \$ 1,770,953                | -3.56%               |
| 2003 Actual    | 66,795                       | \$ 25.31                     | \$ 1,738,620                | 0.83%                |
| 2004 Actual    | 63,438                       | \$ 25.31                     | \$ 1,676,737                | -5.03%               |
| 2005 Actual    | 62,135                       | \$ 25.31                     | \$ 1,690,581                | -2.05%               |
| 2006 Actual    | 72,014                       | \$ 32.40                     | \$ 2,055,172                | 15.90%               |
| 2007 Actual    | 64,977                       | \$ 33.92                     | \$ 2,107,619                | -9.77%               |
| 2008 Actual    | 59,184                       | \$ 33.92                     | \$ 2,442,715                | -8.92%               |
| 2009 Actual    | 61,850                       | \$ 33.92                     | \$ 2,204,030                | 4.50%                |
| 2010 Actual    | 65,013                       | \$ 33.92                     | \$ 2,007,510                | 5.11%                |
| 2011 Projected | 63,120                       | \$ 33.92                     | \$ 2,097,939                | -2.91%               |
| 2012 Projected | 63,339                       | \$ 45.79                     | \$ 2,976,948                | 0.35%                |
| 2013 Projected | 62,061                       | \$ 45.79                     | \$ 2,890,256                | -2.02%               |
| 2014 Projected |                              | \$ 45.79                     | \$ 2,900,284                |                      |

**Estimated 2012 West Asset Management Costs (Appropriation Category A20110 Replacement Projects Dependent on Solids or Flow Volumes)**

|                                                     |                                                    | <b>Process *</b>              | <b>2002</b> | <b>2003</b> | <b>2004</b> | <b>2005</b> | <b>2006</b> | <b>2007</b> | <b>2008</b> | <b>2009</b> | <b>2010</b> | <b>2011 est.</b>   |
|-----------------------------------------------------|----------------------------------------------------|-------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------|
|                                                     |                                                    | <b>1=solids, 2=flow, 9=no</b> |             |             |             |             |             |             |             |             |             |                    |
| 423328                                              | WTP - Digester Cleaning System                     | 1                             | 149,302     | 522,423     | 5,426       |             |             |             |             |             |             |                    |
| 423417                                              | Grit System Improvements                           | 1                             | 827,026     | 2,054,475   | 1,889,641   | 618,549     | 352,644     | 10,983      | (3,930)     |             |             |                    |
| 423513                                              | West Division Corrosion Repairs.                   | 1                             | 272,993     | 358,644     | 49,899      | 181         |             |             |             |             |             |                    |
| 423593                                              | WP Digestion Improvements                          | 1                             |             |             |             | 88,288      | 194,427     | 426,236     | 124,667     | 335,244     | 1,192,520   | 815,295            |
| 423621                                              | Influent Screening Improvements at the WPTP        | 1                             |             |             |             |             |             |             |             | 538,276     | 994,836     | 1,079,768          |
| 423641                                              | WPTP Digester Floating Lids                        | 1                             |             |             |             |             |             |             |             |             | 157,475     | 48,650             |
| 423648                                              | WPTP Primary Tank & Channel Restoration            | 1                             |             |             |             |             |             |             |             |             |             | 506,521            |
| 423334                                              | WTP - Sump Pump Wiring Modifications               | 9                             | 52,274      | 450,532     | 15,967      |             |             |             |             |             |             |                    |
| 423341                                              | PLC Replacements                                   | 9                             | 225,836     | 571,947     | 641,357     | 156,052     | 427         |             |             |             |             |                    |
| 423351                                              | WTP Community-one time mitigation, PCL/SMI         | 9                             | 154         | 3,000,000   | 133         | 0           | 445         |             |             |             |             |                    |
| 423461                                              | WPTP Clarifier Painting/Coating Phase II           | 9                             | 287,404     | 329,070     | 70,747      | 272,207     | 22,114      | 164         | 3,565       |             |             |                    |
| 423561                                              | WTP Digester compressor system modification        | 9                             | 19,033      | 42,795      | 152,411     | 111,855     | 71,029      | 84,470      | 98,646      | 576         | 23,201      | 654                |
| 423594                                              | West Division PLC Replacement Project              | 9                             |             |             |             |             | 219,435     | 616,001     | 552,681     | 535,523     | 29,467      | 847                |
| 423622                                              | West Section Control System Replacement            | 9                             |             |             |             |             |             |             |             | 186,766     | 777,765     | 3,311,547          |
| 423623                                              | WP Replacement of CM trailers, Control System Area | 9                             |             |             |             |             |             |             |             | 182,106     | 411,585     | 90,303             |
| 423647                                              | WPTP Unit Substation 704 Replacement               | 9                             |             |             |             |             |             |             |             |             | 451         | 228,752            |
| <b>Total Asset Replacements</b>                     |                                                    |                               | 1,834,021   | 7,329,886   | 2,825,581   | 1,247,133   | 860,521     | 1,137,854   | 775,630     | 1,778,491   | 3,587,300   | 6,082,337          |
| <b>Total Solids Asset Replacement Project Costs</b> |                                                    |                               | 1,249,320   | 2,935,542   | 1,944,966   | 707,019     | 547,072     | 437,219     | 120,737     | 873,520     | 2,344,831   | 2,450,234          |
| <b>Solids Cost Converted to 2012 Dollars</b>        |                                                    |                               | 1,678,982   | 3,830,217   | 2,463,825   | 869,544     | 653,232     | 506,857     | 135,891     | 954,519     | 2,487,631   | 2,523,741          |
| <b>Solids 2012 Dollars, 2002-2011 Average</b>       |                                                    |                               |             |             |             |             |             |             |             |             |             | <b>\$1,610,444</b> |
| <b>Total Flow Asset Replacement Project Costs</b>   |                                                    |                               | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0                  |
| <b>Flow Project Costs Converted to 2012 Dollars</b> |                                                    |                               | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0                  |
| <b>Flow 2012 Dollars, 2002-2011 Average</b>         |                                                    |                               |             |             |             |             |             |             |             |             |             | <b>\$0</b>         |

**Note: The West Point Expansion Project completed in 1995 replaced pumps each with an expected useful life of at least 20 years. Pump replacement should start to be seen in 2015.**

|              |       |       |       |       |       |       |       |       |       |       |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Deflator, 3% | 1.344 | 1.305 | 1.267 | 1.230 | 1.194 | 1.159 | 1.126 | 1.093 | 1.061 | 1.030 |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

**2010 Actuals & 2011- 2012 Budget - West Operations (D4500/S04612)**

Source: West Division Extracted from 2012 Adopted Budget

Account Class Roll-ups &amp; Specific Accounts Relating to Solids &amp; Flow Volumes

| IBIS Cost Centers/EBS Orgs            | IBIS Account (2010, 2011 & 2012) | EBS Account (2013 & 2014)        | 2010<br>Actual   | 2011<br>Budget   | 2012<br>Budget   |
|---------------------------------------|----------------------------------|----------------------------------|------------------|------------------|------------------|
| <b>West Manager 4510/461100</b>       |                                  |                                  |                  |                  |                  |
|                                       | <b>Salaries &amp; Benefits</b>   | <b>Salaries &amp; Benefits</b>   | <b>2,428,095</b> | <b>2,474,588</b> | <b>2,366,026</b> |
|                                       | <b>Supplies</b>                  | <b>Supplies</b>                  | <b>180,599</b>   | <b>339,203</b>   | <b>208,044</b>   |
| 53520                                 | Electricity                      | 53521 Utilities-Electricity      | 2,916,445        | 2,745,726        | 3,470,712        |
| 53530                                 | Water/Sewer                      | 53522 Utilities-Water Sewer      | 36,524           | 35,000           | 36,050           |
| 53540                                 | Solid Waste Disposal             | 53540 Disposal                   | 24,046           | 22,000           | 22,660           |
|                                       | <b>Services/Other Charges</b>    | <b>Services/Other Charges</b>    | <b>4,055,241</b> | <b>4,064,982</b> | <b>4,749,420</b> |
|                                       | <b>Intragovernmental Service</b> | <b>Intragovernmental Service</b> | <b>38,699</b>    | <b>40,104</b>    | <b>33,749</b>    |
|                                       | <b>Contras/Contingencies</b>     | <b>Contras/Contingencies</b>     | <b>(3,065)</b>   | <b>(65,472)</b>  | <b>(25,236)</b>  |
| <b>TOTAL West Manager 4510/461100</b> |                                  |                                  | <b>6,699,569</b> | <b>6,853,405</b> | <b>7,332,003</b> |
| <b>A Crew West 4521/461101</b>        |                                  |                                  |                  |                  |                  |
|                                       | <b>Salaries &amp; Benefits</b>   | <b>Salaries &amp; Benefits</b>   | <b>847,873</b>   | <b>846,622</b>   | <b>828,096</b>   |
|                                       | <b>Supplies</b>                  | <b>Supplies</b>                  | <b>668</b>       | <b>0</b>         | <b>0</b>         |
|                                       | <b>Services/Other Charges</b>    | <b>Services/Other Charges</b>    | <b>1,194</b>     | <b>0</b>         | <b>3,500</b>     |
|                                       | <b>Intragovernmental Service</b> | <b>Intragovernmental Service</b> | <b>4,212</b>     | <b>5,152</b>     | <b>3,980</b>     |
|                                       | <b>Contras/Contingencies</b>     | <b>Contras/Contingencies</b>     | <b>0</b>         | <b>0</b>         | <b>11,578</b>    |
| <b>TOTAL A Crew West 4521/461101</b>  |                                  |                                  | <b>853,947</b>   | <b>851,774</b>   | <b>847,154</b>   |
| <b>B Crew West 4522/461102</b>        |                                  |                                  |                  |                  |                  |
|                                       | <b>Salaries &amp; Benefits</b>   | <b>Salaries &amp; Benefits</b>   | <b>888,047</b>   | <b>820,870</b>   | <b>771,383</b>   |
|                                       | <b>Supplies</b>                  | <b>Supplies</b>                  | <b>452</b>       | <b>0</b>         | <b>0</b>         |
|                                       | <b>Services/Other Charges</b>    | <b>Services/Other Charges</b>    | <b>632</b>       | <b>0</b>         | <b>3,500</b>     |
|                                       | <b>Intragovernmental Service</b> | <b>Intragovernmental Service</b> | <b>0</b>         | <b>0</b>         | <b>0</b>         |
|                                       | <b>Contras/Contingencies</b>     | <b>Contras/Contingencies</b>     | <b>0</b>         | <b>0</b>         | <b>11,152</b>    |
| <b>TOTAL B Crew West 4522/461102</b>  |                                  |                                  | <b>889,131</b>   | <b>820,870</b>   | <b>786,035</b>   |
| <b>C Crew West 4523/461103</b>        |                                  |                                  |                  |                  |                  |
|                                       | <b>Salaries &amp; Benefits</b>   | <b>Salaries &amp; Benefits</b>   | <b>933,652</b>   | <b>857,443</b>   | <b>840,113</b>   |
|                                       | <b>Supplies</b>                  | <b>Supplies</b>                  | <b>708</b>       | <b>0</b>         | <b>0</b>         |
|                                       | <b>Services/Other Charges</b>    | <b>Services/Other Charges</b>    | <b>19,047</b>    | <b>0</b>         | <b>3,500</b>     |
|                                       | <b>Intragovernmental Service</b> | <b>Intragovernmental Service</b> | <b>0</b>         | <b>0</b>         | <b>0</b>         |
|                                       | <b>Contras/Contingencies</b>     | <b>Contras/Contingencies</b>     | <b>0</b>         | <b>0</b>         | <b>11,780</b>    |
| <b>TOTAL C Crew West 4523/461103</b>  |                                  |                                  | <b>953,407</b>   | <b>857,443</b>   | <b>855,393</b>   |
| <b>D Crew West 4524/461104</b>        |                                  |                                  |                  |                  |                  |
|                                       | <b>Salaries &amp; Benefits</b>   | <b>Salaries &amp; Benefits</b>   | <b>885,280</b>   | <b>853,408</b>   | <b>836,154</b>   |
|                                       | <b>Supplies</b>                  | <b>Supplies</b>                  | <b>791</b>       | <b>0</b>         | <b>0</b>         |
|                                       | <b>Services/Other Charges</b>    | <b>Services/Other Charges</b>    | <b>867</b>       | <b>0</b>         | <b>3,500</b>     |

**2010 Actuals & 2011- 2012 Budget - West Operations (D4500/S04612)**

Source: West Division Extracted from 2012 Adopted Budget

Account Class Roll-ups &amp; Specific Accounts Relating to Solids &amp; Flow Volumes

| IBIS Cost Centers/EBS Orgs                       | IBIS Account (2010, 2011 & 2012) | EBS Account (2013 & 2014)                   | 2010<br>Actual   | 2011<br>Budget   | 2012<br>Budget   |
|--------------------------------------------------|----------------------------------|---------------------------------------------|------------------|------------------|------------------|
|                                                  | <b>Intragovernmental Service</b> | <b>Intragovernmental Service</b>            | <b>0</b>         | <b>0</b>         | <b>0</b>         |
|                                                  | <b>Contras/Contingencies</b>     | <b>Contras/Contingencies</b>                | <b>0</b>         | <b>0</b>         | <b>11,713</b>    |
| <b>TOTAL D Crew West 4524/461104</b>             |                                  |                                             | <b>886,938</b>   | <b>853,408</b>   | <b>851,367</b>   |
| <b>West Process Control 4540/461105</b>          |                                  |                                             |                  |                  |                  |
|                                                  | <b>Salaries &amp; Benefits</b>   | <b>Salaries &amp; Benefits</b>              | <b>1,338,860</b> | <b>1,277,454</b> | <b>1,231,430</b> |
| 52272                                            | Thickening Polymer               | 52272 Supplies-Chemical Thickening Polymer  | 160,012          | 221,100          | 232,100          |
| 52277                                            | Sodium Hypochlorite              | 52277 Supplies-Chemical Sodium Hypochlorite | 24,927           | 1,046,324        | 708,328          |
| 52278                                            | Dewatering Polymer               | 52278 Supplies-Chemical Dewatering Polymer  | 1,003,388        | 1,026,258        | 1,170,770        |
| 52279                                            | Sodium Bisulfite                 | 52279 Supplies-Chemical Sodium Bisulfite    | 222,085          | 388,481          | 362,324          |
| 52280                                            | Caustic Soda                     | 52280 Supplies-Chemical Caustic Soda        | 47,684           | 75,709           | 23,340           |
|                                                  | <b>Supplies</b>                  | <b>Supplies</b>                             | <b>1,904,554</b> | <b>2,880,179</b> | <b>2,605,056</b> |
| 53131                                            | Grit Haul/Disposal               | 53130 Services-Hauling                      | 247,097          | 387,291          | 367,875          |
|                                                  | <b>Services/Other Charges</b>    | <b>Services/Other Charges</b>               | <b>265,724</b>   | <b>404,145</b>   | <b>384,729</b>   |
|                                                  | <b>Intragovernmental Service</b> | <b>Intragovernmental Service</b>            | <b>4,212</b>     | <b>5,152</b>     | <b>3,980</b>     |
|                                                  | <b>Contras/Contingencies</b>     | <b>Contras/Contingencies</b>                | <b>0</b>         | <b>0</b>         | <b>18,453</b>    |
| <b>TOTAL West Process Control 4540/461105</b>    |                                  |                                             | <b>3,513,350</b> | <b>4,566,930</b> | <b>4,243,648</b> |
| <b>West Offsite Operations 4551/461106</b>       |                                  |                                             |                  |                  |                  |
|                                                  | <b>Salaries &amp; Benefits</b>   | <b>Salaries &amp; Benefits</b>              | <b>1,052,553</b> | <b>1,121,022</b> | <b>1,103,117</b> |
|                                                  | <b>Supplies</b>                  | <b>Supplies</b>                             | <b>623,695</b>   | <b>832,006</b>   | <b>1,144,350</b> |
|                                                  | <b>Services/Other Charges</b>    | <b>Services/Other Charges</b>               | <b>1,641,989</b> | <b>1,683,143</b> | <b>1,682,052</b> |
|                                                  | <b>Intragovernmental Service</b> | <b>Intragovernmental Service</b>            | <b>58,554</b>    | <b>57,366</b>    | <b>60,533</b>    |
|                                                  | <b>Contras/Contingencies</b>     | <b>Contras/Contingencies</b>                | <b>0</b>         | <b>0</b>         | <b>16,166</b>    |
| <b>TOTAL West Offsite Operations 4551/461106</b> |                                  |                                             | <b>3,376,790</b> | <b>3,693,537</b> | <b>4,006,218</b> |
| <b>West Buildings &amp; Grounds 4570</b>         |                                  |                                             |                  |                  |                  |
|                                                  | <b>Salaries &amp; Benefits</b>   | <b>Salaries &amp; Benefits</b>              | <b>22,072</b>    | <b>0</b>         | <b>0</b>         |
|                                                  | <b>Supplies</b>                  | <b>Supplies</b>                             | <b>7,088</b>     | <b>0</b>         | <b>0</b>         |
|                                                  | <b>Services/Other Charges</b>    | <b>Services/Other Charges</b>               | <b>198</b>       | <b>0</b>         | <b>0</b>         |
|                                                  | <b>Intragovernmental Service</b> | <b>Intragovernmental Service</b>            | <b>61,596</b>    | <b>0</b>         | <b>0</b>         |
|                                                  | <b>Contras/Contingencies</b>     | <b>Contras/Contingencies</b>                | <b>0</b>         | <b>0</b>         | <b>0</b>         |
| <b>TOTAL West Buildings &amp; Grounds 4570</b>   |                                  |                                             | <b>90,953</b>    | <b>0</b>         | <b>0</b>         |
| <b>West Day Operations 4580/461107</b>           |                                  |                                             |                  |                  |                  |
|                                                  | <b>Salaries &amp; Benefits</b>   | <b>Salaries &amp; Benefits</b>              | <b>1,395,897</b> | <b>2,244,012</b> | <b>2,187,388</b> |
|                                                  | <b>Supplies</b>                  | <b>Supplies</b>                             | <b>93,896</b>    | <b>155,066</b>   | <b>156,404</b>   |
|                                                  | <b>Services/Other Charges</b>    | <b>Services/Other Charges</b>               | <b>10,816</b>    | <b>54,588</b>    | <b>40,588</b>    |
|                                                  | <b>Intragovernmental Service</b> | <b>Intragovernmental Service</b>            | <b>53,949</b>    | <b>129,815</b>   | <b>132,573</b>   |

**2010 Actuals & 2011- 2012 Budget - West Operations (D4500/S04612)**

Source: West Division Extracted from 2012 Adopted Budget

Account Class Roll-ups &amp; Specific Accounts Relating to Solids &amp; Flow Volumes

| IBIS Cost Centers/EBS Orgs                         | IBIS Account (2010, 2011 & 2012) | EBS Account (2013 & 2014)    | 2010<br>Actual    | 2011<br>Budget    | 2012<br>Budget    |
|----------------------------------------------------|----------------------------------|------------------------------|-------------------|-------------------|-------------------|
|                                                    | <b>Contras/Contingencies</b>     | <b>Contras/Contingencies</b> | <b>0</b>          | <b>0</b>          | <b>30,369</b>     |
| <b>TOTAL West Day Operations 4580/461107</b>       |                                  |                              | <b>1,554,558</b>  | <b>2,583,481</b>  | <b>2,547,322</b>  |
| <b>West Electrical I C 4590/461108</b>             |                                  |                              |                   |                   |                   |
|                                                    | Salaries & Benefits              | Salaries & Benefits          | 2,685,959         | 2,633,614         | 2,593,101         |
|                                                    | Supplies                         | Supplies                     | 751,029           | 701,319           | 761,489           |
|                                                    | Services/Other Charges           | Services/Other Charges       | 136,912           | 103,673           | 110,690           |
|                                                    | Intragovernmental Service        | Intragovernmental Service    | 159,076           | 154,588           | 140,153           |
|                                                    | Contras/Contingencies            | Contras/Contingencies        | (47,215)          | 0                 | 39,962            |
| <b>TOTAL West Electrical I C 4590/461108</b>       |                                  |                              | <b>3,685,760</b>  | <b>3,593,194</b>  | <b>3,645,395</b>  |
| <b>West Mechanical 4730/461109</b>                 |                                  |                              |                   |                   |                   |
|                                                    | Salaries & Benefits              | Salaries & Benefits          | 1,829,679         | 1,875,734         | 1,815,521         |
|                                                    | Supplies                         | Supplies                     | 884,084           | 801,850           | 870,840           |
|                                                    | Services/Other Charges           | Services/Other Charges       | 165,042           | 240,222           | 255,861           |
|                                                    | Intragovernmental Service        | Intragovernmental Service    | 156,383           | 171,735           | 187,656           |
|                                                    | Contras/Contingencies            | Contras/Contingencies        | (120)             | 0                 | 26,306            |
| <b>TOTAL West Mechanical 4730/461109</b>           |                                  |                              | <b>3,035,068</b>  | <b>3,089,541</b>  | <b>3,156,184</b>  |
| <b>West Operations D4500/S04612 Account Totals</b> |                                  |                              |                   |                   |                   |
|                                                    | 51130 Salaries-Overtime          | 51130 Overtime               | 511,825           | 468,829           | 468,829           |
|                                                    | Salaries & Benefits              | Salaries & Benefits          | 14,307,967        | 15,004,767        | 14,572,329        |
|                                                    | Supplies                         | Supplies                     | 4,447,565         | 5,709,623         | 5,746,183         |
|                                                    | Services/Other Charges           | Services/Other Charges       | 6,297,660         | 6,550,753         | 7,237,340         |
|                                                    | Intragovernmental Service        | Intragovernmental Service    | 536,680           | 563,912           | 562,624           |
|                                                    | Contras/Contingencies            | Contras/Contingencies        | (50,400)          | (65,472)          | 152,243           |
| <b>TOTAL West Operations D4500/S04612</b>          |                                  |                              | <b>25,539,472</b> | <b>27,763,583</b> | <b>28,270,719</b> |

# 2012 West Division Biosolids Haul and Application Costs (Fixed Cost Excluded)

[For Ordinance 124966 / CB 118588]

(Based on the assumed distribution ( Provided by Mark Lucas - Project Manager Biosolids)

| SUMMARY of Operating Costs                                           | Boulder (BPI)      | Green Valley (NSF) | GroCo           | Snoqualmie Forest (Ramco) | State DNR Forests (Ramco) | Everett / Other | Sum of Tons or Category Costs |
|----------------------------------------------------------------------|--------------------|--------------------|-----------------|---------------------------|---------------------------|-----------------|-------------------------------|
| <b>Assumed Production and Distribution</b>                           |                    |                    |                 |                           |                           |                 |                               |
| Miles (one way) WP (est.)                                            | 235                | 235                | 30              |                           |                           | 60              |                               |
| Miles (one way) SP (est.)                                            |                    |                    |                 |                           |                           |                 |                               |
| Miles (one way) BW (est.)                                            |                    |                    |                 |                           |                           |                 |                               |
| Estimated load size based on new trucks<br>105500-250-41,500/2=31.75 | 31.75              | 31.75              | 31.75           | 31.75                     | 31.75                     | 31.75           |                               |
| WP - Wet Tons                                                        | 35,216             | 8,244              | 896             |                           |                           | 448             | 44,804                        |
| SP - Wet Tons                                                        |                    |                    |                 |                           |                           |                 |                               |
| BW - Wet Tons                                                        |                    |                    |                 |                           |                           |                 |                               |
| <b>Total Wet Tons</b>                                                | <b>35,216</b>      | <b>8,244</b>       | <b>896</b>      | <b>0</b>                  | <b>0</b>                  | <b>448</b>      | <b>44,804</b>                 |
| <b>Summary of Haul (variable) and Application Costs</b>              |                    |                    |                 |                           |                           |                 |                               |
| Haul                                                                 | \$830,393          | \$194,394          | \$5,161         | \$0                       | \$0                       | \$3,247         | \$1,033,195                   |
| Fuel for haul                                                        | \$601,509          | \$140,812          | \$2,442         |                           |                           | 1771.98315      | \$746,535                     |
| Application                                                          | \$299,569          | \$120,939          | \$51,251        | \$0                       | \$0                       | \$37,176        | \$508,936                     |
| Fuel for application                                                 | \$47,542           | \$0                | \$0             | \$0                       | \$0                       | \$605           | \$48,146                      |
| County permit fees                                                   | \$0                | \$7,584            | \$0             | \$0                       | \$0                       | \$0             | \$7,584                       |
| Private road use fees                                                | \$0                | \$0                | \$0             | \$0                       | \$0                       | \$0             | \$0                           |
| Less Fertilizer Revenue                                              | (\$61,980)         | (\$12,883)         | \$0             | \$0                       | \$0                       | \$0             | (\$74,863)                    |
| <b>Total</b>                                                         | <b>\$1,717,033</b> | <b>\$450,846</b>   | <b>\$58,854</b> |                           |                           | <b>\$42,799</b> | <b>\$2,269,533</b>            |
| <b>Average H&amp;A (variable only) Cost/Wet Ton</b>                  | <b>\$48.76</b>     | <b>\$54.69</b>     | <b>\$65.69</b>  | <b>\$0.00</b>             | <b>\$0.00</b>             | <b>\$95.53</b>  | <b>\$50.65</b>                |

|                                                                                                                                    |            |            |          |          |         |          |                      |
|------------------------------------------------------------------------------------------------------------------------------------|------------|------------|----------|----------|---------|----------|----------------------|
| <b>Application Costs per Wet Ton</b>                                                                                               |            |            |          |          |         |          |                      |
| <u>Paid to contractor</u>                                                                                                          |            |            |          |          |         |          |                      |
| Rate for < 20,000 tons                                                                                                             |            | \$14.67    | \$57.20  |          |         |          |                      |
| Rate for > 20,000 tons                                                                                                             |            | \$14.01    | \$57.20  |          |         |          |                      |
| Rate for < 25,000 tons                                                                                                             | \$8.12     |            |          | \$12.62  | \$12.62 | \$53.45  |                      |
| Rate for > 25,000 tons                                                                                                             | \$6.34     |            |          | \$12.62  | \$12.62 | \$51.60  |                      |
| <u>Paid directly by WTD</u>                                                                                                        |            |            |          |          |         |          |                      |
| Fuel Cost per Gallon                                                                                                               | \$4.50     | \$0.00     | \$0.00   | \$4.50   | \$4.50  | \$4.50   |                      |
| Estimated gallons of fuel used per ton                                                                                             | 0.30       | 0.54       |          | 0.50     | 0.50    | 0.30     |                      |
| Fuel cost per ton                                                                                                                  | \$1.35     | \$0.00     | \$0.00   | \$2.25   | \$2.25  | \$1.35   |                      |
| Local County Fee or tax                                                                                                            | \$0.00     | \$0.92     | \$0.00   | \$0.00   | \$0.00  | \$0.00   |                      |
| Private Road Use and Land-out-of-Production Fees                                                                                   |            |            |          | \$5.77   |         |          |                      |
| Office / Shop Building Rent                                                                                                        | \$0.34     |            |          |          |         |          |                      |
| Tires                                                                                                                              | \$0.12     |            |          | \$0.10   | \$0.10  | \$0.00   |                      |
| Equipment Maintenance/Repairs                                                                                                      | \$0.44     |            |          | \$2.00   | \$2.00  |          |                      |
| Fertilizer revenue per wet ton (estimated 25%)                                                                                     | (\$1.76)   | (\$1.56)   | \$0.00   | (\$1.30) | \$0.00  |          |                      |
| <i>How fertilizer revenue is calculated: per dry ton for BPI, per pound of nitrogen for NSF, per wet ton for Snoqualmie Forest</i> |            |            |          |          |         |          |                      |
|                                                                                                                                    | \$7.04     | \$0.19     |          | \$1.30   |         |          |                      |
| <b>Haul Costs (Estimated) per Wet Ton</b>                                                                                          |            |            |          |          |         |          |                      |
| Total Miles driven (est.)                                                                                                          | 521,307.72 | 122,037.17 | 1,693.23 | 0.00     | 0.00    | 1,693.23 | 646,731.34           |
| Miles per gallon of Fuel (est.)                                                                                                    | 3.90       | 3.90       | 3.12     | 3.32     | 3.32    | 4.30     |                      |
| Gallons used (est.)                                                                                                                | 133,668.65 | 31,291.58  | 542.70   | 0.00     | 0.00    | 393.77   | 165,896.70           |
| Gallons used per ton                                                                                                               | 3.80       | 3.80       | 0.61     | N/A      | N/A     | 0.88     | 3.70                 |
| Fuel Cost per Gallon                                                                                                               | \$4.50     | \$4.50     | \$4.50   | \$4.50   | \$4.50  | \$4.50   |                      |
| Fuel Hauling Cost per Ton (est.)                                                                                                   | \$17.08    | \$17.08    | \$2.73   | N/A      | N/A     | \$3.96   |                      |
| Tarps cost per ton                                                                                                                 | \$0.00     | \$0.00     | \$0.00   | N/A      | N/A     | \$0.00   | \$0.00 Tarps         |
| Miscellaneous Repairs                                                                                                              | \$0.00     | \$0.00     | \$0.00   | N/A      | N/A     | \$0.00   | \$0.00 Misc. Repairs |
| Freightliner Trucks %                                                                                                              | 75%        | 75%        | 0%       | 0%       | 0%      | 75%      |                      |
| KW Trucks %                                                                                                                        | 25%        | 25%        | 100%     | 100%     | 100%    | 25%      |                      |
| Variable Haul Rate SP                                                                                                              | \$21.07    | \$21.07    | \$3.99   | \$11.52  | \$10.19 | \$6.40   |                      |
| Variable Haul Rate WP                                                                                                              | \$23.58    | \$23.58    | \$5.76   | \$13.41  | \$12.70 | \$7.25   |                      |
| Variable Haul Rate BW                                                                                                              | \$23.08    | \$23.08    | \$5.76   | \$12.70  | \$11.99 | \$5.54   |                      |

## Summary Calculation - CSO Solids Adjustment

|                                                  | Flow<br><i>million gals</i> | TSS<br><i>lbs.</i> | Tons per<br>million gals | Source                                           |
|--------------------------------------------------|-----------------------------|--------------------|--------------------------|--------------------------------------------------|
| <b>West Division</b>                             |                             |                    |                          |                                                  |
|                                                  | <b>Inflow</b>               | <b>Inflow</b>      |                          |                                                  |
| 2007                                             | 35,816,570                  | 59,027,548         | 0.824                    | Page 12 - West Flows Sheet - Line 9              |
| 2008                                             | 33,471,110                  | 64,882,077         | 0.969                    | Page 12 - West Flows Sheet - Line 10             |
| 2009                                             | 33,566,070                  | 60,306,401         | 0.898                    | Page 12 - West Flows Sheet - Line 11             |
| 2010                                             | 37,202,450                  | 60,062,465         | 0.807                    | Page 12 - West Flows Sheet - Line 12             |
| 2011 Estimate                                    | 36,548,732                  | 61,780,834         | 0.845                    | Page 12 - West Flows Sheet - Line 13             |
| 5-year Average                                   |                             |                    | <u>0.869</u>             |                                                  |
| 2012 Budget                                      | 33,908,500                  |                    |                          |                                                  |
| <b>Elliott West CSO Facility</b>                 |                             |                    |                          |                                                  |
|                                                  | <b>Return Flow</b>          | <b>Return Flow</b> |                          |                                                  |
| 2007                                             | 130,620                     | 114,476            | 0.438                    | Page 10 - Elliott West CSO Flows Sheet - Line 18 |
| 2008                                             | 107,375                     | 94,893             | 0.442                    | Page 10 - Elliott West CSO Flows Sheet - Line 31 |
| 2009                                             | 175,494                     | 70,756             | 0.202                    | Page 10 - Elliott West CSO Flows Sheet - Line 44 |
| 2010                                             | 213,700                     | 245,648            | 0.575                    | Page 11 - Elliott West CSO Flows Sheet - Line 57 |
| 2011                                             | 187,190                     | 232,052            | 0.620                    | Page 11 - Elliott West CSO Flows Sheet - Line 70 |
| 5-year Average                                   |                             |                    | <u>0.455</u>             |                                                  |
| Elliott CSO Solids as Percent West Normal Solids |                             |                    | 52.4%                    |                                                  |

## Flow Statistics for Elliott West CSO Treatment Facility

Source Contact: Pedro de Artega - West Treatment Plant - Process Control

| Month-Year | Inflow<br>MG | Discharge<br>MG | Ret. Flow<br>MG | Annual Total<br>Ret Flow | Inflow TSS (lbs.) | Discharge<br>(EW + WP)<br>TSS (lbs.) | Annual Totals |           | Ret Flow<br>TSS | TSS per 1 MG |           |                 |
|------------|--------------|-----------------|-----------------|--------------------------|-------------------|--------------------------------------|---------------|-----------|-----------------|--------------|-----------|-----------------|
|            |              |                 |                 |                          |                   |                                      | Inflow        | Discharge |                 | Inflow       | Discharge | Return          |
| Jan-07     | 65.42        | 38.08           | 27.34           |                          | 22,287            | 11,144                               |               |           |                 |              |           |                 |
| Feb-07     | 0.00         | 0.00            | 0.00            |                          | -                 | -                                    |               |           |                 |              |           |                 |
| Mar-07     | 7.14         | 0.00            | 7.14            |                          | 10,991            | 454                                  |               |           |                 |              |           |                 |
| Apr-07     | 7.30         | 0.00            | 7.30            |                          | 8,023             | 329                                  |               |           |                 |              |           |                 |
| May-07     | 16.62        | 2.52            | 14.10           |                          | 7,345             | 1,255                                |               |           |                 |              |           |                 |
| Jun-07     | 0.00         | 0.00            | 0.00            |                          | -                 | -                                    |               |           |                 |              |           |                 |
| Jul-07     | 2.23         | 0.00            | 2.23            |                          | 2,412             | 116                                  |               |           |                 |              |           |                 |
| Aug-07     | 2.20         | 0.00            | 2.20            |                          | 10,220            | 715                                  |               |           |                 |              |           |                 |
| Sep-07     | 15.22        | 0.00            | 15.22           |                          | 7,140             | 307                                  |               |           |                 |              |           |                 |
| Oct-07     | 6.66         | 0.00            | 6.66            |                          | 6,957             | 383                                  |               |           |                 |              |           |                 |
| Nov-07     | 21.51        | 1.02            | 20.49           |                          | 21,098            | 1,659                                |               |           |                 |              |           |                 |
| Dec-07     | 212.69       | 184.75          | 27.94           | 130.62                   | 104,659           | 70,294                               | 201,131       | 86,656    | 114,476         | 1,539.82     | 663.42    | 876.40          |
| Jan-08     | 356.99       |                 | 130.62          |                          |                   |                                      |               |           |                 |              |           |                 |
| Feb-08     | 26.08        | 0.00            | 26.08           |                          | 13,992            | 781                                  |               |           |                 |              |           |                 |
| Mar-08     | 0.00         | 0.00            | 0.00            |                          | 19,506            | 550                                  |               |           |                 |              |           |                 |
| Apr-08     | 23.54        | 2.96            | 20.58           |                          | 14,912            | 1,997                                |               |           |                 |              |           |                 |
| May-08     | 5.88         | 0.00            | 5.88            |                          | 23,461            | 814                                  |               |           |                 |              |           |                 |
| Jun-08     | 0.00         | 0.00            | 0.00            |                          | -                 | -                                    |               |           |                 |              |           |                 |
| Jul-08     | 21.63        | 9.93            | 11.70           |                          | 12,720            | 7,044                                |               |           |                 |              |           |                 |
| Aug-08     | 0.00         | 0.00            | 0.00            |                          | -                 | -                                    |               |           |                 |              |           |                 |
| Sep-08     | 16.56        | 0.00            | 16.56           |                          | 8,528             | 437                                  |               |           |                 |              |           |                 |
| Oct-08     | 0.00         | 0.00            | 0.00            |                          | -                 | -                                    |               |           |                 |              |           |                 |
| Nov-08     | 2.07         | 0.00            | 2.07            |                          | 1,939             | 182                                  |               |           |                 |              |           |                 |
| Dec-08     | 60.26        | 40.23           | 20.03           |                          | 32,831            | 24,724                               |               |           |                 |              |           |                 |
| Jan-09     | 4.48         | 0.00            | 4.48            | 107.38                   | 3,648             | 116                                  | 131,538       | 36,645    | 94,893          | 1,225.03     | 341.28    | 883.75          |
| Feb-09     | 160.50       |                 | 107.38          |                          |                   |                                      |               |           |                 |              |           |                 |
| Mar-09     | 61.18        | 38.89           | 22.29           |                          | 24,883            | 16,604                               |               |           |                 |              |           |                 |
| Apr-09     | 0.70         | 0.00            | 0.70            |                          | 584               | 18                                   |               |           |                 |              |           |                 |
| May-09     | 2.68         | 0.00            | 2.68            |                          | 1,888             | 66                                   |               |           |                 |              |           |                 |
| Jun-09     | 18.35        | 4.21            | 14.14           |                          | 5,182             | 1,551                                |               |           |                 |              |           |                 |
| Jul-09     | 72.12        | 33.49           | 38.63           |                          | 22,379            | 10,159                               |               |           |                 |              |           |                 |
| Aug-09     | 0.00         | 0.00            | 0.00            |                          | -                 | -                                    |               |           |                 |              |           |                 |
| Sep-09     | 0.00         | 0.00            | 0.00            |                          | -                 | -                                    |               |           |                 |              |           |                 |
| Oct-09     | 0.00         | 0.00            | 0.00            |                          | -                 | -                                    |               |           |                 |              |           |                 |
| Nov-09     | 60.45        | 31.35           | 29.10           |                          | 39,348            | 24,662                               |               |           |                 |              |           |                 |
| Dec-09     | 140.92       | 87.53           | 53.39           |                          | 86,273            | 62,078                               |               |           |                 |              |           |                 |
| Jan-10     | 14.56        | 0.00            | 14.56           | 175.49                   | 5,760             | 405                                  | 186,297       | 115,541   | 70,756          | 1,061.56     | 658.38    | 403.18 0.379801 |
| Feb-10     | 370.96       |                 | 175.49          |                          |                   |                                      |               |           |                 |              |           |                 |
| Mar-10     | 103.32       | 58.94           | 44.38           |                          | 52,196            | 33,891                               |               |           |                 |              |           |                 |
| Apr-10     | 12.26        | 0.00            | 12.26           |                          | 8,651             | 582                                  |               |           |                 |              |           |                 |

## Flow Statistics for Elliott West CSO Treatment Facility

Source Contact: Pedro de Artega - West Treatment Plant - Process Control

|            | Inflow | Discharge | Ret. Flow | Annual Total |                   | Discharge               | Annual Totals |           | Ret Flow | TSS per 1 MG |           |          |          |
|------------|--------|-----------|-----------|--------------|-------------------|-------------------------|---------------|-----------|----------|--------------|-----------|----------|----------|
| Month-Year | MG     | MG        | MG        | Ret Flow     | Inflow TSS (lbs.) | (EW + WP)<br>TSS (lbs.) | Inflow        | Discharge | TSS      | Inflow       | Discharge | Return   |          |
| Mar-10     | 27.14  | 5.78      | 21.36     |              | 20,251            | 5,475                   |               |           |          |              |           |          |          |
| Apr-10     | 25.09  | 8.70      | 16.39     |              | 32,882            | 9,535                   |               |           |          |              |           |          |          |
| May-10     | 9.09   | 0.00      | 9.09      |              | 11,536            | 373                     |               |           |          |              |           |          |          |
| Jun-10     | 4.47   | 0.00      | 4.47      |              | 2,558             | 106                     |               |           |          |              |           |          |          |
| Jul-10     | 0.00   | 0.00      | 0.00      |              | -                 | -                       |               |           |          |              |           |          |          |
| Aug-10     | 1.76   | 0.00      | 1.76      |              | 969               | 49                      |               |           |          |              |           |          |          |
| Sep-10     | 57.26  | 38.25     | 19.01     |              | 44,893            | 38,368                  |               |           |          |              |           |          |          |
| Oct-10     | 51.75  | 27.85     | 23.90     |              | 47,550            | 25,297                  |               |           |          |              |           |          |          |
| Nov-10     | 54.54  | 26.18     | 28.36     |              | 59,655            | 27,757                  |               |           |          |              |           |          |          |
| Dec-10     | 200.18 | 167.46    | 32.72     | 213.70       | 175,289           | 69,350                  | 456,430       | 210,783   | 245,648  | 2,135.85     | 986.35    | 1,149.50 | 0.538193 |
|            | 546.86 |           | 213.70    |              |                   |                         |               |           |          |              |           |          |          |
| Jan-11     | 57.47  | 32.75     | 24.72     |              | 51,824            | 20,156                  |               |           |          |              |           |          |          |
| Feb-11     | 42.36  | 4.10      | 38.26     |              | 31,817            | 2,539                   |               |           |          |              |           |          |          |
| Mar-11     | 71.71  | 30.29     | 41.42     |              | 110,721           | 22,652                  |               |           |          |              |           |          |          |
| Apr-11     | 17.46  | 3.10      | 14.36     |              | 18,170            | 3,681                   |               |           |          |              |           |          |          |
| May-11     | 29.78  | 14.53     | 15.25     |              | 29,306            | 9,547                   |               |           |          |              |           |          |          |
| Jun-11     | 1.39   | 0.00      | 1.39      |              | 3,473             | 112                     |               |           |          |              |           |          |          |
| Jul-11     | 0.57   | 0.00      | 0.57      |              | 975               | 27                      |               |           |          |              |           |          |          |
| Aug-11     | 0.00   | 0.00      | 0.00      |              | -                 | -                       |               |           |          |              |           |          |          |
| Sep-11     | 1.66   | 0.00      | 1.66      |              | 746               | 21                      |               |           |          |              |           |          |          |
| Oct-11     | 6.13   | 0.00      | 6.13      |              | 9,006             | 459                     |               |           |          |              |           |          |          |
| Nov-11     | 110.40 | 83.68     | 26.72     |              | 111,526           | 80,640                  |               |           |          |              |           |          |          |
| Dec-11     | 18.37  | 1.66      | 16.71     | 187.19       | 9,395             | 5,074                   | 376,960       | 144,908   | 232,052  | 2,013.78     | 774.12    | 1,239.66 | 0.615587 |
|            | 357.30 |           | 187.19    |              |                   |                         |               |           |          |              |           |          |          |

Inflow = total untreated sewage flowing into Elliott CSO for storage or treatment

Discharge = total sewage treated at DW CSO and discharged to Elliott Bay

Ret. = total untreated sewage returned to the interceptor and transmitted to West Point for treatment

## Flow Statistics for West Point Treatment Plant

Source Contact: Douglas Hilderbrand - Industrial Waste - NPDES Permit Reporting  
Source File: Plant Historical Flows & TSS (2006 - 2011 Actuals)

| Year                                 | Flow<br>gal. (000's) | TSS<br>lbs. | Tons Per<br>(million gals) | Source          |
|--------------------------------------|----------------------|-------------|----------------------------|-----------------|
| 2007                                 | 35,816,570           | 59,027,548  | 0.824                      | NPDES Reporting |
| 2008                                 | 33,471,110           | 64,882,077  | 0.969                      | NPDES Reporting |
| 2009                                 | 33,566,070           | 60,306,401  | 0.898                      | NPDES Reporting |
| 2010                                 | 37,202,450           | 60,062,465  | 0.807                      | NPDES Reporting |
| 2011 Est.                            | 36,548,732           | 61,780,834  | 0.845                      | NPDES Reporting |
| 2012 Budget                          | 33,908,500           |             |                            |                 |
| <b>Five Year Average 2007 - 2011</b> |                      |             | <b>0.869</b>               |                 |

|      | Flow NPDES Rep Annual Flow (Million Gallons) |        |        |        |        | TSS NPDES Rep Annual TSS (Pounds) |            |            |            |            |
|------|----------------------------------------------|--------|--------|--------|--------|-----------------------------------|------------|------------|------------|------------|
|      | 2007                                         | 2008   | 2009   | 2010   | 2011   | 2007                              | 2008       | 2009       | 2010       | 2011       |
| Jan  | 4,159                                        | 3,781  | 3,329  | 4,832  | 3,945  | 4,786,653                         | 4,194,405  | 5,358,489  | 5,964,358  | 5,198,405  |
| Feb  | 2,710                                        | 2,525  | 2,221  | 3,128  | 2,992  | 4,543,686                         | 5,138,600  | 4,316,436  | 4,695,934  | 4,666,825  |
| Mar  | 3,478                                        | 3,093  | 2,846  | 2,986  | 4,611  | 5,134,169                         | 5,545,341  | 4,556,650  | 4,856,246  | 5,730,253  |
| Apr  | 2,649                                        | 2,705  | 3,042  | 2,977  | 3,520  | 4,949,129                         | 5,437,511  | 5,352,372  | 4,916,310  | 5,607,149  |
| May  | 2,715                                        | 2,793  | 3,185  | 2,899  | 3,234  | 5,638,049                         | 5,846,699  | 5,073,386  | 5,222,897  | 5,610,657  |
| June | 2,470                                        | 2,824  | 1,977  | 2,770  | 2,760  | 5,356,121                         | 5,959,393  | 4,089,420  | 5,128,081  | 5,708,563  |
| July | 2,530                                        | 2,473  | 2,055  | 2,175  | 2,512  | 5,316,683                         | 5,775,837  | 4,593,172  | 4,443,667  | 5,677,472  |
| Aug  | 2,379                                        | 2,685  | 2,215  | 2,191  | 2,344  | 4,999,750                         | 5,844,416  | 5,191,058  | 4,586,508  | 5,454,160  |
| Sept | 2,585                                        | 2,251  | 2,265  | 2,613  | 2,040  | 4,679,023                         | 5,144,695  | 4,967,723  | 4,902,807  | 4,593,672  |
| Oct  | 2,793                                        | 2,376  | 2,794  | 2,798  | 2,363  | 4,798,280                         | 5,726,248  | 5,569,467  | 6,138,110  | 4,926,855  |
| Nov  | 2,793                                        | 2,970  | 4,704  | 3,090  | -      | 3,773,796                         | 5,375,083  | 4,119,477  | 3,787,800  | -          |
| Dec  | 4,555                                        | 2,994  | 2,933  | 4,743  | 6,227  | 5,052,209                         | 4,893,851  | 7,118,749  | 5,419,748  | 8,606,823  |
|      | 35,817                                       | 33,471 | 33,566 | 37,202 | 36,549 | 59,027,548                        | 64,882,077 | 60,306,401 | 60,062,465 | 61,780,834 |

Estimated 2011 Nov - Dec based on historical trends (data not final)

|                                      |       |       |       |       |       |       |       |       |       |       |
|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Nov-Dec % annual                     | 20.5% | 17.8% | 22.8% | 21.1% |       | 15.0% | 15.8% | 18.6% | 15.3% |       |
| Nov-Dec average % annual 2007 - 2010 |       |       |       |       | 20.5% |       |       |       |       | 16.2% |

**Allocation Of West Division Administration**

|                                                             | 2010<br>Actual     | 2011<br>Budget     | 2012<br>Budget     |
|-------------------------------------------------------------|--------------------|--------------------|--------------------|
| West Division Manager Section Total Expenses                | \$6,699,569        | \$6,853,405        | \$7,332,003        |
| Less: Flow Applied Amounts & Non-admin. Expenses            |                    |                    |                    |
| 53520 Electricity                                           | (2,916,445)        | (2,745,726)        | (3,470,712)        |
| 53530 Water/Sewer                                           | (36,524)           | (35,000)           | (36,050)           |
| 53540 Solid Waste Disposal                                  | (24,046)           | (22,000)           | (22,660)           |
| 53132 Edmonds Transfer Flow                                 | (196,571)          | (235,000)          | (117,500)          |
| <b>Net Division Manager Section Expenses For Allocation</b> | <b>\$3,525,984</b> | <b>\$3,815,679</b> | <b>\$3,685,081</b> |
| West Division Total Labor Expense (Accounts 511XX)          | \$10,853,326       | \$10,748,777       | \$10,366,815       |
| Less: Division Manager Labor (Accounts 511XX)               | (1,837,734)        | (1,668,911)        | (1,547,043)        |
| <b>Allocation Base</b>                                      | <b>\$9,015,591</b> | <b>\$9,079,866</b> | <b>\$8,819,772</b> |
| <b>Allocation % Per Labor Dollar</b>                        | <b>39.1%</b>       | <b>42.0%</b>       | <b>41.8%</b>       |
| <b>Elliot West Labor (Accounts 511XX)</b>                   | <b>\$128,360</b>   | <b>\$139,161</b>   | <b>\$143,336</b>   |
| <b>Elliot West CSO Allocation Of West Administration</b>    |                    |                    | <b>\$59,889</b>    |

|                                    |                              |              |
|------------------------------------|------------------------------|--------------|
| <b>South Plant</b>                 |                              |              |
|                                    | Flow                         | \$6,239,724  |
|                                    | Maintenance                  | \$5,769,062  |
|                                    | Solids Haul and Application* | \$1,257,920  |
|                                    | Total                        | \$13,266,706 |
|                                    | per mg                       | <b>\$478</b> |
| <b>Local Hazardous Waste</b>       | per mg (2012 rate)           | \$45.79      |
| <b>Pump Stations</b>               |                              |              |
|                                    | Henderson                    | \$48         |
|                                    | Interurban                   | \$128        |
| <b>Total per MG***</b>             |                              | <b>\$700</b> |
| <b>Henderson Tunnel Facilities</b> |                              | \$8,599      |

\* adjusted for 52 percent of normal solids content

\*\* total South flow 27,777 mg

\*\*\* Does not include Henderson Tunnel Facilities

| Sum of WTD_PA_Actuals: Burdened Amount |                            |                                |            |           |
|----------------------------------------|----------------------------|--------------------------------|------------|-----------|
| Task Number                            | Task Name                  | Expenditure Type               | Total      | Variable  |
| 0.14.30.02                             | HEDERSON INLET CSO         | 52391 MAINTENAN PARTS MATERIAL | 92.34      |           |
|                                        |                            | 53120 MISCELLANEOUS SERVICES   | 1,973.75   |           |
|                                        |                            | 53890 MISC SERVICES CHARGES    | 560.23     |           |
|                                        | HEDERSON INLET CSO Total   |                                | 2,626.32   |           |
|                                        | HENDERSON INLET CSO        | 51110 REGULAR SALARIED EMPLOYE | 10,936.77  |           |
|                                        |                            | 51120 TEMPORARY                | 298.39     |           |
|                                        |                            | 51130 OVERTIME REGULAR         | 832.04     |           |
|                                        |                            | 51143 DUTY ASSIGNMENT          | 11.35      |           |
|                                        |                            | 51144 PAY DIFFERENTIAL PREM    | 2.50       |           |
|                                        |                            | 52202 SUPPLIES MISCELLANEOUS   | 19.40      |           |
|                                        |                            | 52277 SODIUM HYPOCHLORITE      | 5,264.69   | 5264.69   |
|                                        |                            | 52391 MAINTENAN PARTS MATERIAL | 16,573.51  | 16573.51  |
|                                        |                            | 53120 MISCELLANEOUS SERVICES   | 3,734.36   |           |
|                                        |                            | 53320 FREIGHT AND DELIVRY SRV  | 32.19      |           |
|                                        |                            | 53521 ELECTRICITY              | 13,407.04  | 13407.04  |
|                                        |                            | 53522 WATER SEWER              | 1,477.03   | 1477.03   |
|                                        |                            | 53525 NATURAL GAS              | 12,203.37  | 12203.37  |
|                                        |                            | 53610 SERVICES REPR AND MAINT  | 397.00     |           |
|                                        |                            | 53813 PERMITS LICENSES         | 208.00     |           |
|                                        |                            | 82100 EMPLOYER PAID BENEFITS   | 3,834.29   |           |
|                                        |                            | 82200 PAID TIME OFF            | 2,290.46   |           |
|                                        |                            | 82500 OVERTIME BENEFITS        | 192.45     |           |
|                                        | HENDERSON INLET CSO Total  |                                | 71,714.84  |           |
| 0.14.30.02 Total                       |                            |                                | 74,341.16  |           |
| 0.14.30.03                             | HEDERSON OUTLET CSO        | 52391 MAINTENAN PARTS MATERIAL | 61.31      |           |
|                                        | HEDERSON OUTLET CSO Total  |                                | 61.31      |           |
|                                        | HENDERSON OUTLET CSO       | 51110 REGULAR SALARIED EMPLOYE | 5,250.85   |           |
|                                        |                            | 51130 OVERTIME REGULAR         | 28.51      |           |
|                                        |                            | 52391 MAINTENAN PARTS MATERIAL | 145.02     |           |
|                                        |                            | 53521 ELECTRICITY              | 6,408.19   | 6408.19   |
|                                        |                            | 53522 WATER SEWER              | 5,524.41   | 5524.41   |
|                                        |                            | 53525 NATURAL GAS              | 3,793.08   | 3793.08   |
|                                        |                            | 53610 SERVICES REPR AND MAINT  | 4,129.56   |           |
|                                        |                            | 82100 EMPLOYER PAID BENEFITS   | 1,840.93   |           |
|                                        |                            | 82200 PAID TIME OFF            | 1,002.04   |           |
|                                        |                            | 82500 OVERTIME BENEFITS        | 6.59       |           |
|                                        | HENDERSON OUTLET CSO Total |                                | 28,129.18  |           |
| 0.14.30.03 Total                       |                            |                                | 28,190.49  |           |
| Grand Total                            |                            |                                | 102,531.65 | \$ 64,651 |

[For Ordinance 124966 / CB 118588]

\$ 13,636.71 \$ 8,599



13.3 percent of variable

|                                         |                                   |                     |
|-----------------------------------------|-----------------------------------|---------------------|
| <b>WTD East Operations D4400/S04610</b> |                                   |                     |
|                                         |                                   | <b>Total</b>        |
| IBIS Account (2010, 2011 & 2012)        |                                   | <b>2011 Actual</b>  |
| <b>Total</b>                            |                                   |                     |
|                                         |                                   | <b>\$23,847,635</b> |
| <b>East Manager 4410/461060</b>         |                                   |                     |
| 51110                                   | Salaries-Regular                  | 1,304,321           |
| 51115                                   | Retro Labor Accrual               |                     |
| 51120                                   | Temporary                         |                     |
| 51130                                   | Salaries-Overtime                 | 4,117               |
| 51143                                   | Duty Assignment                   |                     |
| 51144                                   | Shift Differential                | 5                   |
| 51156                                   | Budgeted Salary Savings           |                     |
| 51157                                   | Productivity/Gain Sharing Payment | 1,137               |
| 51161                                   | Vacation Expense                  | 86,603              |
| 51162                                   | Sick Leave Expense                | 92,251              |
| 51163                                   | Holiday Pay                       |                     |
| 51164                                   | Jury Duty                         | 797                 |
| 51165                                   | Military Leave                    |                     |
| 51166                                   | Funeral Leave                     | 4,246               |
| 51168                                   | Furlough Replacement Time         | 20,116              |
| 51169                                   | Other Paid Time Off               | 209,186             |
| 51194                                   | Loan Out Labor(Manual)            |                     |
| 51304                                   | Excess Compensation               |                     |
| 51305                                   | Supplemental 587 Worker'S Comp    |                     |
| 51315                                   | Flex Benefit Combined Chg         | 262,583             |
| 51320                                   | Oasi/Fica                         | 121,408             |
| 51330                                   | Retirement                        | 106,851             |
| 51331                                   | Pers 1 Bene-Vac/SI Payoff         |                     |
| 51335                                   | Pension Trust 117rwt              | 31,108              |
| 51340                                   | Industrial Insurance/Sspf         |                     |
| 51370                                   | Unemployment Compensation         |                     |
| 51380                                   | Uniform Allowance                 |                     |
| 51392                                   | Retro Benefit Accrual             |                     |
| 51395                                   | Manual Benefit Budget Adjustment  |                     |
| 51396                                   | Salary & Wage Reserve             |                     |
| <b>Salaries &amp; Benefits</b>          |                                   | <b>2,244,729</b>    |
| 52110                                   | Office Supplies                   | 23,928              |
| 52170                                   | Copy Machine Supplies             |                     |
| 52180                                   | Equip-Furn < \$5k Minor           | 2,240               |
| 52183                                   | Dept Non-Ivis Cntr Eq<\$5k        |                     |
| 52187                                   | Dept Cntr'BI Eqpt <\$5k Id# Reqd  | 36,256              |
| 52190                                   | Software < \$25k/Unit             | 709                 |
| 52191                                   | Minor Upgrades/Repairs It Equip   |                     |
| 52205                                   | Food                              | 1,364               |
| 52207                                   | Photographic Supplies             |                     |
| 52210                                   | Recreation Supplies               |                     |
| 52212                                   | Edp/Computer Supplies             | 1,352               |
| 52215                                   | Books/Subscriptions               | 339                 |
| 52216                                   | Security Electrncs Suppls         |                     |
| 52217                                   | Safety Materials                  | 1,897               |
| 52218                                   | Laboratory Supplies               |                     |
| 52220                                   | Equip O-M Acct                    |                     |
| 52222                                   | Radio Parts                       |                     |
| 52223                                   | Gasoline                          | 19,910              |
| 52224                                   | Motor Oil                         |                     |

| WTD East Operations D4400/S04610 |                                |                |             |
|----------------------------------|--------------------------------|----------------|-------------|
|                                  |                                |                | Total       |
| IBIS Account (2010, 2011 & 2012) |                                |                | 2011 Actual |
| 52225                            | Tires/Tubes                    |                |             |
| 52226                            | Batteries                      |                |             |
| 52227                            | Diesel Fuel                    | 39,908         |             |
| 52230                            | Propane                        | 40,035         |             |
| 52233                            | Grease                         |                |             |
| 52234                            | Anti-Freeze                    |                |             |
| 52235                            | Cleaning Material              |                |             |
| 52236                            | Glass                          |                |             |
| 52240                            | Transit Passes                 |                |             |
| 52270                            | Odor Control Chemicals         |                |             |
| 52271                            | Chlorine                       |                |             |
| 52272                            | Thickening Polymer             |                |             |
| 52273                            | Water Reuse Chem               |                |             |
| 52274                            | Chemicals-Misc                 | 12,717         |             |
| 52275                            | Liquid Oxygen                  |                |             |
| 52277                            | Sodium Hypochlorite            |                |             |
| 52278                            | Dewatering Polymer             |                |             |
| 52279                            | Sodium Bisulfite               |                |             |
| 52280                            | Caustic Soda                   |                |             |
| 52281                            | Carbon                         |                |             |
| 52282                            | Bioxide                        |                |             |
| 52290                            | Supplies-Misc                  | 44,312         |             |
| 52291                            | Telcom Supplies                |                |             |
| 52310                            | Road Materials/Supplies        |                |             |
| 52320                            | Bldg Maint Supplies            |                |             |
| 52380                            | Small Tools                    | 98             |             |
| 52390                            | Repair/Maint Supplies          | 2,316          |             |
| 52391                            | Maintenance Parts/Materials    | 153,678        |             |
|                                  | <b>Supplies</b>                | <b>381,060</b> |             |
| 53101                            | Legal Services                 |                |             |
| 53102                            | Banking Services               |                |             |
| 53104                            | Consulting Services            | 1,610          |             |
| 53105                            | Professional Services          | 108,267        |             |
| 53106                            | Edp-Microfiche/Film Svc        |                |             |
| 53108                            | Construction Contracts         | 53,855         |             |
| 53114                            | Engineering                    | 663            |             |
| 53117                            | Temporary Help                 |                |             |
| 53121                            | Local Agency Project Cost      |                |             |
| 53127                            | It Consulting Services         |                |             |
| 53130                            | Biosolids Haul/Application     |                |             |
| 53131                            | Grit Haul/Disposal             | 303,192        |             |
| 53132                            | Edmonds Transfer Flow          |                |             |
| 53133                            | Black Diamond/Soos Creek Flows |                |             |
| 53134                            | Biosolids Haul                 |                |             |
| 53135                            | Biosolids Application          |                |             |
| 53141                            | Project Mgmt Svcs              |                |             |
| 53180                            | Subcontract-Other              |                |             |
| 53210                            | Telephones                     | 52             |             |
| 53211                            | Telecom Svc-Ongoing Chg        |                |             |
| 53212                            | Telecom Svc-Onetime Chg        |                |             |
| 53213                            | Cell Phone/Pager Services      |                |             |
| 53220                            | Postage                        | 259            |             |
| 53230                            | Advertising Media              |                |             |
| 53310                            | Travel                         | 419            |             |
| 53312                            | Registration For Meetings      |                |             |
| 53318                            | Private Auto Mileage           | 117            |             |

| WTD East Operations D4400/S04610 |                                      |                  |
|----------------------------------|--------------------------------------|------------------|
|                                  |                                      | Total            |
| IBIS Account (2010, 2011 & 2012) |                                      | 2011 Actual      |
| 53320                            | Freight & Delivery Svc               | 835              |
| 53330                            | Purchased Transportation             |                  |
| 53390                            | Misc Transportation Costs            |                  |
| 53490                            | Insurance Premiums                   |                  |
| 53510                            | Natural Gas                          | 1,270,390        |
| 53520                            | Electricity                          | 3,937,625        |
| 53530                            | Water/Sewer                          | 424,059          |
| 53540                            | Solid Waste Disposal                 | 865              |
| 53545                            | Hazardous Waste Disposal             | 4,339            |
| 53547                            | Recyclables Disposal                 |                  |
| 53590                            | Utilities-Misc                       |                  |
| 53620                            | Maint-Buildings                      |                  |
| 53630                            | Repairs/Maintenance Contracts        | 105,866          |
| 53634                            | It Equip-Repair/Maint                |                  |
| 53635                            | Repair/Mnt-Medical Equip             |                  |
| 53636                            | Software Lic/Fees Annual             |                  |
| 53640                            | Laundry Services                     | 433              |
| 53690                            | Repair/Maint-Other                   |                  |
| 53710                            | Office Rental                        |                  |
| 53711                            | Park/Ride Lot Rental                 |                  |
| 53740                            | Rent-EDP Equip                       | 32               |
| 53770                            | Rent-Copy Machine                    |                  |
| 53790                            | Leases/Rentals-Misc                  | 40,012           |
| 53802                            | Judgments/Claims                     |                  |
| 53803                            | Dues/Memberships                     | 10,525           |
| 53804                            | Judgement/Claims-Non Reprtble        |                  |
| 53806                            | Printing                             |                  |
| 53807                            | Permits/Licenses                     | 582,731          |
| 53808                            | Taxes/Assessments-Misc               | 5,115            |
| 53809                            | State Business Tax                   |                  |
| 53810                            | Training Costs                       | 6,715            |
| 53811                            | Tuition Reimbursement                |                  |
| 53812                            | Fines/Penalties                      |                  |
| 53813                            | It Training                          |                  |
| 53814                            | Memberships/Dues IT                  |                  |
| 53817                            | Arts/Graphics                        |                  |
| 53833                            | Healthy Workplace Chgs               |                  |
| 53864                            | Employee Business Expense            |                  |
| 53890                            | Services-Misc                        | 63,674           |
| 53891                            | Arbitrage Tax                        |                  |
|                                  | <b>Services/Other Charges</b>        | <b>6,921,650</b> |
| 54985                            | Grants to Others                     |                  |
|                                  | <b>Contributions Other</b>           | <b>0</b>         |
| 55010                            | Motor Pool                           |                  |
| 55020                            | Oirm Ops Rebate [Its O&M Allocation] |                  |
| 55021                            | Computer Use                         |                  |
| 55025                            | Computer Infrastructure              |                  |
| 55026                            | Gis O-M Development                  |                  |
| 55027                            | Tech Service Rebate                  |                  |
| 55028                            | Info Resource Mgmt                   |                  |
| 55029                            | Telecom Rebate                       |                  |
| 55032                            | Telcom Overhead                      |                  |
| 55033                            | Technical Publications               |                  |
| 55034                            | Laboratory Analysis                  |                  |
| 55040                            | Parking Garage Rentals               |                  |
| 55044                            | Wastewater Equipment Rental          | 36,504           |

| WTD East Operations D4400/S04610            |                                   |                    |
|---------------------------------------------|-----------------------------------|--------------------|
|                                             |                                   | <b>Total</b>       |
| IBIS Account (2010, 2011 & 2012)            |                                   | <b>2011 Actual</b> |
| 55050                                       | Road Equip Er & R                 |                    |
| 55134                                       | Parks                             |                    |
| 55142                                       | Human Resources Mgmt              |                    |
| 55144                                       | Property Services                 |                    |
| 55145                                       | Facilities Management             |                    |
| 55150                                       | Prosecuting Attorney              |                    |
| 55159                                       | Fmd Copy Center                   | 1,137              |
| 55201                                       | Central Services Overhead         |                    |
| 55203                                       | Dot Road Services                 |                    |
| 55204                                       | Solid Waste Service Support       |                    |
| 55221                                       | Surface Water Management          |                    |
| 55228                                       | Local Hazardous Waste Svc/Sppt    |                    |
| 55240                                       | Ltd G O Bond Redemp Svc/Sppt      |                    |
| 55245                                       | Financial Mgmt Svcs/Sppt          |                    |
| 55247                                       | KCIT Services                     |                    |
| 55249                                       | Fmd Strategic Initiatv Fee        |                    |
| 55252                                       | Insurance - Svc/Sppt              |                    |
| 55255                                       | Financial Mgmt Svcs Rebate        |                    |
| 55257                                       | Public Works Er & R Svc/Sppt      | 5,411              |
| 55258                                       | Motor Pool Er & R Svc/Sppt        |                    |
| 55260                                       | Printing/Graphic Arts Svc/Sppt    |                    |
| 55263                                       | Printing Loan Recovery            |                    |
| 55280                                       | Public Health Svc/Sppt            |                    |
| 55331                                       | Building Mod Rent Reimb           |                    |
| 55342                                       | Major Building Reserve            |                    |
| 55345                                       | Inet Operating                    |                    |
| 55349                                       | Business Resource Dp Svcs         |                    |
| 55350                                       | Radio Access                      | 12,081             |
| 55351                                       | Radio Maintenance                 | 4,614              |
| 55352                                       | Radio Services-General            | 5,671              |
| 55353                                       | Radio Equipment                   |                    |
| 55440                                       | Dnr-Water Quality Division        |                    |
| 55459                                       | Natural Resources Overhead        |                    |
| 55461                                       | Transportation Admin              |                    |
| 55998                                       | Intragovmntl Svc Reimbrmt         |                    |
| 57402                                       | Interest Expense                  |                    |
| 58001                                       | T/T Current Expense               |                    |
| 58040                                       | Transfer To Lmted Tax Go Bond Rdm |                    |
| 58077                                       | T/T OIRM CIP-Specific Prj         |                    |
| 58145                                       | T/T Parks Operating               |                    |
|                                             | <b>Intragovernmental Service</b>  | <b>65,417</b>      |
| 59411                                       | COLA                              |                    |
| 59412                                       | Merit                             |                    |
| 59895                                       | Salary & Wage Contingency         |                    |
| 59899                                       | Contingency Reserve               |                    |
| 59987                                       | Correctn Ordinance Contra         |                    |
| 59990                                       | Expense Reclass                   | (3)                |
| 59999                                       | Loan Out Labor                    |                    |
|                                             | <b>Contras/Contingencies</b>      | <b>(3)</b>         |
| <b>TOTAL East Manager 4410/461060</b>       |                                   | <b>9,612,853</b>   |
|                                             |                                   |                    |
|                                             |                                   |                    |
| <b>A Crew South 4421/A Crew East 461070</b> |                                   |                    |
| 51110                                       | Salaries-Regular                  | 373,244            |

| WTD East Operations D4400/S04610 |                                   |                |
|----------------------------------|-----------------------------------|----------------|
|                                  |                                   | Total          |
| IBIS Account (2010, 2011 & 2012) |                                   | 2011 Actual    |
| 51115                            | Retro Labor Accrual               |                |
| 51120                            | Temporary                         |                |
| 51130                            | Salaries-Overtime                 | 91,609         |
| 51143                            | Duty Assignment                   |                |
| 51144                            | Shift Differential                | 720            |
| 51156                            | Budgeted Salary Savings           |                |
| 51157                            | Productivity/Gain Sharing Payment | 816            |
| 51161                            | Vacation Expense                  | 10,021         |
| 51162                            | Sick Leave Expense                | 2,125          |
| 51163                            | Holiday Pay                       |                |
| 51164                            | Jury Duty                         |                |
| 51165                            | Military Leave                    |                |
| 51166                            | Funeral Leave                     | 369            |
| 51168                            | Furlough Replacement Time         |                |
| 51169                            | Other Paid Time Off               | 69,922         |
| 51194                            | Loan Out Labor(Manual)            |                |
| 51304                            | Excess Compensation               |                |
| 51305                            | Supplemental 587 Worker'S Comp    |                |
| 51315                            | Flex Benefit Combined Chg         | 83,760         |
| 51320                            | Oasi/Fica                         | 40,554         |
| 51330                            | Retirement                        | 34,017         |
| 51331                            | Pers 1 Bene-Vac/Sl Payoff         |                |
| 51335                            | Pension Trust 117rwt              | 2,329          |
| 51340                            | Industrial Insurance/Sspf         |                |
| 51370                            | Unemployment Compensation         |                |
| 51380                            | Uniform Allowance                 |                |
| 51392                            | Retro Benefit Accrual             |                |
| 51395                            | Manual Benefit Budget Adjustment  |                |
| 51396                            | Salary & Wage Reserve             |                |
| <b>Salaries &amp; Benefits</b>   |                                   | <b>709,486</b> |
| 52110                            | Office Supplies                   |                |
| 52170                            | Copy Machine Supplies             |                |
| 52180                            | Equip-Furn < \$5k Minor           |                |
| 52183                            | Dept Non-Ivis Cntr Eq<\$5k        |                |
| 52187                            | Dept Cntr'Bl Eqpt <\$5k Id# Reqd  |                |
| 52190                            | Software < \$25k/Unit             |                |
| 52191                            | Minor Upgrades/Repairs It Equip   |                |
| 52205                            | Food                              |                |
| 52207                            | Photographic Supplies             |                |
| 52210                            | Recreation Supplies               |                |
| 52212                            | Edp/Computer Supplies             |                |
| 52215                            | Books/Subscriptions               |                |
| 52216                            | Security Electrncs Suppls         |                |
| 52217                            | Safety Materials                  | 321            |
| 52218                            | Laboratory Supplies               |                |
| 52220                            | Equip O-M Acct                    |                |
| 52222                            | Radio Parts                       |                |
| 52223                            | Gasoline                          |                |
| 52224                            | Motor Oil                         |                |
| 52225                            | Tires/Tubes                       |                |
| 52226                            | Batteries                         |                |
| 52227                            | Diesel Fuel                       |                |
| 52230                            | Propane                           |                |
| 52233                            | Grease                            |                |
| 52234                            | Anti-Freeze                       |                |
| 52235                            | Cleaning Material                 |                |

| WTD East Operations D4400/S04610 |                                  |                                |             |
|----------------------------------|----------------------------------|--------------------------------|-------------|
|                                  |                                  |                                | Total       |
|                                  | IBIS Account (2010, 2011 & 2012) |                                | 2011 Actual |
|                                  | 52236                            | Glass                          | 516         |
|                                  | 52240                            | Transit Passes                 |             |
|                                  | 52270                            | Odor Control Chemicals         |             |
|                                  | 52271                            | Chlorine                       |             |
|                                  | 52272                            | Thickening Polymer             |             |
|                                  | 52273                            | Water Reuse Chem               |             |
|                                  | 52274                            | Chemicals-Misc                 |             |
|                                  | 52275                            | Liquid Oxygen                  |             |
|                                  | 52277                            | Sodium Hypochlorite            |             |
|                                  | 52278                            | Dewatering Polymer             |             |
|                                  | 52279                            | Sodium Bisulfite               |             |
|                                  | 52280                            | Caustic Soda                   |             |
|                                  | 52281                            | Carbon                         |             |
|                                  | 52282                            | Bioxide                        |             |
|                                  | 52290                            | Supplies-Misc                  |             |
|                                  | 52291                            | Telcom Supplies                |             |
|                                  | 52310                            | Road Materials/Supplies        |             |
|                                  | 52320                            | Bldg Maint Supplies            |             |
|                                  | 52380                            | Small Tools                    |             |
|                                  | 52390                            | Repair/Maint Supplies          |             |
|                                  | 52391                            | Maintenance Parts/Materials    |             |
|                                  |                                  | Supplies                       | 8,633       |
|                                  | 53101                            | Legal Services                 | 220         |
|                                  | 53102                            | Banking Services               |             |
|                                  | 53104                            | Consulting Services            |             |
|                                  | 53105                            | Professional Services          |             |
|                                  | 53106                            | Edp-Microfiche/Film Svc        |             |
|                                  | 53108                            | Construction Contracts         |             |
|                                  | 53114                            | Engineering                    |             |
|                                  | 53117                            | Temporary Help                 |             |
|                                  | 53121                            | Local Agency Project Cost      |             |
|                                  | 53127                            | It Consulting Services         |             |
|                                  | 53130                            | Biosolids Haul/Application     |             |
|                                  | 53131                            | Grit Haul/Disposal             |             |
|                                  | 53132                            | Edmonds Transfer Flow          |             |
|                                  | 53133                            | Black Diamond/Soos Creek Flows |             |
|                                  | 53134                            | Biosolids Haul                 |             |
|                                  | 53135                            | Biosolids Application          |             |
|                                  | 53141                            | Project Mgmt Svcs              |             |
|                                  | 53180                            | Subcontract-Other              |             |
|                                  | 53210                            | Telephones                     |             |
|                                  | 53211                            | Telecom Svc-Ongoing Chg        |             |
|                                  | 53212                            | Telecom Svc-Onetime Chg        |             |
|                                  | 53213                            | Cell Phone/Pager Services      |             |
|                                  | 53220                            | Postage                        |             |
|                                  | 53230                            | Advertising Media              |             |
|                                  | 53310                            | Travel                         |             |
|                                  | 53312                            | Registration For Meetings      |             |
|                                  | 53318                            | Private Auto Mileage           |             |
|                                  | 53320                            | Freight & Delivery Svc         |             |
|                                  | 53330                            | Purchased Transportation       |             |
|                                  | 53390                            | Misc Transportation Costs      |             |
|                                  | 53490                            | Insurance Premiums             |             |
|                                  | 53510                            | Natural Gas                    |             |
|                                  | 53520                            | Electricity                    |             |
|                                  | 53530                            | Water/Sewer                    |             |

| WTD East Operations D4400/S04610 |                                      |              |
|----------------------------------|--------------------------------------|--------------|
|                                  |                                      | Total        |
| IBIS Account (2010, 2011 & 2012) |                                      | 2011 Actual  |
| 53540                            | Solid Waste Disposal                 |              |
| 53545                            | Hazardous Waste Disposal             |              |
| 53547                            | Recyclables Disposal                 |              |
| 53590                            | Utilities-Misc                       |              |
| 53620                            | Maint-Buildings                      |              |
| 53630                            | Repairs/Maintenance Contracts        |              |
| 53634                            | It Equip-Repair/Maint                |              |
| 53635                            | Repair/Mnt-Medical Equip             |              |
| 53636                            | Software Lic/Fees Annual             |              |
| 53640                            | Laundry Services                     | 1,421        |
| 53690                            | Repair/Maint-Other                   |              |
| 53710                            | Office Rental                        |              |
| 53711                            | Park/Ride Lot Rental                 |              |
| 53740                            | Rent-EDP Equip                       |              |
| 53770                            | Rent-Copy Machine                    |              |
| 53790                            | Leases/Rentals-Misc                  |              |
| 53802                            | Judgments/Claims                     |              |
| 53803                            | Dues/Memberships                     |              |
| 53804                            | Judgement/Claims-Non Reprtbl         |              |
| 53806                            | Printing                             |              |
| 53807                            | Permits/Licenses                     |              |
| 53808                            | Taxes/Assessments-Misc               |              |
| 53809                            | State Business Tax                   |              |
| 53810                            | Training Costs                       | 360          |
| 53811                            | Tuition Reimbursement                |              |
| 53812                            | Fines/Penalties                      |              |
| 53813                            | It Training                          |              |
| 53814                            | Memberships/Dues IT                  |              |
| 53817                            | Arts/Graphics                        |              |
| 53833                            | Healthy Workplace Chgs               |              |
| 53864                            | Employee Business Expense            | 39           |
| 53890                            | Services-Misc                        | 103          |
| 53891                            | Arbitrage Tax                        |              |
|                                  | <b>Services/Other Charges</b>        | <b>2,143</b> |
| 54985                            | Grants to Others                     |              |
|                                  | <b>Contributions Other</b>           | <b>0</b>     |
| 55010                            | Motor Pool                           |              |
| 55020                            | Qirm Ops Rebate [Its O&M Allocation] |              |
| 55021                            | Computer Use                         |              |
| 55025                            | Computer Infrastructure              |              |
| 55026                            | Gis O-M Development                  |              |
| 55027                            | Tech Service Rebate                  |              |
| 55028                            | Info Resource Mgmt                   |              |
| 55029                            | Telecom Rebate                       |              |
| 55032                            | Telcom Overhead                      |              |
| 55033                            | Technical Publications               |              |
| 55034                            | Laboratory Analysis                  |              |
| 55040                            | Parking Garage Rentals               |              |
| 55044                            | Wastewater Equipment Rental          | 7,272        |
| 55050                            | Road Equip Er & R                    |              |
| 55134                            | Parks                                |              |
| 55142                            | Human Resources Mgmt                 |              |
| 55144                            | Property Services                    |              |
| 55145                            | Facilities Management                |              |
| 55150                            | Prosecuting Attorney                 |              |
| 55159                            | Fmd Copy Center                      |              |

| WTD East Operations D4400/S04610     |                                  |                                  |             |
|--------------------------------------|----------------------------------|----------------------------------|-------------|
|                                      |                                  |                                  | Total       |
|                                      | IBIS Account (2010, 2011 & 2012) |                                  | 2011 Actual |
|                                      | 55201                            | Central Services Overhead        |             |
|                                      | 55203                            | Dot Road Services                |             |
|                                      | 55204                            | Solid Waste Service Support      |             |
|                                      | 55221                            | Surface Water Management         |             |
|                                      | 55228                            | Local Hazardous Waste Svc/Sppt   |             |
|                                      | 55240                            | Ltd G O Bond Redemp Svc/Sppt     |             |
|                                      | 55245                            | Financial Mgmt Svcs/Sppt         |             |
|                                      | 55247                            | KCIT Services                    |             |
|                                      | 55249                            | Fmd Strategic Initiatv Fee       |             |
|                                      | 55252                            | Insurance - Svc/Sppt             |             |
|                                      | 55255                            | Financial Mgmt Svcs Rebate       |             |
|                                      | 55257                            | Public Works Er & R Svc/Sppt     |             |
|                                      | 55258                            | Motor Pool Er & R Svc/Sppt       |             |
|                                      | 55260                            | Printing/Graphic Arts Svc/Sppt   |             |
|                                      | 55263                            | Printing Loan Recovery           |             |
|                                      | 55280                            | Public Health Svc/Sppt           |             |
|                                      | 55331                            | Building Mod Rent Reimb          |             |
|                                      | 55342                            | Major Building Reserve           |             |
|                                      | 55345                            | Inet Operating                   |             |
|                                      | 55349                            | Business Resource Dp Svcs        |             |
|                                      | 55350                            | Radio Access                     |             |
|                                      | 55351                            | Radio Maintenance                |             |
|                                      | 55352                            | Radio Services-General           |             |
|                                      | 55353                            | Radio Equipment                  |             |
|                                      | 55440                            | Dnr-Water Quality Division       |             |
|                                      | 55459                            | Natural Resources Overhead       |             |
|                                      | 55461                            | Transportation Admin             |             |
|                                      | 55998                            | Intragovmntl Svc Reimbrmt        |             |
|                                      | 57402                            | Interest Expense                 |             |
|                                      | 58001                            | T/T Current Expense              |             |
|                                      | 58040                            | Transfer To Lmtd Tax Go Bond Rdm |             |
|                                      | 58077                            | T/T OIRM CIP-Specific Prj        |             |
|                                      | 58145                            | T/T Parks Operating              |             |
|                                      |                                  | Intragovernmental Service        | 7,272       |
|                                      | 59411                            | COLA                             |             |
|                                      | 59412                            | Merit                            |             |
|                                      | 59895                            | Salary & Wage Contingency        |             |
|                                      | 59899                            | Contingency Reserve              |             |
|                                      | 59987                            | Correctn Ordinance Contra        |             |
|                                      | 59990                            | Expense Reclass                  | (3,194)     |
|                                      | 59999                            | Loan Out Labor                   |             |
|                                      |                                  | Contras/Contingencies            | (3,194)     |
| TOTAL A Crew                         | South 4421/A Crew East 461070    |                                  | 724,340     |
|                                      |                                  |                                  |             |
|                                      |                                  |                                  |             |
| B Crew South 4422/B Crew East 461071 |                                  |                                  |             |
|                                      | 51110                            | Salaries-Regular                 | 397,563     |
|                                      | 51115                            | Retro Labor Accrual              |             |
|                                      | 51120                            | Temporary                        |             |
|                                      | 51130                            | Salaries-Overtime                | 63,681      |
|                                      | 51143                            | Duty Assignment                  |             |
|                                      | 51144                            | Shift Differential               | 599         |
|                                      | 51156                            | Budgeted Salary Savings          |             |
|                                      | 51157                            | Productivity/Gain Sharina Paymnt | 505         |

| WTD East Operations D4400/S04610 |                                  |  |                |
|----------------------------------|----------------------------------|--|----------------|
|                                  |                                  |  | Total          |
| IBIS Account (2010, 2011 & 2012) |                                  |  | 2011 Actual    |
| 51161                            | Vacation Expense                 |  | 9,710          |
| 51162                            | Sick Leave Expense               |  | 2,028          |
| 51163                            | Holiday Pay                      |  |                |
| 51164                            | Jury Duty                        |  | 417            |
| 51165                            | Military Leave                   |  |                |
| 51166                            | Funeral Leave                    |  | 1,214          |
| 51168                            | Furlough Replacement Time        |  |                |
| 51169                            | Other Paid Time Off              |  | 90,422         |
| 51194                            | Loan Out Labor(Manual)           |  |                |
| 51304                            | Excess Compensation              |  |                |
| 51305                            | Supplemental 587 Worker'S Comp   |  |                |
| 51315                            | Flex Benefit Combined Chg        |  | 85,902         |
| 51320                            | Oasi/Fica                        |  | 42,260         |
| 51330                            | Retirement                       |  | 35,327         |
| 51331                            | Pers 1 Bene-Vac/SI Payoff        |  |                |
| 51335                            | Pension Trust 117rwt             |  | 2,352          |
| 51340                            | Industrial Insurance/Sspf        |  |                |
| 51370                            | Unemployment Compensation        |  |                |
| 51380                            | Uniform Allowance                |  |                |
| 51392                            | Retro Benefit Accrual            |  |                |
| 51395                            | Manual Benefit Budget Adjustment |  |                |
| 51396                            | Salary & Wage Reserve            |  |                |
| <b>Salaries &amp; Benefits</b>   |                                  |  | <b>731,980</b> |
| 52110                            | Office Supplies                  |  |                |
| 52170                            | Copy Machine Supplies            |  |                |
| 52180                            | Equip-Furn < \$5k Minor          |  |                |
| 52183                            | Dept Non-Ivis Cntr Eq<\$5k       |  |                |
| 52187                            | Dept Cntr'BI Eqpt <\$5k Id# Reqd |  |                |
| 52190                            | Software < \$25k/Unit            |  |                |
| 52191                            | Minor Upgrades/Repairs It Equip  |  |                |
| 52205                            | Food                             |  |                |
| 52207                            | Photographic Supplies            |  |                |
| 52210                            | Recreation Supplies              |  |                |
| 52212                            | Edp/Computer Supplies            |  |                |
| 52215                            | Books/Subscriptions              |  |                |
| 52216                            | Security Electrncs Suppls        |  |                |
| 52217                            | Safety Materials                 |  | 716            |
| 52218                            | Laboratory Supplies              |  |                |
| 52220                            | Equip O-M Acct                   |  |                |
| 52222                            | Radio Parts                      |  |                |
| 52223                            | Gasoline                         |  |                |
| 52224                            | Motor Oil                        |  |                |
| 52225                            | Tires/Tubes                      |  |                |
| 52226                            | Batteries                        |  |                |
| 52227                            | Diesel Fuel                      |  |                |
| 52230                            | Propane                          |  |                |
| 52233                            | Grease                           |  |                |
| 52234                            | Anti-Freeze                      |  |                |
| 52235                            | Cleaning Material                |  |                |
| 52236                            | Glass                            |  |                |
| 52240                            | Transit Passes                   |  |                |
| 52270                            | Odor Control Chemicals           |  |                |
| 52271                            | Chlorine                         |  |                |
| 52272                            | Thickening Polymer               |  |                |
| 52273                            | Water Reuse Chem                 |  |                |
| 52274                            | Chemicals-Misc                   |  |                |

| WTD East Operations D4400/S04610 |                                |             |
|----------------------------------|--------------------------------|-------------|
|                                  |                                | Total       |
| IBIS Account (2010, 2011 & 2012) |                                | 2011 Actual |
| 52275                            | Liquid Oxygen                  |             |
| 52277                            | Sodium Hypochlorite            |             |
| 52278                            | Dewatering Polymer             |             |
| 52279                            | Sodium Bisulfite               |             |
| 52280                            | Caustic Soda                   |             |
| 52281                            | Carbon                         |             |
| 52282                            | Bioxide                        |             |
| 52290                            | Supplies-Misc                  | 174         |
| 52291                            | Telcom Supplies                |             |
| 52310                            | Road Materials/Supplies        |             |
| 52320                            | Bldg Maint Supplies            |             |
| 52380                            | Small Tools                    |             |
| 52390                            | Repair/Maint Supplies          |             |
| 52391                            | Maintenance Parts/Materials    |             |
|                                  | <b>Supplies</b>                | <b>890</b>  |
| 53101                            | Legal Services                 |             |
| 53102                            | Banking Services               |             |
| 53104                            | Consulting Services            |             |
| 53105                            | Professional Services          | 55          |
| 53106                            | Edp-Microfiche/Film Svc        |             |
| 53108                            | Construction Contracts         |             |
| 53114                            | Engineering                    |             |
| 53117                            | Temporary Help                 |             |
| 53121                            | Local Agency Project Cost      |             |
| 53127                            | It Consulting Services         |             |
| 53130                            | Biosolids Haul/Application     |             |
| 53131                            | Grit Haul/Disposal             |             |
| 53132                            | Edmonds Transfer Flow          |             |
| 53133                            | Black Diamond/Soos Creek Flows |             |
| 53134                            | Biosolids Haul                 |             |
| 53135                            | Biosolids Application          |             |
| 53141                            | Project Mgmt Svcs              |             |
| 53180                            | Subcontract-Other              |             |
| 53210                            | Telephones                     |             |
| 53211                            | Telecom Svc-Ongoing Chg        |             |
| 53212                            | Telecom Svc-Onetime Chg        |             |
| 53213                            | Cell Phone/Pager Services      |             |
| 53220                            | Postage                        |             |
| 53230                            | Advertising Media              |             |
| 53310                            | Travel                         |             |
| 53312                            | Registration For Meetings      |             |
| 53318                            | Private Auto Mileage           |             |
| 53320                            | Freight & Delivery Svc         |             |
| 53330                            | Purchased Transportation       |             |
| 53390                            | Misc Transportation Costs      |             |
| 53490                            | Insurance Premiums             |             |
| 53510                            | Natural Gas                    |             |
| 53520                            | Electricity                    |             |
| 53530                            | Water/Sewer                    |             |
| 53540                            | Solid Waste Disposal           |             |
| 53545                            | Hazardous Waste Disposal       |             |
| 53547                            | Recyclables Disposal           |             |
| 53590                            | Utilities-Misc                 |             |
| 53620                            | Maint-Buildings                |             |
| 53630                            | Repairs/Maintenance Contracts  |             |
| 53634                            | It Equip-Repair/Maint          |             |

| WTD East Operations D4400/S04610 |                                      |              |
|----------------------------------|--------------------------------------|--------------|
|                                  |                                      | Total        |
| IBIS Account (2010, 2011 & 2012) |                                      | 2011 Actual  |
| 53635                            | Repair/Mnt-Medical Equip             |              |
| 53636                            | Software Lic/Fees Annual             |              |
| 53640                            | Laundry Services                     | 821          |
| 53690                            | Repair/Maint-Other                   |              |
| 53710                            | Office Rental                        |              |
| 53711                            | Park/Ride Lot Rental                 |              |
| 53740                            | Rent-EDP Equip                       |              |
| 53770                            | Rent-Copy Machine                    |              |
| 53790                            | Leases/Rentals-Misc                  |              |
| 53802                            | Judgments/Claims                     |              |
| 53803                            | Dues/Memberships                     |              |
| 53804                            | Judgement/Claims-Non Reprtble        |              |
| 53806                            | Printing                             |              |
| 53807                            | Permits/Licenses                     |              |
| 53808                            | Taxes/Assessments-Misc               |              |
| 53809                            | State Business Tax                   |              |
| 53810                            | Training Costs                       | 856          |
| 53811                            | Tuition Reimbursement                |              |
| 53812                            | Fines/Penalties                      |              |
| 53813                            | It Training                          |              |
| 53814                            | Memberships/Dues IT                  |              |
| 53817                            | Arts/Graphics                        |              |
| 53833                            | Healthy Workplace Chgs               |              |
| 53864                            | Employee Business Expense            |              |
| 53890                            | Services-Misc                        | 10           |
| 53891                            | Arbitrage Tax                        |              |
|                                  | <b>Services/Other Charges</b>        | <b>1,742</b> |
| 54985                            | Grants to Others                     |              |
|                                  | <b>Contributions Other</b>           | <b>0</b>     |
| 55010                            | Motor Pool                           |              |
| 55020                            | Oirm Ops Rebate [Its O&M Allocation] |              |
| 55021                            | Computer Use                         |              |
| 55025                            | Computer Infrastructure              |              |
| 55026                            | Gis O-M Development                  |              |
| 55027                            | Tech Service Rebate                  |              |
| 55028                            | Info Resource Mgmt                   |              |
| 55029                            | Telecom Rebate                       |              |
| 55032                            | Telcom Overhead                      |              |
| 55033                            | Technical Publications               |              |
| 55034                            | Laboratory Analysis                  |              |
| 55040                            | Parking Garage Rentals               |              |
| 55044                            | Wastewater Equipment Rental          |              |
| 55050                            | Road Equip Er & R                    |              |
| 55134                            | Parks                                |              |
| 55142                            | Human Resources Mgmt                 |              |
| 55144                            | Property Services                    |              |
| 55145                            | Facilities Management                |              |
| 55150                            | Prosecuting Attorney                 |              |
| 55159                            | Fmd Copy Center                      |              |
| 55201                            | Central Services Overhead            |              |
| 55203                            | Dot Road Services                    |              |
| 55204                            | Solid Waste Service Support          |              |
| 55221                            | Surface Water Management             |              |
| 55228                            | Local Hazardous Waste Svc/Sppt       |              |
| 55240                            | Ltd G O Bond Redemp Svc/Sppt         |              |
| 55245                            | Financial Mgmt Svcs/Sppt             |              |

| WTD East Operations D4400/S04610                  |                                   |                    |
|---------------------------------------------------|-----------------------------------|--------------------|
|                                                   |                                   | <b>Total</b>       |
| IBIS Account (2010, 2011 & 2012)                  |                                   | <b>2011 Actual</b> |
| 55247                                             | KCIT Services                     |                    |
| 55249                                             | Fmd Strategic Initiatv Fee        |                    |
| 55252                                             | Insurance - Svc/Sppt              |                    |
| 55255                                             | Financial Mgmt Svcs Rebate        |                    |
| 55257                                             | Public Works Er & R Svc/Sppt      |                    |
| 55258                                             | Motor Pool Er & R Svc/Sppt        |                    |
| 55260                                             | Printing/Graphic Arts Svc/Sppt    |                    |
| 55263                                             | Printing Loan Recovery            |                    |
| 55280                                             | Public Health Svc/Sppt            |                    |
| 55331                                             | Building Mod Rent Reimb           |                    |
| 55342                                             | Major Building Reserve            |                    |
| 55345                                             | Inet Operating                    |                    |
| 55349                                             | Business Resource Dp Svcs         |                    |
| 55350                                             | Radio Access                      |                    |
| 55351                                             | Radio Maintenance                 |                    |
| 55352                                             | Radio Services-General            |                    |
| 55353                                             | Radio Equipment                   |                    |
| 55440                                             | Dnr-Water Quality Division        |                    |
| 55459                                             | Natural Resources Overhead        |                    |
| 55461                                             | Transportation Admin              |                    |
| 55998                                             | Intragovmntl Svc Reimbrmt         |                    |
| 57402                                             | Interest Expense                  |                    |
| 58001                                             | T/T Current Expense               |                    |
| 58040                                             | Transfer To Lmtl Tax Go Bond Rdm  |                    |
| 58077                                             | T/T OIRM CIP-Specific Prj         |                    |
| 58145                                             | T/T Parks Operating               |                    |
|                                                   | <b>Intragovernmental Service</b>  | <b>0</b>           |
| 59411                                             | COLA                              |                    |
| 59412                                             | Merit                             |                    |
| 59895                                             | Salary & Wage Contingency         |                    |
| 59899                                             | Contingency Reserve               |                    |
| 59987                                             | Correctn Ordinance Contra         |                    |
| 59990                                             | Expense Reclass                   | (237)              |
| 59999                                             | Loan Out Labor                    |                    |
|                                                   | <b>Contras/Contingencies</b>      | <b>(237)</b>       |
| <b>TOTAL B Crew South 4422/B Crew East 461071</b> |                                   | <b>734,374</b>     |
|                                                   |                                   |                    |
|                                                   |                                   |                    |
| <b>C Crew South 4423/C Crew East 461072</b>       |                                   |                    |
| 51110                                             | Salaries-Regular                  | 417,854            |
| 51115                                             | Retro Labor Accrual               |                    |
| 51120                                             | Temporary                         |                    |
| 51130                                             | Salaries-Overtime                 | 68,998             |
| 51143                                             | Duty Assignment                   |                    |
| 51144                                             | Shift Differential                | 867                |
| 51156                                             | Budgeted Salary Savings           |                    |
| 51157                                             | Productivity/Gain Sharing Payment | 723                |
| 51161                                             | Vacation Expense                  | 10,494             |
| 51162                                             | Sick Leave Expense                | 554                |
| 51163                                             | Holiday Pay                       |                    |
| 51164                                             | Jury Duty                         |                    |
| 51165                                             | Military Leave                    |                    |
| 51166                                             | Funeral Leave                     | 2,498              |
| 51168                                             | Furlough Replacement Time         | 1,899              |

| WTD East Operations D4400/S04610 |                                  |                                  |             |
|----------------------------------|----------------------------------|----------------------------------|-------------|
|                                  |                                  |                                  | Total       |
|                                  |                                  |                                  |             |
|                                  | IBIS Account (2010, 2011 & 2012) |                                  | 2011 Actual |
|                                  | 51169                            | Other Paid Time Off              | 54,569      |
|                                  | 51194                            | Loan Out Labor(Manual)           |             |
|                                  | 51304                            | Excess Compensation              |             |
|                                  | 51305                            | Supplemental 587 Worker'S Comp   |             |
|                                  | 51315                            | Flex Benefit Combined Chg        | 92,476      |
|                                  | 51320                            | Oasi/Fica                        | 41,124      |
|                                  | 51330                            | Retirement                       | 34,072      |
|                                  | 51331                            | Pers 1 Bene-Vac/SI Payoff        |             |
|                                  | 51335                            | Pension Trust 117rwt             | 2,249       |
|                                  | 51340                            | Industrial Insurance/Sspf        |             |
|                                  | 51370                            | Unemployment Compensation        |             |
|                                  | 51380                            | Uniform Allowance                |             |
|                                  | 51392                            | Retro Benefit Accrual            |             |
|                                  | 51395                            | Manual Benefit Budget Adjustment |             |
|                                  | 51396                            | Salary & Wage Reserve            |             |
|                                  | Salaries & Benefits              |                                  | 728,378     |
|                                  | 52110                            | Office Supplies                  |             |
|                                  | 52170                            | Copy Machine Supplies            |             |
|                                  | 52180                            | Equip-Furn < \$5k Minor          |             |
|                                  | 52183                            | Dept Non-Ivis Cntr Eq<\$5k       |             |
|                                  | 52187                            | Dept Cntr'Bl Eqpt <\$5k Id# Reqd |             |
|                                  | 52190                            | Software < \$25k/Unit            |             |
|                                  | 52191                            | Minor Upgrades/Repairs It Equip  |             |
|                                  | 52205                            | Food                             |             |
|                                  | 52207                            | Photographic Supplies            |             |
|                                  | 52210                            | Recreation Supplies              |             |
|                                  | 52212                            | Edp/Computer Supplies            |             |
|                                  | 52215                            | Books/Subscriptions              |             |
|                                  | 52216                            | Security Electrncs Suppls        |             |
|                                  | 52217                            | Safety Materials                 | 1,130       |
|                                  | 52218                            | Laboratory Supplies              |             |
|                                  | 52220                            | Equip O-M Acct                   |             |
|                                  | 52222                            | Radio Parts                      |             |
|                                  | 52223                            | Gasoline                         |             |
|                                  | 52224                            | Motor Oil                        |             |
|                                  | 52225                            | Tires/Tubes                      |             |
|                                  | 52226                            | Batteries                        |             |
|                                  | 52227                            | Diesel Fuel                      |             |
|                                  | 52230                            | Propane                          |             |
|                                  | 52233                            | Grease                           |             |
|                                  | 52234                            | Anti-Freeze                      |             |
|                                  | 52235                            | Cleaning Material                |             |
|                                  | 52236                            | Glass                            |             |
|                                  | 52240                            | Transit Passes                   |             |
|                                  | 52270                            | Odor Control Chemicals           |             |
|                                  | 52271                            | Chlorine                         |             |
|                                  | 52272                            | Thickening Polymer               |             |
|                                  | 52273                            | Water Reuse Chem                 |             |
|                                  | 52274                            | Chemicals-Misc                   |             |
|                                  | 52275                            | Liquid Oxygen                    |             |
|                                  | 52277                            | Sodium Hypochlorite              |             |
|                                  | 52278                            | Dewatering Polymer               |             |
|                                  | 52279                            | Sodium Bisulfite                 |             |
|                                  | 52280                            | Caustic Soda                     |             |
|                                  | 52281                            | Carbon                           |             |
|                                  | 52282                            | Bioxide                          |             |

| WTD East Operations D4400/S04610 |                                |              |
|----------------------------------|--------------------------------|--------------|
|                                  |                                | Total        |
| IBIS Account (2010, 2011 & 2012) |                                | 2011 Actual  |
| 52290                            | Supplies-Misc                  | 102          |
| 52291                            | Telcom Supplies                |              |
| 52310                            | Road Materials/Supplies        |              |
| 52320                            | Bldg Maint Supplies            |              |
| 52380                            | Small Tools                    | 47           |
| 52390                            | Repair/Maint Supplies          |              |
| 52391                            | Maintenance Parts/Materials    |              |
|                                  | <b>Supplies</b>                | <b>1,278</b> |
| 53101                            | Legal Services                 |              |
| 53102                            | Banking Services               |              |
| 53104                            | Consulting Services            |              |
| 53105                            | Professional Services          |              |
| 53106                            | Edp-Microfiche/Film Svc        |              |
| 53108                            | Construction Contracts         |              |
| 53114                            | Engineering                    |              |
| 53117                            | Temporary Help                 |              |
| 53121                            | Local Agency Project Cost      |              |
| 53127                            | It Consulting Services         |              |
| 53130                            | Biosolids Haul/Application     |              |
| 53131                            | Grit Haul/Disposal             |              |
| 53132                            | Edmonds Transfer Flow          |              |
| 53133                            | Black Diamond/Soos Creek Flows |              |
| 53134                            | Biosolids Haul                 |              |
| 53135                            | Biosolids Application          |              |
| 53141                            | Project Mgmt Svcs              |              |
| 53180                            | Subcontract-Other              |              |
| 53210                            | Telephones                     |              |
| 53211                            | Telecom Svc-Ongoing Chg        |              |
| 53212                            | Telecom Svc-Onetime Chg        |              |
| 53213                            | Cell Phone/Pager Services      |              |
| 53220                            | Postage                        |              |
| 53230                            | Advertising Media              |              |
| 53310                            | Travel                         |              |
| 53312                            | Registration For Meetings      |              |
| 53318                            | Private Auto Mileage           |              |
| 53320                            | Freight & Delivery Svc         |              |
| 53330                            | Purchased Transportation       |              |
| 53390                            | Misc Transportation Costs      |              |
| 53490                            | Insurance Premiums             |              |
| 53510                            | Natural Gas                    |              |
| 53520                            | Electricity                    |              |
| 53530                            | Water/Sewer                    |              |
| 53540                            | Solid Waste Disposal           |              |
| 53545                            | Hazardous Waste Disposal       |              |
| 53547                            | Recyclables Disposal           |              |
| 53590                            | Utilities-Misc                 |              |
| 53620                            | Maint-Buildings                |              |
| 53630                            | Repairs/Maintenance Contracts  |              |
| 53634                            | It Equip-Repair/Maint          |              |
| 53635                            | Repair/Mnt-Medical Equip       |              |
| 53636                            | Software Lic/Fees Annual       |              |
| 53640                            | Laundry Services               | 755          |
| 53690                            | Repair/Maint-Other             |              |
| 53710                            | Office Rental                  |              |
| 53711                            | Park/Ride Lot Rental           |              |
| 53740                            | Rent-EDP Equip                 |              |

| WTD East Operations D4400/S04610 |                                      |              |
|----------------------------------|--------------------------------------|--------------|
|                                  |                                      | Total        |
| IBIS Account (2010, 2011 & 2012) |                                      | 2011 Actual  |
| 53770                            | Rent-Copy Machine                    |              |
| 53790                            | Leases/Rentals-Misc                  |              |
| 53802                            | Judgments/Claims                     |              |
| 53803                            | Dues/Memberships                     |              |
| 53804                            | Judgement/Claims-Non Reprtbl         |              |
| 53806                            | Printing                             |              |
| 53807                            | Permits/Licenses                     |              |
| 53808                            | Taxes/Assessments-Misc               |              |
| 53809                            | State Business Tax                   | 1,367        |
| 53810                            | Training Costs                       |              |
| 53811                            | Tuition Reimbursement                |              |
| 53812                            | Fines/Penalties                      |              |
| 53813                            | It Training                          |              |
| 53814                            | Memberships/Dues IT                  |              |
| 53817                            | Arts/Graphics                        |              |
| 53833                            | Healthy Workplace Chgs               |              |
| 53864                            | Employee Business Expense            |              |
| 53890                            | Services-Misc                        |              |
| 53891                            | Arbitrage Tax                        |              |
|                                  | <b>Services/Other Charges</b>        | <b>2,122</b> |
| 54985                            | Grants to Others                     |              |
|                                  | <b>Contributions Other</b>           | <b>0</b>     |
| 55010                            | Motor Pool                           |              |
| 55020                            | Oirm Ops Rebate [Its O&M Allocation] |              |
| 55021                            | Computer Use                         |              |
| 55025                            | Computer Infrastructure              |              |
| 55026                            | Gis O-M Development                  |              |
| 55027                            | Tech Service Rebate                  |              |
| 55028                            | Info Resource Mgmt                   |              |
| 55029                            | Telecom Rebate                       |              |
| 55032                            | Telcom Overhead                      |              |
| 55033                            | Technical Publications               |              |
| 55034                            | Laboratory Analysis                  |              |
| 55040                            | Parking Garage Rentals               |              |
| 55044                            | Wastewater Equipment Rental          |              |
| 55050                            | Road Equip Er & R                    |              |
| 55134                            | Parks                                |              |
| 55142                            | Human Resources Mgmt                 |              |
| 55144                            | Property Services                    |              |
| 55145                            | Facilities Management                |              |
| 55150                            | Prosecuting Attorney                 |              |
| 55159                            | Fmd Copy Center                      |              |
| 55201                            | Central Services Overhead            |              |
| 55203                            | Dot Road Services                    |              |
| 55204                            | Solid Waste Service Support          |              |
| 55221                            | Surface Water Management             |              |
| 55228                            | Local Hazardous Waste Svc/Sppt       |              |
| 55240                            | Ltd G O Bond Redemp Svc/Sppt         |              |
| 55245                            | Financial Mgmt Svcs/Sppt             |              |
| 55247                            | KCIT Services                        |              |
| 55249                            | Fmd Strategic Initiatv Fee           |              |
| 55252                            | Insurance - Svc/Sppt                 |              |
| 55255                            | Financial Mgmt Svcs Rebate           |              |
| 55257                            | Public Works Er & R Svc/Sppt         |              |
| 55258                            | Motor Pool Er & R Svc/Sppt           |              |

| WTD East Operations D4400/S04610                  |                                   |  |                |
|---------------------------------------------------|-----------------------------------|--|----------------|
|                                                   |                                   |  | Total          |
| IBIS Account (2010, 2011 & 2012)                  |                                   |  | 2011 Actual    |
| 55260                                             | Printing/Graphic Arts Svc/Sppt    |  |                |
| 55263                                             | Printing Loan Recovery            |  |                |
| 55280                                             | Public Health Svc/Sppt            |  |                |
| 55331                                             | Building Mod Rent Reimb           |  |                |
| 55342                                             | Major Building Reserve            |  |                |
| 55345                                             | Inet Operating                    |  |                |
| 55349                                             | Business Resource Dp Svcs         |  |                |
| 55350                                             | Radio Access                      |  |                |
| 55351                                             | Radio Maintenance                 |  |                |
| 55352                                             | Radio Services-General            |  |                |
| 55353                                             | Radio Equipment                   |  |                |
| 55440                                             | Dnr-Water Quality Division        |  |                |
| 55459                                             | Natural Resources Overhead        |  |                |
| 55461                                             | Transportation Admin              |  |                |
| 55998                                             | Intragovmntl Svc Reimbrmt         |  |                |
| 57402                                             | Interest Expense                  |  |                |
| 58001                                             | T/T Current Expense               |  |                |
| 58040                                             | Transfer To Lmtl Tax Go Bond Rdm  |  |                |
| 58077                                             | T/T OIRM CIP-Specific Prj         |  |                |
| 58145                                             | T/T Parks Operating               |  |                |
|                                                   | <b>Intragovernmental Service</b>  |  | 0              |
| 59411                                             | COLA                              |  |                |
| 59412                                             | Merit                             |  |                |
| 59895                                             | Salary & Wage Contingency         |  |                |
| 59899                                             | Contingency Reserve               |  |                |
| 59987                                             | Correctn Ordinance Contra         |  |                |
| 59990                                             | Expense Reclass                   |  | (2,453)        |
| 59999                                             | Loan Out Labor                    |  |                |
|                                                   | <b>Contras/Contingencies</b>      |  | (2,453)        |
| <b>TOTAL C Crew South 4423/C Crew East 461072</b> |                                   |  | <b>729,325</b> |
|                                                   |                                   |  |                |
|                                                   |                                   |  |                |
| <b>D Crew South 4424/D Crew East 461073</b>       |                                   |  |                |
| 51110                                             | Salaries-Regular                  |  | 406,069        |
| 51115                                             | Retro Labor Accrual               |  |                |
| 51120                                             | Temporary                         |  |                |
| 51130                                             | Salaries-Overtime                 |  | 91,328         |
| 51143                                             | Duty Assignment                   |  |                |
| 51144                                             | Shift Differential                |  | 642            |
| 51156                                             | Budgeted Salary Savings           |  |                |
| 51157                                             | Productivity/Gain Sharing Payment |  | 560            |
| 51161                                             | Vacation Expense                  |  | 6,184          |
| 51162                                             | Sick Leave Expense                |  |                |
| 51163                                             | Holiday Pay                       |  |                |
| 51164                                             | Jury Duty                         |  |                |
| 51165                                             | Military Leave                    |  |                |
| 51166                                             | Funeral Leave                     |  | 3,087          |
| 51168                                             | Furlough Replacement Time         |  |                |
| 51169                                             | Other Paid Time Off               |  | 75,010         |
| 51194                                             | Loan Out Labor(Manual)            |  |                |
| 51304                                             | Excess Compensation               |  |                |
| 51305                                             | Supplemental 587 Worker'S Comp    |  |                |
| 51315                                             | Flex Benefit Combined Chg         |  | 85,736         |
| 51320                                             | Oasi/Fica                         |  | 45,258         |
| 51330                                             | Retirement                        |  | 37,891         |

| WTD East Operations D4400/S04610 |                                  |  |                |
|----------------------------------|----------------------------------|--|----------------|
|                                  |                                  |  | Total          |
| IBIS Account (2010, 2011 & 2012) |                                  |  | 2011 Actual    |
| 51331                            | Pers 1 Bene-Vac/Sl Payoff        |  |                |
| 51335                            | Pension Trust 117rwt             |  | 2,361          |
| 51340                            | Industrial Insurance/Sspf        |  |                |
| 51370                            | Unemployment Compensation        |  |                |
| 51380                            | Uniform Allowance                |  |                |
| 51392                            | Retro Benefit Accrual            |  |                |
| 51395                            | Manual Benefit Budget Adjustment |  |                |
| 51396                            | Salary & Wage Reserve            |  |                |
| <b>Salaries &amp; Benefits</b>   |                                  |  | <b>754,125</b> |
| 52110                            | Office Supplies                  |  |                |
| 52170                            | Copy Machine Supplies            |  |                |
| 52180                            | Equip-Furn < \$5k Minor          |  |                |
| 52183                            | Dept Non-Ivis Cntr Eq<\$5k       |  |                |
| 52187                            | Dept Cntr'Bl Eqpt <\$5k Id# Reqd |  |                |
| 52190                            | Software < \$25k/Unit            |  |                |
| 52191                            | Minor Upgrades/Repairs It Equip  |  |                |
| 52205                            | Food                             |  |                |
| 52207                            | Photographic Supplies            |  |                |
| 52210                            | Recreation Supplies              |  |                |
| 52212                            | Edp/Computer Supplies            |  |                |
| 52215                            | Books/Subscriptions              |  |                |
| 52216                            | Security Electrnics Suppls       |  |                |
| 52217                            | Safety Materials                 |  | 627            |
| 52218                            | Laboratory Supplies              |  |                |
| 52220                            | Equip O-M Acct                   |  |                |
| 52222                            | Radio Parts                      |  |                |
| 52223                            | Gasoline                         |  |                |
| 52224                            | Motor Oil                        |  |                |
| 52225                            | Tires/Tubes                      |  |                |
| 52226                            | Batteries                        |  |                |
| 52227                            | Diesel Fuel                      |  |                |
| 52230                            | Propane                          |  |                |
| 52233                            | Grease                           |  |                |
| 52234                            | Anti-Freeze                      |  |                |
| 52235                            | Cleaning Material                |  |                |
| 52236                            | Glass                            |  |                |
| 52240                            | Transit Passes                   |  |                |
| 52270                            | Odor Control Chemicals           |  |                |
| 52271                            | Chlorine                         |  |                |
| 52272                            | Thickening Polymer               |  |                |
| 52273                            | Water Reuse Chem                 |  |                |
| 52274                            | Chemicals-Misc                   |  |                |
| 52275                            | Liquid Oxygen                    |  |                |
| 52277                            | Sodium Hypochlorite              |  |                |
| 52278                            | Dewatering Polymer               |  |                |
| 52279                            | Sodium Bisulfite                 |  |                |
| 52280                            | Caustic Soda                     |  |                |
| 52281                            | Carbon                           |  |                |
| 52282                            | Bioxide                          |  |                |
| 52290                            | Supplies-Misc                    |  | (94)           |
| 52291                            | Telcom Supplies                  |  |                |
| 52310                            | Road Materials/Supplies          |  |                |
| 52320                            | Bldg Maint Supplies              |  |                |
| 52380                            | Small Tools                      |  |                |
| 52390                            | Repair/Maint Supplies            |  |                |
| 52391                            | Maintenance Parts/Materials      |  |                |

| WTD East Operations D4400/S04610 |                                |             |
|----------------------------------|--------------------------------|-------------|
|                                  |                                | Total       |
| IBIS Account (2010, 2011 & 2012) |                                | 2011 Actual |
|                                  | <b>Supplies</b>                | <b>532</b>  |
| 53101                            | Legal Services                 |             |
| 53102                            | Banking Services               |             |
| 53104                            | Consulting Services            |             |
| 53105                            | Professional Services          | 57          |
| 53106                            | Edp-Microfiche/Film Svc        |             |
| 53108                            | Construction Contracts         |             |
| 53114                            | Engineering                    |             |
| 53117                            | Temporary Help                 |             |
| 53121                            | Local Agency Project Cost      |             |
| 53127                            | It Consulting Services         |             |
| 53130                            | Biosolids Haul/Application     |             |
| 53131                            | Grit Haul/Disposal             |             |
| 53132                            | Edmonds Transfer Flow          |             |
| 53133                            | Black Diamond/Soos Creek Flows |             |
| 53134                            | Biosolids Haul                 |             |
| 53135                            | Biosolids Application          |             |
| 53141                            | Project Mgmt Svcs              |             |
| 53180                            | Subcontract-Other              |             |
| 53210                            | Telephones                     |             |
| 53211                            | Telecom Svc-Ongoing Chg        |             |
| 53212                            | Telecom Svc-Onetime Chg        |             |
| 53213                            | Cell Phone/Pager Services      |             |
| 53220                            | Postage                        |             |
| 53230                            | Advertising Media              |             |
| 53310                            | Travel                         |             |
| 53312                            | Registration For Meetings      |             |
| 53318                            | Private Auto Mileage           |             |
| 53320                            | Freight & Delivery Svc         |             |
| 53330                            | Purchased Transportation       |             |
| 53390                            | Misc Transportation Costs      |             |
| 53490                            | Insurance Premiums             |             |
| 53510                            | Natural Gas                    |             |
| 53520                            | Electricity                    |             |
| 53530                            | Water/Sewer                    |             |
| 53540                            | Solid Waste Disposal           |             |
| 53545                            | Hazardous Waste Disposal       |             |
| 53547                            | Recyclables Disposal           |             |
| 53590                            | Utilities-Misc                 |             |
| 53620                            | Maint-Buildings                |             |
| 53630                            | Repairs/Maintenance Contracts  |             |
| 53634                            | It Equip-Repair/Maint          |             |
| 53635                            | Repair/Mnt-Medical Equip       |             |
| 53636                            | Software Lic/Fees Annual       |             |
| 53640                            | Laundry Services               |             |
| 53690                            | Repair/Maint-Other             |             |
| 53710                            | Office Rental                  |             |
| 53711                            | Park/Ride Lot Rental           |             |
| 53740                            | Rent-EDP Equip                 |             |
| 53770                            | Rent-Copy Machine              |             |
| 53790                            | Leases/Rentals-Misc            |             |
| 53802                            | Judgments/Claims               |             |
| 53803                            | Dues/Memberships               |             |
| 53804                            | Judgement/Claims-Non Reprtble  |             |
| 53806                            | Printing                       |             |
| 53807                            | Permits/Licenses               |             |

| WTD East Operations D4400/S04610 |                                      |                    |
|----------------------------------|--------------------------------------|--------------------|
|                                  |                                      | <b>Total</b>       |
| IBIS Account (2010, 2011 & 2012) |                                      | <b>2011 Actual</b> |
| 53808                            | Taxes/Assessments-Misc               |                    |
| 53809                            | State Business Tax                   |                    |
| 53810                            | Training Costs                       |                    |
| 53811                            | Tuition Reimbursement                |                    |
| 53812                            | Fines/Penalties                      |                    |
| 53813                            | It Training                          |                    |
| 53814                            | Memberships/Dues IT                  |                    |
| 53817                            | Arts/Graphics                        |                    |
| 53833                            | Healthy Workplace Chgs               |                    |
| 53864                            | Employee Business Expense            |                    |
| 53890                            | Services-Misc                        |                    |
| 53891                            | Arbitrage Tax                        |                    |
|                                  | <b>Services/Other Charges</b>        | <b>57</b>          |
| 54985                            | Grants to Others                     |                    |
|                                  | <b>Contributions Other</b>           | <b>0</b>           |
| 55010                            | Motor Pool                           |                    |
| 55020                            | Oirm Ops Rebate [Its O&M Allocation] |                    |
| 55021                            | Computer Use                         |                    |
| 55025                            | Computer Infrastructure              |                    |
| 55026                            | Gis O-M Development                  |                    |
| 55027                            | Tech Service Rebate                  |                    |
| 55028                            | Info Resource Mgmt                   |                    |
| 55029                            | Telecom Rebate                       |                    |
| 55032                            | Telcom Overhead                      |                    |
| 55033                            | Technical Publications               |                    |
| 55034                            | Laboratory Analysis                  |                    |
| 55040                            | Parking Garage Rentals               |                    |
| 55044                            | Wastewater Equipment Rental          |                    |
| 55050                            | Road Equip Er & R                    |                    |
| 55134                            | Parks                                |                    |
| 55142                            | Human Resources Mgmt                 |                    |
| 55144                            | Property Services                    |                    |
| 55145                            | Facilities Management                |                    |
| 55150                            | Prosecuting Attorney                 |                    |
| 55159                            | Fmd Copy Center                      |                    |
| 55201                            | Central Services Overhead            |                    |
| 55203                            | Dot Road Services                    |                    |
| 55204                            | Solid Waste Service Support          |                    |
| 55221                            | Surface Water Management             |                    |
| 55228                            | Local Hazardous Waste Svc/Sppt       |                    |
| 55240                            | Ltd G O Bond Redemp Svc/Sppt         |                    |
| 55245                            | Financial Mgmt Svcs/Sppt             |                    |
| 55247                            | KCIT Services                        |                    |
| 55249                            | Fmd Strategic Initiatv Fee           |                    |
| 55252                            | Insurance - Svc/Sppt                 |                    |
| 55255                            | Financial Mgmt Svcs Rebate           |                    |
| 55257                            | Public Works Er & R Svc/Sppt         |                    |
| 55258                            | Motor Pool Er & R Svc/Sppt           |                    |
| 55260                            | Printing/Graphic Arts Svc/Sppt       |                    |
| 55263                            | Printing Loan Recovery               |                    |
| 55280                            | Public Health Svc/Sppt               |                    |
| 55331                            | Building Mod Rent Reimb              |                    |
| 55342                            | Major Building Reserve               |                    |
| 55345                            | Inet Operating                       |                    |
| 55349                            | Business Resource Dp Svcs            |                    |

| WTD East Operations D4400/S04610         |                                      |                                   |                |
|------------------------------------------|--------------------------------------|-----------------------------------|----------------|
|                                          |                                      |                                   | Total          |
|                                          | IBIS Account (2010, 2011 & 2012)     |                                   | 2011 Actual    |
|                                          | 55350                                | Radio Access                      |                |
|                                          | 55351                                | Radio Maintenance                 |                |
|                                          | 55352                                | Radio Services-General            |                |
|                                          | 55353                                | Radio Equipment                   |                |
|                                          | 55440                                | Dnr-Water Quality Division        |                |
|                                          | 55459                                | Natural Resources Overhead        |                |
|                                          | 55461                                | Transportation Admin              |                |
|                                          | 55998                                | Intragovmntl Svc Reimbrmt         |                |
|                                          | 57402                                | Interest Expense                  |                |
|                                          | 58001                                | T/T Current Expense               |                |
|                                          | 58040                                | Transfer To Lmtd Tax Go Bond Rdm  |                |
|                                          | 58077                                | T/T OIRM CIP-Specific Prj         |                |
|                                          | 58145                                | T/T Parks Operating               |                |
|                                          |                                      | <b>Intragovernmental Service</b>  | 0              |
|                                          | 59411                                | COLA                              |                |
|                                          | 59412                                | Merit                             |                |
|                                          | 59895                                | Salary & Wage Contingency         |                |
|                                          | 59899                                | Contingency Reserve               |                |
|                                          | 59987                                | Correctn Ordinance Contra         |                |
|                                          | 59990                                | Expense Reclass                   | (67)           |
|                                          | 59999                                | Loan Out Labor                    |                |
|                                          |                                      | <b>Contras/Contingencies</b>      | (67)           |
| <b>TOTAL D Crew</b>                      | <b>South 4424/D Crew East 461073</b> |                                   | <b>754,647</b> |
|                                          |                                      |                                   |                |
|                                          |                                      |                                   |                |
| <b>East Buildings &amp; Grounds 4440</b> |                                      |                                   |                |
|                                          | 51110                                | Salaries-Regular                  |                |
|                                          | 51115                                | Retro Labor Accrual               |                |
|                                          | 51120                                | Temporary                         |                |
|                                          | 51130                                | Salaries-Overtime                 |                |
|                                          | 51143                                | Duty Assignment                   |                |
|                                          | 51144                                | Shift Differential                |                |
|                                          | 51156                                | Budgeted Salary Savings           |                |
|                                          | 51157                                | Productivity/Gain Sharing Payment |                |
|                                          | 51161                                | Vacation Expense                  |                |
|                                          | 51162                                | Sick Leave Expense                |                |
|                                          | 51163                                | Holiday Pay                       |                |
|                                          | 51164                                | Jury Duty                         |                |
|                                          | 51165                                | Military Leave                    |                |
|                                          | 51166                                | Funeral Leave                     |                |
|                                          | 51168                                | Furlough Replacement Time         |                |
|                                          | 51169                                | Other Paid Time Off               |                |
|                                          | 51194                                | Loan Out Labor(Manual)            |                |
|                                          | 51304                                | Excess Compensation               |                |
|                                          | 51305                                | Supplemental 587 Worker'S Comp    |                |
|                                          | 51315                                | Flex Benefit Combined Chg         |                |
|                                          | 51320                                | Oasi/Fica                         |                |
|                                          | 51330                                | Retirement                        |                |
|                                          | 51331                                | Pers 1 Bene-Vac/SI Payoff         |                |
|                                          | 51335                                | Pension Trust 117rwt              |                |
|                                          | 51340                                | Industrial Insurance/Sspf         |                |
|                                          | 51370                                | Unemployment Compensation         |                |
|                                          | 51380                                | Uniform Allowance                 |                |
|                                          | 51392                                | Retro Benefit Accrual             |                |
|                                          | 51395                                | Manual Benefit Budaet Adjustment  |                |

| WTD East Operations D4400/S04610 |       |                                  |             |
|----------------------------------|-------|----------------------------------|-------------|
|                                  |       |                                  | Total       |
|                                  |       | IBIS Account (2010, 2011 & 2012) | 2011 Actual |
|                                  | 51396 | Salary & Wage Reserve            | 0           |
|                                  |       | Salaries & Benefits              |             |
|                                  | 52110 | Office Supplies                  | 282         |
|                                  | 52170 | Copy Machine Supplies            |             |
|                                  | 52180 | Equip-Furn < \$5k Minor          |             |
|                                  | 52183 | Dept Non-Ivis Cntr Eq<\$5k       |             |
|                                  | 52187 | Dept Cntr'Bl Eqpt <\$5k Id# Reqd |             |
|                                  | 52190 | Software < \$25k/Unit            |             |
|                                  | 52191 | Minor Upgrades/Repairs It Equip  |             |
|                                  | 52205 | Food                             |             |
|                                  | 52207 | Photographic Supplies            |             |
|                                  | 52210 | Recreation Supplies              |             |
|                                  | 52212 | Edp/Computer Supplies            |             |
|                                  | 52215 | Books/Subscriptions              |             |
|                                  | 52216 | Security Electrnics Suppls       |             |
|                                  | 52217 | Safety Materials                 |             |
|                                  | 52218 | Laboratory Supplies              |             |
|                                  | 52220 | Equip O-M Acct                   |             |
|                                  | 52222 | Radio Parts                      |             |
|                                  | 52223 | Gasoline                         |             |
|                                  | 52224 | Motor Oil                        |             |
|                                  | 52225 | Tires/Tubes                      |             |
|                                  | 52226 | Batteries                        |             |
|                                  | 52227 | Diesel Fuel                      |             |
|                                  | 52230 | Propane                          |             |
|                                  | 52233 | Grease                           |             |
|                                  | 52234 | Anti-Freeze                      |             |
|                                  | 52235 | Cleaning Material                |             |
|                                  | 52236 | Glass                            |             |
|                                  | 52240 | Transit Passes                   |             |
|                                  | 52270 | Odor Control Chemicals           |             |
|                                  | 52271 | Chlorine                         |             |
|                                  | 52272 | Thickening Polymer               |             |
|                                  | 52273 | Water Reuse Chem                 |             |
|                                  | 52274 | Chemicals-Misc                   |             |
|                                  | 52275 | Liquid Oxygen                    |             |
|                                  | 52277 | Sodium Hypochlorite              |             |
|                                  | 52278 | Dewatering Polymer               |             |
|                                  | 52279 | Sodium Bisulfite                 |             |
|                                  | 52280 | Caustic Soda                     |             |
|                                  | 52281 | Carbon                           |             |
|                                  | 52282 | Bioxide                          |             |
|                                  | 52290 | Supplies-Misc                    |             |
|                                  | 52291 | Telcom Supplies                  |             |
|                                  | 52310 | Road Materials/Supplies          |             |
|                                  | 52320 | Bldg Maint Supplies              |             |
|                                  | 52380 | Small Tools                      |             |
|                                  | 52390 | Repair/Maint Supplies            |             |
|                                  | 52391 | Maintenance Parts/Materials      |             |
|                                  |       | Supplies                         |             |
|                                  | 53101 | Legal Services                   |             |
|                                  | 53102 | Banking Services                 |             |
|                                  | 53104 | Consulting Services              |             |
|                                  | 53105 | Professional Services            |             |
|                                  | 53106 | Edp-Microfiche/Film Svc          |             |
|                                  | 53108 | Construction Contracts           |             |

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| WTD East Operations D4400/S04610 |                                      | Total       |
|----------------------------------|--------------------------------------|-------------|
|                                  |                                      |             |
|                                  | IBIS Account (2010, 2011 & 2012)     | 2011 Actual |
|                                  | 53114 Engineering                    | 391         |
|                                  | 53117 Temporary Help                 |             |
|                                  | 53121 Local Agency Project Cost      |             |
|                                  | 53127 It Consulting Services         |             |
|                                  | 53130 Biosolids Haul/Application     |             |
|                                  | 53131 Grit Haul/Disposal             |             |
|                                  | 53132 Edmonds Transfer Flow          |             |
|                                  | 53133 Black Diamond/Soos Creek Flows |             |
|                                  | 53134 Biosolids Haul                 |             |
|                                  | 53135 Biosolids Application          |             |
|                                  | 53141 Project Mgmt Svcs              |             |
|                                  | 53180 Subcontract-Other              |             |
|                                  | 53210 Telephones                     |             |
|                                  | 53211 Telecom Svc-Ongoing Chg        |             |
|                                  | 53212 Telecom Svc-Onetime Chg        |             |
|                                  | 53213 Cell Phone/Pager Services      |             |
|                                  | 53220 Postage                        |             |
|                                  | 53230 Advertising Media              |             |
|                                  | 53310 Travel                         |             |
|                                  | 53312 Registration For Meetings      |             |
|                                  | 53318 Private Auto Mileage           |             |
|                                  | 53320 Freight & Delivery Svc         |             |
|                                  | 53330 Purchased Transportation       |             |
|                                  | 53390 Misc Transportation Costs      |             |
|                                  | 53490 Insurance Premiums             |             |
|                                  | 53510 Natural Gas                    |             |
|                                  | 53520 Electricity                    |             |
|                                  | 53530 Water/Sewer                    |             |
|                                  | 53540 Solid Waste Disposal           |             |
|                                  | 53545 Hazardous Waste Disposal       |             |
|                                  | 53547 Recyclables Disposal           |             |
|                                  | 53590 Utilities-Misc                 |             |
|                                  | 53620 Maint-Buildings                |             |
|                                  | 53630 Repairs/Maintenance Contracts  |             |
|                                  | 53634 It Equip-Repair/Maint          |             |
|                                  | 53635 Repair/Mnt-Medical Equip       |             |
|                                  | 53636 Software Lic/Fees Annual       |             |
|                                  | 53640 Laundry Services               |             |
|                                  | 53690 Repair/Maint-Other             |             |
|                                  | 53710 Office Rental                  |             |
|                                  | 53711 Park/Ride Lot Rental           |             |
|                                  | 53740 Rent-EDP Equip                 |             |
|                                  | 53770 Rent-Copy Machine              |             |
|                                  | 53790 Leases/Rentals-Misc            |             |
|                                  | 53802 Judgments/Claims               |             |
|                                  | 53803 Dues/Memberships               |             |
|                                  | 53804 Judgement/Claims-Non Reprtble  |             |
|                                  | 53806 Printing                       |             |
|                                  | 53807 Permits/Licenses               |             |
|                                  | 53808 Taxes/Assessments-Misc         |             |
|                                  | 53809 State Business Tax             |             |
|                                  | 53810 Training Costs                 |             |
|                                  | 53811 Tuition Reimbursement          |             |
|                                  | 53812 Fines/Penalties                |             |
|                                  | 53813 It Training                    |             |
|                                  | 53814 Memberships/Dues IT            |             |

| WTD East Operations D4400/S04610 |                                      |  |                    |
|----------------------------------|--------------------------------------|--|--------------------|
|                                  |                                      |  | <b>Total</b>       |
| IBIS Account (2010, 2011 & 2012) |                                      |  | <b>2011 Actual</b> |
| 53817                            | Arts/Graphics                        |  |                    |
| 53833                            | Healthy Workplace Chgs               |  |                    |
| 53864                            | Employee Business Expense            |  |                    |
| 53890                            | Services-Misc                        |  |                    |
| 53891                            | Arbitrage Tax                        |  |                    |
|                                  | <b>Services/Other Charges</b>        |  | <b>4,509</b>       |
| 54985                            | Grants to Others                     |  |                    |
|                                  | <b>Contributions Other</b>           |  | <b>0</b>           |
| 55010                            | Motor Pool                           |  |                    |
| 55020                            | Oirm Ops Rebate [Its O&M Allocation] |  |                    |
| 55021                            | Computer Use                         |  |                    |
| 55025                            | Computer Infrastructure              |  |                    |
| 55026                            | Gis O-M Development                  |  |                    |
| 55027                            | Tech Service Rebate                  |  |                    |
| 55028                            | Info Resource Mgmt                   |  |                    |
| 55029                            | Telecom Rebate                       |  |                    |
| 55032                            | Telcom Overhead                      |  |                    |
| 55033                            | Technical Publications               |  |                    |
| 55034                            | Laboratory Analysis                  |  |                    |
| 55040                            | Parking Garage Rentals               |  |                    |
| 55044                            | Wastewater Equipment Rental          |  | 26,996             |
| 55050                            | Road Equip Er & R                    |  |                    |
| 55134                            | Parks                                |  |                    |
| 55142                            | Human Resources Mgmt                 |  |                    |
| 55144                            | Property Services                    |  |                    |
| 55145                            | Facilities Management                |  |                    |
| 55150                            | Prosecuting Attorney                 |  |                    |
| 55159                            | Fmd Copy Center                      |  |                    |
| 55201                            | Central Services Overhead            |  |                    |
| 55203                            | Dot Road Services                    |  |                    |
| 55204                            | Solid Waste Service Support          |  |                    |
| 55221                            | Surface Water Management             |  |                    |
| 55228                            | Local Hazardous Waste Svc/Sppt       |  |                    |
| 55240                            | Ltd G O Bond Redemp Svc/Sppt         |  |                    |
| 55245                            | Financial Mgmt Svcs/Sppt             |  |                    |
| 55247                            | KCIT Services                        |  |                    |
| 55249                            | Fmd Strategic Initiatv Fee           |  |                    |
| 55252                            | Insurance - Svc/Sppt                 |  |                    |
| 55255                            | Financial Mgmt Svcs Rebate           |  |                    |
| 55257                            | Public Works Er & R Svc/Sppt         |  |                    |
| 55258                            | Motor Pool Er & R Svc/Sppt           |  |                    |
| 55260                            | Printing/Graphic Arts Svc/Sppt       |  |                    |
| 55263                            | Printing Loan Recovery               |  |                    |
| 55280                            | Public Health Svc/Sppt               |  |                    |
| 55331                            | Building Mod Rent Reimb              |  |                    |
| 55342                            | Major Building Reserve               |  |                    |
| 55345                            | Inet Operating                       |  |                    |
| 55349                            | Business Resource Dp Svcs            |  |                    |
| 55350                            | Radio Access                         |  |                    |
| 55351                            | Radio Maintenance                    |  |                    |
| 55352                            | Radio Services-General               |  |                    |
| 55353                            | Radio Equipment                      |  |                    |
| 55440                            | Dnr-Water Quality Division           |  |                    |
| 55459                            | Natural Resources Overhead           |  |                    |
| 55461                            | Transportation Admin                 |  |                    |

| WTD East Operations D4400/S04610               |                                   |                    |
|------------------------------------------------|-----------------------------------|--------------------|
|                                                |                                   | <b>Total</b>       |
| IBIS Account (2010, 2011 & 2012)               |                                   | <b>2011 Actual</b> |
| 55998                                          | Intragovmntl Svc Reimbrmt         |                    |
| 57402                                          | Interest Expense                  |                    |
| 58001                                          | T/T Current Expense               |                    |
| 58040                                          | Transfer To Lmtd Tax Go Bond Rdm  |                    |
| 58077                                          | T/T OIRM CIP-Specific Prj         |                    |
| 58145                                          | T/T Parks Operating               |                    |
|                                                | <b>Intragovernmental Service</b>  | <b>26,996</b>      |
| 59411                                          | COLA                              |                    |
| 59412                                          | Merit                             |                    |
| 59895                                          | Salary & Wage Contingency         |                    |
| 59899                                          | Contingency Reserve               |                    |
| 59987                                          | Correctn Ordinance Contra         |                    |
| 59990                                          | Expense Reclass                   |                    |
| 59999                                          | Loan Out Labor                    |                    |
|                                                | <b>Contras/Contingencies</b>      | <b>0</b>           |
| <b>TOTAL East Buildings &amp; Grounds 4440</b> |                                   | <b>31,340</b>      |
|                                                |                                   |                    |
|                                                |                                   |                    |
|                                                |                                   |                    |
| <b>East Process Control 4460/461084</b>        |                                   |                    |
| 51110                                          | Salaries-Regular                  | 762,110            |
| 51115                                          | Retro Labor Accrual               |                    |
| 51120                                          | Temporary                         |                    |
| 51130                                          | Salaries-Overtime                 | 4,859              |
| 51143                                          | Duty Assignment                   |                    |
| 51144                                          | Shift Differential                | 411                |
| 51156                                          | Budgeted Salary Savings           |                    |
| 51157                                          | Productivity/Gain Sharing Payment | 772                |
| 51161                                          | Vacation Expense                  | 11,672             |
| 51162                                          | Sick Leave Expense                | 1,450              |
| 51163                                          | Holiday Pay                       |                    |
| 51164                                          | Jury Duty                         | 308                |
| 51165                                          | Military Leave                    |                    |
| 51166                                          | Funeral Leave                     | 1,250              |
| 51168                                          | Furlough Replacement Time         | 4,490              |
| 51169                                          | Other Paid Time Off               | 136,589            |
| 51194                                          | Loan Out Labor(Manual)            |                    |
| 51304                                          | Excess Compensation               |                    |
| 51305                                          | Supplemental 587 Worker'S Comp    |                    |
| 51315                                          | Flex Benefit Combined Chg         | 153,522            |
| 51320                                          | Oasi/Fica                         | 70,296             |
| 51330                                          | Retirement                        | 57,100             |
| 51331                                          | Pers 1 Bene-Vac/SI Payoff         |                    |
| 51335                                          | Pension Trust 117rwt              | 3,678              |
| 51340                                          | Industrial Insurance/Sspf         |                    |
| 51370                                          | Unemployment Compensation         |                    |
| 51380                                          | Uniform Allowance                 |                    |
| 51392                                          | Retro Benefit Accrual             |                    |
| 51395                                          | Manual Benefit Budget Adjustment  |                    |
| 51396                                          | Salary & Wage Reserve             |                    |
|                                                | <b>Salaries &amp; Benefits</b>    | <b>1,208,507</b>   |
| 52110                                          | Office Supplies                   | 3                  |
| 52170                                          | Copy Machine Supplies             |                    |
| 52180                                          | Equip-Furn < \$5k Minor           | 585                |
| 52183                                          | Dept Non-Ivis Cntr Eq<\$5k        |                    |

| WTD East Operations D4400/S04610 |                                  |                  |             |
|----------------------------------|----------------------------------|------------------|-------------|
|                                  |                                  |                  | Total       |
| IBIS Account (2010, 2011 & 2012) |                                  |                  | 2011 Actual |
| 52187                            | Dept Cntr'Bl Eqpt <\$5k Id# Reqd |                  | 4,836       |
| 52190                            | Software < \$25k/Unit            |                  |             |
| 52191                            | Minor Upgrades/Repairs It Equip  |                  |             |
| 52205                            | Food                             |                  |             |
| 52207                            | Photographic Supplies            |                  |             |
| 52210                            | Recreation Supplies              |                  |             |
| 52212                            | Edp/Computer Supplies            | 48               |             |
| 52215                            | Books/Subscriptions              |                  |             |
| 52216                            | Security Electrncs Suppls        |                  |             |
| 52217                            | Safety Materials                 | 1,317            |             |
| 52218                            | Laboratory Supplies              | 105,528          |             |
| 52220                            | Equip O-M Acct                   |                  |             |
| 52222                            | Radio Parts                      |                  |             |
| 52223                            | Gasoline                         |                  |             |
| 52224                            | Motor Oil                        |                  |             |
| 52225                            | Tires/Tubes                      |                  |             |
| 52226                            | Batteries                        |                  |             |
| 52227                            | Diesel Fuel                      |                  |             |
| 52230                            | Propane                          |                  |             |
| 52233                            | Grease                           |                  |             |
| 52234                            | Anti-Freeze                      |                  |             |
| 52235                            | Cleaning Material                |                  |             |
| 52236                            | Glass                            |                  |             |
| 52240                            | Transit Passes                   |                  |             |
| 52270                            | Odor Control Chemicals           |                  |             |
| 52271                            | Chlorine                         |                  |             |
| 52272                            | Thickening Polymer               | 173,477          |             |
| 52273                            | Water Reuse Chem                 | 39,588           |             |
| 52274                            | Chemicals-Misc                   | 1,997            |             |
| 52275                            | Liquid Oxygen                    |                  |             |
| 52277                            | Sodium Hypochlorite              | 239,965          |             |
| 52278                            | Dewatering Polymer               | 1,348,127        |             |
| 52279                            | Sodium Bisulfite                 | (10,503)         |             |
| 52280                            | Caustic Soda                     | 29,155           |             |
| 52281                            | Carbon                           |                  |             |
| 52282                            | Bioxide                          | 29,290           |             |
| 52290                            | Supplies-Misc                    | 4,432            |             |
| 52291                            | Telcom Supplies                  |                  |             |
| 52310                            | Road Materials/Supplies          |                  |             |
| 52320                            | Bldg Maint Supplies              |                  |             |
| 52380                            | Small Tools                      |                  |             |
| 52390                            | Repair/Maint Supplies            | 2,187            |             |
| 52391                            | Maintenance Parts/Materials      | 2,471            |             |
|                                  | <b>Supplies</b>                  | <b>1,972,502</b> |             |
| 53101                            | Legal Services                   |                  |             |
| 53102                            | Banking Services                 |                  |             |
| 53104                            | Consulting Services              |                  |             |
| 53105                            | Professional Services            | 67               |             |
| 53106                            | Edp-Microfiche/Film Svc          |                  |             |
| 53108                            | Construction Contracts           |                  |             |
| 53114                            | Engineering                      |                  |             |
| 53117                            | Temporary Help                   |                  |             |
| 53121                            | Local Agency Project Cost        |                  |             |
| 53127                            | It Consulting Services           |                  |             |
| 53130                            | Biosolids Haul/Application       |                  |             |
| 53131                            | Grit Haul/Disposal               |                  |             |

| WTD East Operations D4400/S04610 |                                  |                                |             |
|----------------------------------|----------------------------------|--------------------------------|-------------|
|                                  |                                  |                                | Total       |
|                                  | IBIS Account (2010, 2011 & 2012) |                                | 2011 Actual |
|                                  | 53132                            | Edmonds Transfer Flow          |             |
|                                  | 53133                            | Black Diamond/Soos Creek Flows |             |
|                                  | 53134                            | Biosolids Haul                 |             |
|                                  | 53135                            | Biosolids Application          |             |
|                                  | 53141                            | Project Mgmt Svcs              |             |
|                                  | 53180                            | Subcontract-Other              |             |
|                                  | 53210                            | Telephones                     |             |
|                                  | 53211                            | Telecom Svc-Ongoing Chg        |             |
|                                  | 53212                            | Telecom Svc-Onetime Chg        |             |
|                                  | 53213                            | Cell Phone/Pager Services      |             |
|                                  | 53220                            | Postage                        |             |
|                                  | 53230                            | Advertising Media              |             |
|                                  | 53310                            | Travel                         | 638         |
|                                  | 53312                            | Registration For Meetings      | 175         |
|                                  | 53318                            | Private Auto Mileage           |             |
|                                  | 53320                            | Freight & Delivery Svc         |             |
|                                  | 53330                            | Purchased Transportation       |             |
|                                  | 53390                            | Misc Transportation Costs      |             |
|                                  | 53490                            | Insurance Premiums             |             |
|                                  | 53510                            | Natural Gas                    |             |
|                                  | 53520                            | Electricity                    |             |
|                                  | 53530                            | Water/Sewer                    |             |
|                                  | 53540                            | Solid Waste Disposal           |             |
|                                  | 53545                            | Hazardous Waste Disposal       |             |
|                                  | 53547                            | Recyclables Disposal           |             |
|                                  | 53590                            | Utilities-Misc                 |             |
|                                  | 53620                            | Maint-Buildings                |             |
|                                  | 53630                            | Repairs/Maintenance Contracts  | 1,240       |
|                                  | 53634                            | It Equip-Repair/Maint          |             |
|                                  | 53635                            | Repair/Mnt-Medical Equip       |             |
|                                  | 53636                            | Software Lic/Fees Annual       |             |
|                                  | 53640                            | Laundry Services               | 777         |
|                                  | 53690                            | Repair/Maint-Other             |             |
|                                  | 53710                            | Office Rental                  |             |
|                                  | 53711                            | Park/Ride Lot Rental           |             |
|                                  | 53740                            | Rent-EDP Equip                 |             |
|                                  | 53770                            | Rent-Copy Machine              |             |
|                                  | 53790                            | Leases/Rentals-Misc            |             |
|                                  | 53802                            | Judgments/Claims               |             |
|                                  | 53803                            | Dues/Memberships               | 82          |
|                                  | 53804                            | Judgement/Claims-Non Reprtble  |             |
|                                  | 53806                            | Printing                       |             |
|                                  | 53807                            | Permits/Licenses               | 4,520       |
|                                  | 53808                            | Taxes/Assessments-Misc         |             |
|                                  | 53809                            | State Business Tax             |             |
|                                  | 53810                            | Training Costs                 | 1,126       |
|                                  | 53811                            | Tuition Reimbursement          |             |
|                                  | 53812                            | Fines/Penalties                |             |
|                                  | 53813                            | It Training                    |             |
|                                  | 53814                            | Memberships/Dues IT            |             |
|                                  | 53817                            | Arts/Graphics                  |             |
|                                  | 53833                            | Healthy Workplace Chgs         |             |
|                                  | 53864                            | Employee Business Expense      |             |
|                                  | 53890                            | Services-Misc                  | 17,441      |
|                                  | 53891                            | Arbitrage Tax                  |             |
|                                  |                                  | Services/Other Charges         | 26,065      |

| WTD East Operations D4400/S04610 |                                  |                                      |             |
|----------------------------------|----------------------------------|--------------------------------------|-------------|
|                                  |                                  |                                      | Total       |
|                                  | IBIS Account (2010, 2011 & 2012) |                                      | 2011 Actual |
|                                  | 54985                            | Grants to Others                     | 0           |
|                                  |                                  | <b>Contributions Other</b>           |             |
|                                  | 55010                            | Motor Pool                           | 33          |
|                                  | 55020                            | Oirm Ops Rebate [Its O&M Allocation] |             |
|                                  | 55021                            | Computer Use                         |             |
|                                  | 55025                            | Computer Infrastructure              |             |
|                                  | 55026                            | Gis O-M Development                  |             |
|                                  | 55027                            | Tech Service Rebate                  |             |
|                                  | 55028                            | Info Resource Mgmt                   |             |
|                                  | 55029                            | Telecom Rebate                       |             |
|                                  | 55032                            | Telcom Overhead                      |             |
|                                  | 55033                            | Technical Publications               |             |
|                                  | 55034                            | Laboratory Analysis                  |             |
|                                  | 55040                            | Parking Garage Rentals               |             |
|                                  | 55044                            | Wastewater Equipment Rental          |             |
|                                  | 55050                            | Road Equip Er & R                    |             |
|                                  | 55134                            | Parks                                |             |
|                                  | 55142                            | Human Resources Mgmt                 |             |
|                                  | 55144                            | Property Services                    |             |
|                                  | 55145                            | Facilities Management                |             |
|                                  | 55150                            | Prosecuting Attorney                 |             |
|                                  | 55159                            | Fmd Copy Center                      |             |
|                                  | 55201                            | Central Services Overhead            |             |
|                                  | 55203                            | Dot Road Services                    |             |
|                                  | 55204                            | Solid Waste Service Support          |             |
|                                  | 55221                            | Surface Water Management             |             |
|                                  | 55228                            | Local Hazardous Waste Svc/Sppt       |             |
|                                  | 55240                            | Ltd G O Bond Redemp Svc/Sppt         |             |
|                                  | 55245                            | Financial Mgmt Svcs/Sppt             |             |
|                                  | 55247                            | KCIT Services                        |             |
|                                  | 55249                            | Fmd Strategic Initiatv Fee           |             |
|                                  | 55252                            | Insurance - Svc/Sppt                 |             |
|                                  | 55255                            | Financial Mgmt Svcs Rebate           |             |
|                                  | 55257                            | Public Works Er & R Svc/Sppt         |             |
|                                  | 55258                            | Motor Pool Er & R Svc/Sppt           |             |
|                                  | 55260                            | Printing/Graphic Arts Svc/Sppt       |             |
|                                  | 55263                            | Printing Loan Recovery               |             |
|                                  | 55280                            | Public Health Svc/Sppt               |             |
|                                  | 55331                            | Building Mod Rent Reimb              |             |
|                                  | 55342                            | Major Building Reserve               |             |
|                                  | 55345                            | Inet Operating                       |             |
|                                  | 55349                            | Business Resource Dp Svcs            |             |
|                                  | 55350                            | Radio Access                         |             |
|                                  | 55351                            | Radio Maintenance                    |             |
|                                  | 55352                            | Radio Services-General               |             |
|                                  | 55353                            | Radio Equipment                      |             |
|                                  | 55440                            | Dnr-Water Quality Division           |             |
|                                  | 55459                            | Natural Resources Overhead           |             |
|                                  | 55461                            | Transportation Admin                 |             |
|                                  | 55998                            | Intragovmntl Svc Reimbrmt            |             |
|                                  | 57402                            | Interest Expense                     |             |
|                                  | 58001                            | T/T Current Expense                  |             |
|                                  | 58040                            | Transfer To Lmtl Tax Go Bond Rdm     |             |
|                                  | 58077                            | T/T OIRM CIP-Specific Prj            |             |
|                                  | 58145                            | T/T Parks Operating                  |             |

|                                               |                                   |  |                    |
|-----------------------------------------------|-----------------------------------|--|--------------------|
| <b>WTD East Operations D4400/S04610</b>       |                                   |  |                    |
|                                               |                                   |  | <b>Total</b>       |
| IBIS Account (2010, 2011 & 2012)              |                                   |  | <b>2011 Actual</b> |
|                                               | <b>Intragovernmental Service</b>  |  | <b>33</b>          |
| 59411                                         | COLA                              |  |                    |
| 59412                                         | Merit                             |  |                    |
| 59895                                         | Salary & Wage Contingency         |  |                    |
| 59899                                         | Contingency Reserve               |  |                    |
| 59987                                         | Correctn Ordinance Contra         |  |                    |
| 59990                                         | Expense Reclass                   |  |                    |
| 59999                                         | Loan Out Labor                    |  |                    |
|                                               | <b>Contras/Contingencies</b>      |  | <b>0</b>           |
| <b>TOTAL East Process Control 4460/461084</b> |                                   |  | <b>3,207,107</b>   |
|                                               |                                   |  |                    |
| <b>East Day Operations 4480/461085</b>        |                                   |  |                    |
| 51110                                         | Salaries-Regular                  |  | 1,212,635          |
| 51115                                         | Retro Labor Accrual               |  |                    |
| 51120                                         | Temporary                         |  | 18,504             |
| 51130                                         | Salaries-Overtime                 |  | 20,275             |
| 51143                                         | Duty Assignment                   |  | 36                 |
| 51144                                         | Shift Differential                |  | 53                 |
| 51156                                         | Budgeted Salary Savings           |  |                    |
| 51157                                         | Productivity/Gain Sharing Payment |  | 1,952              |
| 51161                                         | Vacation Expense                  |  | 17,481             |
| 51162                                         | Sick Leave Expense                |  |                    |
| 51163                                         | Holiday Pay                       |  |                    |
| 51164                                         | Jury Duty                         |  | 1,449              |
| 51165                                         | Military Leave                    |  |                    |
| 51166                                         | Funeral Leave                     |  | 8,074              |
| 51168                                         | Furlough Replacement Time         |  | 1,187              |
| 51169                                         | Other Paid Time Off               |  | 244,897            |
| 51194                                         | Loan Out Labor(Manual)            |  |                    |
| 51304                                         | Excess Compensation               |  |                    |
| 51305                                         | Supplemental 587 Worker'S Comp    |  |                    |
| 51315                                         | Flex Benefit Combined Chg         |  | 308,422            |
| 51320                                         | Oasi/Fica                         |  | 118,381            |
| 51330                                         | Retirement                        |  | 93,711             |
| 51331                                         | Pers 1 Bene-Vac/SI Payoff         |  |                    |
| 51335                                         | Pension Trust 117rwt              |  | 2,091              |
| 51340                                         | Industrial Insurance/Sspf         |  |                    |
| 51370                                         | Unemployment Compensation         |  |                    |
| 51380                                         | Uniform Allowance                 |  |                    |
| 51392                                         | Retro Benefit Accrual             |  |                    |
| 51395                                         | Manual Benefit Budget Adjustment  |  |                    |
| 51396                                         | Salary & Wage Reserve             |  |                    |
|                                               | <b>Salaries &amp; Benefits</b>    |  | <b>2,049,149</b>   |
| 52110                                         | Office Supplies                   |  |                    |
| 52170                                         | Copy Machine Supplies             |  |                    |
| 52180                                         | Equip-Furn < \$5k Minor           |  |                    |
| 52183                                         | Dept Non-Ivis Cntr Eq<\$5k        |  |                    |
| 52187                                         | Dept Cntr'Bl Eqpt <\$5k Id# Reqd  |  |                    |
| 52190                                         | Software < \$25k/Unit             |  |                    |
| 52191                                         | Minor Upgrades/Repairs It Equip   |  |                    |
| 52205                                         | Food                              |  | 37                 |
| 52207                                         | Photographic Supplies             |  |                    |
| 52210                                         | Recreation Supplies               |  |                    |
| 52212                                         | Edp/Computer Supplies             |  |                    |

| WTD East Operations D4400/S04610 |                                |  |                |
|----------------------------------|--------------------------------|--|----------------|
|                                  |                                |  | Total          |
| IBIS Account (2010, 2011 & 2012) |                                |  | 2011 Actual    |
| 52215                            | Books/Subscriptions            |  |                |
| 52216                            | Security Electrnics Suppls     |  |                |
| 52217                            | Safety Materials               |  | 2,229          |
| 52218                            | Laboratory Supplies            |  |                |
| 52220                            | Equip O-M Acct                 |  |                |
| 52222                            | Radio Parts                    |  |                |
| 52223                            | Gasoline                       |  | 10             |
| 52224                            | Motor Oil                      |  |                |
| 52225                            | Tires/Tubes                    |  |                |
| 52226                            | Batteries                      |  |                |
| 52227                            | Diesel Fuel                    |  | 21             |
| 52230                            | Propane                        |  |                |
| 52233                            | Grease                         |  |                |
| 52234                            | Anti-Freeze                    |  |                |
| 52235                            | Cleaning Material              |  |                |
| 52236                            | Glass                          |  |                |
| 52240                            | Transit Passes                 |  |                |
| 52270                            | Odor Control Chemicals         |  |                |
| 52271                            | Chlorine                       |  |                |
| 52272                            | Thickening Polymer             |  |                |
| 52273                            | Water Reuse Chem               |  |                |
| 52274                            | Chemicals-Misc                 |  | 15,662         |
| 52275                            | Liquid Oxygen                  |  |                |
| 52277                            | Sodium Hypochlorite            |  | 2,665          |
| 52278                            | Dewatering Polymer             |  |                |
| 52279                            | Sodium Bisulfite               |  |                |
| 52280                            | Caustic Soda                   |  |                |
| 52281                            | Carbon                         |  |                |
| 52282                            | Bioxide                        |  |                |
| 52290                            | Supplies-Misc                  |  | 37,278         |
| 52291                            | Telcom Supplies                |  |                |
| 52310                            | Road Materials/Supplies        |  |                |
| 52320                            | Bldg Maint Supplies            |  |                |
| 52380                            | Small Tools                    |  | 4,985          |
| 52390                            | Repair/Maint Supplies          |  | 1,562          |
| 52391                            | Maintenance Parts/Materials    |  | 47,001         |
|                                  | <b>Supplies</b>                |  | <b>111,449</b> |
| 53101                            | Legal Services                 |  |                |
| 53102                            | Banking Services               |  |                |
| 53104                            | Consulting Services            |  |                |
| 53105                            | Professional Services          |  | 1,346          |
| 53106                            | Edp-Microfiche/Film Svc        |  |                |
| 53108                            | Construction Contracts         |  |                |
| 53114                            | Engineering                    |  |                |
| 53117                            | Temporary Help                 |  |                |
| 53121                            | Local Agency Project Cost      |  |                |
| 53127                            | It Consulting Services         |  |                |
| 53130                            | Biosolids Haul/Application     |  |                |
| 53131                            | Grit Haul/Disposal             |  |                |
| 53132                            | Edmonds Transfer Flow          |  |                |
| 53133                            | Black Diamond/Soos Creek Flows |  |                |
| 53134                            | Biosolids Haul                 |  |                |
| 53135                            | Biosolids Application          |  |                |
| 53141                            | Project Mgmt Svcs              |  |                |
| 53180                            | Subcontract-Other              |  |                |
| 53210                            | Telephones                     |  |                |

| WTD East Operations D4400/S04610 |                                      |               |
|----------------------------------|--------------------------------------|---------------|
|                                  |                                      | Total         |
| IBIS Account (2010, 2011 & 2012) |                                      | 2011 Actual   |
| 53211                            | Telecom Svc-Ongoing Chg              |               |
| 53212                            | Telecom Svc-Onetime Chg              |               |
| 53213                            | Cell Phone/Pager Services            |               |
| 53220                            | Postage                              |               |
| 53230                            | Advertising Media                    |               |
| 53310                            | Travel                               | 566           |
| 53312                            | Registration For Meetings            | 350           |
| 53318                            | Private Auto Mileage                 |               |
| 53320                            | Freight & Delivery Svc               |               |
| 53330                            | Purchased Transportation             |               |
| 53390                            | Misc Transportation Costs            |               |
| 53490                            | Insurance Premiums                   |               |
| 53510                            | Natural Gas                          |               |
| 53520                            | Electricity                          |               |
| 53530                            | Water/Sewer                          |               |
| 53540                            | Solid Waste Disposal                 |               |
| 53545                            | Hazardous Waste Disposal             |               |
| 53547                            | Recyclables Disposal                 |               |
| 53590                            | Utilities-Misc                       |               |
| 53620                            | Maint-Buildings                      |               |
| 53630                            | Repairs/Maintenance Contracts        | 1,645         |
| 53634                            | It Equip-Repair/Maint                |               |
| 53635                            | Repair/Mnt-Medical Equip             |               |
| 53636                            | Software Lic/Fees Annual             |               |
| 53640                            | Laundry Services                     | 4,809         |
| 53690                            | Repair/Maint-Other                   |               |
| 53710                            | Office Rental                        |               |
| 53711                            | Park/Ride Lot Rental                 |               |
| 53740                            | Rent-EDP Equip                       |               |
| 53770                            | Rent-Copy Machine                    |               |
| 53790                            | Leases/Rentals-Misc                  |               |
| 53802                            | Judgments/Claims                     |               |
| 53803                            | Dues/Memberships                     |               |
| 53804                            | Judgement/Claims-Non Reprtble        |               |
| 53806                            | Printing                             |               |
| 53807                            | Permits/Licenses                     |               |
| 53808                            | Taxes/Assessments-Misc               |               |
| 53809                            | State Business Tax                   |               |
| 53810                            | Training Costs                       | 655           |
| 53811                            | Tuition Reimbursement                |               |
| 53812                            | Fines/Penalties                      |               |
| 53813                            | It Training                          |               |
| 53814                            | Memberships/Dues IT                  |               |
| 53817                            | Arts/Graphics                        |               |
| 53833                            | Healthy Workplace Chgs               |               |
| 53864                            | Employee Business Expense            |               |
| 53890                            | Services-Misc                        | 8,518         |
| 53891                            | Arbitrage Tax                        |               |
|                                  | <b>Services/Other Charges</b>        | <b>17,889</b> |
| 54985                            | Grants to Others                     |               |
|                                  | <b>Contributions Other</b>           | <b>0</b>      |
| 55010                            | Motor Pool                           |               |
| 55020                            | Oirm Ops Rebate [Its O&M Allocation] |               |
| 55021                            | Computer Use                         |               |
| 55025                            | Computer Infrastructure              |               |
| 55026                            | Gis O-M Development                  |               |

| WTD East Operations D4400/S04610 |                                  |                |
|----------------------------------|----------------------------------|----------------|
|                                  |                                  | Total          |
| IBIS Account (2010, 2011 & 2012) |                                  | 2011 Actual    |
| 55027                            | Tech Service Rebate              |                |
| 55028                            | Info Resource Mgmt               |                |
| 55029                            | Telecom Rebate                   |                |
| 55032                            | Telecom Overhead                 |                |
| 55033                            | Technical Publications           |                |
| 55034                            | Laboratory Analysis              |                |
| 55040                            | Parking Garage Rentals           |                |
| 55044                            | Wastewater Equipment Rental      | 109,870        |
| 55050                            | Road Equip Er & R                |                |
| 55134                            | Parks                            |                |
| 55142                            | Human Resources Mgmt             |                |
| 55144                            | Property Services                |                |
| 55145                            | Facilities Management            |                |
| 55150                            | Prosecuting Attorney             |                |
| 55159                            | Fmd Copy Center                  | 33             |
| 55201                            | Central Services Overhead        |                |
| 55203                            | Dot Road Services                |                |
| 55204                            | Solid Waste Service Support      |                |
| 55221                            | Surface Water Management         |                |
| 55228                            | Local Hazardous Waste Svc/Sppt   |                |
| 55240                            | Ltd G O Bond Redemp Svc/Sppt     |                |
| 55245                            | Financial Mgmt Svcs/Sppt         |                |
| 55247                            | KCIT Services                    |                |
| 55249                            | Fmd Strategic Initiatv Fee       |                |
| 55252                            | Insurance - Svc/Sppt             |                |
| 55255                            | Financial Mgmt Svcs Rebate       |                |
| 55257                            | Public Works Er & R Svc/Sppt     | 2,750          |
| 55258                            | Motor Pool Er & R Svc/Sppt       |                |
| 55260                            | Printing/Graphic Arts Svc/Sppt   |                |
| 55263                            | Printing Loan Recovery           |                |
| 55280                            | Public Health Svc/Sppt           |                |
| 55331                            | Building Mod Rent Reimb          |                |
| 55342                            | Major Building Reserve           |                |
| 55345                            | Inet Operating                   |                |
| 55349                            | Business Resource Dp Svcs        |                |
| 55350                            | Radio Access                     |                |
| 55351                            | Radio Maintenance                |                |
| 55352                            | Radio Services-General           |                |
| 55353                            | Radio Equipment                  |                |
| 55440                            | Dnr-Water Quality Division       |                |
| 55459                            | Natural Resources Overhead       |                |
| 55461                            | Transportation Admin             |                |
| 55998                            | Intragovmntl Svc Reimbrmt        |                |
| 57402                            | Interest Expense                 |                |
| 58001                            | T/T Current Expense              |                |
| 58040                            | Transfer To Lmtl Tax Go Bond Rdm |                |
| 58077                            | T/T OIRM CIP-Specific Prj        |                |
| 58145                            | T/T Parks Operating              |                |
|                                  | <b>Intragovernmental Service</b> | <b>112,653</b> |
| 59411                            | COLA                             |                |
| 59412                            | Merit                            |                |
| 59895                            | Salary & Wage Contingency        |                |
| 59899                            | Contingency Reserve              |                |
| 59987                            | Correctn Ordinance Contra        |                |
| 59990                            | Expense Reclass                  | (6,552)        |

| WTD East Operations D4400/S04610      |                                  |                                   |             |
|---------------------------------------|----------------------------------|-----------------------------------|-------------|
|                                       |                                  |                                   | Total       |
|                                       | IBIS Account (2010, 2011 & 2012) |                                   |             |
|                                       | 59999                            | Loan Out Labor                    | 2011 Actual |
|                                       |                                  | Contras/Contingencies             |             |
| TOTAL East Day Operations 4480/461085 |                                  |                                   | (6,552)     |
|                                       |                                  |                                   | 2,284,587   |
|                                       |                                  |                                   |             |
|                                       |                                  |                                   |             |
| East Electrical IC 4491/461086        |                                  |                                   |             |
|                                       | 51110                            | Salaries-Regular                  | 1,090,197   |
|                                       | 51115                            | Retro Labor Accrual               |             |
|                                       | 51120                            | Temporary                         |             |
|                                       | 51130                            | Salaries-Overtime                 | 8,303       |
|                                       | 51143                            | Duty Assignment                   |             |
|                                       | 51144                            | Shift Differential                | 825         |
|                                       | 51156                            | Budgeted Salary Savings           |             |
|                                       | 51157                            | Productivity/Gain Sharing Payment | 1,407       |
|                                       | 51161                            | Vacation Expense                  | 28,701      |
|                                       | 51162                            | Sick Leave Expense                | 8,290       |
|                                       | 51163                            | Holiday Pay                       |             |
|                                       | 51164                            | Jury Duty                         |             |
|                                       | 51165                            | Military Leave                    |             |
|                                       | 51166                            | Funeral Leave                     | 4,643       |
|                                       | 51168                            | Furlough Replacement Time         | 3,320       |
|                                       | 51169                            | Other Paid Time Off               | 177,210     |
|                                       | 51194                            | Loan Out Labor(Manual)            |             |
|                                       | 51304                            | Excess Compensation               |             |
|                                       | 51305                            | Supplemental 587 Worker'S Comp    |             |
|                                       | 51315                            | Flex Benefit Combined Chg         | 214,345     |
|                                       | 51320                            | Oasi/Fica                         | 99,394      |
|                                       | 51330                            | Retirement                        | 81,542      |
|                                       | 51331                            | Pers 1 Bene-Vac/Sl Payoff         |             |
|                                       | 51335                            | Pension Trust 117rwt              | 5,857       |
|                                       | 51340                            | Industrial Insurance/Sspf         |             |
|                                       | 51370                            | Unemployment Compensation         |             |
|                                       | 51380                            | Uniform Allowance                 |             |
|                                       | 51392                            | Retro Benefit Accrual             |             |
|                                       | 51395                            | Manual Benefit Budget Adjustment  |             |
|                                       | 51396                            | Salary & Wage Reserve             |             |
|                                       |                                  | Salaries & Benefits               | 1,724,034   |
|                                       | 52110                            | Office Supplies                   | 2,911       |
|                                       | 52170                            | Copy Machine Supplies             |             |
|                                       | 52180                            | Equip-Furn < \$5k Minor           | 315         |
|                                       | 52183                            | Dept Non-Ivis Cntr Eq<\$5k        |             |
|                                       | 52187                            | Dept Cntr'Bl Eqpt <\$5k Id# Reqd  | 1,052       |
|                                       | 52190                            | Software < \$25k/Unit             |             |
|                                       | 52191                            | Minor Upgrades/Repairs It Equip   |             |
|                                       | 52205                            | Food                              | 46          |
|                                       | 52207                            | Photographic Supplies             |             |
|                                       | 52210                            | Recreation Supplies               |             |
|                                       | 52212                            | Edp/Computer Supplies             | 8,995       |
|                                       | 52215                            | Books/Subscriptions               | 1,552       |
|                                       | 52216                            | Security Electrncs Suppls         |             |
|                                       | 52217                            | Safety Materials                  | 1,351       |
|                                       | 52218                            | Laboratory Supplies               | (256)       |

| WTD East Operations D4400/S04610 |                                  |                                |             |
|----------------------------------|----------------------------------|--------------------------------|-------------|
|                                  |                                  |                                | Total       |
|                                  | IBIS Account (2010, 2011 & 2012) |                                |             |
|                                  |                                  |                                | 2011 Actual |
|                                  | 52220                            | Equip O-M Acct                 |             |
|                                  | 52222                            | Radio Parts                    |             |
|                                  | 52223                            | Gasoline                       |             |
|                                  | 52224                            | Motor Oil                      |             |
|                                  | 52225                            | Tires/Tubes                    |             |
|                                  | 52226                            | Batteries                      |             |
|                                  | 52227                            | Diesel Fuel                    |             |
|                                  | 52230                            | Propane                        |             |
|                                  | 52233                            | Grease                         |             |
|                                  | 52234                            | Anti-Freeze                    |             |
|                                  | 52235                            | Cleaning Material              |             |
|                                  | 52236                            | Glass                          |             |
|                                  | 52240                            | Transit Passes                 |             |
|                                  | 52270                            | Odor Control Chemicals         |             |
|                                  | 52271                            | Chlorine                       |             |
|                                  | 52272                            | Thickening Polymer             |             |
|                                  | 52273                            | Water Reuse Chem               |             |
|                                  | 52274                            | Chemicals-Misc                 |             |
|                                  | 52275                            | Liquid Oxygen                  |             |
|                                  | 52277                            | Sodium Hypochlorite            |             |
|                                  | 52278                            | Dewatering Polymer             |             |
|                                  | 52279                            | Sodium Bisulfite               |             |
|                                  | 52280                            | Caustic Soda                   |             |
|                                  | 52281                            | Carbon                         |             |
|                                  | 52282                            | Bioxide                        |             |
|                                  | 52290                            | Supplies-Misc                  | 46,550      |
|                                  | 52291                            | Telcom Supplies                |             |
|                                  | 52310                            | Road Materials/Supplies        | 216         |
|                                  | 52320                            | Bldg Maint Supplies            |             |
|                                  | 52380                            | Small Tools                    | 8,143       |
|                                  | 52390                            | Repair/Maint Supplies          | 4,162       |
|                                  | 52391                            | Maintenance Parts/Materials    | 349,937     |
|                                  |                                  | Supplies                       | 424,975     |
|                                  | 53101                            | Legal Services                 |             |
|                                  | 53102                            | Banking Services               |             |
|                                  | 53104                            | Consulting Services            |             |
|                                  | 53105                            | Professional Services          | 19          |
|                                  | 53106                            | Edp-Microfiche/Film Svc        |             |
|                                  | 53108                            | Construction Contracts         |             |
|                                  | 53114                            | Engineering                    |             |
|                                  | 53117                            | Temporary Help                 |             |
|                                  | 53121                            | Local Agency Project Cost      |             |
|                                  | 53127                            | It Consulting Services         |             |
|                                  | 53130                            | Biosolids Haul/Application     |             |
|                                  | 53131                            | Grit Haul/Disposal             |             |
|                                  | 53132                            | Edmonds Transfer Flow          |             |
|                                  | 53133                            | Black Diamond/Soos Creek Flows |             |
|                                  | 53134                            | Biosolids Haul                 |             |
|                                  | 53135                            | Biosolids Application          |             |
|                                  | 53141                            | Project Mgmt Svcs              |             |
|                                  | 53180                            | Subcontract-Other              |             |
|                                  | 53210                            | Telephones                     |             |
|                                  | 53211                            | Telecom Svc-Ongoing Chg        |             |
|                                  | 53212                            | Telecom Svc-Onetime Chg        |             |
|                                  | 53213                            | Cell Phone/Pager Services      |             |
|                                  | 53220                            | Postage                        |             |

| WTD East Operations D4400/S04610 |                                      |               |
|----------------------------------|--------------------------------------|---------------|
|                                  |                                      | Total         |
| IBIS Account (2010, 2011 & 2012) |                                      | 2011 Actual   |
| 53230                            | Advertising Media                    |               |
| 53310                            | Travel                               | 1,596         |
| 53312                            | Registration For Meetings            |               |
| 53318                            | Private Auto Mileage                 |               |
| 53320                            | Freight & Delivery Svc               |               |
| 53330                            | Purchased Transportation             |               |
| 53390                            | Misc Transportation Costs            |               |
| 53490                            | Insurance Premiums                   |               |
| 53510                            | Natural Gas                          |               |
| 53520                            | Electricity                          |               |
| 53530                            | Water/Sewer                          |               |
| 53540                            | Solid Waste Disposal                 |               |
| 53545                            | Hazardous Waste Disposal             |               |
| 53547                            | Recyclables Disposal                 |               |
| 53590                            | Utilities-Misc                       |               |
| 53620                            | Maint-Buildings                      |               |
| 53630                            | Repairs/Maintenance Contracts        | 14,872        |
| 53634                            | It Equip-Repair/Maint                |               |
| 53635                            | Repair/Mnt-Medical Equip             |               |
| 53636                            | Software Lic/Fees Annual             |               |
| 53640                            | Laundry Services                     | 4,586         |
| 53690                            | Repair/Maint-Other                   | 673           |
| 53710                            | Office Rental                        |               |
| 53711                            | Park/Ride Lot Rental                 |               |
| 53740                            | Rent-EDP Equip                       |               |
| 53770                            | Rent-Copy Machine                    |               |
| 53790                            | Leases/Rentals-Misc                  |               |
| 53802                            | Judgments/Claims                     |               |
| 53803                            | Dues/Memberships                     |               |
| 53804                            | Judgement/Claims-Non Reprtble        |               |
| 53806                            | Printing                             |               |
| 53807                            | Permits/Licenses                     | 100           |
| 53808                            | Taxes/Assessments-Misc               |               |
| 53809                            | State Business Tax                   |               |
| 53810                            | Training Costs                       | 2,580         |
| 53811                            | Tuition Reimbursement                |               |
| 53812                            | Fines/Penalties                      |               |
| 53813                            | It Training                          |               |
| 53814                            | Memberships/Dues IT                  |               |
| 53817                            | Arts/Graphics                        |               |
| 53833                            | Healthy Workplace Chgs               |               |
| 53864                            | Employee Business Expense            |               |
| 53890                            | Services-Misc                        | 2,703         |
| 53891                            | Arbitrage Tax                        |               |
|                                  | <b>Services/Other Charges</b>        | <b>27,130</b> |
| 54985                            | Grants to Others                     |               |
|                                  | <b>Contributions Other</b>           | <b>0</b>      |
| 55010                            | Motor Pool                           |               |
| 55020                            | Oirm Ops Rebate [Its O&M Allocation] |               |
| 55021                            | Computer Use                         |               |
| 55025                            | Computer Infrastructure              |               |
| 55026                            | Gis O-M Development                  |               |
| 55027                            | Tech Service Rebate                  |               |
| 55028                            | Info Resource Mgmt                   |               |
| 55029                            | Telecom Rebate                       |               |
| 55032                            | Telcom Overhead                      |               |

| WTD East Operations D4400/S04610            |                                   |                  |
|---------------------------------------------|-----------------------------------|------------------|
|                                             |                                   | Total            |
| IBIS Account (2010, 2011 & 2012)            |                                   | 2011 Actual      |
| 55033                                       | Technical Publications            | 74,807           |
| 55034                                       | Laboratory Analysis               |                  |
| 55040                                       | Parking Garage Rentals            |                  |
| 55044                                       | Wastewater Equipment Rental       |                  |
| 55050                                       | Road Equip Er & R                 |                  |
| 55134                                       | Parks                             |                  |
| 55142                                       | Human Resources Mgmt              |                  |
| 55144                                       | Property Services                 |                  |
| 55145                                       | Facilities Management             |                  |
| 55150                                       | Prosecuting Attorney              |                  |
| 55159                                       | Fmd Copy Center                   |                  |
| 55201                                       | Central Services Overhead         |                  |
| 55203                                       | Dot Road Services                 |                  |
| 55204                                       | Solid Waste Service Support       |                  |
| 55221                                       | Surface Water Management          |                  |
| 55228                                       | Local Hazardous Waste Svc/Sppt    |                  |
| 55240                                       | Ltd G O Bond Redemp Svc/Sppt      |                  |
| 55245                                       | Financial Mgmt Svcs/Sppt          |                  |
| 55247                                       | KCIT Services                     |                  |
| 55249                                       | Fmd Strategic Initiatv Fee        |                  |
| 55252                                       | Insurance - Svc/Sppt              | 167              |
| 55255                                       | Financial Mgmt Svcs Rebate        |                  |
| 55257                                       | Public Works Er & R Svc/Sppt      |                  |
| 55258                                       | Motor Pool Er & R Svc/Sppt        |                  |
| 55260                                       | Printing/Graphic Arts Svc/Sppt    |                  |
| 55263                                       | Printing Loan Recovery            |                  |
| 55280                                       | Public Health Svc/Sppt            |                  |
| 55331                                       | Building Mod Rent Reimb           |                  |
| 55342                                       | Major Building Reserve            |                  |
| 55345                                       | Inet Operating                    |                  |
| 55349                                       | Business Resource Dp Svcs         | 74,974           |
| 55350                                       | Radio Access                      |                  |
| 55351                                       | Radio Maintenance                 |                  |
| 55352                                       | Radio Services-General            |                  |
| 55353                                       | Radio Equipment                   |                  |
| 55440                                       | Dnr-Water Quality Division        |                  |
| 55459                                       | Natural Resources Overhead        |                  |
| 55461                                       | Transportation Admin              |                  |
| 55998                                       | Intragovmntl Svc Reimbrmt         |                  |
| 57402                                       | Interest Expense                  |                  |
| 58001                                       | T/T Current Expense               | (39,806)         |
| 58040                                       | Transfer To Lmted Tax Go Bond Rdm |                  |
| 58077                                       | T/T OIRM CIP-Specific Prj         |                  |
| 58145                                       | T/T Parks Operating               |                  |
|                                             | <b>Intragovernmental Service</b>  |                  |
| 59411                                       | COLA                              | (39,806)         |
| 59412                                       | Merit                             |                  |
| 59895                                       | Salary & Wage Contingency         |                  |
| 59899                                       | Contingency Reserve               |                  |
| 59987                                       | Correctn Ordinance Contra         | (39,806)         |
| 59990                                       | Expense Reclass                   |                  |
| 59999                                       | Loan Out Labor                    |                  |
|                                             | <b>Contras/Contingencies</b>      | <b>(39,806)</b>  |
| <b>TOTAL East Electrical IC 4491/461086</b> |                                   | <b>2,211,306</b> |

|                                         |                                   |                    |
|-----------------------------------------|-----------------------------------|--------------------|
| <b>WTD East Operations D4400/S04610</b> |                                   |                    |
|                                         |                                   | <b>Total</b>       |
| IBIS Account (2010, 2011 & 2012)        |                                   | <b>2011 Actual</b> |
| <b>East Mechanical 4720/461087</b>      |                                   |                    |
| 51110                                   | Salaries-Regular                  | 1,331,157          |
| 51115                                   | Retro Labor Accrual               |                    |
| 51120                                   | Temporary                         |                    |
| 51130                                   | Salaries-Overtime                 | 8,426              |
| 51143                                   | Duty Assignment                   | 142                |
| 51144                                   | Shift Differential                | 763                |
| 51156                                   | Budgeted Salary Savings           |                    |
| 51157                                   | Productivity/Gain Sharing Payment | 1,571              |
| 51161                                   | Vacation Expense                  | 11,652             |
| 51162                                   | Sick Leave Expense                | 2,322              |
| 51163                                   | Holiday Pay                       |                    |
| 51164                                   | Jury Duty                         |                    |
| 51165                                   | Military Leave                    |                    |
| 51166                                   | Funeral Leave                     | 3,421              |
| 51168                                   | Furlough Replacement Time         | 1,886              |
| 51169                                   | Other Paid Time Off               | 225,299            |
| 51194                                   | Loan Out Labor(Manual)            |                    |
| 51304                                   | Excess Compensation               |                    |
| 51305                                   | Supplemental 587 Worker'S Comp    |                    |
| 51315                                   | Flex Benefit Combined Chg         | 288,074            |
| 51320                                   | Oasi/Fica                         | 122,540            |
| 51330                                   | Retirement                        | 98,973             |
| 51331                                   | Pers 1 Bene-Vac/Sl Payoff         |                    |
| 51335                                   | Pension Trust 117rwt              | 1,988              |
| 51340                                   | Industrial Insurance/Sspf         |                    |
| 51370                                   | Unemployment Compensation         |                    |
| 51380                                   | Uniform Allowance                 |                    |
| 51392                                   | Retro Benefit Accrual             |                    |
| 51395                                   | Manual Benefit Budget Adjustment  |                    |
| 51396                                   | Salary & Wage Reserve             |                    |
| <b>Salaries &amp; Benefits</b>          |                                   | <b>2,098,215</b>   |
| 52110                                   | Office Supplies                   |                    |
| 52170                                   | Copy Machine Supplies             |                    |
| 52180                                   | Equip-Furn < \$5k Minor           | 721                |
| 52183                                   | Dept Non-Ivis Cntr Eq<\$5k        |                    |
| 52187                                   | Dept Cntr'BI Eqpt <\$5k Id# Reqd  |                    |
| 52190                                   | Software < \$25k/Unit             |                    |
| 52191                                   | Minor Upgrades/Repairs It Equip   |                    |
| 52205                                   | Food                              |                    |
| 52207                                   | Photographic Supplies             |                    |
| 52210                                   | Recreation Supplies               | 259                |
| 52212                                   | Edp/Computer Supplies             | 149                |
| 52215                                   | Books/Subscriptions               |                    |
| 52216                                   | Security Electrncs Suppls         |                    |
| 52217                                   | Safety Materials                  | 2,327              |
| 52218                                   | Laboratory Supplies               |                    |
| 52220                                   | Equip O-M Acct                    |                    |
| 52222                                   | Radio Parts                       |                    |
| 52223                                   | Gasoline                          |                    |
| 52224                                   | Motor Oil                         | 14,783             |
| 52225                                   | Tires/Tubes                       |                    |
| 52226                                   | Batteries                         |                    |
| 52227                                   | Diesel Fuel                       |                    |

| WTD East Operations D4400/S04610 |                                |  |                  |
|----------------------------------|--------------------------------|--|------------------|
|                                  |                                |  | Total            |
| IBIS Account (2010, 2011 & 2012) |                                |  | 2011 Actual      |
| 52230                            | Propane                        |  | 191              |
| 52233                            | Grease                         |  | 13,600           |
| 52234                            | Anti-Freeze                    |  |                  |
| 52235                            | Cleaning Material              |  |                  |
| 52236                            | Glass                          |  |                  |
| 52240                            | Transit Passes                 |  |                  |
| 52270                            | Odor Control Chemicals         |  |                  |
| 52271                            | Chlorine                       |  |                  |
| 52272                            | Thickening Polymer             |  |                  |
| 52273                            | Water Reuse Chem               |  |                  |
| 52274                            | Chemicals-Misc                 |  | 29,569           |
| 52275                            | Liquid Oxygen                  |  |                  |
| 52277                            | Sodium Hypochlorite            |  |                  |
| 52278                            | Dewatering Polymer             |  |                  |
| 52279                            | Sodium Bisulfite               |  |                  |
| 52280                            | Caustic Soda                   |  |                  |
| 52281                            | Carbon                         |  |                  |
| 52282                            | Bioxide                        |  |                  |
| 52290                            | Supplies-Misc                  |  | 81,182           |
| 52291                            | Telcom Supplies                |  |                  |
| 52310                            | Road Materials/Supplies        |  | 126              |
| 52320                            | Bldg Maint Supplies            |  |                  |
| 52380                            | Small Tools                    |  | 11,274           |
| 52390                            | Repair/Maint Supplies          |  | 234,054          |
| 52391                            | Maintenance Parts/Materials    |  | 886,372          |
|                                  | <b>Supplies</b>                |  | <b>1,274,608</b> |
| 53101                            | Legal Services                 |  |                  |
| 53102                            | Banking Services               |  |                  |
| 53104                            | Consulting Services            |  |                  |
| 53105                            | Professional Services          |  | 8,201            |
| 53106                            | Edp-Microfiche/Film Svc        |  |                  |
| 53108                            | Construction Contracts         |  |                  |
| 53114                            | Engineering                    |  |                  |
| 53117                            | Temporary Help                 |  |                  |
| 53121                            | Local Agency Project Cost      |  |                  |
| 53127                            | It Consulting Services         |  |                  |
| 53130                            | Biosolids Haul/Application     |  |                  |
| 53131                            | Grit Haul/Disposal             |  |                  |
| 53132                            | Edmonds Transfer Flow          |  |                  |
| 53133                            | Black Diamond/Soos Creek Flows |  |                  |
| 53134                            | Biosolids Haul                 |  |                  |
| 53135                            | Biosolids Application          |  |                  |
| 53141                            | Project Mgmt Svcs              |  |                  |
| 53180                            | Subcontract-Other              |  |                  |
| 53210                            | Telephones                     |  |                  |
| 53211                            | Telecom Svc-Ongoing Chg        |  |                  |
| 53212                            | Telecom Svc-Onetime Chg        |  |                  |
| 53213                            | Cell Phone/Pager Services      |  |                  |
| 53220                            | Postage                        |  | 6                |
| 53230                            | Advertising Media              |  |                  |
| 53310                            | Travel                         |  |                  |
| 53312                            | Registration For Meetings      |  |                  |
| 53318                            | Private Auto Mileage           |  | 21               |
| 53320                            | Freight & Delivery Svc         |  | 221              |
| 53330                            | Purchased Transportation       |  |                  |
| 53390                            | Misc Transportation Costs      |  |                  |

| WTD East Operations D4400/S04610 |                                      |               |
|----------------------------------|--------------------------------------|---------------|
|                                  |                                      | Total         |
| IBIS Account (2010, 2011 & 2012) |                                      | 2011 Actual   |
| 53490                            | Insurance Premiums                   |               |
| 53510                            | Natural Gas                          |               |
| 53520                            | Electricity                          |               |
| 53530                            | Water/Sewer                          |               |
| 53540                            | Solid Waste Disposal                 |               |
| 53545                            | Hazardous Waste Disposal             |               |
| 53547                            | Recyclables Disposal                 |               |
| 53590                            | Utilities-Misc                       |               |
| 53620                            | Maint-Buildings                      |               |
| 53630                            | Repairs/Maintenance Contracts        | 27,631        |
| 53634                            | It Equip-Repair/Maint                |               |
| 53635                            | Repair/Mnt-Medical Equip             |               |
| 53636                            | Software Lic/Fees Annual             |               |
| 53640                            | Laundry Services                     | 8,319         |
| 53690                            | Repair/Maint-Other                   | 1,473         |
| 53710                            | Office Rental                        |               |
| 53711                            | Park/Ride Lot Rental                 |               |
| 53740                            | Rent-EDP Equip                       |               |
| 53770                            | Rent-Copy Machine                    |               |
| 53790                            | Leases/Rentals-Misc                  | 718           |
| 53802                            | Judgments/Claims                     |               |
| 53803                            | Dues/Memberships                     |               |
| 53804                            | Judgement/Claims-Non Reprtble        |               |
| 53806                            | Printing                             |               |
| 53807                            | Permits/Licenses                     |               |
| 53808                            | Taxes/Assessments-Misc               |               |
| 53809                            | State Business Tax                   |               |
| 53810                            | Training Costs                       | 1,840         |
| 53811                            | Tuition Reimbursement                |               |
| 53812                            | Fines/Penalties                      |               |
| 53813                            | It Training                          |               |
| 53814                            | Memberships/Dues IT                  |               |
| 53817                            | Arts/Graphics                        |               |
| 53833                            | Healthy Workplace Chgs               |               |
| 53864                            | Employee Business Expense            | 51            |
| 53890                            | Services-Misc                        | 27,832        |
| 53891                            | Arbitrage Tax                        |               |
|                                  | <b>Services/Other Charges</b>        | <b>76,315</b> |
| 54985                            | Grants to Others                     |               |
|                                  | <b>Contributions Other</b>           | <b>0</b>      |
| 55010                            | Motor Pool                           |               |
| 55020                            | Oirm Ops Rebate [Its O&M Allocation] |               |
| 55021                            | Computer Use                         |               |
| 55025                            | Computer Infrastructure              |               |
| 55026                            | Gis O-M Development                  |               |
| 55027                            | Tech Service Rebate                  |               |
| 55028                            | Info Resource Mgmt                   |               |
| 55029                            | Telecom Rebate                       |               |
| 55032                            | Telcom Overhead                      |               |
| 55033                            | Technical Publications               |               |
| 55034                            | Laboratory Analysis                  |               |
| 55040                            | Parking Garage Rentals               |               |
| 55044                            | Wastewater Equipment Rental          | 131,262       |
| 55050                            | Road Equip Er & R                    |               |
| 55134                            | Parks                                |               |
| 55142                            | Human Resources Mgmt                 |               |

| WTD East Operations D4400/S04610       |                                        |             |
|----------------------------------------|----------------------------------------|-------------|
|                                        |                                        | Total       |
|                                        | IBIS Account (2010, 2011 & 2012)       | 2011 Actual |
|                                        | 55144 Property Services                | 858         |
|                                        | 55145 Facilities Management            |             |
|                                        | 55150 Prosecuting Attorney             |             |
|                                        | 55159 Fmd Copy Center                  |             |
|                                        | 55201 Central Services Overhead        |             |
|                                        | 55203 Dot Road Services                |             |
|                                        | 55204 Solid Waste Service Support      |             |
|                                        | 55221 Surface Water Management         |             |
|                                        | 55228 Local Hazardous Waste Svc/Sppt   |             |
|                                        | 55240 Ltd G O Bond Redemp Svc/Sppt     |             |
|                                        | 55245 Financial Mgmt Svcs/Sppt         |             |
|                                        | 55247 KCIT Services                    |             |
|                                        | 55249 Fmd Strategic Initiatv Fee       |             |
|                                        | 55252 Insurance - Svc/Sppt             |             |
|                                        | 55255 Financial Mgmt Svcs Rebate       |             |
|                                        | 55257 Public Works Er & R Svc/Sppt     |             |
|                                        | 55258 Motor Pool Er & R Svc/Sppt       |             |
|                                        | 55260 Printing/Graphic Arts Svc/Sppt   |             |
|                                        | 55263 Printing Loan Recovery           |             |
|                                        | 55280 Public Health Svc/Sppt           |             |
|                                        | 55331 Building Mod Rent Reimb          |             |
|                                        | 55342 Major Building Reserve           |             |
|                                        | 55345 Inet Operating                   |             |
|                                        | 55349 Business Resource Dp Svcs        |             |
|                                        | 55350 Radio Access                     |             |
|                                        | 55351 Radio Maintenance                |             |
|                                        | 55352 Radio Services-General           |             |
|                                        | 55353 Radio Equipment                  |             |
|                                        | 55440 Dnr-Water Quality Division       |             |
|                                        | 55459 Natural Resources Overhead       |             |
|                                        | 55461 Transportation Admin             |             |
|                                        | 55998 Intragovmntl Svc Reimbrmt        |             |
|                                        | 57402 Interest Expense                 |             |
|                                        | 58001 T/T Current Expense              |             |
|                                        | 58040 Transfer To Lmtd Tax Go Bond Rdm |             |
|                                        | 58077 T/T OIRM CIP-Specific Prj        |             |
|                                        | 58145 T/T Parks Operating              |             |
|                                        | Intragovernmental Service              | 132,120     |
|                                        | 59411 COLA                             | (23,501)    |
|                                        | 59412 Merit                            |             |
|                                        | 59895 Salary & Wage Contingency        |             |
|                                        | 59899 Contingency Reserve              |             |
|                                        | 59987 Correctn Ordinance Contra        |             |
|                                        | 59990 Expense Reclass                  | (23,501)    |
|                                        | 59999 Loan Out Labor                   | (23,501)    |
|                                        | Contras/Contingencies                  |             |
| TOTAL East Mechanical 4720/461087      |                                        | 3,557,756   |
|                                        |                                        |             |
| TOTAL WTD East Operations D4400/S04610 |                                        |             |

| 2011       |                     | 2011      |           |
|------------|---------------------|-----------|-----------|
| Interurban |                     |           |           |
|            | Electricity         |           | \$160,445 |
|            | Water/Sewer         |           | \$1,681   |
|            |                     | <hr/>     |           |
|            |                     | \$162,126 |           |
|            | flow (mg)           |           | 1268 mg   |
|            | per mg              |           | \$128     |
|            |                     |           |           |
| Henderson  |                     |           |           |
|            | Electricity & Water |           | \$16,000  |
|            | Water/Sewer         |           | \$3,680   |
|            |                     | <hr/>     |           |
|            |                     | \$19,680  |           |
|            | flow (mg)           |           | 406       |
|            | per mg              |           | \$48      |

|  |  |                                                                                                               |  |              |            |          |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|---------------------------------------------------------------------------------------------------------------|--|--------------|------------|----------|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |                                                                                                               |  |              |            |          |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |                                                                                                               |  |              |            |          |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |                                                                                                               |  | % Total      | Total Tons | H&A Rate | H&A Cost     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |                                                                                                               |  | 2011         | 2011       | 2011     | 2011         |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | WP                                                                                                            |  | 42.73%       | 48,977.20  | 36.64    | 1,794,525    |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | East                                                                                                          |  | 57.27%       | 65,642.98  | 36.64    | 2,405,200    |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Total Variable                                                                                                |  | 100.00%      | 114,620.18 |          | 4,199,724    |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |                                                                                                               |  |              | 114,620.18 |          | 4,199,724.40 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Total Fixed                                                                                                   |  |              |            |          |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |                                                                                                               |  |              |            |          |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Total H&A                                                                                                     |  |              |            |          |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |                                                                                                               |  | 5,234,982.00 |            |          |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |                                                                                                               |  |              |            |          |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Assumptions:                                                                                                  |  |              |            |          |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Biosolids project is based on fixed and variable costs not allocated or tracked to a specific treatment plant |  |              |            |          |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |                                                                                                               |  |              |            |          |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Total tonnage and distribution by plant are based on actuals                                                  |  |              |            |          |              |  |  |  |  |  |  |  |  |  |  |  |  |  |

(12/31/11)

Tonnage      Rate              Ext

|                                   | Tonnage        | Rate          | Ext                     |
|-----------------------------------|----------------|---------------|-------------------------|
| Forestry (Total)                  | 24,665         | 9.06          | 223,545                 |
| BPI (Total)                       | 83,564         | 19.70         | 1,646,227               |
| GV (Total)                        | 5,553          | 19.67         | 109,222                 |
| GroCo (Total)                     | 508            | 3.60          | 1,827                   |
| Emergency Storage (Total)         | 331            | 8.71          | 2,881                   |
|                                   |                |               |                         |
| <i>Subtotal</i>                   | <i>114,620</i> |               | <i>1,983,701</i>        |
|                                   |                |               |                         |
|                                   |                |               |                         |
| Variable (Total)                  | 114,620        | 17.31         | 1,983,701               |
|                                   |                |               |                         |
| Monthly Fee                       | 0              |               | 0                       |
|                                   |                |               |                         |
| Insurance                         |                |               | 0                       |
|                                   |                |               |                         |
| Tarps                             |                | see email     |                         |
|                                   |                |               |                         |
| Ferry Tolls                       |                | xfer to South |                         |
|                                   |                |               |                         |
| Wait Time                         |                | xfer to South | 0                       |
|                                   |                |               |                         |
| <i>Subtotal</i>                   |                |               | <i><u>1,983,701</u></i> |
|                                   |                |               |                         |
|                                   |                |               |                         |
|                                   |                |               |                         |
| Diesel                            | 0              | 5.00          | 0                       |
|                                   |                |               |                         |
| Biodiesel (change to diesel only) | 0              | 5.50          | 0                       |
|                                   |                |               |                         |
| Total Fuel - Haul Only            | 297,822        | 3.68          | 1,095,796               |
|                                   |                |               |                         |
| <b>Total Haul (Acct 53134)</b>    |                |               | <b>3,079,497</b>        |
|                                   |                |               |                         |
| Application                       |                |               |                         |
|                                   |                |               |                         |
| <u>Forestry (Ramco, Inc.)</u>     |                |               |                         |
|                                   |                |               |                         |

|                                     |               |               |                  |
|-------------------------------------|---------------|---------------|------------------|
| <b>Application</b>                  | <b>24,665</b> | <b>12</b>     | <b>295,980</b>   |
|                                     |               |               |                  |
| <b>Supplies</b>                     | <b>0</b>      | <b>1.00</b>   | <b>0</b>         |
|                                     |               |               |                  |
| <b>Diesel</b>                       | <b>11,859</b> | <b>3.62</b>   | <b>42,874</b>    |
|                                     |               |               |                  |
| <b>Special Projects</b>             | <b>0</b>      |               | <b>30,000</b>    |
|                                     |               |               |                  |
| <b>Site Total</b>                   | <b>36,524</b> |               | <b>368,854</b>   |
|                                     |               |               |                  |
| <b><u>Ag - Boulder Park</u></b>     |               |               |                  |
|                                     |               |               |                  |
| <b>Application &lt;20K</b>          | <b>20,000</b> | <b>7.93</b>   | <b>158,538</b>   |
|                                     |               |               |                  |
| <b>Application &gt;20K</b>          | <b>63,564</b> | <b>6.19</b>   | <b>393,559</b>   |
|                                     |               |               |                  |
| <b>Bldg Rent</b>                    | <b>0</b>      | <b>850.00</b> | <b>0</b>         |
|                                     |               |               |                  |
| <b>Fuel</b>                         | <b>25,714</b> | <b>3.67</b>   | <b>94,318</b>    |
|                                     |               |               |                  |
| <b>Tires</b>                        | <b>0</b>      | <b>1.00</b>   | <b>0</b>         |
|                                     |               |               |                  |
| <b>Other (Identify)</b>             |               |               |                  |
|                                     |               |               |                  |
| <b>Site Total (Tons Only)</b>       | <b>83,564</b> |               | <b>646,414</b>   |
|                                     |               |               |                  |
| <b>Ag - Natural Selection Farms</b> |               |               |                  |
|                                     |               |               |                  |
| <b>Application &lt;20K</b>          | <b>5,553</b>  | <b>13.00</b>  | <b>72,213</b>    |
|                                     |               |               |                  |
| <b>Application &gt;20K</b>          | <b>0</b>      | <b>12.41</b>  | <b>0</b>         |
|                                     |               |               |                  |
| <b>Site Total</b>                   | <b>5,553</b>  | <b>12.94</b>  | <b>72,213</b>    |
|                                     |               |               |                  |
|                                     |               |               |                  |
|                                     |               |               |                  |
| <b>Gro Co Application</b>           | <b>508</b>    | <b>64</b>     | <b>32,488</b>    |
|                                     |               |               |                  |
| <b>Emergency - Site Work</b>        | <b>0</b>      | <b>5.48</b>   | <b>0</b>         |
|                                     |               |               |                  |
| <b>Emergency - Lease Expense</b>    |               |               |                  |
|                                     |               |               |                  |
|                                     |               |               |                  |
| <b>Pilot Project</b>                | <b>0</b>      | <b>55</b>     | <b>0</b>         |
|                                     |               |               |                  |
| <b>Total Application</b>            |               |               | <b>1,119,969</b> |

|                                 |
|---------------------------------|
|                                 |
| <b>Summary</b>                  |
| <b>Wet Tons</b>                 |
| <b>Acct 53134 (Haul)</b>        |
| <b>Acct 53135 (Application)</b> |

|  |  |                  |
|--|--|------------------|
|  |  |                  |
|  |  |                  |
|  |  | <b>114,620</b>   |
|  |  | <b>3,079,497</b> |
|  |  | <b>1,119,969</b> |

\* 221 Tons hauled to BW to  
seed digesters - noted for  
balancing purposes only.

919,187

**36.64**

114,620



| Metro - Biosolids Distribution in Wet Tons |                       |                  |                 |              |                |     |
|--------------------------------------------|-----------------------|------------------|-----------------|--------------|----------------|-----|
| Plant: <b>West Point</b>                   |                       |                  |                 |              |                |     |
| Year: <b>2011</b>                          |                       |                  |                 |              |                |     |
| Q<br>U<br>A<br>R<br>T<br>E<br>R            | M<br>O<br>N<br>T<br>H | Project Sites    |                 |              |                |     |
|                                            |                       | Boulder          | GValley         | Groco        | noqualmie Fore | DNR |
| 1                                          | J                     | 2,269.39         | 1,779.62        |              |                |     |
|                                            | F                     | 2,594.37         | 1,026.59        |              |                |     |
|                                            | M                     | 4,286.30         | 101.36          |              |                |     |
| 2                                          | A                     | 4,299.66         |                 |              |                |     |
|                                            | M                     | 4,708.05         |                 |              |                |     |
|                                            | J                     | 4,350.85         |                 | 33.62        |                |     |
| 3                                          | J                     | 4,986.77         |                 |              |                |     |
|                                            | A                     | 4,418.74         |                 |              |                |     |
|                                            | S                     | 3,307.78         |                 |              |                |     |
| 4                                          | O                     | 3,755.62         |                 |              |                |     |
|                                            | N                     | 3,442.57         |                 |              |                |     |
|                                            | D                     | 3,353.88         |                 |              |                |     |
| 1 _                                        |                       | 9,150.06         | 2,907.57        |              |                |     |
| 2 _                                        |                       | 13,358.56        |                 | 33.62        |                |     |
| 3 _                                        |                       | 12,713.29        |                 |              |                |     |
| 4 _                                        |                       | 10,552.07        |                 |              |                |     |
| <b>TOTAL</b>                               |                       | <b>45,773.98</b> | <b>2,907.57</b> | <b>33.62</b> |                |     |
| <b>Dry Tons</b>                            |                       | <b>12,125.8</b>  | <b>804.0</b>    | <b>8.4</b>   |                |     |

| Metro - Biosolids Distribution in Wet Tons |                       |               |          |        |                |          |
|--------------------------------------------|-----------------------|---------------|----------|--------|----------------|----------|
| Plant: <b>South Plant</b>                  |                       |               |          |        |                |          |
| Year: <b>2011</b>                          |                       |               |          |        |                |          |
| Q<br>U<br>A<br>R<br>T<br>E<br>R            | M<br>O<br>N<br>T<br>H | Project Sites |          |        |                |          |
|                                            |                       | Boulder       | GValley  | Groco  | noqualmie Fore | DNR      |
| 1                                          | J                     | 2,199.06      | 1,668.09 |        | 2,495.80       |          |
|                                            | F                     | 2,380.09      | 910.49   | 229.60 | 2,176.23       |          |
|                                            | M                     | 3,942.58      |          |        | 2,720.62       |          |
| 2                                          | A                     | 3,749.26      | 66.48    | 30.80  | 1,891.81       |          |
|                                            | M                     | 3,686.04      |          |        | 2,916.85       |          |
|                                            | J                     | 2,719.59      |          |        | 1,058.65       | 1,063.40 |
| 3                                          | J                     | 3,155.66      |          |        |                | 1,165.84 |
|                                            | A                     | 3,640.14      |          |        |                | 1,000.28 |

|                 |          |                  |                 |               |                  |                 |
|-----------------|----------|------------------|-----------------|---------------|------------------|-----------------|
|                 | <b>S</b> | 3,056.96         |                 | 66.64         |                  | 1,857.49        |
| 4               | <b>O</b> | 2,462.15         |                 | 66.61         | 764.41           | 1,329.71        |
|                 | <b>N</b> | 3,281.95         |                 | 16.85         | 1,892.50         |                 |
|                 | <b>D</b> | 2,961.64         |                 |               | 2,332.37         |                 |
|                 |          |                  |                 |               |                  |                 |
| 1 _             |          | 8,521.73         | 2,578.58        | 229.60        | 7,392.65         |                 |
| 2 _             |          | 10,154.89        | 66.48           | 30.80         | 5,867.31         | 1,063.40        |
| 3 _             |          | 9,852.76         |                 | 66.64         |                  | 4,023.61        |
| 4 _             |          | 8,705.74         |                 | 83.46         | 4,989.28         | 1,329.71        |
| <b>TOTAL</b>    |          | <b>37,235.12</b> | <b>2,645.06</b> | <b>410.50</b> | <b>18,249.24</b> | <b>6,416.72</b> |
| <b>Dry Tons</b> |          | <b>8,412.6</b>   | <b>572.2</b>    | <b>91.6</b>   | <b>4,028.3</b>   | <b>1,498.3</b>  |

| Metro - Biosolids Distribution in Wet Tons |                       |               |         |              |                |     |
|--------------------------------------------|-----------------------|---------------|---------|--------------|----------------|-----|
| Plant: <b>Brightwater</b>                  |                       |               |         |              |                |     |
| Year: <b>1900</b>                          |                       |               |         |              |                |     |
| Q<br>U<br>A<br>R<br>T                      | M<br>O<br>N<br>T<br>H | Project Sites |         |              |                |     |
|                                            |                       | Boulder       | GValley | Groco        | hoqualmie Fore | DNR |
| 1                                          | J<br>F<br>M           |               |         |              |                |     |
| 2                                          | A<br>M<br>J           |               |         |              |                |     |
| 3                                          | J<br>A<br>S           |               |         |              |                |     |
| 4                                          | O<br>N<br>D           | 334.05        |         | 62.41        |                |     |
| 1 _                                        |                       |               |         |              |                |     |
| 2 _                                        |                       |               |         |              |                |     |
| 3 _                                        |                       |               |         |              |                |     |
| 4 _                                        |                       | 334.05        |         | 62.41        |                |     |
| <b>TOTAL</b>                               |                       | <b>334.05</b> |         | <b>62.41</b> |                |     |
| <b>Dry Tons</b>                            |                       | <b>64.5</b>   |         | <b>15.2</b>  |                |     |

| Metro - Biosolids Distribution in Wet Tons |             |               |  |  |  |  |
|--------------------------------------------|-------------|---------------|--|--|--|--|
| Plant: <b>Total WTD</b>                    |             |               |  |  |  |  |
| Year: <b>2011</b>                          |             |               |  |  |  |  |
| Q<br>U<br>A                                | M<br>O<br>N | Project Sites |  |  |  |  |
|                                            |             |               |  |  |  |  |

| R<br>T   | T<br>H | Boulder   | GValley  | Groco  | Hancock   | DNR      |
|----------|--------|-----------|----------|--------|-----------|----------|
|          |        |           |          |        |           |          |
| 1        | J      | 4,468.45  | 3,447.71 |        | 2,495.80  |          |
|          | F      | 4,974.46  | 1,937.08 | 229.60 | 2,176.23  |          |
|          | M      | 8,228.88  | 101.36   |        | 2,720.62  |          |
| 2        | A      | 8,048.92  | 66.48    | 30.80  | 1,891.81  |          |
|          | M      | 8,394.09  |          |        | 2,916.85  |          |
|          | J      | 7,070.44  |          | 33.62  | 1,058.65  | 1,063.40 |
| 3        | J      | 8,142.43  |          |        |           | 1,165.84 |
|          | A      | 8,058.88  |          |        |           | 1,000.28 |
|          | S      | 6,364.74  |          | 66.64  |           | 1,857.49 |
| 4        | O      | 6,217.77  |          | 66.61  | 764.41    | 1,329.71 |
|          | N      | 6,724.52  |          | 79.26  | 1,892.50  |          |
|          | D      | 6,649.57  |          |        | 2,332.37  |          |
| 1 _      |        | 17,671.79 | 5,486.15 | 229.60 | 7,392.65  |          |
| 2 _      |        | 23,513.45 | 66.48    | 64.42  | 5,867.31  | 1,063.40 |
| 3 _      |        | 22,566.05 |          | 66.64  |           | 4,023.61 |
| 4 _      |        | 19,591.86 |          | 145.87 | 4,989.28  | 1,329.71 |
| TOTAL    |        | 83,343.15 | 5,552.63 | 506.53 | 18,249.24 | 6,416.72 |
| Dry Tons |        | 20,603.0  | 1,376.2  | 115.2  | 4,028.3   | 1,498.3  |

**2011**

|  |       |           |          |        |           |          |
|--|-------|-----------|----------|--------|-----------|----------|
|  | WP    | 45,773.98 | 2,907.57 | 33.62  |           |          |
|  | South | 37,235.12 | 2,645.06 | 410.50 | 18,249.24 | 6,416.72 |
|  | BW    | 334.05    |          | 62.41  |           |          |

|  |       |        |        |        |        |        |
|--|-------|--------|--------|--------|--------|--------|
|  | WP    | 0.3994 | 0.0254 | 0.0003 |        |        |
|  | South | 0.3249 | 0.0231 | 0.0036 | 0.1592 | 0.0560 |
|  | BW    | 0.0029 |        | 0.0005 |        |        |

PREPARED BY: Mark Lucas  
King County, MS/ KSC-NR-0512

## Reconciled

PRINTOUT DATE: 11/13/2013

|                 |             |      |      |      | Total |           |
|-----------------|-------------|------|------|------|-------|-----------|
| Everett/Boulder | Brightwater | 0.00 | 0.00 | 0.00 | Lds   | Tons      |
| 264.67          |             |      |      |      | 124   | 4,049.01  |
|                 |             |      |      |      | 117   | 3,885.63  |
|                 |             |      |      |      | 132   | 4,387.66  |
|                 |             |      |      |      | 129   | 4,299.66  |
|                 |             |      |      |      | 142   | 4,708.05  |
|                 |             |      |      |      | 131   | 4,384.47  |
|                 |             |      |      |      | 149   | 4,986.77  |
|                 |             |      |      |      | 134   | 4,418.74  |
|                 |             |      |      |      | 99    | 3,307.78  |
|                 |             |      |      |      | 115   | 3,755.62  |
|                 |             |      |      |      | 108   | 3,442.57  |
|                 |             |      |      |      | 106   | 3,353.88  |
| 264.67          |             |      |      |      | 373   | 12,322.30 |
|                 |             |      |      |      | 402   | 13,392.18 |
|                 |             |      |      |      | 382   | 12,713.29 |
|                 |             |      |      |      | 329   | 10,552.07 |
| 264.67          |             |      |      |      | 1486  | 48,979.84 |
| 72.3            |             |      |      |      |       | 13,010.6  |

PREPARED BY: Mark Lucas  
King County, MS/ KSC-NR-0512

## Reconciled

PRINTOUT DATE: 11/13/2013

|                 |             |      |      |      | Total |          |
|-----------------|-------------|------|------|------|-------|----------|
| Everett/Boulder | Brightwater | 0.00 | 0.00 | 0.00 | Lds   | Tons     |
|                 |             |      |      |      | 195   | 6,362.95 |
|                 |             |      |      |      | 173   | 5,696.41 |
|                 |             |      |      |      | 201   | 6,663.20 |
| 66.05           |             |      |      |      | 173   | 5,738.35 |
|                 |             |      |      |      | 202   | 6,668.94 |
|                 |             |      |      |      | 146   | 4,841.64 |
|                 | 40.15       |      |      |      | 130   | 4,321.50 |
|                 |             |      |      |      | 142   | 4,680.57 |

|              |               |  |  |  |             |                  |
|--------------|---------------|--|--|--|-------------|------------------|
|              | 181.04        |  |  |  | 160         | 5,162.13         |
|              |               |  |  |  | 139         | 4,622.88         |
|              |               |  |  |  | 158         | 5,191.30         |
|              |               |  |  |  | 161         | 5,294.01         |
|              |               |  |  |  | 569         | 18,722.56        |
| 66.05        |               |  |  |  | 521         | 17,248.93        |
|              | 221.19        |  |  |  | 432         | 14,164.20        |
|              |               |  |  |  | 458         | 15,108.19        |
| <b>66.05</b> | <b>221.19</b> |  |  |  | <b>1980</b> | <b>65,243.88</b> |
| <b>14.6</b>  | <b>51.1</b>   |  |  |  | <b>0</b>    | <b>14,668.7</b>  |

PREPARED BY: Mark Lucas

King County, MS/ KSC-NR-0512

**Reconciled**PRINTOUT DATE: **11/13/2013**

|                        |                    |             |             |             |              |               |
|------------------------|--------------------|-------------|-------------|-------------|--------------|---------------|
|                        |                    |             |             |             | <b>Total</b> |               |
| <b>Everett/Boulder</b> | <b>Brightwater</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>Lds</b>   | <b>Tons</b>   |
|                        |                    |             |             |             |              |               |
|                        |                    |             |             |             |              |               |
|                        |                    |             |             |             |              |               |
|                        |                    |             |             |             | 2            | 62.41         |
|                        |                    |             |             |             | 11           | 334.05        |
|                        |                    |             |             |             |              |               |
|                        |                    |             |             |             |              |               |
|                        |                    |             |             |             |              |               |
|                        |                    |             |             |             | 13           | 396.46        |
|                        |                    |             |             |             | <b>13</b>    | <b>396.46</b> |
|                        |                    |             |             |             | <b>13.0</b>  | <b>79.7</b>   |

PREPARED BY: Mark Lucas

King County, MS/ KSC-NR-0512

**Reconciled**PRINTOUT DATE: **11/13/2013**

| Everett/Boulder | Brightwater     | 0.00 | 0.00 | 0.00 | Lds               | Tons                               |
|-----------------|-----------------|------|------|------|-------------------|------------------------------------|
| 264.67          |                 |      |      |      | 319<br>290<br>333 | 10,411.96<br>9,582.04<br>11,050.86 |
| 66.05           |                 |      |      |      | 302<br>344<br>277 | 10,038.01<br>11,376.99<br>9,226.11 |
|                 | 40.15<br>181.04 |      |      |      | 279<br>276<br>259 | 9,308.27<br>9,099.31<br>8,469.91   |
|                 |                 |      |      |      | 254<br>268<br>278 | 8,378.50<br>8,696.28<br>8,981.94   |
| 264.67          |                 |      |      |      | 942               | 31,044.86                          |
| 66.05           |                 |      |      |      | 923               | 30,641.11                          |
|                 | 221.19          |      |      |      | 814               | 26,877.49                          |
|                 |                 |      |      |      | 800               | 26,056.72                          |
| <b>330.72</b>   | <b>221.19</b>   |      |      |      | <b>3479</b>       | <b>114,620.18</b>                  |
| <b>87.0</b>     | <b>51.1</b>     |      |      |      |                   | <b>27,759.0</b>                    |

|               |               |  |  |  |             |                  |
|---------------|---------------|--|--|--|-------------|------------------|
| <b>264.67</b> |               |  |  |  | <b>1486</b> | <b>48,979.84</b> |
| <b>66.05</b>  | <b>221.19</b> |  |  |  | <b>1980</b> | <b>65,243.88</b> |
|               |               |  |  |  | <b>13</b>   | <b>396.46</b>    |

114,620.18

|               |               |  |  |  |               |  |
|---------------|---------------|--|--|--|---------------|--|
| <b>0.0023</b> |               |  |  |  | <b>0.4273</b> |  |
| <b>0.0006</b> | <b>0.0019</b> |  |  |  | <b>0.5692</b> |  |
|               |               |  |  |  | <b>0.0035</b> |  |

1.0000

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STATE OF WASHINGTON -- KING COUNTY

--SS.

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332162

No.

CITY OF SEATTLE, CLERKS OFFICE

**Affidavit of Publication**

The undersigned, on oath states that he is an authorized representative of The Daily Journal of Commerce, a daily newspaper, which newspaper is a legal newspaper of general circulation and it is now and has been for more than six months prior to the date of publication hereinafter referred to, published in the English language continuously as a daily newspaper in Seattle, King County, Washington, and it is now and during all of said time was printed in an office maintained at the aforesaid place of publication of this newspaper. The Daily Journal of Commerce was on the 12<sup>th</sup> day of June, 1941, approved as a legal newspaper by the Superior Court of King County.

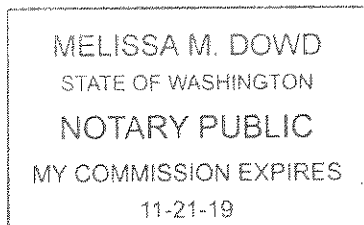
The notice in the exact form annexed, was published in regular issues of The Daily Journal of Commerce, which was regularly distributed to its subscribers during the below stated period. The annexed notice, a

CT:124956-124968 TITLE

was published on

01/08/16

The amount of the fee charged for the foregoing publication is the sum of \$219.47 which amount has been paid in full.



A handwritten signature in dark ink, appearing to be "J. B. Smith", written over a horizontal line.

Subscribed and sworn to before me on

01/08/2016

A handwritten signature in dark ink, appearing to be "Melissa M. Dowd", written over a horizontal line.

Notary public for the State of Washington,  
residing in Seattle

Affidavit of Publication

# State of Washington, King County

## City of Seattle

The full text of the following legislation, passed by the City Council on December 14, 2015, and published below by title only, will be mailed upon request, or can be accessed at <http://clerk.seattle.gov>. For information on upcoming meetings of the Seattle City Council, please visit <http://www.seattle.gov/council/calendar>. Contact: Office of the City Clerk at (206) 684-8344.

### Ord 124956

AN ORDINANCE appropriating money to pay certain audited claims and ordering the payment thereof.

### Ord 124957

AN ORDINANCE related to cable television; authorizing the Mayor or the Mayor's designee to enter into a renewed Cable Television Franchise Agreement with Comcast Cable Communications Management, LLC; and authorizing the Chief Technology Officer to enter into other agreements for the purpose of implementing or administering the renewed franchise.

### Ord 124958

AN ORDINANCE approving and confirming the plat of "Greenbelt Station" in the portions of Southwest 1/4 of Northeast

1/4 of Section 34, Township 24 North, Range 4 East, W.M. in King County, Washington.

### Ord 124959

AN ORDINANCE relating to City employment commonly referred to as the Fourth Quarter 2015 Employment Ordinance; establishing new salaries that implement 2016 increases required by Ordinance 124490; amending Ordinance 124927; increasing funds; designating positions as exempt from Civil Service status; and ratifying and confirming certain prior acts; all by a 3/4 vote of the City Council.

### Ord 124960

AN ORDINANCE relating to employment in Seattle; amending Chapters 14.16, 14.17, 14.19, and 14.20 of the Seattle Municipal Code to prescribe additional remedies and enforcement procedures, harmonize ordinance language, and add provisions to facilitate compliance; amending Section 3.14.931 of the Seattle Municipal Code to update duties of the Seattle Human Rights Commission; and amending Section 5.55.230 of the Seattle Municipal Code to require labor standards compliance for business license tax certificates.

### Ord 124961

AN ORDINANCE authorizing, in 2016, acceptance of funding from non-City sources; authorizing the heads of the Executive Department, City Budget Office, Department of Neighborhoods, Department of Parks and Recreation, Human Services Department, Seattle Fire Department, Seattle Police Department, Department of Information Technology, and Seattle Public Utilities to accept specified grants, private funding donations and subsidized loans and to execute, deliver, and perform corresponding agreements; and ratifying and confirming certain prior acts.

### Ord 124962

AN ORDINANCE relating to the 2015 Budget; amending Ordinance 124648, which adopted the 2015 Budget, including the 2015-2020 Capital Improvement Program (CIP); changing appropriations to various departments and budget control levels, and from various funds in the Budget; revising project allocations for certain projects in the 2015-2020 CIP; creating both exempt and nonexempt positions; and ratifying and confirming certain prior acts; all by a 3/4 vote of the City Council.

### Ord 124963

AN ORDINANCE relating to the creation of a Title 6 business license; adding a new Chapter 6.208 to the Seattle Municipal Code; and amending Sections 5.30.030, 5.32.150, 5.55.230, 6.10.005, 6.20.050, 6.214.310, 6.250.030, 6.500.140, 7.04.645, 21.16.060, 21.16.080, and 22.214.060 of the Seattle Municipal Code.

### Ord 124964

AN ORDINANCE relating to historic preservation; imposing controls upon the Seattle Post-Intelligencer Globe, a landmark designated by the Landmarks Preservation Board under Chapter 25.12 of the Seattle Municipal Code, and adding it to the Table of Historical Landmarks contained in Chapter 25.32 of the Seattle Municipal Code.

### Ord 124965

AN ORDINANCE relating to Seattle Public Utilities; authorizing the Director of Seattle Public Utilities to execute amendments to wheeling agreements between The City of Seattle and North City Water District and between The City of Seattle and Olympic View Water and Sewer District.

### Ord 124966

AN ORDINANCE relating to Seattle Public Utilities; authorizing the Director of Seattle Public Utilities to enter into a Joint Project Agreement with King County to design, construct, operate, and maintain the Ship Canal Water Quality Project, in partial fulfillment of the objectives of the Consent Decree authorized under Ordinances 123908 and 124129, and the "Plan to Protect Seattle's Waterways" authorized under Ordinance 124766, to reduce Combined Sewer Overflows; and ratifying and confirming certain prior acts.

### Ord 124967

AN ORDINANCE vacating the south 168 feet of the alley adjacent to Lots 17 through 24, lying between Block 55 and Block 56, Boston Company's Plat of West Seattle, near the Alaska Junction of the West Seattle neighborhood of Seattle, on the petition of Fauntleroy Place LLC (Clerk File 308171), and ratifying and confirming certain prior acts.

### Ord. 124968

AN ORDINANCE relating to taxicab, transportation network company, and for-hire vehicle drivers; amending Section 6.310.110 of the Seattle Municipal Code; adding a new Section 6.310.735 to the Seattle Municipal Code; and authorizing the election of driver representatives.

Date of publication in the Seattle Daily Journal of Commerce, January 8, 2016.

1/8(332162)