



LAKE WHATCOM WATER AND SEWER DISTRICT
1220 LAKEWAY DRIVE
BELLINGHAM, WASHINGTON 98229

REGULAR MEETING
OF THE BOARD OF COMMISSIONERS

AGENDA

August 30, 2017

8:00 a.m. – Regular Session

1. CALL TO ORDER
2. PUBLIC COMMENT OPPORTUNITY
At this time, members of the public may address the Commission. Please state your name prior to making comments.
3. ADDITIONS, DELETIONS, OR CHANGES TO THE AGENDA
4. CONSENT AGENDA
5. SPECIFIC ITEMS OF BUSINESS:
 - A. Country Club Sewer Pump Station – Staff Recommendation
 - B. Geneva Woods Developer Extension Agreement
 - C. Ratification of Confidentiality Agreement with Administrative Assistant
 - D. Final Version of the North Shore Water Consolidation Report
 - E. Monthly Budget Analysis
 - F. Summary of Existing District Projects
6. OTHER BUSINESS
7. MANAGER'S REPORT
8. PUBLIC COMMENT OPPORTUNITY
9. ADJOURNMENT

Note: Summary of
Existing district projects
to be added 8/28
due to staff being out
of office when packett
was assembled.



LAKE WHATCOM WATER AND SEWER DISTRICT

AGENDA BILL

DATE SUBMITTED:	August 23, 2017		
TO BOARD OF COMMISSIONERS			
FROM: Staff	MANAGER APPROVAL <i>[Signature]</i>		
MEETING AGENDA DATE:	August 30, 2017		
AGENDA ITEM NUMBER:	4		
SUBJECT:	Consent Agenda		
LIST DOCUMENTS PROVIDED ⇒	1. See list below		
NUMBER OF PAGES	2.		
INCLUDING AGENDA BILL:	3.		
TYPE OF ACTION REQUESTED	RESOLUTION <input type="checkbox"/>	FORMAL ACTION/ MOTION <input checked="" type="checkbox"/>	INFORMATIONAL/ OTHER <input type="checkbox"/>

BACKGROUND/EXPLANATION

- Accounts Payable Vouchers totaling \$xxxx -To be updated day before mtg.
- Payroll for Pay Period #17 (7/29/2017 through 8/11/2017) totaling \$40,042.94
- Payroll Benefits for Pay Period #17 totaling \$44,853.48
- Minutes for the August 9, 2017 meeting



LAKE WHATCOM WATER AND SEWER DISTRICT

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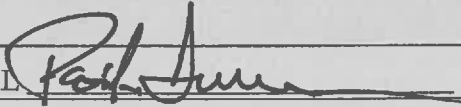
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- Minutes for the August 9, 2017 meeting



LAKE WHATCOM WATER AND SEWER DISTRICT

AGENDA BILL

DATE SUBMITTED:	August 10, 2017		
TO BOARD OF COMMISSIONERS			
FROM: Bill Hunter	MANAGER APPROVAL 		
MEETING AGENDA DATE:	August 30, 2017		
AGENDA ITEM NUMBER:	5.A.		
SUBJECT:	Country Club Sewer Pump Station – Staff Recommendation		
LIST DOCUMENTS PROVIDED ⇒ NUMBER OF PAGES INCLUDING AGENDA BILL:	1. Draft AE Agreement Amendment #2		
	2.		
	3.		
TYPE OF ACTION REQUESTED	RESOLUTION <input type="checkbox"/>	FORMAL ACTION/ MOTION <input checked="" type="checkbox"/>	INFORMATIONAL/ OTHER <input type="checkbox"/>

BACKGROUND / EXPLANATION OF IMPACT

Results from the Hydraulic Fracture and Drilling Fluid Surface Release Evaluation are anticipated to be completed by the board meeting. Staff will give a verbal update of the status and results.

The attached Architectural/Engineering Agreement Amendment #2 assumes that the results are favorable to continue the horizontal direction drilling design.

Amendment #2 includes geotechnical design as well as the fracture evaluation authorized by letter. Products developed in this scope of work will be utilized for permitting, detailed design, bid documents and construction.

A future amendment #3 is in development by staff and BHC and will be presented at the September 13, 2017 board meeting. Amendment #3 will include the scope of work for detailed design drawings, specifications, costs needed for bidding and construction.

FISCAL IMPACT

The 2017 approved budget includes \$153,093 for design, permitting, and bidding.

The total price of the agreement with BHC, including Amendment #2, is \$119,687. Staff is in the process of scope of work and fee negotiations for the future Amendment #3.

RECOMMENDED BOARD ACTION

See proposed motion.

PROPOSED MOTION

Authorize the general manager to execute Amendment #2 to Agreement for A/E Professional Services for Construction Club Sewer Pump Station Improvements with BHC for a not to exceed amount of \$119,687.



LAKE WHATCOM WATER AND SEWER DISTRICT

AGENDA BILL

DATE SUBMITTED:	August 10, 2017		
TO BOARD OF COMMISSIONERS			
FROM: Bill Hunter	MANAGER APPROVAL <i>Paul Hunter</i>		
MEETING AGENDA DATE:	August 30, 2017		
AGENDA ITEM NUMBER:	5.A.		
SUBJECT:	Country Club Sewer Pump Station – Staff Recommendation		
LIST DOCUMENTS PROVIDED ⇨ NUMBER OF PAGES INCLUDING AGENDA BILL: _____	1. Draft AE Agreement Amendment #2		
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BACKGROUND / EXPLANATION OF IMPACT

Results from the Hydraulic Fracture and Drilling Fluid Surface Release Evaluation are anticipated to be completed by the board meeting. Staff will give a verbal update of the status and results.

The attached Architectural/Engineering Agreement Amendment #2 assumes that the results are favorable to continue the horizontal direction drilling design.

Amendment #2 includes geotechnical design as well as the fracture evaluation authorized by letter. Products developed in this scope of work will be utilized for permitting, detailed design, bid documents and construction.

A future amendment #3 is in development by staff and BHC and will be presented at the September 13, 2017 board meeting. Amendment #3 will include the scope of work for detailed design drawings, specifications, costs needed for bidding and construction.

FISCAL IMPACT

The 2017 approved budget includes \$153,093 for design, permitting, and bidding.

The total price of the agreement with BHC, including Amendment #2, is \$119,687. Staff is in the process of scope of work and fee negotiations for the future Amendment #3.

RECOMMENDED BOARD ACTION

See proposed motion.

PROPOSED MOTION

Authorize the general manager to execute Amendment #2 to Agreement for A/E Professional Services for Construction Club Sewer Pump Station Improvements with BHC for a not to exceed amount of \$119,687.

**AMENDMENT 2
TO
AGREEMENT FOR A/E PROFESSIONAL SERVICES
FOR
COUNTRY CLUB SEWER PUMP STATION IMPROVEMENTS**

AN AGREEMENT, was made and entered into by and between Lake Whatcom Water and Sewer District, Whatcom County, Washington, hereinafter referred to as "District", and **BHC Consultants, LLC** ("Consultant"), a corporation with a place of business at **1601 Fifth Avenue, Suite 500, Seattle, WA 98101**, collectively referred to as "Parties", effective **September 20, 2016**.

WHEREAS, the District solicited for professional services as required by RCW 39.80; and

WHEREAS, the Consultant has started work on Task 1 – Project Management, Task 2 – Predesign Requirements and Criteria, Task 3 – Surveying, and Task 4 – Permitting as described in the original scope of work; and

WHEREAS, during the pre-design process for the Country Club Sewer Pump Station Improvements District staff explored the conceptual feasibility of eliminating the pump station and instead installing a gravity sewer using horizontal directional drilling (HDD) methods. The District and BHC Consultants have confirmed there is enough elevation change from Country Club Sewer Pump Station to Ranch House Sewer Pump Station for a gravity sewer pipe. In order to proceed with HDD as a design alternative the District needs to field verify if subsurface soils are adequate. The District requested BHC Consultants to prepare a scope of work and fee estimate to perform exploratory borings along the proposed alignment (Task 7); and

WHEREAS, the task, scope, and fee related to detailed pump station design, plans, specifications, and cost estimate titled "Task 5 – Plans, Specifications, and Probable Cost Opinions" is deleted from the agreement;

WHEREAS, upon completion of Task 7, horizontal directional drilling (HDD) was determined to be feasible and the preferred alternative selected by the District contingent on the results of a Hydraulic Fracture and Drilling Fluid Surface Release Evaluation. This analysis was authorized by the Board of Commissioners at the July 26, 2017 meeting for an amount not to exceed \$3,000. Staff authorized BHC (and GeoEngineers as a subconsultant) to perform the analysis by letter;

WHEREAS,**DRAFT DRAFT DRAFT**.....fill in the results of the fracture evaluations (following text assumes results are good to continue HDD design) the Hydraulic Fracture and Drilling Fluid Evaluation indicates horizontal directional drilling can be performed successfully and safely if done within the fluid evaluation recommended parameters. Task 8 includes the fluid evaluation authorized by letter on August 10, 2017 as well as additional geotechnical design needed for permitting, detailed design, specifications, and construction cost estimate for bidding and construction;

The Parties amend the original Agreement as follows:

SECTION 1: PERIOD OF PERFORMANCE

Task 8 – HDD Geotechnical Design Services shall be completed on **September 29, 2017**, unless extended or terminated earlier by the District pursuant to the terms and conditions of the Agreement.

SECTION 8: COMPENSATION

The Total Price is amended to **One Hundred Nineteen Thousand Six Hundred Seventy Eighty DOLLARS (\$119,678)**.

Original Agreement	
Tasks 1 – Project Management	\$ 7,198
Tasks 2 – Predesign Requirements and Criteria	\$ 27,640
Tasks 3 – Surveying	\$ 674
Tasks 4 – Permitting	\$ 6,410
Tasks 5 – Plans, Specs, Costs	\$ 78,109
Tasks 6 – Assistance with Bidding and Award	\$ 4,010
<u>Other Direct Costs</u>	<u>\$ 29,052</u>
Original Agreement Total Price	\$153,093
Amendment 1	
Delete Task 5 – Plans, Specs, Costs	\$ (78,109)
<u>Add Task 7 – HDD Exploratory Drilling</u>	<u>\$ 25,000</u>
Amended Total Price	\$ 99,984
Amendment 2 (this amendment)	
<u>Add Task 8 – HDD Geotechnical Design Services</u>	<u>\$ 19,694</u>
Amended Total Price	\$ 119,687

EXHIBITS

Exhibit A – Scope of Work. Add attached GeoEngineers Task Order for Professional Services #3 dated 8/9/2017.

Exhibit B – HDD Geotechnical Design Services Cost Summary. Add attached Exhibit B Cost Summary dated 8/9/2017.

This Amendment to the Agreement shall be executed in two (2) counterpart copies, any of which shall be considered for all purposes as the original.

IN WITNESS WHEREOF, the Parties hereto have caused this Amendment to the Agreement to be executed by their respective authorized officers or representatives as of the day and year written below.

Lake Whatcom Water and Sewer District

Consultant

By: _____
(Patrick Sorensen, General Manager)

By: _____

Printed Name: Ron Dorn, PE

Title: Exec Vice President

Dated: _____

Dated: _____

APPROVED AS TO FORM:

By: _____
(Robert Carmichael, Attorney for Lake Whatcom
Water and Sewer District)

Dated: _____

EXHIBIT A



**Task Order
for Professional Services**

Task Order Number 03

Project No. 0430-013-00

Site LWWS Country Club Sewer Pump Station

Scope:	<input checked="" type="checkbox"/> Services shall be performed in accordance with attached GeoEngineers' scope and fee estimate dated <u>August 9, 2017</u> or <input type="checkbox"/> Scope shall be as follows: _____ _____
Compensation:	<input type="checkbox"/> Lump Sum in the amount of _____ OR <input checked="" type="checkbox"/> Time-and-Expense basis or <input type="checkbox"/> Unit Cost Pricing as described below. <input checked="" type="checkbox"/> Rates and Not-to-Exceed budget shall be in accordance with attached GeoEngineers' scope and fee estimate dated <u>August 9, 2017</u> or <input type="checkbox"/> Rates and/or Not-to-Exceed budget are as follows: _____
Period of Performance:	<u>August 4, 2017 through December 31, 2017</u>

Pursuant to the terms and conditions of the Master Services Agreement dated July 20, 2007, between GeoEngineers, Inc. and Client, and this Task Order including all Attachments and/or Exhibits, which are incorporated herein by reference, GeoEngineers, Inc. shall perform the Services as described herein. Execution of this Task Order by Client will constitute authorization for GeoEngineers, Inc. to proceed with the Services unless otherwise directed in writing by Client.

Client

GeoEngineers, Inc.

Company BHC Consultants LLC

By*: _____

Title: _____

Date: _____

By*: _____

Title: _____

Date: _____

*Individual with contracting authority.

Disclaimer: Any electronic form, facsimile or hard copy of the original document (email, text, table, and/or figure), if provided, and any attachments are only a copy of the original document. The original document is stored by GeoEngineers, Inc. and will serve as the official document of record.



600 Dupont Street
Bellingham, Washington 98225
360.647.1510

August 9, 2017

BHC Consultants LLC
1601 Fifth Avenue, Suite 500
Seattle, Washington 98101

Attention: Erika Schuyler, PE

Subject: Scope and Fee
Country Club Sewer Pump Station Replacement Project - HDD Design
Sudden Valley, Whatcom County, Washington
File No. 0430-013-00

INTRODUCTION AND PROJECT UNDERSTANDING

GeoEngineers, Inc. (GeoEngineers) is pleased to present this proposal to provide Horizontal Directional Drilling (HDD) design services for the proposed Country Club Sewer Pump Station Replacement project for the Lake Whatcom Water and Sewer District (LWWSD) in the Sudden Valley area of Whatcom County, Washington. GeoEngineers previously completed a geotechnical data report (GDR) for the project dated April 14, 2017, and a draft Trenchless Alternative Evaluation letter report, dated June 20, 2017. We also reviewed a conceptual plan and profile drawing of a possible gravity sewer installation provided by BHC Consultants (BHC).

We understand that LWWSD has evaluated replacement of the Country Club Sewer Pump Station or installation of a new gravity sewer line between the Country Club Pump Station and Ranch House Pump Station, and has selected an HDD installation of a new 8-inch-diameter line as the preferred alternative. The new line will be approximately 600 feet between connection points and have a uniform gradient between about 2 and 3 percent.

PURPOSE AND SCOPE OF SERVICES

The purpose of our services will be to utilize the existing data in GDR to prepare an HDD design for installation of the proposed new 8-inch-diameter gravity sewer pipeline. Our specific scope of services will include the following:

1. Review surface conditions, site access for drilling equipment, workspace constraints, and constructability issues. If necessary, revise conceptual HDD plan and profile.

2. Complete a hydraulic fracture and drilling fluid surface release analysis along the proposed HDD alignment and profile. The analysis will be used to refine the anticipated bottom tangent depth (where feasible) to reduce the risk of hydraulic fracture and drilling fluid surface release.
3. Prepare an HDD plan and profile drawing for the proposed HDD. The design drawing will include the following:
 - a. pipe plan and profile;
 - b. minimum drill and pipe installation radius;
 - c. proposed workspaces;
 - d. plots of subsurface materials;
 - e. locations of known utilities or other subsurface conflicts;
 - f. recommended construction tolerances;
 - g. a drill data box that defines specific points along the proposed HDD profile; and
 - h. general construction notes.
4. Prepare a draft HDD design report for review by the project team. The draft HDD design report will include:
 - a. Plan and profile drawing showing the HDD alignment and profile, proposed entry and exit points, workspace layout, and locations of known utilities.
 - b. A summary of our site reconnaissance, including a surface description along the proposed alignment.
 - c. Summary of subsurface conditions described in the GDR.
 - d. A summary of engineering and analysis including hydraulic fracture and drilling fluid surface release analysis, operating stresses, and installation forces. Our calculations will be completed in accordance with the applicable Code of Federal Regulations (CFR), American Society of Mechanical Engineers (ASME) codes and generally accepted practices in the HDD industry.
 - e. A summary of design elements including HDD geometry, HDD workspace, and carrier pipe specifications.
 - f. HDD construction considerations for site access, workspace preparation, water sources, drilling fluid containment pits, pilot hole operations, reaming operations, drill hole stability, cuttings removal, and pullback operations.
5. Prepare a final HDD design report incorporating review comments from the project team.

TERMS, FEE ESTIMATE, AND SCHEDULE

We anticipate that we can complete the preliminary plan and profile drawing **within 2 weeks** of written authorization to proceed. If the HDD installation is considered feasible from a geometric perspective, we will complete the remaining HDD design services within **3 weeks** of the project team approving the preliminary plan and profile geometry.

We will complete the scope of services described above on a time-and-materials basis in accordance with the attached Schedule of Charges and our Mutual Services Agreement with BHC Consultants dated

July 20, 2007. Our estimated fee for the scope of work described herein is \$16,000. A breakdown of this fee by task is outlined in the following table.

PROJECT SCOPE AND FEE SUMMARY

Description	Estimated Fees
Project Management	\$ 1,000
Refine proposed HDD configuration	\$ 1,500
Hydraulic Fracture and Drilling Fluid Surface Release Evaluation	\$ 2,000
HDD Design Engineering and Analysis	\$ 3,500
HDD Design Drawing	\$ 2,500
Draft HDD Design Report	\$ 4,500
Final HDD Design Report	\$ 1,000
Project Total	\$ 16,000

ASSUMPTIONS

Our proposal assumes the following:

1. LWWSO will provide a site-specific topographic survey (in AutoCAD format) for use in our HDD design. The survey will include property lines and easements, easement boundaries, existing utilities within 100 feet of the proposed alignment, and topography on maximum 2-foot contour interval.
2. At this time, we assume that the HDD design can be completed without additional subsurface exploration. We will advise if additional subsurface explorations are necessary, or would reduce construction risk based on the completed design. An exploration contingency of \$10,000 to \$12,000 could be included for this purpose.

LIMITATIONS

We will conduct our services for the exclusive use of LWWSO and their design team on this project. No other party may rely on the product of our services unless we agree in advance to such reliance in writing. This limitation provides our firm with reasonable protection against open-ended liability claims by third parties with whom there would otherwise be no contractual limits to their actions.

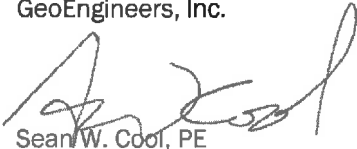
AUTHORIZATION

Formal authorization of the services described above can be provided by returning one signed copy of the Task Order 3.



We appreciate the opportunity to submit this proposal, and look forward to working with you on this project. Please call if you have any questions or require any changes to our scope of work or level of effort.

Sincerely,
GeoEngineers, Inc.



Sean W. Cool, PE
Associate



Trevor N. Hoyles, PE
Principal

SWC:TNH:tlh

Attachment:

Schedule of Charges – Puget Sound Special 2017

One electronic copy submitted

Proprietary Notice: The contents of this document are proprietary to GeoEngineers, Inc. and are intended solely for use by our clients and their design teams to evaluate GeoEngineers' capabilities and understanding of project requirements as they relate to performing the services proposed for a specific project. Copies of this document or its contents may not be disclosed to any other parties without the written consent of GeoEngineers.

Disclaimer: Any electronic form, facsimile or hard copy of the original document (email, text, table, and/or figure), if provided, and any attachments are only a copy of the original document. The original document is stored by GeoEngineers, Inc. and will serve as the official document of record.

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Schedule of Charges – 2017

COMPENSATION

Our compensation will be determined on the basis of time and expenses in accordance with the following schedule unless a lump sum amount is so indicated in the proposal or services agreement. Current rates are:

Professional Staff

Staff 1 Scientist/Analyst	\$	95/hour
Staff 1 Engineer	\$	100/hour
Staff 2 Scientist/Analyst	\$	107/hour
Staff 2 Engineer	\$	111/hour
Staff 3 Scientist/Analyst	\$	124/hour
Staff 3 Engineer	\$	128/hour
Engineer/Scientist/Analyst 1	\$	144/hour
Engineer/Scientist/Analyst 2	\$	149/hour
Senior Engineer/Scientist/Analyst 1	\$	155/hour
Senior Engineer/Scientist/Analyst 2	\$	169/hour
Associate	\$	188/hour
Principal	\$	204/hour
Senior Principal	\$	245/hour

Technical Support Staff

Administrator 1	\$	65/hour
Administrator 2	\$	76/hour
CAD Technician	\$	76/hour
CAD Designer	\$	87/hour
Technician	\$	69/hour
Senior Technician	\$	79/hour

Software Development Staff

Database Architect/Analyst	\$	176/hour
Senior Database Architect/Analyst	\$	198/hour
Software Architect/Developer	\$	198/hour
Senior Software Architect Developer	\$	219/hour
IT Project Manager	\$	219/hour
Senior IT Project Manager	\$	247/hour

Contracted professional and technical services will be charged at the applicable hourly rates listed above. Staff time spent in depositions, trial preparation and court or hearing testimony will be billed at one and one-half times the above rates. Time spent in either local or inter-city travel, when travel is in the interest of this contract, will be charged in accordance with the foregoing schedule. Rates for data storage and web-based access will be provided on a project-specific basis.

Equipment

Air Quality Equipment, per day	\$	158.00
Air Sparging Field Test, per day	\$	525.00
Construction Monitoring Equipment	\$	26.00
Continuous Recording Data Logger, per day	\$	315.00
Environmental Exploration Equipment, per day	\$	158.00
Field Data Acquisition Equipment, per day	\$	50.00
Field water quality testing equipment, per day (1 day min.)	\$	84.00
Gas Detection and Oxygen Meters, per day (1 day min.)	\$	105.00
Generator, per day (1 day min.)	\$	105.00
Geotechnical Exploration Equipment, per day	\$	131.00
Groundwater Development and Sampling Pumps, per day (1 day min.)	\$	105.00
Groundwater Monitoring Equipment, per day	\$	231.00
Nuclear Density Gauge, per hour (4 hour daily min.)	\$	11.00
pH Meter, per day	\$	16.00
Single Channel Data Logger, per logger, per day (1 day min.)	\$	105.00
Slope Indicator, per day (1 day min.)	\$	210.00
Survey equipment, Porter sampling gear and Dynamic cone sounding equipment, per day	\$	37.00
Vapor Extraction Field Test, per day	\$	525.00
Vehicle usage, per mile, or \$50/day, whichever is greater	\$.65
Vehicle - 4-wheel drive truck, per day (1 day min.)	\$	84.00
Water Disposal Equipment, per use, per day	\$	53.00
Water Quality Equipment, per day	\$	131.00

Specialized and miscellaneous field equipment, at current rates, list available upon request.

OTHER SERVICES, SUPPLIES AND SPECIAL TAXES

Charges for services, equipment, supplies and facilities not furnished in accordance with the above schedule, and any unusual items of expense not customarily incurred in our normal operations, are charged at cost plus 15 percent. This includes shipping charges, subsistence, transportation, printing and reproduction, miscellaneous supplies and rentals, surveying services, drilling equipment, construction equipment, watercraft, aircraft, and special insurance which may be required. Taxes required by local jurisdictions for projects in specific geographic areas will be charged to projects at direct cost.

Per diem may be charged in lieu of subsistence and lodging.

Routinely used field supplies stocked in-house by GeoEngineers, at current rates, list available upon request.

In-house testing for geotechnical soil characteristics at current rates, list available upon request.

Associated Project Costs (APC)

Computer hardware and software, telephone and fax communications, printing and photocopying and routine postage via USPS will be charged at a flat rate of 6 percent of labor charges. These charges are labeled as Associated Project Costs (APC).

All rates are subject to change upon notification.

EXHIBIT B
COST SUMMARY
Country Club Sewer Pump Station Improvements

HDD Geotechnical Design Services

BHC CONSULTANTS, LLC:

Job Title	Name	Estimated Hours	Labor Rate	Direct Cost
Principal	Ron Dorn	2	77.50	\$155
Project Manager	Erika Schuyler	10	53.00	\$530
Project Engineer	Kenneth Gray	0	40.00	\$0
Electrical Engineer	Jeff Gibson	0	68.00	\$0
Structural Engineer	Ken Dahl	0	70.50	\$0
CAD Operator	Glenn Castillo	0	31.75	\$0
Clerical Support	Sarah Sifferman	0	27.00	\$0
SUBTOTAL (DIRECT LABOR)		12		\$685

Overhead Rate (percentage of direct labor): 164.5% \$1,127

Fixed Fee Rate (percentage of DL+OH): 12% \$217

TOTAL \$2,029

SUB-CONSULTANTS:

GeoEngineers (Geotechnical HDD)	\$17,600
Larry Steele & Assoc. (surveying)	\$0
	\$17,600

REIMBURSIBLES:

Printing	\$0
Mileage	\$0
Communications	\$65
	\$65

TOTAL: \$19,694



LAKE WHATCOM WATER & SEWER DISTRICT

1220 Lakeway Drive
Bellingham, WA, 98229

(360) 734-9224
Fax 738-8250

August 10, 2017

Ron Dorn, PE
Executive Vice President
BHC Consultants, LLC
1601 Fifth Avenue, Suite 500
Seattle, WA 98101

Re: Country Club Sewer Pump Station Improvements
Hydraulic Fracture and Drilling Fluid Surface Release Evaluation
Authorization to Proceed

Ron,

Please proceed with the hydraulic fracture and drilling fluid surface release evaluation outlined in GeoEngineers' Task Order 03 date 8/9/2017 (attached) for time and materials not to exceed \$3,000.

We need the results of the evaluation before August 30th, 2017 for presentation to the Board of Commissioners. If the results are favorable for a safe and successful horizontal directional drilling project, we anticipate the Board will authorize the remaining HDD Geotechnical Design Services scope of work at the August 30th meeting.

Sincerely,

LAKE WHATCOM WATER & SEWER DISTRICT

A handwritten signature in black ink, appearing to read "Patrick Sorensen", written over a horizontal line.

Patrick Sorensen
General Manager

Attachments: GeoEngineers Task Order for Professional Services #3 dated 8/9/2017



LAKE WHATCOM WATER AND SEWER DISTRICT
AGENDA BILL

DATE SUBMITTED:	August 10, 2017		
TO BOARD OF COMMISSIONERS			
FROM: Bill Hunter	MANAGER APPROVAL <i>Paris June</i>		
MEETING AGENDA DATE:	August 30, 2017		
AGENDA ITEM NUMBER:	5.B.		
SUBJECT:	Geneva Woods Developer Extension Agreement		
LIST DOCUMENTS PROVIDED ⇒ NUMBER OF PAGES INCLUDING AGENDA BILL:	1.		
	2.		
	3.		
TYPE OF ACTION REQUESTED	RESOLUTION <input type="checkbox"/>	FORMAL ACTION/ MOTION <input checked="" type="checkbox"/>	INFORMATIONAL/ OTHER <input type="checkbox"/>

BACKGROUND / EXPLANATION OF IMPACT

The developer is diligently working on the installation of water and sewer infrastructure as part of the developer extension agreement. They are hoping to have completed all developer extension agreement requirements prior to the board meeting date and be ready for Final Acceptance from the Board. Requirements prior to Final Acceptance by the Board include:

- District inspects and approves the facilities as complete
- Record Drawings
- Easements and Title Insurance
- Maintenance Bond
- Bill of Sale
- Latecomers' Fees
- Supplemental, processing, or administrative fees
- Deliver water meters to District

Staff will give a verbal update on the status of the project and recommend acceptance if all agreement conditions have been fulfill prior to the Board meeting.

FISCAL IMPACT - None.

RECOMMENDED BOARD ACTION- See proposed motion.

PROPOSED MOTION - Accept the Geneva Woods Developer Extension Agreement as complete.



LAKE WHATCOM WATER AND SEWER DISTRICT

AGENDA BILL

DATE SUBMITTED:	August 10, 2017		
TO BOARD OF COMMISSIONERS			
FROM: Bill Hunter	MANAGER APPROVAL <i>Paris June</i>		
MEETING AGENDA DATE:	August 30, 2017		
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Staff will give a verbal update on the status of the project and recommend acceptance if all agreement conditions have been fulfill prior to the Board meeting.

FISCAL IMPACT - None.

RECOMMENDED BOARD ACTION- See proposed motion.

PROPOSED MOTION - Accept the Geneva Woods Developer Extension Agreement as complete.



LAKE WHATCOM WATER AND SEWER DISTRICT

AGENDA BILL

DATE SUBMITTED:	August 22, 2017		
TO BOARD OF COMMISSIONERS			
FROM:	MANAGER APPROVAL <i>[Signature]</i>		
MEETING AGENDA DATE:	August 30, 2017		
AGENDA ITEM NUMBER:	5.C.		
SUBJECT:	Ratification of Confidentiality Agreement with Administrative Assistant		
LIST DOCUMENTS PROVIDED ⇒ NUMBER OF PAGES INCLUDING AGENDA BILL:	1. Confidentiality Agreement		
	2.		
	3.		
TYPE OF ACTION REQUESTED	RESOLUTION <input type="checkbox"/>	FORMAL ACTION/ MOTION <input type="checkbox"/>	INFORMATIONAL/ OTHER <input type="checkbox"/>

BACKGROUND / EXPLANATION OF IMPACT

One of the conditions when recruiting a new Administrative Assistant earlier this summer was that the District would require the individual hired would need to sign a confidentiality agreement after being hired. Because of the nature of the duties involving confidential issues regarding staff, the Board, and executive session issues it was felt by management that this position should enter into such an agreement. This is not an uncommon condition for such a position.

The attached agreement was developed by District legal course. Our new Administrative Assistant has already signed this agreement. At the advice of counsel, we are looking for the Board to ratify this agreement.

FISCAL IMPACT

There is no fiscal impact.

RECOMMENDED BOARD ACTION

That the Board ratifies the terms of the attached confidentiality agreement.

PROPOSED MOTION

Motion to ratify.



LAKE WHATCOM WATER AND SEWER DISTRICT

AGENDA BILL

DATE SUBMITTED:	August 22, 2017		
TO BOARD OF COMMISSIONERS			
FROM:	MANAGER APPROVAL <i>Patricia June</i>		
MEETING AGENDA DATE:	August 30, 2017		
AGENDA ITEM NUMBER:	5.C.		
SUBJECT:	Ratification of Confidentiality Agreement with Administrative Assistant		
LIST DOCUMENTS PROVIDED ⇒ NUMBER OF PAGES INCLUDING AGENDA BILL:	1. Confidentiality Agreement		
	2.		
	3.		
TYPE OF ACTION REQUESTED	RESOLUTION <input type="checkbox"/>	FORMAL ACTION/ MOTION <input type="checkbox"/>	INFORMATIONAL/ OTHER <input type="checkbox"/>

BACKGROUND / EXPLANATION OF IMPACT

One of the conditions when recruiting a new Administrative Assistant earlier this summer was that the District would require the individual hired would need to sign a confidentiality agreement after being hired. Because of the nature of the duties involving confidential issues regarding staff, the Board, and executive session issues it was felt by management that this position should enter into such an agreement. This is not an uncommon condition for such a position.

The attached agreement was developed by District legal course. Our new Administrative Assistant has already signed this agreement. At the advice of counsel, we are looking for the Board to ratify this agreement.

FISCAL IMPACT

There is no fiscal impact.

RECOMMENDED BOARD ACTION

That the Board ratifies the terms of the attached confidentiality agreement.

PROPOSED MOTION

Motion to ratify.

CONFIDENTIALITY AGREEMENT

THIS CONFIDENTIALITY AGREEMENT ("Agreement") is made between Lake Whatcom Water and Sewer District, having an office at 1220 Lakeway Drive, Bellingham, WA 98229 (the "District"), and Rachael Hope, Administrative Assistant to the General Manager of the District (the "Employee"), and is entered into and is effective as of the 14th day of August, 2017.

WHEREAS, the Employee's first day of work for the District was July 25, 2017; and

WHEREAS, in the course of her employment, the Employee will have access to Confidential Information as defined in Paragraph 1 of this Agreement; and

WHEREAS, the District has the desire and duty to ensure that Confidential Information is not disclosed to any outside party or person or any internal party or person not authorized by the General Manager or District legal counsel, unless otherwise authorized herein; and

WHEREAS, these recitals are a material part of this Agreement;

NOW THEREFORE, in consideration of the Employee's continued employment with the District, the parties hereto acknowledge, declare, covenant and agree as follows:

1. DEFINITION OF CONFIDENTIAL INFORMATION

Confidential Information means:

- (a) Information pertaining to current, past, future, or potential District customers or accounts of a personal or financial nature, including without limitation information such as names, contact information, account numbers, account balances, and water or sewer consumption; and
- (b) Information pertaining to current, past, future, or potential District employees of the kind that is or would be ordinarily kept in a personnel file, including personal information and information relating to the employee's employment with the District; and
- (c) Legal advice and information from legal counsel shared with the General Manager or his designee, or in an executive session of the Board of Commissioners; and
- (d) Any documents or portions of documents that would be exempt from disclosure to the public under the Public Records Act, Chapter 42.56 RCW, including without limitation those documents described in Exhibit A hereto.
- (e) Any other information that is not generally available to the public.

This definition applies regardless of how or why the Confidential Information was disclosed to or obtained by the Employee, from any source or in any manner whatsoever. It applies whether the Confidential Information is current, historical, or contemplated. The definition of Confidential Information should be interpreted broadly. Any ambiguity about whether or not information is Confidential Information should be resolved in favor of considering such information to be Confidential Information, until otherwise directed by the General Manager or the District's legal counsel.

2. NON-DISCLOSURE AND NON-USE OF CONFIDENTIAL INFORMATION

- (a) Except for those specific exemptions listed in this Agreement, the Employee shall not in any way disclose any Confidential Information to anyone other than the General Manager, District legal counsel, or persons expressly authorized by same to receive said Confidential Information; except as allowed in Subsection (b) below. The Employee shall take reasonable precautions to prevent any unauthorized use, disclosure, publication or dissemination of any Confidential Information which may come into her possession or knowledge.
- (b) The Employee may disclose Confidential Information when required to do so by law, and may disclose the minimum amount of Confidential Information necessary to District employees, commissioners, or other agents of the District if required for the performance of duties on the District's behalf.

3. RETURN OF CONFIDENTIAL INFORMATION

Within three days of receipt of the District's written request, or upon the termination of Employee's employment for any reason, the Employee shall return to the District all documents, records, and copies thereof in her possession or control containing any Confidential Information. For the purpose of this section, the term "documents" includes all information fixed in any tangible medium of expression, in whatever form or format, including any documents created by the Employee containing Confidential Information.

4. SURVIVAL OF TERMINATION OF EMPLOYMENT

This Agreement will survive the termination of the District's employment of the Employee, regardless of the reason or circumstances of that termination, or whether the termination was voluntary or involuntary. After her employment is terminated, Employee shall forever abide by the terms of this Agreement.

5. ENFORCEMENT AND EQUITABLE RELIEF

The Employee hereby acknowledges that unauthorized disclosure or use of Confidential Information could cause irreparable harm and significant injury to the District or third parties that may be difficult to ascertain. Accordingly, the Employee agrees that the District will have

the right to seek and obtain immediate injunctive relief to enforce obligations under this Agreement in addition to any other rights and remedies it may have.

6. GENERAL

- (a) No waiver or consent by the District will be effective unless in writing, and no such waiver or consent will apply beyond the specific facts in respect of which the waiver or consent was given.
- (b) This Agreement is completely integrated and supersedes and replaces any other prior agreements, written or oral. Any modification to this Agreement shall be valid and binding only if made in writing and signed by both the Employee and an authorized representative of the District.
- (c) This Agreement inures to the benefit of and is binding on the Employee and the District and its respective affiliates, successors and permitted assigns.
- (d) This Agreement shall be construed in accordance with the laws of the State of Washington and shall be treated, in all respects, as a Washington contract. Venue shall be proper in Whatcom County Superior Court.
- (e) The prevailing party in any lawsuit filed in connection with this Agreement shall be entitled to an award of its actual attorney's fees and costs incurred.
- (f) The invalidity or unenforceability of any provision of this Agreement shall not affect the validity or enforceability of any other provision of this Agreement, and the Agreement shall be enforced as if the invalid or unenforceable provisions were omitted.

IN WITNESS WHEREOF the parties hereto have executed this Agreement as of the date first above written.

LAKE WHATCOM WATER SEWER DISTRICT:



EMPLOYEE:



By: Patrick Sorensen
Its: General Manager

EXHIBIT A

The following table contains examples of the kinds of information that is exempt from the Public Records Act, designed to help you determine whether something should be considered confidential. It is NOT comprehensive. It is derived from a table produced by the Sunshine Committee in the Washington State Attorney General's Office. This table is current as of July 2017. The exemptions to the Public Records Act change frequently. Consult the District legal counsel with questions about whether a particular piece of information is exempt.

SUBJECT	RCW	DESCRIPTION
Administrative	29A.32.100	Argument or statement submitted to Sec. of State for voters' pamphlet
Administrative	4.24.601; 42.24.611	Trade secrets and confidential research, development or commercial information
Administrative	40.14.030(2)	Records transferred to state archives
Administrative	42.56.290	Agency records relevant to a controversy but which would not be available to another party under the rules of pretrial discovery for causes pending in the Superior courts
Administrative	42.56.420(2)	Records containing specific and unique vulnerability assessments and emergency and escape response plans
Administrative	42.56.420(4)	Information regarding infrastructure and security of computer and telecommunications networks to the extent that they identify specific system vulnerabilities
Administrative	42.56.600, 7.07.050(5); 7.07.070, 5.60.070	Records of mediation communications that are privileged under the Uniform Mediation Act; mediation communications, records, and materials.
Administrative	42.56.615; 43.41.435	Enumeration data used by OFM for population estimates, in accordance with RCW43.41.435
Administrative	43.22.290	Employer labor statistics reports provided to the Department of Labor & Industries
Administrative	43.22.434	Info obtained from contractors through an audit
Administrative	5.60.060	Privileged communications between persons & various professionals, e.g., attorneys or physicians
Administrative	51.28.070	Info in industrial insurance claim files
Customers	42.56.230(4)	Certain taxpayer information if it would violate taxpayers right of privacy
Customers	42.56.230(5)	Credit card numbers, debit card numbers, electronic check numbers, and other financial information, except when disclosure is required by other law

Customers	42.56.330(2)	Phone numbers, electronic contact information, customer-specific usage in billing information in increments less than a billing cycle, in public utility records
Employees	42.56.230(3)	Personal information in files on employees, appointees, or elected officials if disclosure would violate their right to privacy
Employees	42.56.250 (1)	Test questions, scoring keys, and other exam information used on licenses, employment or academics
Employees	42.56.250 (2)	Applications for public employment, including names, resumes
Employees	42.56.250 (4)	Address, phone nos., email address, SSNs, drivers' license numbers, identocard numbers, and emergency contact information of public employees or volunteers held by public agencies
Employees	42.56.250(5) & (6)	Information from employee relating to an unfair practice, if requested; information relating to unfair practices investigations.
Employees	49.17.080(1)	Name of employee of company seeking Industrial Safety & Health Act
Employees	49.76.040; 49.76.090	Domestic violence and DV leave information is confidential
Employees	50.13.015 through 50.13.100	Most info supplied to Employment Security Department is confidential
Employees	50A.---	Family Medical Leave Act - Information pertaining to employees or obtained under this chapter is confidential but may be reviewed by department employees or representatives. (As of July 2017, not codified)
Financial	42.56.230(5)	Credit card numbers, debit card numbers, electronic check numbers, and other financial information, except when disclosure is required by other law
Financial	42.56.260	Real estate transactions, subject to stated limitations
Financial	42.56.270(6)	Financial information on investment of retirement moneys and public trust investments
Financial	42.56.330(1)	Valuable commercial information, including trade secrets or confidential marketing, cost, or financial information, or customer-specific usage information supplied to the UTC
Miscellaneous	42.56.300	Information identifying the location of archaeological sites
Planning/Develop ment	39.26.030(2)	Competitive bids subject to chapter 42.56 RCW except exempt from disclosure until apparent successful bidder announced
Planning/Develop ment	42.56.270(1)	Valuable formulae, designs, drawings and research obtained by agency within 5 years of request for disclosure if disclosure would produce private gain and public loss
Planning/Develop ment	42.56.280	Preliminary drafts, notes, recommendations, and intra-agency memos where opinions are expressed or policies formulated or recommended, unless cited by an agency



LAKE WHATCOM WATER AND SEWER DISTRICT

AGENDA BILL

DATE SUBMITTED:	August 24, 2017		
TO BOARD OF COMMISSIONERS			
FROM:	MANAGER APPROVAL <i>[Signature]</i>		
MEETING AGENDA DATE:	August 30, 2017		
AGENDA ITEM NUMBER:	5.D.		
SUBJECT:	Final Version of the North Shore Water Consolidation Report		
LIST DOCUMENTS PROVIDED ⇒ NUMBER OF PAGES INCLUDING AGENDA BILL:	1. North Shore Water Consolidation Report		
	2.		
	3.		
TYPE OF ACTION REQUESTED	RESOLUTION <input type="checkbox"/>	FORMAL ACTION/ MOTION <input type="checkbox"/>	INFORMATIONAL/ OTHER <input type="checkbox"/>

BACKGROUND / EXPLANATION OF IMPACT

Wilson Engineering has completed the grant funded North Shore Water Consolidation Report as required by the Washington State Department of Health. This report has been presented previously to the Board in a draft format. In addition, its principal findings and comments have also been presented to the public at the June 20, 2017 public hearing. Melanie Mankamyet will present the final version to the Board and address any questions.

FISCAL IMPACT

At this time there is no direct funding impact as acceptance of the Report does not commit the District to any specific direction.

RECOMMENDED BOARD ACTION

That the Board of Commissioners except the attached report as final and direct staff to submit it to the State of Washington.

PROPOSED MOTION

A motion to except the North Shore Water Consolidation Report and submit it to the Washington State Department of Health as completed.



LAKE WHATCOM WATER AND SEWER DISTRICT

AGENDA BILL

DATE SUBMITTED:	August 24, 2017		
TO BOARD OF COMMISSIONERS			
FROM:	MANAGER APPROVAL <i>[Signature]</i>		
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FISCAL IMPACT

At this time there is no direct funding impact as acceptance of the Report does not commit the District to any specific direction.

RECOMMENDED BOARD ACTION

That the Board of Commissioners except the attached report as final and direct staff to submit it to the State of Washington.

PROPOSED MOTION

A motion to except the North Shore Water Consolidation Report and submit it to the Washington State Department of Health as completed.



LAKE WHATCOM WATER AND SEWER DISTRICT
Whatcom County, Washington

NORTHSHORE CONSOLIDATION FEASIBILITY STUDY

WHATCOM COUNTY, WASHINGTON

Department of Health Contract N21980

WILSON ENGINEERING, LLC
Consulting Engineers
805 Dupont Street, Suite 7
Bellingham, Washington 98225
Project # 2016-093
August 2017

LAKE WHATCOM WATER AND SEWER DISTRICT
NORTHSHORE CONSOLIDATION FEASIBILITY STUDY
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LAKE WHATCOM WATER AND SEWER DISTRICT
NORTHSHORE CONSOLIDATION FEASIBILITY STUDY

Whatcom County, Washington

1.0 INTRODUCTION

The Washington State Department of Health (DOH) has entered into an interagency agreement with Lake Whatcom Water and Sewer District of Whatcom County (LWWSD) to prepare and submit a feasibility study evaluating consolidating three existing Group A water systems on the north shore of Lake Whatcom: Eagleridge (#08118), Agate Heights (#52957), and Agate Bay Trailer Park (#00496). In addition, two Group B water systems and numerous individual homes will be considered for consolidation. All are within the District's service area boundary as shown in Figure 1.

Development of this area has resulted in several private water systems, individual wells and individual surface water withdrawals that generally have limited or no fire flow capacity and are relatively expensive to operate due to their small size. The goal of this study is to examine the feasibility of combining the systems into one system that would result in improved water quality and quantity, and increased safety and reliability.

The study area is classified as Rural and with R5A zoning (one unit per five acres). This area is shown in Figure 2. Note that 90% of the lakefront development has already occurred, and at density levels much higher than one unit per five acres.

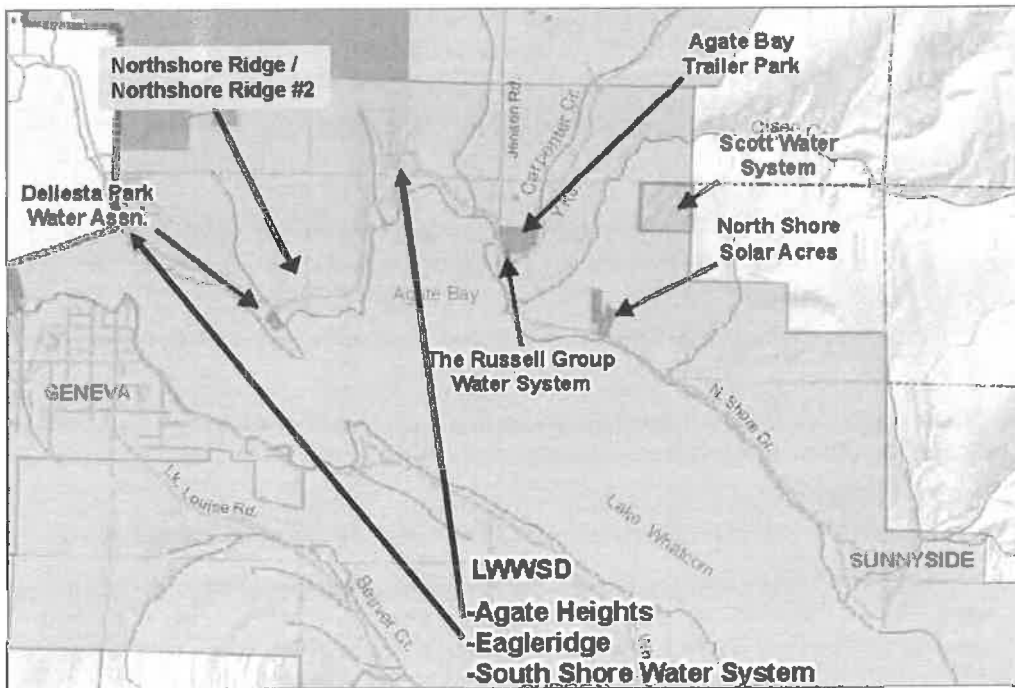


Figure 1. North Shore Area from Whatcom County Coordinated Water System Plan Map

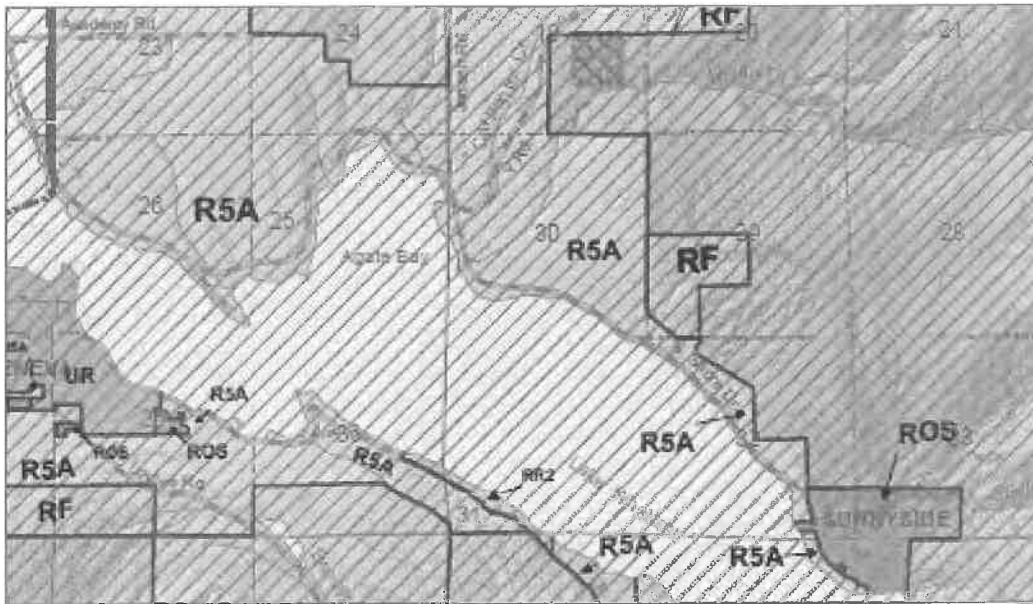


Figure 2. Whatcom County Zoning for North Shore Area

2.0 NORTSHORE STUDY AREA EXISTING CONDITIONS

The Northshore area of Lake Whatcom Water and Sewer District is located 5 miles east of the center of Bellingham and abuts the City limits on its western edge. The study area is zoned rural - R5A (rural 1 unit per 5 acres). Water facilities inventory forms (WFI's) for several of the systems are included in the Exhibit 1. The Group A systems are (1) Eagleridge (LWWSD), (2) Agate Heights (LWWSD), (3) Agate Bay Trailer Park, and (4) Russel Group (The Fork restaurant). In addition there are several Group B water systems which include (5) North Shore Solar Acres, (6) North Shore Ridge, (7) North Shore Ridge #2, and (8) Dellesta Park. There are also 330 existing private residences within the study area that are on private wells or direct lake draws. The estimated number of existing potential water services with the study area total approximately 525. The subject individual water systems are shown on Figure 1 and the capacity of each is listed below.

- Eagleridge Water System – water source is City of Bellingham; 70 connections; capacity = 85
- Agate Heights Water System – water source is a District-owned well; 39 connections (44 ERUs); capacity = 48 connections (54 ERUs)
- Agate Bay Trailer Park Water System – Group A, well source, 25 connections
- Russell Group (restaurant) – Group A, well source, one connection
- Dellesta Park – Group B, well source, 5 connections (capacity=7)
- North Shore Solar Acres – Group B, well source, 6 connections
- Northshore Ridge – Group B, well source, 4 connections
- Northshore Ridge #2 – Group B, well source, 3 connections

2.1 Source of Supply

For the consolidated water system, the District plans to use its Agate Heights well as the Source of Supply, and maintain the connection to the City of Bellingham at Eagleridge as an emergency intertie.

Well - The District's well at Agate Heights is a 10-inch artesian well with a pumped capacity of 494 gpm (322 gpm from artesian pressure). A 100-ft radius protective zone is provided with a

Restrictive Covenant for the well.

Water Rights – The District has several water rights (Permits and Certificates) associated with this well that total 438 gpm:

1. G22681P - 60 gpm instantaneous; 32.4 acre-ft/yr annual
2. G22763P - 360 gpm instantaneous; 465.9 acre-ft/yr annual
3. G23449 - 18 gpm instantaneous; 8.6 acre-ft/yr annual

Water Quality – The water from the existing well needs to be treated to remove manganese. The Agate Heights Water Treatment Plant is currently a 30 gpm Filtronics package treatment system which is nearing capacity. The District plans to increase the capacity of the water treatment plant to accommodate localized demand even if the consolidation project is not constructed.

2.2 Storage

The Agate Heights water system has two reservoirs at two different elevations. The lower 80,000 gallon reservoir is filled at a rate of 30-gpm by the system transmission pumps, which is activated when the treatment plant is operated. The upper 105,000 gallon reservoir is filled at a rate of 21 gpm. The source is the lower reservoir. The existing reservoirs currently provide equalizing, standby, and fire storage for the Agate Heights water system.

2.3 Booster Pumps / Transmission Pumps

The Eagleridge water system currently uses booster pumps to maintain water pressure. With the consolidated water system, these booster pumps would no longer be needed. The Agate Heights water treatment plant pumps are sized to match the treatment plant capacity. The transmission pumps for the filling the upper tank are converted booster pumps, repurposed when the upper tank was installed.

2.4 Distribution System

The water distribution systems both consist entirely of 8-inch ductile iron pipe. Eagleridge currently provide 750 gpm for fire protection and Agate Heights currently provide 500-750 gpm for fire protection.

3.0 SYSTEM DEMANDS

For this feasibility study, we have developed three scenarios based on different projections for system expansion:

- Alternative 1 – Match District sewer service area
- Alternative 2 – Extend water to east end of Northshore Road
- Alternative 3 – Extend only to Group A systems at Y Road

The service areas and proposed schematic facility locations for each of these Alternatives are included in Exhibit 2.

We reviewed the Average Day Demand (ADD) and Maximum Day Demand (MDD) values for both the Eagleridge and Agate Heights water systems listed in the 2010 Water Comprehensive Plan

and the 2016 Water Use Efficiency Plan Update since the customers on these systems would be similar to the new customers incorporated into the consolidated water system. The average of the four ADD values in these two reports is 243 gpd/ERU. Given that the existing data set is a small number of customers, and that the DOH Manual recommends using 350 gpd/ERU as a minimum, this analysis used 350 gpd/ERU for ADD.

The average of the four MDD values in these two reports is 680 gpm/ERU. When good metered data is not available, the DOH Manual recommends using two times the ADD for MDD. This analysis used 700 gpd/ERU for MDD.

The resulting PHD (peak hourly demand) is computed using DOH'S PHD Worksheet (See Appendix 8) for each Alternative. In addition to PHD, this water system will provide residential fire flows of 750 gpm.

4.0 SYSTEM ANALYSIS

Analysis is performed in accordance with DOH "Water System Design Manual" as described below. The amount of water supply and storage are interdependent. For instance, equalizing storage is used to supply the difference between pumping rate and demand rate. When demand rates are greater than pumping rates, water in storage is used to supply the difference. When demand rates are less than pumping rates, storage is replenished. The greater the capacity of the water supply the less equalizing storage needed. The minimum capacity of the source(s) must be equal to or greater than the maximum daily demand.

4.1 Source of Supply

The 10-inch well at Agate Heights has been performance tested at 494-gpm, however the current pump capacity is limited to 30-gpm. The District holds water rights on this well for 438 gpm. The MDD (maximum daily demand) for the system is projected to be 700 gpd/ERU. To meet MDD for any of the Alternatives, the treatment plant and pumping capacity will need to be increased.

The size of water treatment plant that each Alternative would need is calculated as follows and listed in the table below:

$$\text{Build out rate} = (700 \text{ gpd/parcel} \times \text{Build-out ERUs}) / (1,440 \text{ mins/day}) = \text{Plant Size (gpm)}$$

Scenario:	Build-out ERUs	Minimum Plant Size (*)
Alternative #1	405	200 gpm
Alternative #2	530	260 gpm
Alternative #3	355	175 gpm

4.2 Storage

Storage required consists of the sum of operating storage, equalizing storage and the greater of standby storage or fire flow storage. Currently Agate Heights has an 80,000 gallon reservoir and a 105,000 gallon reservoir. For this analysis, we excluded the 105,000 gallon reservoir, which serves the upper pressure zone and provides fire suppression storage for the Lake Whatcom Residential and Treatment Center. Eagleridge relies on storage capacity provided by the City of Bellingham.

The total storage volume is the sum of several components. Operating storage is the volume between the “off” and “on” control levels in the reservoir. Equalizing storage is equal to the product of 150 and the difference in peak hourly demand (PHD) and supply rate. Standby storage is equal to twice the ADD of 350 gpd/ERU x N ERUs. Minimum fire suppression storage for the residential portion of this system is 45,000-gallons; however this is nested with standby storage; resulting in the larger of the two values being applicable. Dead storage is the volume in the bottom of the tank below the “silt guard” outlet plus the volume at the top of the tank above the “off” probe. The “total storage required” is the sum of each of these values and can be compared with “storage available” as reflected in the table below. The table also indicates the minimum additional storage volume required. Please note that these values are based on a DOH Design Manual ADD of 350 gpd/ERU and highly sensitive to that value because the largest component of storage (Standby Storage) is equal to two times ADD times the number of ERUs. For example, if the calculated average for ADD of 243 gpd/ERU (see Section 3) were used, the total required storage for Alternative #1 would be reduced by about 82,000 gallons to 230,000 gallons. Using the lower value for ADD will require DOH approval.

Scenario:	Total Required Storage (gallons)	Storage Available (gallons)	Additional Storage Needed (gallons)
Alternative #1	312,000	80,000	232,000
Alternative #2	403,000	80,000	323,000
Alternative #3	274,000	80,000	194,000

4.3 Transmission Pumps

The transmission pump system needs to deliver the treated water to the storage reservoir(s). The flow rates will be sized to match the water treatment plant capacity, and the required pumping head will be calculated based on the elevation head and the friction head.

4.3 Distribution System

The consolidated system will provide 750 gpm fire flow and ensure that a minimum pressure of 20 psi is maintained at each service meter during a fire flow event. Supplying fire flows is the driving factor in the sizing of the distribution system. The hydraulic analyses indicated that the majority of the distribution pipe will need to be 12-inch diameter in order to meet the fire flow scenarios. The remainder will be a minimum of 8-inch diameter.

The District standard practice is to install fire hydrants every 600 feet along the distribution mains.

5.0 PROJECT COST ESTIMATE AND FUNDING OPTIONS

5.1 Project Cost Estimate

We have evaluated three scenarios and developed planning level cost estimates for each. The first is Alternative 1 which matches the existing District sewer service area (ending approximately at the east side of Agate Bay). Alternative 2 extends water service to the east end of Northshore Road. Alternative 3 limits the water system extension to only as far as needed to connect the existing Group A water systems and end at the Y Road. These preliminary, planning level cost estimates are included in Exhibit 3.

The preliminary project cost estimate for Alternative 1 is \$6.3M to \$6.9M. This includes engineering, permitting, and surveying in addition to construction costs and 10-20% contingency. It does not include the cost of metered service connections since the level of participation is unknown, and those costs are typically born directly by the property owners. The build-out number of Equivalent Residential Units (ERUs) assumed for Alternative 1 is 405 (120 from existing service areas).

The Alternative 2 scenario builds on Alternative 1, and adds about 11,750 feet of water main, nineteen fire hydrants, a larger storage reservoir, and a larger water treatment plant and transmission pumps. The build-out number of Equivalent Residential Units (ERUs) assumed for Alternative 2 is 530 (120 from existing service areas).

The preliminary project cost estimate for Alternative 2 is \$9.1 to \$10M. Again, this includes engineering, permitting, and surveying in addition to construction costs and 10-20% contingency. It does not include the cost of metered service connections since the level of participation is unknown, and those costs are typically born directly by the property owners.

Alternative 3 is a reduction from Alternative 1 - it has about 3,650 feet less of water main and 6 fewer fire hydrants. It also reduces the number of potential future customers by about 50 - the build-out number of Equivalent Residential Units (ERUs) assumed for Alternative 3 is 355 (120 from existing service areas).. The preliminary project cost estimate for Alternative 3 is about \$5.7 to \$6.2M.

5.2 Financing Options

There are several potential sources of funds for financing a drinking water project of this size. The Drinking Water State Revolving Fund (DWSRF) Loan program specifically targets projects that consolidate existing Group A water systems and will forgive up to 50% of the loan principal for these projects, subject to funding availability. These loans typically have a payback period of 24 years, so collection can also occur over time, and substantially reduce the up-front costs to participants. The Public Works Trust Fund would also fund a project like this, though funds are not reliably available. The District could issue a Revenue Bond, which would typically have a 20 year payback. The final possible funding source considered was USDA-Rural Development, which has a term of up to 40 years, but will only fund projects that have no other financing options. A summary of rates and terms for these options is listed below.

Funding Source	Interest Rate	Loan Term
Drinking Water State Revolving Fund (DWSRF) Consolidation Loan <ul style="list-style-type: none"> Potential for 50% principal forgiveness (if funds are available) 	1.5%	24 years
Public Works Trust Fund Loan	1-2%	20 years
Revenue Bond (as of 4/20/17; AA Bond Rating)	2.73%	20 years
USDA-Rural Development (as of 7/1/17) <ul style="list-style-type: none"> Funding source of last resort 	3.25%	up to 40 years

Of these options, the DWSRF Loan with the 50% principal forgiveness is the most attractive financing option because it substantially reduces the amount of capital expenditures that need to

be recovered. However, there is the uncertainty that funds would be available for the principal forgiveness portion of the loan. Loan applications are typically accepted in September, and are funded based on how well the project scores on Department of Health evaluation criteria.

The Revenue Bond is a funding source that is more under the control of the District than any of the loan options. The District has an AA Bond Rating and has obtained financing for capital project using Revenue Bonds in the past. Because the District has bonding capacity, it is less likely to qualify for funding from USDA-Rural Development.

5.3 Cost Sharing Options

We have identified three potential methods the District could use to collect payments over time - a Utility Local Improvement District (ULID), a "Special Benefit Area" fee assessed upon connection, or a fixed debt-service/capital charge on the water bill. The underlying assumption for all of these options is that the costs will be borne by the new connections or assessed properties, and not by existing District customers.

The main advantage of a ULID is that it would assess all of the properties that benefit from the improvement, whether they connect or not. It also allows the assessment to be paid over time - typically 20 years with interest. It would address the inherent inequity of those who connect subsidizing fire protection for neighbors who elect not to connect. The disadvantage of a ULID is the high costs associated with creating the ULID and the hurdle that the assessment must be no more than the amount the property's value is increased by the assessment. The area to be served is already 90% built-out, and these homes already have some source for water. We assume, therefore, that the assessment needed would exceed the amount allowed under the ULID statute.

The "Special Benefit Area" fee would be similar to a ULID, without using the formal ULID process. The project costs would be divided amongst an estimated number of likely connections. It would be possible to pay over time with a security interest recorded against the property.

It is challenging to predict the number of properties that would connect to the public water system if it is installed. Typically, a municipal purveyor cannot compel connection to a public water system, and there is a contingent of property owners who are not interested in connecting to public water. There are, however, approximately 250 residences on surface water withdrawals - some with permits, some with claims and some with applications pending. Of the 118 with permits, the Department of Ecology (DOE) estimates that about 64 include a provision "to connect to a public water supply when connection to such system is practical and discontinue use from the lake." DOE has indicated that the 42 pending applications would be similarly provisioned, as would any new applications for surface water withdrawals. The District has also been requiring new sewer-only customers to sign a Covenant that requires them to connect to water when it is available. The number of these covenants in place is unknown, and many probably overlap with the DOE provisional water rights. Figure 3 shows the status of surface water rights based on DOE's database. Note that the map excludes District customers but not others on wells or small water systems. These are red on the map, since they do not having a surface water right.



Figure 3. Department of Ecology Surface Water Right Status Map

The third option for cost recovery is adding a capital recovery charge to the water bills. This fee would not apply to existing District water customers on the North Shore. This is a simple approach, and allows the cost share to be adjusted as new connections are added. It may be interesting to investigate adding a capital recovery charge for the portion of the water system needed to provide fire protection to the sewer bills of the existing district customers. This would capture some of those who benefit from the fire protection provided by the improvements, but elected not to connect to public water.

The cost share per connection was determined using three participation levels - 50%, 75% and 90%. The cost share range shown in Table 1 below is based on the Alternative Project Costs divided by the projected number of participants for each Alternative. The lowest value represents Alternative 2 which has the highest potential number of new connections.

Table 1. Estimated Cost Share Per Connection

	Cost Share per Connection	
	Lump Sum Fee (range)	Annualized Fee (based on 20-year Bond repayment at 2.73%)
50% Participation	\$48,000 - \$56,500	\$3,146 - \$3,704
75% Participation	\$33,500 - \$39,200	\$2,196 - \$2,570
90% Participation	\$28,500 - \$33,300	\$1,868 - \$2,183

* Lump sum fee includes an estimate for the service connection including the meter assembly

If the District pursues and secures a DWSRF Loan with up to 50% principal forgiveness for a consolidation project, then the project costs would be greatly reduced and the connection share would also be much less.

The District recently had its general facilities / connection charge for future connections reviewed. The analysis conducted did not include this potential project as a future capital investment because it was assumed that the project would be paid for by those who benefit. It also did not include the potential new customers associated with this system expansion.

Because of the size of this system expansion when compared to the existing District water utility assets, it may be beneficial to consider establishing a separate general facilities / connection charge for the North Shore. The majority of the water infrastructure is in the South Shore water system, and the majority of customers are served by the South Shore system. The general facilities / connection charge is the “buy-in” for the new customers to the existing system and the consolidation project is essentially installing a new water system for the North Shore service area. It would follow that the cost share per connection above would be the basis for a new general facilities / connection charge specifically for the North Shore, with the appropriate incorporation of the existing assets at Eagleridge and Agate Heights to the “buy-in” calculation.

5.4 Example Rates and Charges

Example Bi-monthly water charges: These numbers are very preliminary and are based on existing District water rates and average water use by Agate Heights water system customers.

- Base Rate = \$62.31/two months
- Water Usage over 600 cubic feet (CF) = \$8.85/100 CF
- Bi-monthly Base + average usage = \$171.43 (\$85.72/month)

As an example, a property with a one-inch water service and an average of 750 gallons per day water use would have a total monthly bill in the range of \$213.10 to \$253.10.

6.0 PUBLIC MEETING AND OUTREACH FEEDBACK

A public meeting was held on June 20, 2017, at 6:30pm at the North Whatcom Fire Hall. The meeting was well attended with 54 individuals and couples signing in. Several District Commissioners were in attendance, along with the General Manager and Assistant General Manager. The consolidation Alternatives and preliminary cost estimates were presented and the floor was open for questions and discussion. There were many comments and questions before the meeting was adjourned at 7:36 pm. There were two main themes of the discussion - comments of support for the project and comments against the project as promoting growth and development in the Lake Whatcom watershed.

A questionnaire was also available and 47 were filled out and returned that evening. Several more were returned the next day. A copy of the questionnaire and the raw results are included in Exhibit 4. The questionnaire gathered some basic information (property use, water source) in addition to interest in connecting to public water. It also polled motivations to connect and financial priorities.

The initial questionnaire responses were evenly split between those who wanted to connect to public water and those who didn't (21 yes / 21 no). Six respondents wrote in “maybe” or “depends”. There were also recurring items that came up under “motivation” such as fire protection/safety that were added to the second generation questionnaire.

6.1 Summary of Questionnaire Responses

On July 10, 2017, the District sent a follow-up letter with the updated questionnaire to all property owners within the potential service area. The letter indicated that responses should be returned by July 31, 2017.

As of August 24, 2017, the District received 253 questionnaire responses, both from the public meeting and the subsequent mailing to the properties in the area. The mailing included existing District water customers in Eagleridge and Agate Heights, and did not exclude those who had submitted responses at the public meeting since not all of the responses received included addresses. There are known duplicates in the data set that can be identified by names or addresses, and there are probably also unknown duplicates in the responses that did not include a name or address.

The raw questionnaire data is included in Exhibit 4. In analyzing the data, we used addresses to identify 21 responses came from existing District customers. These responses are not included in the summary results listed below.

The breakdown of the questionnaire responses are listed below:

1. What is the current use of your property?
 - Single Family 200
 - Vacant 19
 - Other 12
 - No entry 1

2. What is the water source for your property?
 - Lake Draw 109
 - Well/Lake Draw 2 (checked two boxes)
 - Well 52
 - Shared Well 40
 - Water System 9
 - Rainwater 3
 - Other 6
 - None/No entry 11

3. Are you interested in connecting to a public water system? (broken down by water source)

Water Source:	Yes	No	Maybe/Depends
Lake Draw	29	53	27
Well/Lake Draw	2		
Well	14	23	15
Shared Well	15	12	13
Water System	3	1	5
Rainwater	1	1	1
Other	2	3	1
None	7		1
No entry	1	2	
TOTAL	74	95	63

4. If you are interested, what is your motivation to connect to a public water system?

	Yes	Maybe/Depends
• Reliability	62	36
• Water Quality	59	23
• Water Quantity	20	15
• Fire protection	23	12
• Other	6	8

5. If you are interested, what will drive your decision-making process? (Rank 1-4 with 1 being most important)

	Yes				Maybe/Depends			
	1	2	3	4	1	2	3	4
Overall cost to connect	38	18	4	0	36	18	0	0
Ability to pay connection fee over time	11	17	17	3	4	18	15	3
Estimated water bills	5	23	22	3	7	25	15	1
Other *	11	4	0	8	4	1	2	7

**“Other” includes: water pressure, less maintenance, timing, wants public sewer included, access to water, fire protection, monitored supply, ability to keep current water source for irrigation, will water use be limited, wants mineral-free water, resale of property, clogged intakes.

The “Comments” section of the questionnaire was well used. All of the comments are included with the raw questionnaire data in Exhibit 4. A summary of the most common comments is provided below.

The two main concerns of those who responded that they were not interested in connecting to public water were the costs associated with it and that they see public water as promoting growth in the Lake Whatcom watershed. These properties already have a water source that they are happy with. It is interesting to note that one “No” response was interested in fire protection, and another was interested in connecting to public sewer.

The primary concern of those who responded with “maybe/depends” is cost. Several also expressed concern about promoting growth and four expressed interest in a sewer connection.

The comments received by those who were interested in connecting to public water included general statements of support for the project, interest in fire protection, and interest in access to a potable water source with good quality water. There were two “yes” responders interested in connecting to public sewer. Most of the vacant properties indicated that they would connect considering the current circumstances where the Hirst decision has effectively placed a moratorium on using individual wells for new development.

It is interesting to note that three responders indicated that they are using rain water harvesting as their water source, which confirms that development has not been prevented from occurring even with the “moratorium” on individual wells. One is very interested in connecting to public water, one has just spent \$18,000 for the rainwater system and is not interested in public water.

6.2 Other Concerns / Comments

Several brought up the question of whether they would be able to continue to use their existing water source for irrigation, or as a back-up supply. This is a question best answered by the Department of Ecology. We have not pursued this subject with them.

There were several questions at the public meeting about whether the District would force residences to connect. In general, the District does not have the authority to compel connection to public water. The District does have the authority to compel connection to public sewer, and has a policy that connecting to water is required with a sewer connection, where water is available. It was brought up that the District has been requiring sewer-only connections to sign a Covenant that would require connection to public water when it is available.

7.0 SUMMARY AND CONCLUSIONS

All of the water system consolidation Alternatives are technically feasible - the District has sufficient water rights on a well with sufficient production capacity, and the ability to expand the water treatment plant at the existing site. Potential challenges include obtaining a site for the new water reservoir, and underground conditions (possible rock). The financial feasibility of this project depends on the participation of enough parties to make the financial commitment acceptable. Overall costs and the ability to pay over time will be key to achieving reasonable participation levels of those in the "maybe/depends" category.

The public process for this project has raised other factors to consider which are discussed below.

7.1 Public Health

Water quality was the second highest potential motivation for connecting to public water. The District recently completed a program to test the lake waters along the east end of Northshore Road for phosphorus and fecal coliform. This area does not have public sewer, and there are about 100 homes on septic systems, many of which are older and quite close to the Lake. The test results indicate that human fecal coliform bacteria are leaching into the Lake.

These results were not widely distributed prior to the District distributing the water consolidation questionnaire. It raises the question as to whether some of the lake draw respondents would change their response from "no" to "yes" with this additional information.

7.2 Fire Protection

Several of the questionnaire responders indicated that they were also interested in the fire protection that a public water system would bring. Given that there is a significant percentage of the properties in the service area that are not interested in connecting to public water, the District should consider its options on cost recovery for providing hydrants and fire storage for those who benefit from this infrastructure but are not "paying customers".

7.3 Protection of Lake Whatcom

Many of the questionnaire responders who were against the consolidation project expressed concern that extending public water would promote growth in the watershed and harm the lake in

the process. The District is not the Land Use Authority - Whatcom County is. It should be noted that other sources of water are available - surface water for those next to the Lake, and rainwater harvesting for those not able to drill a well. At this time, the Hirst decision has halted the use of permit-exempt wells in Whatcom County, but that is not preventing development in the watershed - it is promoting the proliferation of rainwater harvesting systems. It should be noted that the proposed service area is already 90% built-out, and the availability of public water will have no impact on whether properties are able to subdivide.

There were a few responses that requested a sewer extension and indicated that they would be more interested in connecting to sewer, and that they felt extending sewer would do more to protect the lake than extending water. The District agrees there is a benefit to extending sewer and eliminating septic systems, but is constrained by the Growth Management Act (GMA) on how it proceeds since the un-sewered area is outside of an Urban Growth Area (UGA) or a Limited Area of More Intense Rural Development (LAMIRD).

7.4 Next Steps

The information the District has gathered under this study has been very informative and the District will continue to process and discuss these results. One possible future activity would be to "map" the results of those interested vs not interested, and the properties with covenants that require them to connect. Another potential follow on effort would be a sensitivity analysis on the project cost estimate to see what assumptions have a significant impact on costs (e.g. level of fire protection or standby storage). Reducing the overall costs will be critical in maximizing the number of properties that connect to public water.

EXHIBITS

1. **Water Facilities Inventories (WFI)**
2. **Maps / Exhibits**
3. **Water System Consolidation Preliminary Cost Estimates**
4. **Questionnaire and Responses**

1. Water Facilities Inventories (WFI)



WATER FACILITIES INVENTORY (WFI) FORM

ONE FORM PER SYSTEM

Quarter: 2
 Updated: 02/14/2014
 Printed: 10/19/2015

WFI Printed For: On-Demand
 Submission Reason: No Change

RETURN TO: Central Services - WFI, PO BOX 47822, Olympia WA 98504-7822

1. SYSTEM ID NO.	2. SYSTEM NAME	3. COUNTY	4. GROUP	5. TYPE
00496 X	AGATE BAY TRAILER PARK	WHATCOM	A	Comm

6. PRIMARY CONTACT NAME & MAILING ADDRESS DEREK & MEGAN WATT [OWNERS] PO BOX 1462 BELLINGHAM, WA 98227	7. OWNER NAME & MAILING ADDRESS DEREK & MEGAN WATT PO BOX 1462 BELLINGHAM, WA 98227	8. Owner Number 031520 TITLE:
STREET ADDRESS IF DIFFERENT FROM ABOVE ATTN ADDRESS 1700 NORTH SHORE DRIVE CITY BELLINGHAM STATE WA ZIP 98226	STREET ADDRESS IF DIFFERENT FROM ABOVE ATTN ADDRESS 1700 NORTH SHORE DRIVE CITY BELLINGHAM STATE WA ZIP 98226	

9. 24 HOUR PRIMARY CONTACT INFORMATION	10. OWNER CONTACT INFORMATION
Primary Contact Daytime Phone: (360) 715-3600	Owner Daytime Phone: (360) 715-3600
Primary Contact Mobile/Cell Phone:	Owner Mobile/Cell Phone:
Primary Contact Evening Phone: (xxx) xxx-xxxx	Owner Evening Phone: (xxx) xxx-xxxx
Fax: E-mail: XXXXXX	Owner Fax Phone: E-mail: XXXXXX
WAC 246-290-420(9) requires that water systems provide 24-hour contact information for emergencies.	

11. SATELLITE MANAGEMENT AGENCY - SMA (check only one)

Not applicable (Skip to #12)

Owned and Managed SMA NAME: _____ SMA Number: _____

Managed Only

Owned Only

12. WATER SYSTEM CHARACTERISTICS (mark all that apply)

<input type="checkbox"/> Agricultural	<input type="checkbox"/> Hospital/Clinic	<input checked="" type="checkbox"/> Residential
<input type="checkbox"/> Commercial / Business	<input type="checkbox"/> Industrial	<input type="checkbox"/> School
<input type="checkbox"/> Day Care	<input type="checkbox"/> Licensed Residential Facility	<input type="checkbox"/> Temporary Farm Worker
<input type="checkbox"/> Food Service/Food Permit	<input type="checkbox"/> Lodging	<input type="checkbox"/> Other (church, fire station, etc.): _____
<input type="checkbox"/> 1,000 or more person event for 2 or more days per year	<input type="checkbox"/> Recreational / RV Park	

13. WATER SYSTEM OWNERSHIP (mark only one)	14. STORAGE CAPACITY (gallons)
<input type="checkbox"/> Association <input type="checkbox"/> County <input type="checkbox"/> Investor <input type="checkbox"/> Special District <input type="checkbox"/> City / Town <input type="checkbox"/> Federal <input checked="" type="checkbox"/> Private <input type="checkbox"/> State	0

15	16 SOURCE NAME	17 INTERTIE	18 SOURCE CATEGORY							19 USE	20	21 TREATMENT				22 DEPTH	23	24 SOURCE LOCATION									
Source Number	LIST UTILITY'S NAME FOR SOURCE AND WELL TAG ID NUMBER. Example: WELL #1 XYZ456 IF SOURCE IS PURCHASED OR INTERTIED, LIST SELLER'S NAME Example: SFATTIE	INTERTIE SYSTEM ID NUMBER	WELL	WELL FIELD	WELL IN A WELL	SPRING	SPRING IN SPRING FIELD	SEA WATER	SURFACE WATER	RANNEY/INF.	OTHER	PERMANENT	SEASONAL	EMERGENCY	SOURCE METERED	NONE	CHLORINATION	FILTRATION	FLUORIDATION	IRRADIATION (UV)	OTHER	DEPTH TO FIRST OPEN INTERVAL IN FEET	CAPACITY (GALLONS PER MINUTE)	T/A, 1/4 SECTION	SECTION NUMBER	TOWNSHIP	RANGE
S02	Well #2 BAE194		X									X				X						183	35	SE NW	30	38N	04E

WATER FACILITIES INVENTORY (WFI) FORM - Continued

1. SYSTEM ID 00496 X	2. SYSTEM NAME AGATE BAY TRAILER PARK	3. COUNTY WHATCOM	4. GROUP A	5. TYPE Comm
--------------------------------	---	-----------------------------	----------------------	------------------------

	ACTIVE SERVICE CONNECTIONS	DOH USE ONLY CALCULATED ACTIVE CONNECTIONS	DOH USE ONLY APPROVED CONNECTIONS
25. SINGLE FAMILY RESIDENCES (How many of the following do you have?)	0	25	25
A. Full Time Single Family Residences (Occupied 180 days or more per year)	25		
B. Part Time Single Family Residences (Occupied less than 180 days per year)	0		
26. MULTI-FAMILY RESIDENTIAL BUILDINGS (How many of the following do you have?)			
A. Apartment Buildings, condos, duplexes, barracks, dorms	0		
B. Full Time Residential Units in the Apartments, Condos, Duplexes, Dorms that are occupied more than 180 days/year	0		
C. Part Time Residential Units in the Apartments, Condos, Duplexes, Dorms that are occupied less than 180 days/year	0		
27. NON-RESIDENTIAL CONNECTIONS (How many of the following do you have?)			
A. Recreational Services and/or Transient Accommodations (Campsites, RV sites, hotel/motel/overnight units)	0	0	0
B. Institutional, Commercial/Business, School, Day Care, Industrial Services, etc.	0	0	0
28. TOTAL SERVICE CONNECTIONS		25	25

29. FULL-TIME RESIDENTIAL POPULATION
A. How many residents are served by this system 180 or more days per _____ 40

30. PART-TIME RESIDENTIAL POPULATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. How many part-time residents are present each month?												
B. How many days per month are they present?												

31. TEMPORARY & TRANSIENT USERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. How many total visitors, attendees, travelers, campers, patients or customers have access to the water system each month?												
B. How many days per month is water accessible to the public?												

32. REGULAR NON-RESIDENTIAL USERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. If you have schools, daycares, or businesses connected to your water system, how many students daycare children and/or employees are present each month?												
B. How many days per month are they present?												

33. ROUTINE COLIFORM SCHEDULE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	1	1	1	1	1	1	1	1	1	1	1	1

35. Reason for Submitting WFI:

Update - Change Update - No Change Inactivate Re-Activate Name Change New System Other _____

36. I certify that the information stated on this WFI form is correct to the best of my knowledge.

SIGNATURE: _____

DATE: _____

PRINT NAME: _____

TITLE: _____



WATER FACILITIES INVENTORY (WFI) FORM

Quarter: 0
Updated: 04/27/2005
Printed: 4/19/2017

ONE FORM PER SYSTEM

WFI Printed For: On-Demand
Submission Reason: Name Change

RETURN TO: Central Services - WFI, PO Box 47822, Olympia, WA, 98504-7822

1. SYSTEM ID NO. 07898 X	2. SYSTEM NAME DELLESTA PARK WATER ASSN	3. COUNTY WHATCOM	4. GROUP B	5. TYPE																							
6. PRIMARY CONTACT NAME & MAILING ADDRESS LYDIA COOPER [WS - PRIMARY CONTACT] TOM HOUE 2143 DELLESTA DR BELLINGHAM, WA 98226			7. OWNER NAME & MAILING ADDRESS DELLESTA PARK WATER ASSOCIATION NEED PRIMARY CONTACT OWNER ORG 2143 DELLESTA DR BELLINGHAM, WA 98226																								
8. OWNER NUMBER: 020959																											
STREET ADDRESS IF DIFFERENT FROM ABOVE ATTN LEONARD TAN ADDRESS 2127 DELLESTA DR CITY BELLINGHAM STATE WA ZIP 98226			STREET ADDRESS IF DIFFERENT FROM ABOVE ATTN ADDRESS CITY STATE ZIP																								
9. 24 HOUR PRIMARY CONTACT INFORMATION			10. OWNER CONTACT INFORMATION																								
Primary Contact Daytime Phone: (360) 671-0697			Owner Daytime Phone: (360) 671-0697																								
Primary Contact Mobile/Cell Phone:			Owner Mobile/Cell Phone:																								
Primary Contact Evening Phone: (xxx)-xxx-xxxx			Owner Evening Phone:																								
Fax:			Fax:																								
E-mail: xxxxxxxxxxxxxxxxxxxxxx			E-mail: xxxxxxxxxxxxxxxxxxxxxx																								
WAC 246-290-420(9) requires that water systems provide 24-hour contact information for emergencies.																											
11. SATELLITE MANAGEMENT AGENCY - SMA (check only one)																											
<input checked="" type="checkbox"/> Not applicable (Skip to #12) <input type="checkbox"/> Owned and Managed <input type="checkbox"/> Managed Only <input type="checkbox"/> Owned Only																											
SMA NAME: _____			SMA Number: _____																								
12. WATER SYSTEM CHARACTERISTICS (mark all that apply)																											
<input type="checkbox"/> Agricultural <input type="checkbox"/> Commercial / Business <input type="checkbox"/> Day Care <input type="checkbox"/> Food Service/Food Permit <input type="checkbox"/> 1,000 or more person event for 2 or more days per year		<input type="checkbox"/> Hospital/Clinic <input type="checkbox"/> Industrial <input type="checkbox"/> Licensed Residential Facility <input type="checkbox"/> Lodging <input type="checkbox"/> Recreational / RV Park		<input checked="" type="checkbox"/> Residential <input type="checkbox"/> School <input type="checkbox"/> Temporary Farm Worker <input type="checkbox"/> Other (church, fire station, etc.): _____																							
13. WATER SYSTEM OWNERSHIP (mark only one)				14. STORAGE CAPACITY (gallons)																							
<input checked="" type="checkbox"/> Association <input type="checkbox"/> County <input type="checkbox"/> Investor <input type="checkbox"/> Special District <input type="checkbox"/> State <input type="checkbox"/> City / Town <input type="checkbox"/> Federal <input type="checkbox"/> Private				2,500																							
15	16 SOURCE NAME <small>LIST UTILITY'S NAME FOR SOURCE AND WELL TAG ID NUMBER. Example: WELL #1 XYZ456 IF SOURCE IS PURCHASED OR INTERTIED, LIST SELLER'S NAME Example: SEATTLE</small>	17 INTERTIE <small>INTERTIE SYSTEM ID NUMBER</small>	18 SOURCE CATEGORY			19 USE	20 TREATMENT		21 DEPTH	22 CAPACITY (GALLONS PER MINUTE)	23 SOURCE LOCATION																
Source Number			WELL	WELL IN A WELL FIELD	SPRING	SPRING IN SPRINGFIELD	SEA WATER	SURFACE WATER	RANNEY / INF. GALLERY	OTHER	PERMANENT	SEASONAL	EMERGENCY	SOURCE METERED	NONE	CHLORINATION	FILTRATION	FLUORIDATION	IRRADIATION (UV)	OTHER	DEPTH TO FIRST OPEN INTERVAL IN FEET	CAPACITY (GALLONS PER MINUTE)	1/4, 1/4 SECTION	SECTION NUMBER	TOWNSHIP	RANGE	
S01	WELL #1 AGF149		X								X			Y		X					215	5	NE SE	26	38N	03E	

WATER FACILITIES INVENTORY (WFI) FORM - Continued

1. SYSTEM ID NO. 07898 X	2. SYSTEM NAME DELLESTA PARK WATER ASSN	3. COUNTY WHATCOM	4. GROUP B	5. TYPE
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	ACTIVE SERVICE CONNECTIONS	DOH USE ONLY! CALCULATED ACTIVE CONNECTIONS	DOH USE ONLY! APPROVED CONNECTIONS
25. SINGLE FAMILY RESIDENCES (How many of the following do you have?)		5	7
A. Full Time Single Family Residences (Occupied 180 days or more per year)	5		
B. Part Time Single Family Residences (Occupied less than 180 days per year)	0		
26. MULTI-FAMILY RESIDENTIAL BUILDINGS (How many of the following do you have?)			
A. Apartment Buildings, condos, duplexes, barracks, dorms	0		
B. Full Time Residential Units in the Apartments, Condos, Duplexes, Dorms that are occupied more than 180 days/year	0		
C. Part Time Residential Units in the Apartments, Condos, Duplexes, Dorms that are occupied less than 180 days/year	0		
27. NON-RESIDENTIAL CONNECTIONS (How many of the following do you have?)			
A. Recreational Services and/or Transient Accommodations (Campsites, RV sites, hotel/motel/overnight units)	0	0	0
B. Institutional, Commercial/Business, School, Day Care, Industrial Services, etc.	0	0	0
28. TOTAL SERVICE CONNECTIONS		5	7

29. FULL-TIME RESIDENTIAL POPULATION
A. How many residents are served by this system 180 or more days per year? 20

30. PART-TIME RESIDENTIAL POPULATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. How many part-time residents are present each month?												
B. How many days per month are they present?												

31. TEMPORARY & TRANSIENT USERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. How many total visitors, attendees, travelers, campers, patients or customers have access to the water system each month?												
B. How many days per month is water accessible to the public?												

32. REGULAR NON-RESIDENTIAL USERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. If you have schools, daycares, or businesses connected to your water system, how many students daycare children and/or employees are present each month?												
B. How many days per month are they present?												

33. ROUTINE COLIFORM SCHEDULE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
* Requirement is exception from WAC 246-290												

34. NITRATE SCHEDULE (One Sample per source by time period)	QUARTERLY	ANNUALLY	ONCE EVERY 3 YEARS
---	-----------	----------	--------------------

35. Reason for Submitting WFI:

Update - Change
 Update - No Change
 Inactivate
 Re-Activate
 Name Change
 New System
 Other _____

36. I certify that the information stated on this WFI form is correct to the best of my knowledge.

SIGNATURE: _____ DATE: _____
 PRINT NAME: _____ TITLE: _____



WATER FACILITIES INVENTORY (WFI) FORM

Quarter: 0
 Updated: 05/11/2005
 Printed: 4/19/2017

ONE FORM PER SYSTEM

WFI Printed For: On-Demand
 Submission Reason: Non-Periodic update

RETURN TO: Central Services - WFI, PO Box 47822, Olympia, WA, 98504-7822

1. SYSTEM ID NO. 29418 J	2. SYSTEM NAME NORTH SHORE SOLAR ACRES	3. COUNTY WHATCOM	4. GROUP B	5. TYPE
6. PRIMARY CONTACT NAME & MAILING ADDRESS ELIZABETH HERDMAN (PRESIDENT) 3003 LAKESHORE RD BELLINGHAM, WA 98226		7. OWNER NAME & MAILING ADDRESS NORTH SHORE SOLAR ACRES ELIZABETH HERDMAN 3003 LAKESHORE RD BELLINGHAM, WA 98226		8. OWNER NUMBER: 011134 OWNER ORG - PRIMARY CO
STREET ADDRESS IF DIFFERENT FROM ABOVE ATTN ADDRESS CITY STATE ZIP		STREET ADDRESS IF DIFFERENT FROM ABOVE ATTN ADDRESS CITY STATE ZIP		
9. 24 HOUR PRIMARY CONTACT INFORMATION		10. OWNER CONTACT INFORMATION		
Primary Contact Daytime Phone: (360) 734-0195		Owner Daytime Phone: (360) 734-0195		
Primary Contact Mobile/Cell Phone:		Owner Mobile/Cell Phone:		
Primary Contact Evening Phone: (xxx)-xxx-xxxx		Owner Evening Phone: (xxx)-xxx-xxxx		
Fax:	E-mail: xxxxxxxxxxxxxxxxxxxxxxxx	Fax:	E-mail: xxxxxxxxxxxxxxxxxxxxxxxx	

WAC 246-290-420(9) requires that water systems provide 24-hour contact information for emergencies.

11. SATELLITE MANAGEMENT AGENCY - SMA (check only one)

Not applicable (Skip to #12) SMA NAME: _____ SMA Number: _____

Owned and Managed

Managed Only

Owned Only

12. WATER SYSTEM CHARACTERISTICS (mark all that apply)

<input type="checkbox"/> Agricultural	<input type="checkbox"/> Hospital/Clinic	<input checked="" type="checkbox"/> Residential
<input type="checkbox"/> Commercial / Business	<input type="checkbox"/> Industrial	<input type="checkbox"/> School
<input type="checkbox"/> Day Care	<input type="checkbox"/> Licensed Residential Facility	<input type="checkbox"/> Temporary Farm Worker
<input type="checkbox"/> Food Service/Food Permit	<input type="checkbox"/> Lodging	<input type="checkbox"/> Other (church, fire station, etc.): _____
<input type="checkbox"/> 1,000 or more person event for 2 or more days per year	<input type="checkbox"/> Recreational / RV Park	

13. WATER SYSTEM OWNERSHIP (mark only one)	14. STORAGE CAPACITY (gallons)
<input type="checkbox"/> Association <input type="checkbox"/> County <input checked="" type="checkbox"/> Investor <input type="checkbox"/> Special District <input type="checkbox"/> City / Town <input type="checkbox"/> Federal <input type="checkbox"/> Private <input type="checkbox"/> State	2,000

15 Source Number	16 SOURCE NAME LIST UTILITY'S NAME FOR SOURCE AND WELL TAG ID NUMBER. Example: WELL #1 XYZ456 IF SOURCE IS PURCHASED OR INTERTIED, LIST SELLER'S NAME Example: SEATTLE	17 INTERTIE INTERTIE SYSTEM ID NUMBER	18 SOURCE CATEGORY										19 USE	21 TREATMENT				22 DEPTH DEPTH TO FIRST OPEN INTERVAL IN FEET	23 CAPACITY (GALLONS PER MINUTE)	24 SOURCE LOCATION								
			WELL	WELL IN A WELL FIELD	SPRING	SPRING FIELD	SPRING IN SPRINGFIELD	SEA WATER	SURFACE WATER	RANNEY / INF. GALLERY	OTHER	PERMANENT		SEASONAL	EMERGENCY	SOURCE METERED	NONE			CHLORINATION	FILTRATION	FLUORIDATION	IRRADIATION (UV)	OTHER	1/4, 1/4 SECTION	SECTION NUMBER	TOWNSHIP	RANGE
S01	CALDWELL-WELL		X										X									79	3		30	38N	04E	
S02	NOAH/WILLOW WELL		X										X									98	4		30	38N	04E	

WATER FACILITIES INVENTORY (WFI) FORM - Continued

1. SYSTEM ID NO. 29418 J	2. SYSTEM NAME NORTH SHORE SOLAR ACRES	3. COUNTY WHATCOM	4. GROUP B	5. TYPE
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	ACTIVE SERVICE CONNECTIONS	DOH USE ONLY! CALCULATED ACTIVE CONNECTIONS	DOH USE ONLY! APPROVED CONNECTIONS
25. SINGLE FAMILY RESIDENCES (How many of the following do you have?)		6	Undetermined
A. Full Time Single Family Residences (Occupied 180 days or more per year)	6		
B. Part Time Single Family Residences (Occupied less than 180 days per year)	0		
26. MULTI-FAMILY RESIDENTIAL BUILDINGS (How many of the following do you have?)			
A. Apartment Buildings, condos, duplexes, barracks, dorms	0		
B. Full Time Residential Units in the Apartments, Condos, Duplexes, Dorms that are occupied more than 180 days/year	0		
C. Part Time Residential Units in the Apartments, Condos, Duplexes, Dorms that are occupied less than 180 days/year	0		
27. NON-RESIDENTIAL CONNECTIONS (How many of the following do you have?)			
A. Recreational Services and/or Transient Accommodations (Campsites, RV sites, hotel/motel/overnight units)	0	0	
B. Institutional, Commercial/Business, School, Day Care, Industrial Services, etc.	0	0	
28. TOTAL SERVICE CONNECTIONS		6	

29. FULL-TIME RESIDENTIAL POPULATION

A. How many residents are served by this system 180 or more days per year? 20

30. PART-TIME RESIDENTIAL POPULATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. How many part-time residents are present each month?												
B. How many days per month are they present?												

31. TEMPORARY & TRANSIENT USERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. How many total visitors, attendees, travelers, campers, patients or customers have access to the water system each month?												
B. How many days per month is water accessible to the public?												

32. REGULAR NON-RESIDENTIAL USERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. If you have schools, daycares, or businesses connected to your water system, how many students daycare children and/or employees are present each month?												
B. How many days per month are they present?												

33. ROUTINE COLIFORM SCHEDULE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
* Requirement is exception from WAC 246-290												

34. NITRATE SCHEDULE	QUARTERLY	ANNUALLY	ONCE EVERY 3 YEARS
(One Sample per source by time period)			

35. Reason for Submitting WFI:

- Update - Change
 Update - No Change
 Inactivate
 Re-Activate
 Name Change
 New System
 Other _____

36. I certify that the information stated on this WFI form is correct to the best of my knowledge.

SIGNATURE: _____ DATE: _____
 PRINT NAME: _____ TITLE: _____



WATER FACILITIES INVENTORY (WFI) FORM

ONE FORM PER SYSTEM

Quarter: 0
 Updated: 06/04/2009
 Printed: 4/19/2017
 WFI Printed For: On-Demand
 Submission Reason: Pop/Connect Update

RETURN TO: Central Services - WFI, PO Box 47822, Olympia, WA, 98504-7822

1. SYSTEM ID NO. AC243 K	2. SYSTEM NAME NORTH SHORE RIDGE # 2 WATER SYSTEM	3. COUNTY WHATCOM	4. GROUP B	5. TYPE
6. PRIMARY CONTACT NAME & MAILING ADDRESS PERRY ZENDER [MANAGER] 3100 E 21ST PLACE BELLINGHAM, WA 98226		7. OWNER NAME & MAILING ADDRESS NORTH SHORE RIDGE # 2 PERRY ZENDER 3100 E 21ST PLACE BELLINGHAM, WA 98226		8. OWNER NUMBER: 033525
STREET ADDRESS IF DIFFERENT FROM ABOVE ATTN ADDRESS CITY STATE ZIP		STREET ADDRESS IF DIFFERENT FROM ABOVE ATTN ADDRESS CITY STATE ZIP		
9. 24 HOUR PRIMARY CONTACT INFORMATION		10. OWNER CONTACT INFORMATION		
Primary Contact Daytime Phone: (360) 303-2211		Owner Daytime Phone: (360) 303-2211		
Primary Contact Mobile/Cell Phone:		Owner Mobile/Cell Phone:		
Primary Contact Evening Phone:		Owner Evening Phone:		
Fax:	E-mail: xxxxxxxxxxxxxxxxxxxxxxx	Fax:	E-mail: xxxxxxxxxxxxxxxxxxxxxxx	

WAC 246-290-420(9) requires that water systems provide 24-hour contact information for emergencies.

11. SATELLITE MANAGEMENT AGENCY - SMA (check only one)

Not applicable (Skip to #12)
 Owned and Managed
 Managed Only
 Owned Only

SMA NAME: NORTHWEST WATER WORKS LLC SMA Number: 126

12. WATER SYSTEM CHARACTERISTICS (mark all that apply)

<input type="checkbox"/> Agricultural	<input type="checkbox"/> Hospital/Clinic	<input checked="" type="checkbox"/> Residential
<input type="checkbox"/> Commercial / Business	<input type="checkbox"/> Industrial	<input type="checkbox"/> School
<input type="checkbox"/> Day Care	<input type="checkbox"/> Licensed Residential Facility	<input type="checkbox"/> Temporary Farm Worker
<input type="checkbox"/> Food Service/Food Permit	<input type="checkbox"/> Lodging	<input type="checkbox"/> Other (church, fire station, etc.):
<input type="checkbox"/> 1,000 or more person event for 2 or more days per year	<input type="checkbox"/> Recreational / RV Park	

13. WATER SYSTEM OWNERSHIP (mark only one)	14. STORAGE CAPACITY (gallons)
<input checked="" type="checkbox"/> Association <input type="checkbox"/> City / Town <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Investor <input type="checkbox"/> Private <input type="checkbox"/> Special District <input type="checkbox"/> State	2,500

15	16 SOURCE NAME	17 INTERTIE	18 SOURCE CATEGORY											19 USE	20	21 TREATMENT				22 DEPTH	23	24 SOURCE LOCATION																
			WELL	WELL FIELD	WELL IN A WELL FIELD	SPRING	SPRING FIELD	SPRING IN SPRINGFIELD	SEA WATER	SURFACE WATER	RANNEY / INF. GALLERY	OTHER	PERMANENT			SEASONAL	EMERGENCY	SOURCE METERED	NONE			CHLORINATION	FILTRATION	FLUORIDATION	IRRADIATION (UV)	OTHER	DEPTH TO FIRST OPEN INTERVAL IN FEET	CAPACITY (GALLONS PER MINUTE)	1/4, 1/4 SECTION	SECTION NUMBER	TOWNSHIP	RANGE						
S01	Well # 1 APA173		X													X																						

WATER FACILITIES INVENTORY (WFI) FORM - Continued

1. SYSTEM ID NO. AC243 K	2. SYSTEM NAME NORTH SHORE RIDGE # 2 WATER SYSTEM	3. COUNTY WHATCOM	4. GROUP B	5. TYPE
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	ACTIVE SERVICE CONNECTIONS	DOH USE ONLY! CALCULATED ACTIVE CONNECTIONS	DOH USE ONLY! APPROVED CONNECTIONS
25. SINGLE FAMILY RESIDENCES (How many of the following do you have?)		3	3
A. Full Time Single Family Residences (Occupied 180 days or more per year)	3		
B. Part Time Single Family Residences (Occupied less than 180 days per year)	0		
26. MULTI-FAMILY RESIDENTIAL BUILDINGS (How many of the following do you have?)			
A. Apartment Buildings, condos, duplexes, barracks, dorms	0		
B. Full Time Residential Units in the Apartments, Condos, Duplexes, Dorms that are occupied more than 180 days/year	0		
C. Part Time Residential Units in the Apartments, Condos, Duplexes, Dorms that are occupied less than 180 days/year	0		
27. NON-RESIDENTIAL CONNECTIONS (How many of the following do you have?)			
A. Recreational Services and/or Transient Accommodations (Campsites, RV sites, hotel/motel/overnight units)	0	0	0
B. Institutional, Commercial/Business, School, Day Care, Industrial Services, etc.	0	0	0
28. TOTAL SERVICE CONNECTIONS		3	3

29. FULL-TIME RESIDENTIAL POPULATION
A. How many residents are served by this system 180 or more days per year? 9

30. PART-TIME RESIDENTIAL POPULATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. How many part-time residents are present each month?												
B. How many days per month are they present?												

31. TEMPORARY & TRANSIENT USERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. How many total visitors, attendees, travelers, campers, patients or customers have access to the water system each month?												
B. How many days per month is water accessible to the public?												

32. REGULAR NON-RESIDENTIAL USERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. If you have schools, daycares, or businesses connected to your water system, how many students daycare children and/or employees are present each month?												
B. How many days per month are they present?												

33. ROUTINE COLIFORM SCHEDULE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Requirement is exception from WAC 246-290												

34. NITRATE SCHEDULE (One Sample per source by time period)	QUARTERLY	ANNUALLY	ONCE EVERY 3 YEARS
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35. Reason for Submitting WFI:

- Update - Change
 Update - No Change
 Inactivate
 Re-Activate
 Name Change
 New System
 Other _____

36. I certify that the information stated on this WFI form is correct to the best of my knowledge.	
SIGNATURE: _____	DATE: _____
PRINT NAME: _____	TITLE: _____



WATER FACILITIES INVENTORY (WFI) FORM

ONE FORM PER SYSTEM

Quarter: 0
Updated: 01/20/2009
Printed: 4/19/2017

WFI Printed For: On-Demand
Submission Reason: Contact Update

RETURN TO: Central Services - WFI, PO Box 47822, Olympia, WA, 98504-7822

1. SYSTEM ID NO. 64351 M	2. SYSTEM NAME NORTHSHORE RIDGE ASSOC	3. COUNTY WHATCOM	4. GROUP B	5. TYPE																								
6. PRIMARY CONTACT NAME & MAILING ADDRESS BOB OHARZEWSKI [WS - PRIMARY CONTACT] 3075 E 21ST PL BELLINGHAM, WA 98226		7. OWNER NAME & MAILING ADDRESS NORTH SHORE RIDGE ASSOCIATION BOB OHARZEWSKI CONTACT 3075 21ST PL BELLINGHAM, WA 98226		8. OWNER NUMBER: 030669																								
STREET ADDRESS IF DIFFERENT FROM ABOVE ATTN ADDRESS CITY STATE ZIP		STREET ADDRESS IF DIFFERENT FROM ABOVE ATTN ADDRESS CITY STATE ZIP																										
9. 24 HOUR PRIMARY CONTACT INFORMATION		10. OWNER CONTACT INFORMATION																										
Primary Contact Daytime Phone: (360) 738-3422		Owner Daytime Phone: (360) 738-3422																										
Primary Contact Mobile/Cell Phone: (360) 303-4544		Owner Mobile/Cell Phone:																										
Primary Contact Evening Phone:		Owner Evening Phone:																										
Fax: (360) 738-8545 E-mail: xxxxxxxxxxxxxxxxxxxxxxx		Fax: E-mail: xxxxxxxxxxxxxxxxxxxxxxx																										
WAC 246-290-420(9) requires that water systems provide 24-hour contact information for emergencies.																												
11. SATELLITE MANAGEMENT AGENCY - SMA (check only one)																												
<input type="checkbox"/> Not applicable (Skip to #12) <input type="checkbox"/> Owned and Managed <input checked="" type="checkbox"/> Managed Only <input type="checkbox"/> Owned Only																												
SMA NAME: NORTHWEST WATER WORKS LLC		SMA Number: 126																										
12. WATER SYSTEM CHARACTERISTICS (mark all that apply)																												
<input type="checkbox"/> Agricultural <input type="checkbox"/> Commercial / Business <input type="checkbox"/> Day Care <input type="checkbox"/> Food Service/Food Permit <input type="checkbox"/> 1,000 or more person event for 2 or more days per year																												
<input type="checkbox"/> Hospital/Clinic <input type="checkbox"/> Industrial <input type="checkbox"/> Licensed Residential Facility <input type="checkbox"/> Lodging <input type="checkbox"/> Recreational / RV Park																												
<input checked="" type="checkbox"/> Residential <input type="checkbox"/> School <input type="checkbox"/> Temporary Farm Worker <input type="checkbox"/> Other (church, fire station, etc.):																												
13. WATER SYSTEM OWNERSHIP (mark only one)				14. STORAGE CAPACITY (gallons)																								
<input checked="" type="checkbox"/> Association <input type="checkbox"/> City / Town <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Investor <input type="checkbox"/> Private <input type="checkbox"/> Special District <input type="checkbox"/> State				500																								
Source Number	16	17	18				19	20	21		22	23	24															
	SOURCE NAME	INTERTIE	SOURCE CATEGORY				USE	SOURCE METERED	TREATMENT		DEPTH	CAPACITY (GALLONS PER MINUTE)	SOURCE LOCATION															
	LIST UTILITY'S NAME FOR SOURCE AND WELL TAG ID NUMBER. Example: WELL #1 XYZ456 IF SOURCE IS PURCHASED OR INTERTIED, LIST SELLER'S NAME Example: SEATTLE	INTERTIE SYSTEM ID NUMBER	WELL	WELL FIELD	WELL IN A WELL FIELD	SPRING	SPRING FIELD	SPRING IN SPRINGFIELD	SEA WATER	SURFACE WATER	RANNEY / INF. GALLERY	OTHER	PERMANENT	SEASONAL	EMERGENCY	NONE	CHLORINATION	FILTRATION	FLUORIDATION	IRRADIATION (UV)	OTHER	DEPTH TO FIRST OPEN INTERVAL IN FEET	CAPACITY (GALLONS PER MINUTE)	1/4, 1/4 SECTION	SECTION NUMBER	TOWNSHIP	RANGE	
S01	WELL #1 AGO444		X										X				X				X	295	4	SW NW	25	38N	03E	

WATER FACILITIES INVENTORY (WFI) FORM - Continued

1. SYSTEM ID NO. 64351 M	2. SYSTEM NAME NORTHSHORE RIDGE ASSOC	3. COUNTY WHATCOM	4. GROUP B	5. TYPE
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	ACTIVE SERVICE CONNECTIONS	DOH USE ONLY! CALCULATED ACTIVE CONNECTIONS	DOH USE ONLY! APPROVED CONNECTIONS
25. SINGLE FAMILY RESIDENCES (How many of the following do you have?)		4	4
A. Full Time Single Family Residences (Occupied 180 days or more per year)	4		
B. Part Time Single Family Residences (Occupied less than 180 days per year)	0		
26. MULTI-FAMILY RESIDENTIAL BUILDINGS (How many of the following do you have?)			
A. Apartment Buildings, condos, duplexes, barracks, dorms	0		
B. Full Time Residential Units in the Apartments, Condos, Duplexes, Dorms that are occupied more than 180 days/year	0		
C. Part Time Residential Units in the Apartments, Condos, Duplexes, Dorms that are occupied less than 180 days/year	0		
27. NON-RESIDENTIAL CONNECTIONS (How many of the following do you have?)			
A. Recreational Services and/or Transient Accommodations (Campsites, RV sites, hotel/motel/overnight units)	0	0	0
B. Institutional, Commercial/Business, School, Day Care, Industrial Services, etc.	0	0	0
28. TOTAL SERVICE CONNECTIONS		4	4

29. FULL-TIME RESIDENTIAL POPULATION
A. How many residents are served by this system 180 or more days per year? 13

30. PART-TIME RESIDENTIAL POPULATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. How many part-time residents are present each month?						2	2	2				
B. How many days per month are they present?						30	30	30				

31. TEMPORARY & TRANSIENT USERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. How many total visitors, attendees, travelers, campers, patients or customers have access to the water system each month?						2	2	2				
B. How many days per month is water accessible to the public?						30	30	30				

32. REGULAR NON-RESIDENTIAL USERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. If you have schools, daycares, or businesses connected to your water system, how many students daycare children and/or employees are present each month?												
B. How many days per month are they present?												

33. ROUTINE COLIFORM SCHEDULE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
* Requirement is exception from WAC 246-290												

34. NITRATE SCHEDULE (One Sample per source by time period)	QUARTERLY	ANNUALLY	ONCE EVERY 3 YEARS
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35. Reason for Submitting WFI:

Update - Change
 Update - No Change
 Inactivate
 Re-Activate
 Name Change
 New System
 Other _____

36. I certify that the information stated on this WFI form is correct to the best of my knowledge.

SIGNATURE: _____ DATE: _____
 PRINT NAME: _____ TITLE: _____



WATER FACILITIES INVENTORY (WFI) FORM

ONE FORM PER SYSTEM

Quarter: 3
Updated: 07/23/2015
Printed: 10/19/2015

WFI Printed For: On-Demand
Submission Reason: Contact Update

RETURN TO: Central Services - WFI, PO BOX 47822, Olympia WA 98504-7822

1. SYSTEM ID NO.	2. SYSTEM NAME	3. COUNTY	4. GROUP	5. TYPE
08262 B	THE RUSSELL GROUP WATER SYSTEM	WHATCOM	A	TNC

6. PRIMARY CONTACT NAME & MAILING ADDRESS GINA & JOHN RUSSELL [OWNERS] 2530 NORTHSORE RD BELLINGHAM, WA 98226 STREET ADDRESS IF DIFFERENT FROM ABOVE ATTN ADDRESS CITY STATE ZIP	7. OWNER NAME & MAILING ADDRESS GINA & JOHN RUSSELL 2530 NORTHSORE RD BELLINGHAM, WA 98226 STREET ADDRESS IF DIFFERENT FROM ATTN ADDRESS CITY STATE ZIP	8. Owner Number 033385 TITLE:
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9. 24 HOUR PRIMARY CONTACT INFORMATION Primary Contact Daytime Phone: (360) 733-1126 Primary Contact Mobile/Cell Phone: (360) 920-7140 Primary Contact Evening Phone: (xxx) xxx-xxxx Fax: E-mail: XXXXXX	10. OWNER CONTACT INFORMATION Owner Daytime Phone: (360) 733-1126 Owner Mobile/Cell Phone: (360) 920-7140 Owner Evening Phone: (xxx) xxx-xxxx Owner Fax Phone: E-mail: XXXXXX
---	--

WAC 246-290-420(9) requires that water systems provide 24-hour contact information for emergencies.

11. SATELLITE MANAGEMENT AGENCY - SMA (check only one)

Not applicable (Skip to #12)

Owned and Managed SMA NAME: _____ SMA Number: _____

Managed Only

Owned Only

12. WATER SYSTEM CHARACTERISTICS (mark all that apply)

<input type="checkbox"/> Agricultural	<input type="checkbox"/> Hospital/Clinic	<input type="checkbox"/> Residential
<input checked="" type="checkbox"/> Commercial / Business	<input type="checkbox"/> Industrial	<input type="checkbox"/> School
<input type="checkbox"/> Day Care	<input type="checkbox"/> Licensed Residential Facility	<input type="checkbox"/> Temporary Farm Worker
<input checked="" type="checkbox"/> Food Service/Food Permit	<input type="checkbox"/> Lodging	<input type="checkbox"/> Other (church, fire station, etc.): _____
<input type="checkbox"/> 1,000 or more person event for 2 or more days per year	<input type="checkbox"/> Recreational / RV Park	

13. WATER SYSTEM OWNERSHIP (mark only one)	14. STORAGE CAPACITY (gallons)
<input type="checkbox"/> Association <input type="checkbox"/> County <input type="checkbox"/> Investor <input type="checkbox"/> Special District <input type="checkbox"/> City / Town <input type="checkbox"/> Federal <input checked="" type="checkbox"/> Private <input type="checkbox"/> State	0

15	16 SOURCE NAME	17 INTERTIE	18 SOURCE CATEGORY										19 USE	21 TREATMENT				22 DEPTH	23 CAPACITY (GALLONS PER MINUTE)	24 SOURCE LOCATION					
			WELL	WELL IN A WELL	WELL FIELD	SPRING	SPRING IN OPENING FIELD	SEA WATER	SURFACE WATER	RANNEY / INF.	OTHER	PERMANENT		SEASONAL	EMERGENCY	SOURCE METERED	NONE			FILTRATION	FLUORIDATION	IRRADIATION (UV)	DEPTH TO FIRST OPEN INTERVAL IN FEET	1/4, 1/4 SECTION	SECTION NUMBER
S01	Well 1 AFG162		X										X	Y		X				49	20	SW NW	30	38N	04E

WATER FACILITIES INVENTORY (WFI) FORM - Continued

1. SYSTEM ID 08262 B	2. SYSTEM NAME THE RUSSELL GROUP WATER SYSTEM	3. COUNTY WHATCOM	4. GROUP A	5. TYPE TNC
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	ACTIVE SERVICE CONNECTIONS	DOH USE ONLY! CALCULATED ACTIVE CONNECTIONS	DOH USE ONLY! APPROVED CONNECTIONS
25. SINGLE FAMILY RESIDENCES (How many of the following do you have?)	0	0	1
A. Full Time Single Family Residences (Occupied 180 days or more per year)	0		
B. Part Time Single Family Residences (Occupied less than 180 days per year)	0		
26. MULTI-FAMILY RESIDENTIAL BUILDINGS (How many of the following do you have?)			
A. Apartment Buildings, condos, duplexes, barracks, dorms	0		
B. Full Time Residential Units in the Apartments, Condos, Duplexes, Dorms that are occupied more than 180 days/year	0		
C. Part Time Residential Units in the Apartments, Condos, Duplexes, Dorms that are occupied less than 180 days/year	0		
27. NON-RESIDENTIAL CONNECTIONS (How many of the following do you have?)			
A. Recreational Services and/or Transient Accommodations (Campsites, RV sites, hotel/motel/overnight units)	0	0	0
B. Institutional, Commercial/Business, School, Day Care, Industrial Services, etc.	1	1	1
28. TOTAL SERVICE CONNECTIONS		1	2

29. FULL-TIME RESIDENTIAL POPULATION
A. How many residents are served by this system 180 or more days per _____ 0

30. PART-TIME RESIDENTIAL POPULATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. How many part-time residents are present each month?												
B. How many days per month are they present?												

31. TEMPORARY & TRANSIENT USERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. How many total visitors, attendees, travelers, campers, patients or customers have access to the water system each month?	1550	1400	1550	1500	1550	1500	1550	1550	1500	1550	1500	1550
B. How many days per month is water accessible to the public?	31	28	31	30	31	30	31	31	30	31	30	31

32. REGULAR NON-RESIDENTIAL USERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. If you have schools, daycares, or businesses connected to your water system, how many students daycare children and/or employees are present each month?	5	5	5	5	8	8	8	8	8	5	5	5
B. How many days per month are they present?	31	28	31	30	31	30	31	31	30	31	30	31

33. ROUTINE COLIFORM SCHEDULE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	1	1	1	1	1	1	1	1	1	1	1	1

34. NITRATE SCHEDULE (One Sample per source by time period)	QUARTERLY	ANNUALLY	ONCE EVERY 3 YEARS
		S01	

35. Reason for Submitting WFI:

Update - Change Update - No Change Inactivate Re-Activate Name Change New System Other _____

36. I certify that the information stated on this WFI form is correct to the best of my knowledge.

SIGNATURE: _____

DATE: _____

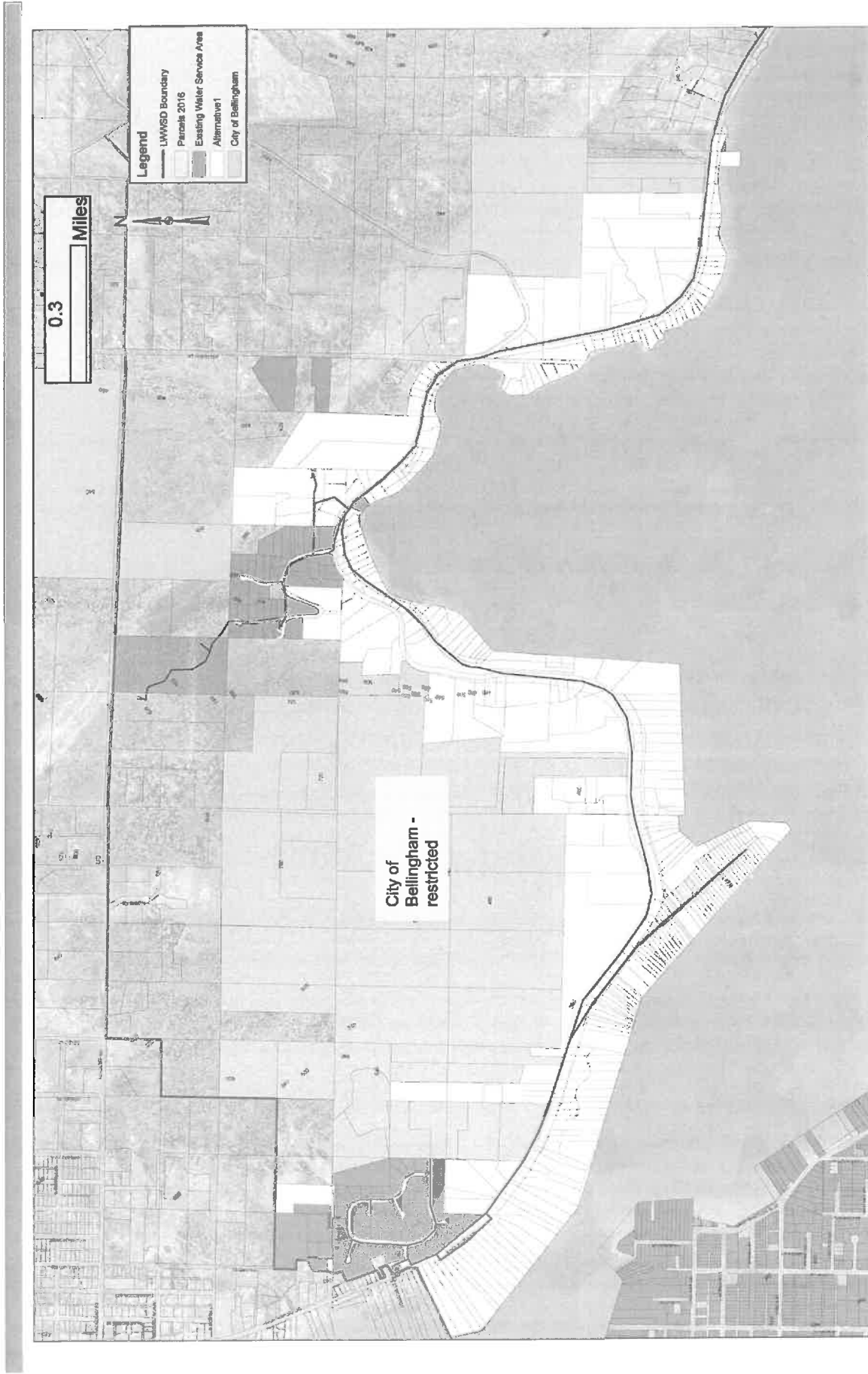
PRINT NAME: _____

TITLE: _____

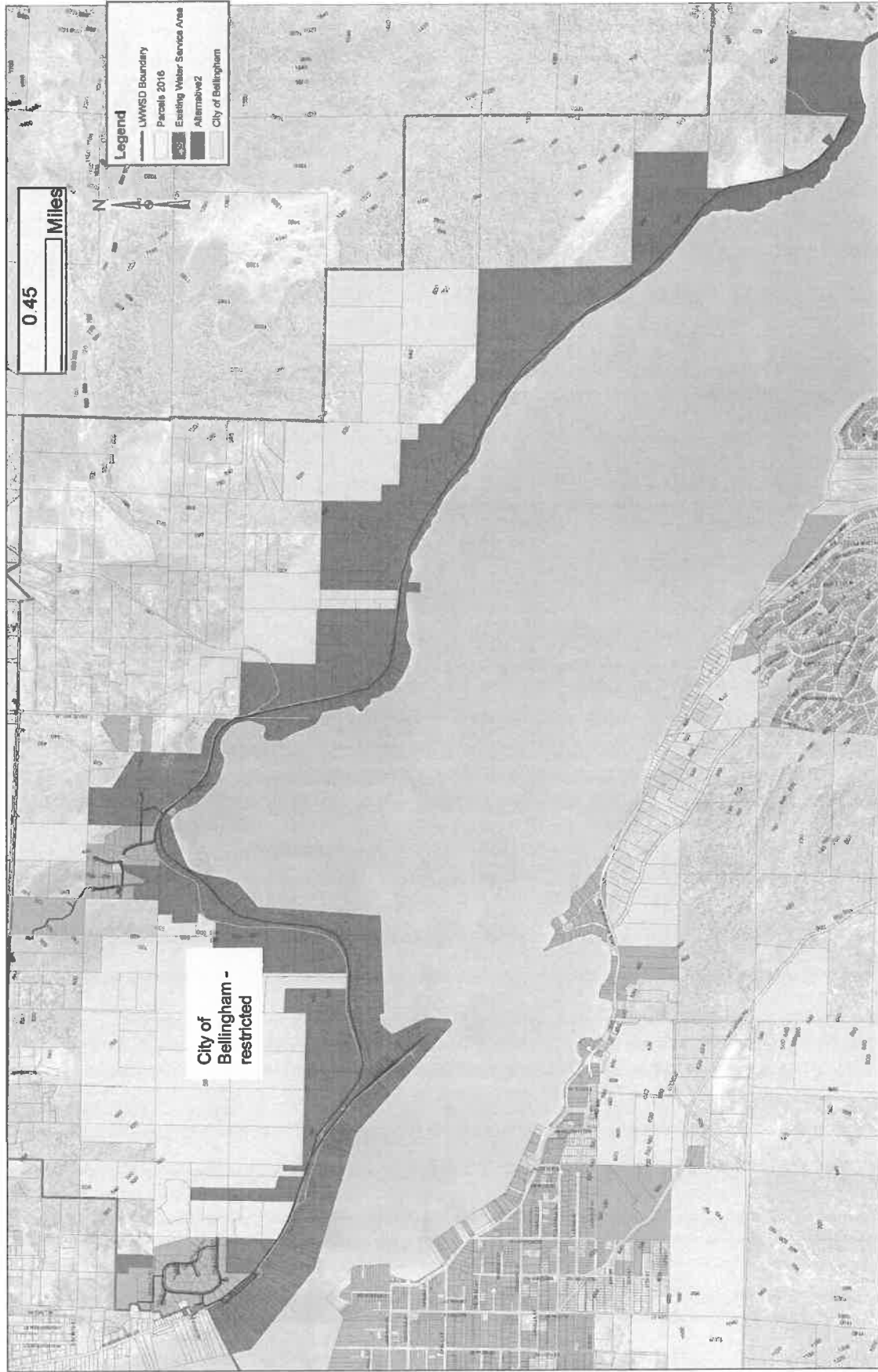
2. Exhibits

- A. Alternative 1**
- B. Alternative 2**
- C. Alternative 3**

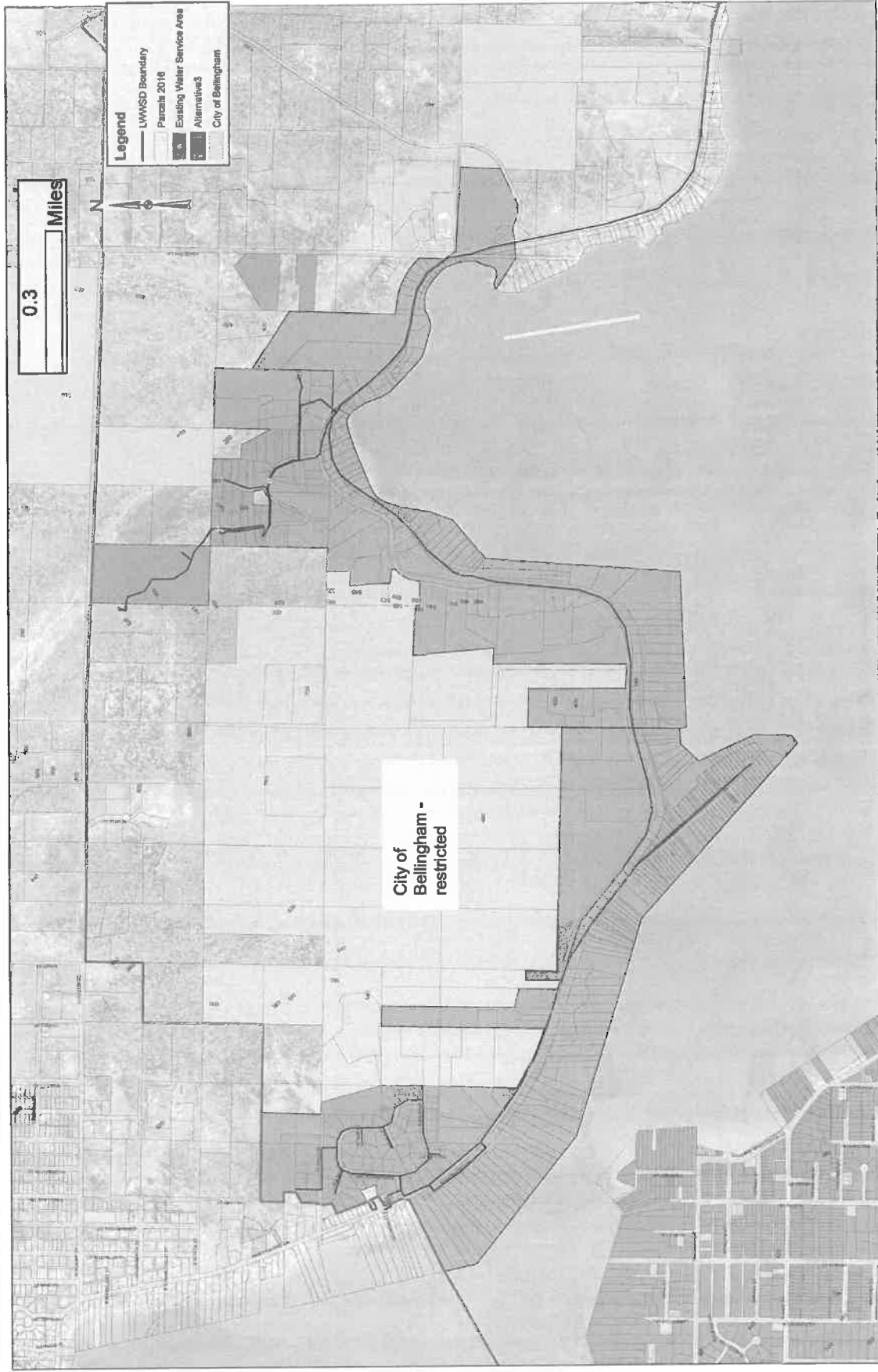
ALTERNATIVE 1 – MATCH DISTRICT SEWER SERVICE AREA



ALTERNATIVE 2 – EXTEND TO EAST END OF NORTSHORE RD



ALTERNATIVE 3 – EXTEND FROM EAGLERIDGE TO Y ROAD



3. Water System Consolidation Preliminary Cost Estimates

A. Alternative 1

B. Alternative 2

C. Alternative 3

LAKE WHATCOM WATER AND SEWER DISTRICT
North Shore Water System Consolidation Feasibility
Preliminary Cost Estimates

7/31/2017

Prepared by: Curt Schoenfelder, PE and Melanie Mankamy, PE, Wilson Engineering LLC

Wilson Job No.: 2016-093

Preliminary Cost Estimates - Alternative 1

Item Description	Quantity	Unit	Unit Price	Amount
CONSTRUCTION				
a. Mobilization (10%)	1	LS	\$ 338,363	\$ 338,363
b. Traffic Control (5.5%)	1	LS	\$ 186,100	\$ 186,100
c. Temporary Erosion and Sediment Control (1.2%)	1	LS	\$ 40,604	\$ 40,604
d. Distribution Improvements				
8-inch DI Pipe	11,250	LF	\$ 65	\$ 731,250
12-inch DI Pipe	12,000	LF	\$ 75	\$ 900,000
8-inch Gate Valve	14	EA	\$ 1,500	\$ 21,094
12-inch Gate Valve	15	EA	\$ 2,500	\$ 37,500
Hydrant Assembly	39	EA	\$ 5,500	\$ 213,125
Combination Air Release/Vacuum Valve	5	EA	\$ 2,500	\$ 12,500
Blow-off Assembly	2	EA	\$ 2,000	\$ 4,000
Connect to Existing Main	3	EA	\$ 2,500	\$ 7,500
Service Connections (all inclusive; saddles, corps, meter ass'y, box, line)		EA	\$ 2,000	\$ -
Restoration	23,250	LF	\$ 24	\$ 558,000
Subtotal				\$ 2,484,969
e. Treatment and Pumping Improvements				
Building Addition (20'x20' and a bit taller)	1	LS	\$ 100,000	\$ 100,000
Filtronic Model FV-09 Electromedia 1 Fe/Mn Removal System (Equipment only; includes filter, reaction vessels, controls and chem feed equipment)	1	LS	\$ 225,000	\$ 225,000
Filtronic treatment system installation	1	LS	\$ 112,500	\$ 112,500
Booster pump station, duplex skid mount including Controls (Equipment only)	1	LS	\$ 33,000	\$ 33,000
Booster pump station installation	1	LS	\$ 16,500	\$ 16,500
Chlorination and other misc. upgrades	1	LS	\$ 25,000	\$ 25,000
Electrical upgrades	1	LS	\$ 35,000	\$ 35,000
Generator & Tank	1	LS	\$ 55,000	\$ 55,000
Subtotal				\$ 602,000
f. Storage Improvements				
Concrete storage tank 185,000 Gallon 30x35 (installed by supplier, prevailing wages)	1	LS	\$ 170,775	\$ 170,775
Site Preparation and misc. under tank piping etc.	1	LS	\$ 85,388	\$ 85,388
Piping/valving from new tank to existing	1	LS	\$ 40,500	\$ 40,500
Subtotal				\$ 296,663
SUMMARY				
Subtotal				\$ 3,948,698
Contingencies	15%			\$ 592,305
Sales Tax	8.5%			\$ 385,985
Preliminary Estimated Construction Costs				\$ 4,926,988
Permitting (Consulting and Permit Fees)	2.5%			\$ 123,170
Topographic Survey	4%			\$ 197,080
Engineering Design	15%			\$ 739,050
Construction Phase Engineering/Inspection	10%			\$ 492,700
Construction Phase Surveying	3%			\$ 147,810
GRAND TOTAL				\$ 6,626,798

LAKE WHATCOM WATER AND SEWER DISTRICT
North Shore Water System Conolidation Feasibility
Preliminary Cost Estimates

7/31/2017

Prepared by: Curt Schoenfelder, PE and Melanie Mankamy, PE, Wilson Engineering LLC

Wilson Job No.: 2016-093

Preliminary Cost Estimates - Alternative 2

Item Description	Quantity	Unit	Unit Price	Amount
CONSTRUCTION				
a. Mobilization (10%)	1	LS	\$ 487,827	\$ 487,827
b. Traffic Control (5.5%)	1	LS	\$ 268,305	\$ 268,305
c. Temporary Erosion and Sediment Control (1.2%)	1	LS	\$ 58,539	\$ 58,539
d. Distribution Improvements				
8-inch DI Pipe	9,750	LF	\$ 65	\$ 633,750
12-inch DI Pipe	25,250	LF	\$ 75	\$ 1,893,750
8-inch Gate Valve	12	EA	\$ 1,500	\$ 18,281
12-inch Gate Valve	32	EA	\$ 2,500	\$ 78,906
Hydrant Assembly	58	EA	\$ 5,500	\$ 320,833
Combination Air Release/Vacuum Valve	5	EA	\$ 2,500	\$ 12,500
Blow-off Assembly	2	EA	\$ 2,000	\$ 4,000
Connect to Existing Main	3	EA	\$ 2,500	\$ 7,500
Service Connections (all inclusive; saddles, corpe, meter ascy, box, line)		EA	\$ 2,000	\$
Restoration	35,000	LF	\$ 24	\$ 840,000
Subtotal				\$ 3,809,521
e. Treatment and Pumping Improvements				
Building Addition (20'x20' and a bit taller)	1	LS	\$ 100,000	\$ 100,000
Filtronic Model FV-09 Electromedia 1 Fe/Mn Removal System (Equipment only; includes filter, reaction vessels, controls and chem feed equipment)	1	LS	\$ 225,000	\$ 225,000
Filtronic treatment system installation	1	LS	\$ 112,500	\$ 112,500
Booster pump station, duplex skid mount including Controls (Equipment only)	1	LS	\$ 33,000	\$ 33,000
Booster pump station installation	1	LS	\$ 16,500	\$ 16,500
Chlorination and other misc. upgrades	1	LS	\$ 25,000	\$ 25,000
Electrical upgrades	1	LS	\$ 35,000	\$ 35,000
Generator & Tank	1	LS	\$ 55,000	\$ 55,000
Subtotal				\$ 602,000
f. Storage Improvements				
Concrete storage tank 333,000 Gallon 30x65 (Installed by supplier, prevailing wages)	1	LS	\$ 341,000	\$ 341,000
Site Preparation and misc. under tank piping etc.	1	LS	\$ 85,250	\$ 85,250
Piping/valving from new tank to existing	1	LS	\$ 40,500	\$ 40,500
Subtotal				\$ 466,750
SUMMARY				
Subtotal				\$ 5,692,942
Contingencies	15%			\$ 853,941
Sales Tax	8.5%			\$ 556,485
Preliminary Estimated Construction Costs				\$ 7,103,368
Permitting (Consulting and Permit Fees)	2.5%			\$ 177,580
Topographic Survey	4%			\$ 284,130
Engineering Design	15%			\$ 1,065,510
Construction Phase Engineering/Inspection	10%			\$ 710,340
Construction Phase Surveying	3%			\$ 213,100
GRAND TOTAL				\$ 9,554,028

LAKE WHATCOM WATER AND SEWER DISTRICT
North Shore Water System Conolidation Feasibility
Preliminary Cost Estimates

7/31/2017

Prepared by: Curt Schoenfelder, PE and Melanie Mankamy, PE, Wilson Engineering LLC

Wilson Job No.: 2016-093

Preliminary Cost Estimates - Alternative 3

Item Description	Quantity	Unit	Unit Price	Amount
CONSTRUCTION				
a. Mobilization (10%)	1	LS	\$ 301,848	\$ 301,848
b. Traffic Control (5.5%)	1	LS	\$ 166,016	\$ 166,016
c. Temporary Erosion and Sediment Control (1.2%)	1	LS	\$ 36,222	\$ 36,222
d. Distribution Improvements				
8-inch DI Pipe	7,600	LF	\$ 65	\$ 494,000
12-inch DI Pipe	12,000	LF	\$ 75	\$ 900,000
8-inch Gate Valve	10	EA	\$ 1,500	\$ 14,250
12-inch Gate Valve	15	EA	\$ 2,500	\$ 37,500
Hydrant Assembly	33	EA	\$ 5,500	\$ 179,667
Combination Air Release/Vacuum Valve	5	EA	\$ 2,500	\$ 12,500
Blow-off Assembly	2	EA	\$ 2,000	\$ 4,000
Connect to Existing Main	3	EA	\$ 2,500	\$ 7,500
Service Connections (all inclusive; saddles, corps, meter ass'y, box, line)		EA	\$ 2,000	\$
Restoration	19,600	LF	\$ 24	\$ 470,400
Subtotal				\$ 2,119,817
e. Treatment and Pumping Improvements				
Building Addition (20'x20' and a bit taller)	1	LS	\$ 100,000	\$ 100,000
Filtronic Model FV-09 Electromedia 1 Fe/Mn Removal System (Equipment only; includes filter, reaction vessels, controls and chem feed equipment)	1	LS	\$ 225,000	\$ 225,000
Filtronic treatment system installation	1	LS	\$ 112,500	\$ 112,500
Booster pump station, duplex skid mount including Controls (Equipment only)	1	LS	\$ 33,000	\$ 33,000
Booster pump station installation	1	LS	\$ 16,500	\$ 16,500
Chlorination and other misc. upgrades	1	LS	\$ 25,000	\$ 25,000
Electrical upgrades	1	LS	\$ 35,000	\$ 35,000
Generator & Tank	1	LS	\$ 55,000	\$ 55,000
Subtotal				\$ 602,000
f. Storage Improvements				
Concrete storage tank 185,000 Gallon 30x35 (installed by supplier, prevailing wages)	1	LS	\$ 170,775	\$ 170,775
Site Preparation and misc. under tank piping etc.	1	LS	\$ 85,388	\$ 85,388
Piping/valving from new tank to existing	1	LS	\$ 40,500	\$ 40,500
Subtotal				\$ 286,663
SUMMARY				
Subtotal				\$ 3,522,565
Contingencies	15%			\$ 528,385
Sales Tax	8.5%			\$ 344,331
Preliminary Estimated Construction Costs				\$ 4,395,281
Permitting (Consulting and Permit Fees)	2.5%			\$ 109,880
Topographic Survey	4%			\$ 175,810
Engineering Design	15%			\$ 659,290
Construction Phase Engineering/Inspection	10%			\$ 439,530
Construction Phase Surveying	3%			\$ 131,860
GRAND TOTAL				\$ 5,911,651

4. Questionnaire and Response Summary

North Shore Water System Consolidation Public Input Survey

Lake Whatcom Water and Sewer District is gathering information on current residential water sources and interest in connecting to a public water system in order to make an informed decision regarding extending its water distribution system along North Shore Road. This water system expansion will not financially impact current District water customers.

1. What is the current use of your property?

- Vacant
- Single Family
- Other _____

2. What is the water source for your property?

- Individual Well
- Lake draw / surface water
- Water system (name) _____
- Shared Well
- Other _____

3. Are you interested in connecting to a public water system?

- Yes
- No
- Maybe / Depends _____

4. If you are interested, what is your motivation to connect to a public water system?

- | | |
|---|--|
| <input type="checkbox"/> Reliability | <input type="checkbox"/> Fire protection |
| <input type="checkbox"/> Water Quality | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Water Quantity | |

5. If you are interested, what will drive your decision-making process?

Rank 1-4, with 1 being most important

- _____ Overall cost to connect
- _____ Ability to pay connection fee over time
- _____ Estimated water bills
- _____ Other _____

Comments:

Please provide your contact information if you would like to be kept informed about this project.

Name: _____

Address: _____

Phone: _____

Email: _____

North Shore Consolidation Questionnaire-Raw Dat

ID	CurrentUse	WaterSource	Connect	Motivation?	Overall	Pay	Fe	Water	Other	Notes	Name	address	Address Street	Phone	email
1	Single Family	Lake draw	Maybe/D	Reliability, Water Quality	2	3	1				Kathy Delbecq	2135	Dellesta Dr		rkdclbecq@comcast.net
2	Single Family	Shared Well	Maybe/D		1	4	2	3		Connection to sewer with water service?	Alice and Jay Shilha	3016	Lakeshore Rd	360-647-2306	a.shilhane@comcast.net
3	Single Family	Lake draw	Maybe/D	Reliability	1	2	3				Alan Bagley	2844	Northshore Rd	360-733-7298	bulldoglake@comcast.net
4	Single Family	Well	Maybe/D	Reliability, Water Quality	1		2				John Waldburger	2593	Northshore Rd		jwaldburger@comcast.net
5	Single Family	Lake draw	Maybe/D	Reliability, Water Quality	2	3	4	1		Want to protect water quality in Lake	Michael Picco	2106	Dellesta Dr	360-929-1831	mikepicco@yahoo.com
6	Single Family	Lake draw	Maybe/D	Reliability	1	3	2			Need more specific cost information	Ed Shannon	1745	Edgewater Ln		ed@lasy-a.com
7	Single Family	Lake draw	Yes	Water Quality	1	2	3				Will & Karen Johnson	2587	Northshore Rd	360-303-8042	gatorjhns@comcast.net
8	Single Family	Shared Well	Yes	Reliability, Water Quality	1	3	2				Jason Sims	3100	Edgewood Ln	360-739-3353	simsjason@comcast.net
9	Single Family	Lake draw	Yes	Reliability, Water Quality	1	3	2				Evan Keating	2297	Northshore Rd	408-309-7017	evankeating@yahoo.com
10	Single Family	Shared Well	Yes	Water Quality	1	3	2				Carole & Ron Evans	2098	Northshore Rd	360-319-1769	carole77@comcast.net
11	Single Family	Lake draw	Yes	Water Quality	2	1	3								
12	Vacant	none	Yes	Other, Reliability, Water Q	1	2	3	4		Timing	Steve & Laura Ward	2840	Northshore Rd	206-595-5234	Laurelueward@gmail.com
13	Single Family	Well	Yes	Reliability	1	2	3			Currently haul water 1-5x/week (300gal)	Kevin & Diane Form	3181	Lakeshore Rd	360-733-7789	formfam@aol.com
14	Single Family	Shared Well	Yes	Reliability, Water Quality	1					Cost is high, may disincenivize project					
15	Single Family	Lake draw	Yes	Reliability	2	2	2				Robert Bornstein	3152	Northshore Rd		robertandjanice@comcast
16	Single Family	Lake draw	Yes	Reliability	2	2	2				Peter Dobey	3175	Northshore Rd	360-778-2047	peterdobey@comcast.net
17	Single Family	no entry	Yes	Fire/Safety, Reliability, Wat				1		Ease of process	David C. Morse, III	2176	Dellesta Dr	360-319-1257	dmorse@blytheinc.com
18	Single Family	Lake draw	Yes	Fire/Safety, Reliability, Wat				1		fire protection	Sherri Vander Yacht	2079	Northshore Rd	360-815-4656	jeffsherri@comcast.net
19	Vacant	none	Yes	Fire/Safety, Reliability, Wat				1		fire protection	Jeff Vander Yacht	2079	Northshore Rd	360-815-4196	jvandyacht@PSEsurvey.
20	Vacant	none	Yes	Fire/Safety, Reliability, Wat				1		fire protection	Jeff Vander Yacht	2087	Northshore Rd	360-815-4196	jvandyacht@PSEsurvey.
21	Single Family	Shared Well	Yes	Other, Water Quality	2	2	2			Responsibility in maintaining lights in pump houses during winter (2 wells serving 4 houses)	Dr. M Attygalla	3330	Sunny Cove Ct	360-933-4625	mallika19@icloud.com
22	Single Family	Lake draw	Yes	Water Quality	1	2	2				William W. Winter	2138	Dellesta Dr	360-733-0149	winterbilli@comcast.net
23	Other	Lake draw	Yes	Reliability, Water Quality				1		Monitored supply	Peter Teifer	2152	Dellesta Dr	360-671-9872	petertelfer48@gmail.com
24	Single Family	Well	Yes	Reliability, Water Quality	1	2	3			will there be a latecomers schedule?	Darrell Visser	3099	Edgewood Ln	360-815-1602	darrellvisser@gmail.com
25	Single Family	Lake draw	Yes	Reliability	1	3	2				Steve & Rhonda Lo	1715	Edgewater Ln		lowrysteve@comcast.net
26	Single Family	Lake draw	Yes	Water Quality	2	1	3			mailing address: 2301 Struckney Island Rd, Everson	Robin Hoefler (Pears	3203	Northshore Rd	360-966-2467;	hoeffermr@aol.com
27	Single Family	Lake draw	No							Water line will encourage building, more traffic on Northshore Rd, more pollution	C. La Nois	2063	Northshore Rd	360-223-1978	
28	Single Family	Other	No												
29	Single Family	Lake draw	No							Water line will cause more building, more traffic and more pollution in the Lake	Hope Lawrenson	2066	Dellesta Dr	360-733-2727	2cat10@gmail.com

ID	CurrentUse	WaterSource	Connect t	Motivation?	Overall	Pay Fe	Water	Other	Notes	Name	address	Address Street	Phone	email
30	Single Family	Lake draw	No						I'm afraid that a water line would cause more building on the lake which would pollute the lake more	Claire Banjanin	2064	Dellesta Dr	360-734-1826	cbanjanin@comcast.net
31	Single Family	Lake draw	No							Stan La Nois	2063	Northshore Rd	360-820-1313	sljanois@comcast.net
32	Single Family	Well	No							Dave Grunhurd	2637	Northshore Rd	360-671-6568	dgrunhurd@gmail.com
33	Single Family	Shared Well	No											
34	Single Family	Lake draw	No							Steve Adelstein	1721	Edgewater Ln	360-676-9591	
35	Single Family	Lake draw	No	Fire/Safety	1	4	3	2	pay for fire protection in property tax please use website for information about this project	Karen & Tom Evich	2051	Northshore Rd	360-671-1354	karenevich@comcast.net
36	Single Family	Lake draw	No											
37	Single Family	Well	No	Other	1		2	3	3--Construction on Northshore; 4- Who paid for this study?; 5-How much will our taxes go up?; 6-Where is the additional water going to come from?	Nate Marino	2878	Lazer Ln	360-220-7860	nate@threepalmsdesigns.
38	Single Family	Well	No						(1/2 owner)	Cecelia Thomas	2582	Northshore Rd	360-733-2663	celiethomas@operapopol
39	Single Family	Well	No						Not interested					hyshe@yahoo.com
40	Single Family	no entry	No						No interest	Cristi Lysne	2472	Northshore Rd	360-756-2717	garylysne@msn.com
41	Single Family	Lake draw	No						If line in Northshore there will be more sprawl and consequently more lake pollution	Milan Banjanin	2064	Dellesta Dr	360-734-1826	
42	Single Family	Lake draw	No							Paul Hovnanian	3120	Northshore Rd		paul@hovnanian.com
43	Single Family	Lake draw	No											
44	Single Family	Well	No						This is another opportunity to take state \$, study something that isn't a problem to keep Wilson Engineering in business, and then force it on a small group of landowners who have already gone to the expense of putting in a private water source because there was no public water available. Now you push a project that will cost these owners another \$40,000. If the County wants to take over the Lake, why not just buy everyone out at fair market value...					
45	Single Family	Well	No						This District should have brought water to us 50 years ago when many of us met with the District at the Agate Bay fire house and talked of water	Del Wolf	1854	Northshore Rd	360-734-4309	
46	Single Family	Well	No							Stan Wolf	1862	Northshore Rd		

ID	CurrentUse	WaterSource	Connect	Motivation?	Overall	Pay	Fe	Water	Other	Notes	Name	address	Address Street	Phone	email
47	Single Family	Lake draw	No							This question is misleading. A public water system under current zoning cannot state "water quality" as a benefit. Please be clear when reporting this survey that it is flawed, biased and narrowly addresses a very complex issue.	Fred Miller	3229	Northshore Rd	360-671-2365	fredmiller20@comcast.net
48	Single Family	Agate Heights	Yes	Other	1					Current system provides low pressure and high mineral content	Troy Degroot	3372	Coral Ln		iflynavy@comcast.net
49	Single Family	Lake draw	No							If a water line is put in, will we be required to hook up? Extending sewer service on the N. Shore Rd is better for Lake health.	Kris Ungren	2095	Northshore Rd	360-734-2701	suebear02@comcast.net
50	Single Family	Lake draw	No							I am very opposed to this water system expansion.	Don Boyer	2695	Northshore Rd	206-719-7446	don.boyer@comcast.net
51	Single Family	Lake draw	No		2	2	2	2			Charles Walter	1737	Edgewater Ln	360-201-4187	chwalter53@gmail.com
52	Single Family	Shared Well	No		2	2	2	2			Stew Ellison	1807	Northshore Rd		
53	Single Family	Lake draw	No		2	2	2	2							
54	Single Family	Lake draw	No		2	2	2	2		Summer place only- Property Taxes and Sewer Charges are already prohibitive	Gaylon Vander Yach	340	maberry loop lyden 982	354-3185	
55	Single Family	Well	No		2	2	2	2			William Cox	2661	Northshore Rd	360-778-1586	willcox@comcast.net
56	Other	Lake draw	No		2	2	2	2		Summer home	SIMS	23242	Bassett Rd.	360-856-6318	alwaysaproblemjan@yahoo
57	Other	Other	No		2	2	2	2		I have just spent \$18,000 to put in a rain catchment system for our new house	Gordan Sullious	2641	Birchbay Lynden Rd 982	364-3171	
58	Single Family	Water System	No		2	2	2	2		Suggest new ??? Dig their own wells	Anthony & Lee Ashe	3364	Topaz Ct		
59	Single Family	Water System	No		2	2	2	2		We could use a small boost of water in July and August for some of our owners. I am the current system manager	Lorraine A. Bierman	2722	Willow Lane	360-224-1549	
60	Single Family	Lake draw	No		2	2	2	2		We recently spent considerable \$\$ in putting a UV cleansing and filtration and the water is perfect. Everyone else on N.shore has no doubt and done the same and many people have had to drill wells at considerable expense. This proposed water extension is not needed and should be a non-starter. Sorry, but we do not need the service or extra expense.	David & Deborrah L.	2653	Northshore Rd	783-9094	
61	Single Family	Lake draw	No		2	2	2	2		Cost to hook up would be too much to make financial sense. We have excellent water with own well.	Dave Nicholes	2583	Northshore Rd	360-961-3951	davethejudge@comcast.n
62	Single Family	Well	No		2	2	2	2			Ann Rushing	31846		3602205259	karlem.kuntz@comcast.co
63	Single Family	Well	No		2	2	2	2			Frank & Allida Bowe	2466	Northshore Rd	733-8218	

ID	CurrentUse	WaterSource	Connect	Motivation?	Overall	Pay	Fe	Water	Other	Notes	Name	address	Address Street	Phone	email
64	Single Family	Well	No		2	2		2							
65	Single Family	Well	No		2	2		2		More access to water will spur more development of houses					
66	Single Family	Lake draw	No		2	2		2			Tiller	2181	Northshore Rd		
67	Single Family	Lake draw	No		2	2		2		Not interested even if the service is available	Steve Lackey	2173	Northshore Rd	360-756-6915	stevelackey2@gmail.com
68	Single Family	Shared Well	No		2	2		2			Alicia & Jess Cantu	3362	Topaz Ct	360-223-0697	isomerz@msn.com
69	Single Family	Shared Well	No		2	2		2		No, we do not want to connect. Why should we? We have great water and low bills		2129	Dellesta Dr		
70	Single Family	Lake draw	No		2	2		2		Own Water rights to lake.. Culligam system of filter and UV treatment					
71	Single Family	Lake draw	No		2	2		2			Lorry Zeies	1449	Edgewater Ln	360-734-8766	jlzeis@comcast.net
72	Single Family	Lake draw	No		2	2		2		We own water rights to lake.	John Mumma	3169	Agate Bay	733-4651	j.mumma@omast.net
73	Single Family	Well	No		2	2		2			Philip & Judy Andre	2790	Northshore Rd	360-319-0546	ladyolakew@gmail.com
74	Single Family	Lake draw	No		2	2		2							
75	Single Family	Well	No		2	2		2		if you really care about the wter quality, extend the sewer main. I have a good well and a septic system. I would pay for sewer before paying for a new water source	Chris Vazquez	2802	Northshore Rd	360-393-7272	backin1972@gmail.com
76	Single Family	Shared Well	No		2	2		2							
77	Single Family	Shared Well	No												
78	Other	Other	No												
79	Single Family	Well	No												
80	Single Family	Well	No								Michael Tario	3046	Northshore Rd	360-671-8500	
81	Single Family	Well	No								Daniel & Helen Che	1950	Northshore Rd	360-510-2720	linfenchuan3@yahoo.com
82	Single Family	Lake draw	No		1			1			Rick Lingbloom	2609	Northshore Rd		r.lingbloom@comcast.net
83	Single Family	Shared Well	No												
84	Single Family	Lake draw	No							Cost to connect is not worth the marginal benefit of provide water.					
85	Single Family	Shared Well	No												
86	Single Family	Lake draw	No								Jeff DAVIS	3129	Sheridan Trail		
87	Single Family	Well	No							Because of the way our house is situated, hooking up to a water line that comes off of N.Shore Rd. would be extremely expensive	Carl Walton	2055	Northshore Rd	360-733-8912	canlwalton3@aol.com
88	Single Family	Well	No							Reliable water available currently. Will not pay for additional system	Steve Pratum	2619	Northshore Rd		stevepratum@gmail.com

ID	CurrentUse	WaterSource	Connect t	Motivation?	Overall	Pay Fe	Water	Other	Notes	Name	address	Address Street	Phone	email
89	Single Family	Lake draw	No						Terribly expensive dumb idea. No way. Opens the lake to more development which we do not need. Protect the watershed					
90	Single Family	Well	No							William Canhill	3049	Lakeshore Rd	360-756-7513	wcchill@aoh.com
91	Single Family	Well	No							David Babbitt	2484	Northshore Rd		david@agatebayconstructi
92	Single Family	Lake draw	No						I can't think of anything that would hurt the water shed- increasing ability to develop more houses, etc in such a fragile ecosystem. Terrible!					
93	Single Family	Lake draw	No				1			Duane H. Johnson	2577	Northshore Rd	360-303-2143	dudod@juno.com
94	Single Family	Lake draw	No							Gordon & Maude D	2359	Northshore Rd	360-734-4544	
95	Single Family	Lake draw	No							Ann & Jake Hardy	2417	Northshore Rd		havdyae@comcast.net
96	Other	Shared Well	Yes	Reliability, Water Quality, 1					Sounds good	Donald.A. Miller	3850	Washington st #1205	941-538-1655	
97	Single Family	Lake draw	Yes	Fire/Safety, Reliability, Wat 2	1	3			We have a shared well for our house. We have another well we use for watering our garden. We want to be on public sewer system. If option to connect includes both we would sign up. If only water, I am not interested	Jeff Frere	3295	Northshore Rd	360-920-5434	rosedawgz@gmail.com
98	Single Family	Well and share	Yes	Other, Reliability			1			Rory Bradt	2696	Northshore Rd	425-210-0878	rorybradt@gmail.com
99	Other	Other	Yes	Fire/Safety, Reliability, Wat 2	1	3	4		We bring in our own water. We at this point can't put in a well so would have to put in containment system. We carry our water	Gail Wasilewski	1865	Vineyard PL		gailvazol@comcast.net
100	Other	Other	Yes	Fire/Safety, Reliability, Wat 2	1	3	4			John Wasilewski	1865	Vineyard PL		john@mantleindustries.co
101	Vacant		Yes	Water Quantity			1		Need access to public water system	Jeff Yacht	2079	Northshore Rd	360-815-4196	
102	Single Family	Lake draw	Yes	Reliability, Water Quality 2	4	3	1		How soon installation?	Tim and heslie Farri	2133	Northshore Rd	360-961-3570	LKFarris4@gmail.com
103	Single Family	Shared Well	Yes	Fire/Safety, Reliability, Wat 1						Kevin Sluys	2076	Dellesta Dr	360-510-6722	kslws@gmail.com
104	Vacant	Well	Yes	Reliability, Water Quality, 1	3	2			I think the city of Bellingham needs more affordable, buildable lots that do not require large fees for permitting. Costs for connecting to utilities needs to be more affordable for city residents	Kimberly Barron	533	37th st	360-799-9506	northshorevet@msn.com
105	Single Family	Water System	Yes	Water Quality	1	4	3	2						
106	Vacant	Well	Yes	Reliability, Water Quality 1	2	3			I support the project. I may build on this property and availability of a reliable spource of water ould simplify matters	Christine Valentine	125	Elkenburg st unit 1		christinevalentine@froutie
107	Vacant	Shared Well	Yes	Reliability, Water Quality, 1					I have two buildable lots. I think it would be good to upgrade to stand well system	Donald Miller	3850	Washington Street		
108	Other	Lake draw	Yes	Reliability, Water Quality 1	3	2			Recreation lot	Steve Kunnap	4281	James St	360-733-1943	

ID	Current Use	Water Source	Connect t	Motivation?	Overall	Pay Fe	Water	Other	Notes	Name	address	Address Street	Phone	email
109	Other	Other	Yes	Fire/Safety, Reliability, Wat	2	3			Soon to build 2017-2018. My wife and I are eager to build on our land. This house is to become our primary residence and we hope to get connected to city water as this would be an answer to the prayer	Rafael A Recto	164 Robles Way #124		707-246-4339	lrecto@comcast.net
110	Other	Shared Well	Yes	Other	1				Recreation visit. Shared well can't connect to.	Bruce Longstreth	1803 Northshore Rd		360-319-6881	bbngsteth@muljatgroup.c
111	Single Family	Well	Yes	Reliability, Water Quality,	3	1	2			Christy Sorenson	3131 Lakeshore Rd		360-319-8659	csorenson@vanhofhepaci
112	Single Family	Lake draw	Yes	Reliability, Water Quality	2	3	1		I am eager to connect to public water	David Engst	3108 Agate Bay lane		360-510-2842	csi247g@gmail.com
113	Single Family	Lake draw	Yes	Reliability, Water Quality	1	3	2			Robert Hannum	2643 Northshore Rd		360-671-2533	ichora@comcast.com
114	Single Family	Lake draw	Yes	Other, Reliability	2	3	1		Improved water pressure. Question: We are already on city sewer so doesn't that mean we pay for water (even though we don't receive it)? Connected to lake whatcom water and sewer	Keith Vander Griend	1733 Edgewater Ln		360-676-0776	kvanderfriend@comcast.n
115	Single Family	Water System	Yes	Fire/Safety, Reliability, Wat	1	3	2							
116	Single Family	Lake draw	Yes	Reliability, Water Quality	1	3	2			Robin Wong	2335 Northshore Rd		360-223-7297	robinthuy@comcast.net
117	Single Family	Lake draw	Yes	Fire/Safety, Reliability, Wat	2		2			Robert Olson	3362 East Badgen Everson		360-927-3292	bolson3505@gmail.com
118	Single Family	Water System	Yes	Fire/Safety, Reliability, Wat			1		Already Connected					
119	Vacant	Well	Yes	Fire/Safety, Water Quality			2			Pamp Maiers	850 PO Box 850 Mosses lake		509-765-5885	zarzyck@hotmail.com
120	Single Family	Lake draw	Yes	Reliability, Water Quality	2	1	3			Mark Zarzycki	286 Briar Rd			
121	Single Family	Other	Yes	Reliability, Water Quality			2		Using rain water harvesting system. Cost won't matter, just want better water	Robert Walker	1853 Northshore Rd		360-739-8343	rwalker@mbcollision.com
122	Single Family	Shared Well	Yes	Reliability, Water Quality,	1	2	3	4		Chris Rink	2368 Northshore Rd		360-393-3586	crinkspesurvey.com
123	Single Family	Shared Well	Yes	Reliability, Water Quality	1					Chris Knauft	3326 Sunny Cove CT		360-739-3403	chrisknauft@gmail.com
124	Single Family	Well	Yes	Reliability, Water Quality	1	2	3		Generally in favor of this plan. Please note the name change: address for notifications	Northshore Road LL	2815 Russell Street		360-758-2111	ffelicity@gmail.com
125	Single Family	Shared Well	Yes	Fire/Safety, Reliability, Wat	2	1	3			Paul K. Glasser	3095 Edgewood Ln		360-656-6699	pkglasser@comcast.net
126	Single Family	Water System	Yes	Fire/Safety, Other, Reliabili					water source is lake whatcom water via city of bellingham. Pay same rate as city residents. Does the city of bellingham want to bring us in direct line?	Roger Despain	1716 Golden court		360-820-9121	
127	Single Family	Lake draw	Yes	Fire/Safety, Reliability, Wat					Quality monitored water supply and fire protection are very basic services. I would like to have them.	Peter Telfer	2152 Dellesta Dr		360-671-9872	petertelfer48@gmail.com
128	Single Family	Well	Yes	Fire/Safety, Reliability, Wat	2	3	1	4	If public water becomes available it is very likely that we will connect	Stephen Hutchens	2090 Northshore Rd		360-201-0098	sphutchens@yahoo.com
129	Other	Well	Yes	Reliability, Water Quality	1	3	2			Whatcom county fo	3373 Mt. Baker highway		360-778-5850	mmcfaria@co.whatcom.w

ID	Current Use	Water Source	Connect t	Motivation?	Overall	Pay	Fe	Water	Other	Notes	Name	address	Address Street	Phone	email
130	Single Family	Water System	Maybe/D							Depends on cost. Current service from lake whatoom water and sewer dist is great. Not interested in having our cost go up	Chris Hilleary	1857	Northshore Rd	360-319-9311	chilleary@aerotechgolfsha
131	Single Family	Lake draw	Maybe/D		2					We have a "water right" to draw out of the lake but have filter maintenance costs. We would evaluate these costs compared to purchase and hookup costs of public water system					
132	Single Family	Water System	Maybe/D							Depends on rates	John & Dorie Micha	1720	Eagleridge Drive	360-734-9819	jmache1@comcast.net
133	Single Family	Shared Well	Maybe/D		1	2		3			Bruce & Kathy Wiis	3091	E. 21ST pl		bknjrwilson@hotmail.com
134	Single Family	Shared Well	Maybe/D	Fire/Safety, Reliability, Wat	1	2		3			Vincent Williams	1010	Lonetree ct	360-933-4150	vince@hiwestfoods.com
135	Single Family	Water System	Maybe/D	Other, Water Quality	1	3		2		Current rates are too high. The burden placed on homeowners to protect, preserve and pay significantly for water is pointless when engine powered watercraft and boats are allowed in the water sources. I am sickd by the lack of ownership by those entrusted to protect our water sourcebut don't by continuing to allow oil/gas/electric into our water source.	Sullivan	3237	Eagleridgeway	360-603-4258	maureen.sullivan270@gm
136	Single Family	Lake draw	Maybe/D		1	2		3		Depends on cost					
137	Single Family	Well	Maybe/D	Reliability, Water Quality,	2	2		2			Joe Baldwin	3042	Northshore Rd	360-305-4504	jbatosc@yahoo.com
138	Single Family	Well	Maybe/D	Reliability, Water Quality	2	2		2		Would be more interested with sewer	Bruce Kwe	3048	Lakeshore Rd		
139	Single Family	Lake draw	Maybe/D	Water Quality	2	1		3	4		Rochelle Stroup	2413	Northshore Rd	360-733-4297	
140	Single Family	Other	Maybe/D	Reliability	1	4		3	2	Rain water source. Depends on amount of digging/land/road distribution to install					
141	Single Family	Shared Well	Maybe/D							Depends on cost. Why do I have a need or motivation? My well has a lot of water. I could stop using my water softner but I see no other advantage.	Geoff Latimer	3322	Sunny Cove Ct		geofflatimer@comcast.net
142	Single Family	Shared Well	Maybe/D	Reliability, Water Quality	1	3		2		Depends on cost	Mark Daniels	3011	Lakeshore Rd	360-305-0261	markdaniels1@me.com
143	Single Family	Lake draw	Maybe/D							More water means more development which will affect the lake adversely					
144	Single Family	Well	Maybe/D	Fire/Safety, Other, Reliabili						We are interested but only if we would be allowed to keep water rights to our individual well. We moved here from rural clark county and had both our own well and county water. We were very satisfied with that arrangement.	William/lois freebor	2653	Northshore Rd	360-671-0066	

ID	CurrentUse	WaterSource	Connect t	Motivation?	Overall	Pay	Fe	Water	Other	Notes	Name	address	Address Street	Phone	email
145	Single Family	Lake draw	Maybe/D							Already connected to lake whatcom water and very satisfied.	James Volkman	3239	Northshore Rd	360-392-0459	propwashsv@gmail.com
146	Single Family	Water System	Maybe/D												
147	Single Family	Shared Well	Maybe/D	Fire/Safety, Reliability, Wat	1	3	2			I am concerned that providing water services would allow for more development and potential impact on lake whatcom will have more people, houses and runoff.	Marc Fairbanks	3060	E. 21st Pl	360-927-8021	marc.fairbanks@gmail.com
148	Single Family	Well	Maybe/D		1	2	3			Not motivated. Depends on cost	Brincer Cantrell	3319	Sunny Cove Ct	206-849-2287	bcn@bridgectantrell.com
149	Single Family	Lake draw	Maybe/D	Reliability	1					Depends on upfront cost and long term cost, complexity of install	John Hewitt	1849	Northshore Rd	360-305-0440	jhewitte@alpha.com
150	Single Family	Water System	Maybe/D							I assume that I am connected to a 'district' water (potable) supply. That who gets my check every two	John Gardiner	3196	Steller CT	360-739-7456	gonzadoczi@hotmail.com
151	Single Family	Well	Maybe/D		1	3	3			Depends on cost. I currently have a sewer connection but was forced to sign a no contest agreement in order to receive a sewer permit. I appealed the process and was told by the board that I will not be forced to connect to a future water system. I would like to know if your position on this matter is still the same?	Kevin Bedlington	2640	Northshore Rd	360-920-1556	ktbedlington@comcast.net
152	Single Family	Well	Maybe/D	Other	2		2			Quality/Quantity? It's the same damn water, its just the city is doing testing and adding chemicals. You guys have a bigger well	Ellie Hughes	3325	Agate Heights Rd	360-441-7222	elliehughes@comcast.net
153	Single Family	Lake draw	Maybe/D							Want ir free. Wouldn't sewer lines makes more sense in the lake whatcom region? The purity of the lake is an issue. Also replacement of the old septic tanks is very costly. I would rather hook up to that.	Bart Smith	3277	Northshore Rd	808-351-4988	
154	Single Family	Shared Well	Maybe/D	Fire/Safety, Other, Reliabili	1	2	3	4		Cost	Brady and chep titr	3144	Edgewood Ln	805-796-0517	
155	Single Family	Lake draw	Maybe/D	Water Quality	2	3	1			Cost	Brent Belsher	1835	Northshore Rd		5belsbers@comcast.net
156	Single Family	Shared Well	Maybe/D	Water Quality, Water Quan	1						Stephen Brigham	3143	Edgewater Ln	360-593-9402	brigham38@hotmail.com
157	Single Family	Well	Maybe/D	Fire/Safety, Other	1	2	3	4		Like to have house a backup. Depends. I am presently hooked to your sewer, may be the cost in the northshore rd system I could retain well for sprinkler system	Roger Bourm	2644	Northshore Rd	360-739-5624	bourm@aol.com
158	Single Family	Well	Maybe/D	Reliability	1	2	3	4		Would you run the sewer to the end	Ron Lovell	2976	Northshore Rd	360-734-6929	k8lovell@icloud.com
159	Single Family	Lake draw	Maybe/D	Fire/Safety, Reliability, Wat	2		2			Cost	Dave Lunde	2078	Dellaista Dr	360-733-3202	ds_lunde@yahoo.com
160	Single Family	Lake draw	Maybe/D	Reliability	2	3	1			cost	Seabury McGown	2084	Dellaista Dr	756-7912	
161	Single Family	Lake draw	Maybe/D	Reliability, Water Quality	1	3	2			Does not apply	Pete Kremen	3283	Northshore Rd	360-734-3802	pkremen@comcast.com
162	Single Family	Water System	Maybe/D								Kim	3227	eagleridge way	360-756-2388	

ID	Current/Use	WaterSource	Connect t	Motivation?	Overall	Pay Fe	Water	Other	Notes	Name	address	Address Street	Phone	email
163	Single Family	Water System	Maybe/D						I have no problem on consolidating water system unless??? Money is required. I am not willing to have my water rates rise to fund this effort as LWWSD rates are already high	G new Sted	3212	eagleridge way dr	671-5113	gnewsted@comcast.net
164	Single Family	Don't know	No Idea						Already on system . Concerned our quality will go down or lessen out water pressure. Is this more about greed and leftist control of our natural resources?	Maureen Osen	3224	eagleridge way	360-922-7953	m.osen@comcast.net
165	Single Family	Water System	NA							Dana Patrick Downs	3343	Agate heights rd	360-325-3480	
166	Single Family	Water System	NA						Having options.	Rick Porter	1713	Balden Ct.		Rosannaporter@aol.com
167	Vacant	Well	Maybe/D	Other, Reliability	2	2	2			Cathy Brooking/Pet	2600	Northshore Rd	360-733-2978	pctandem@gmail.com
168	Single Family	Well	Maybe/D	Other, Reliability	2	2	2		Will there be a LID fee? If one chooses not to connect will there still be charges? Willit be less costly to connect when line is put in?	Cathy Brooking/Pet	2600	Northshore Rd	360-733-2978	pctandem@gmail.com
169	Single Family	Lake draw	Maybe/D	Reliability	1					Keith Mayo	3926	Forest Beach Dr. NW, Gi	253-905-0547	mayok@earthlink.net
170	Single Family	Shared Well	Maybe/D	Reliability, Water	1	3	2	4	Depends on cost.	Craig Mianos	3165	Lakeshore Rd	360-223-8063	craigmanos@yahoo.com
171	Single Family	Lake draw	Maybe/D		2	2	2		Depends on cost.	Calvin & Dolaris Ball	2605	Northshore Rd	360-734-2473	
172	Single Family	Lake draw	Maybe/D	Fire/Safety, Reliability, Wat	1	2	3		Depends on cost to join and connect. Sufficient federal and state grants would be needed to make it financially feasible to join.	Michael T. Seilo	2309	Northshore Rd	360-733-9121	msellos59@comcast.net
173	Single Family	Lake draw	Maybe/D	Fire/Safety, Reliability	1		2			Dan Jurgenson	1762	Northshore Rd	360-676-1019	
174	Single Family	Lake draw	Yes	Other, Reliability, Water Q	1	2	3		Occupy house two months per year. Interested w/reservations. Motivated by prospect of less maintenance.	Dan Rosser	2105	Northshore Rd	360-739-9939	
175	Single Family	Well	Yes	Reliability, Water Quality	3	1	2		Very interested.	Chris Brueske	2724	Willow Ln.		cbrueske@comcast.net
176	Single Family	Lake draw	Yes	Fire/Safety, Reliability, Wat	1	2	3	4	Able to continue lake draw for grounds/garden?	Brian Patterson	2157	Northshore Rd	360-820-5409	alberni11@gmail.com
177	Vacant	Well	Yes	Reliability, Water Quality	1					Susan Miner	3171	Edgewood Ln	360-671-7289	susanmike76@comcast.net
178	Single Family	Well	Yes	Reliability, Water Quality	1	3	2		Water System: Northshore Water & Septic/Solar Acres. Interested but depends on cost.	Paul Zosel	2719	Willow Ln		pizosel@openaccess.org
179	Single Family	Water System	Maybe/D	Reliability, Water Quality	2	1	3		Need more info. Too expensive. It is too expensive for us who have spent much for a water system- pump, filters, etc.	Robert Benner	1741	Edgewater Ln	360-734-3452	benner1741@yahoo.com
180	Single Family	Lake draw	No							Larry Ziels	1749	Edgewater Ln	360-734-8766	jiziels@comcast.net
181	Single Family	Lake draw	No						We have water rights from DOE. We have zero interest in the public water system.	Alexander	2109	Northshore Rd	360-647-8276	
182	Single Family	Lake draw	No											

ID	Current Use	Water Source	Connect	Motivation?	Overall	Pay	Water	Other	Notes	Name	address	Address Street	Phone	email
183	Single Family	Lake draw	No						We have an expensive system providing water and tested regularly.					
184	Single Family	Shared Well	No						Our shared well costs are significantly reduced compared to others on your LWWSD system.	Loran Zenovian	2588	Northshore Rd	360-255-1098	zenovianloran@gmail.com
185	Single Family	Shared Well	No						Went to public meeting-the cost to bring a public water supply down Northshore is just too high. The DOH wants to consolidate small water systems, sure, but we are not on a small water system, we are on a well.					
186	Single Family	Lake draw	No							William Knudsen	1798	Northshore Rd	360-671-8260	wgknudsen@gmail.com
187	Single Family	Lake draw	No		1					John Herds	2112	Dellesta Dr		
188	Single Family	Lake draw	No											
189	Single Family	Well	No							John N. Connell	3307	Northshore Rd	360-739-8864	johnshq@comcast.net
190	Single Family	Lake draw	No							Ron Eriksen	2171	Dellesta Dr	360-527-1542	
191	Not Indicated	Lake draw	No							Denis McGuire	2355	Northshore Rd	360-933-4297	
192	Single Family	Water System	NA	Water Quality	1				Water System: Agate Heights	Michael Cheng	3360	Opal Terrace		metcheng@yahoo.com
193	Single Family	Water System	NA						Water System: Eagleridge. Already on public water system!					
194	Single Family	Water System	Maybe/D	Water Quality	3	1	2		Water System: Eagleridge	Mark Hoffmann	1761	Aquila Ct	360-756-1367	hoffer1@gmail.com
195	Single Family	Lake draw	Yes	Water Quality		1				F&M Baily	2165	Dellesta Dr	306(7)-647-08	fbaily@bngm.com
196	Single Family	Water System	Maybe/D	Fire/Safety, Reliability, Wat	1	2	3		Water System: North Shore Ridge	Robert Olkarszewski	3075	E. 21st Place	360-738-3422	roco@openaccess.org
197	Single Family	Lake draw	No							Marvin Marston	1729	Edgewater Ln	360-734-8143	mmarston8143@msn.com
198	Single Family	Lake draw	Maybe/D	Reliability, Water Quality	1		2							
199	Single Family	Water System	Yes	Fire/Safety, Reliability, Wat	1	2	3		Water System: Dellesta Water Association	Craig & Lydia Coope	2141	Dellesta Dr	360-738-1786	c_e_c@comcast.net/clcoo
200	Vacant	No Response	No						Extending water systems would cause more development in the watershed, further degrading the water quality of Lake Whatcom. We are opposed to this water system plan. Please protect our lake.	Joan Van Gasken	5630	East Rd	398-0331	
201	Vacant	Other: None	Yes	Fire/Safety, Reliability, Wat	1				I am highly in favor. My property has room for a well, but currently there is a moratorium on new wells.	Ray Bowen	17729	13th NW	206-660-7546	rabo@triplecorp.com
202	Single Family	Shared Well	Maybe/D	Reliability, Water Quality,			1		Dependent upon whether we will be granted legal access for withdrawals from our shared well if we pursue a building permit. As it stands, now following Hirst v. Whatcom County, permitted access/withdrawals are barred. Thank you for your time!	Stephanie Manzo	1811	Eldridge Ave	607-742-5698	stephanieannmanzo@gmail.com
203	Single Family	Lake draw	Yes	Fire/Safety, Reliability	1		2		Vacation house, occupied part time.	R.A. Brocklebank	2163	Dellesta Dr	738-8030/604	brocklebank@shaw.ca

ID	Current Use	Water Source	Connect t	Motivation?	Overall	Pay Fe	Water	Other	Notes	Name	address	Address Street	Phone	email
204	Single Family	Shared Well	Maybe/D	Reliability, Water Quality,	1		2		Cost is everything. I would not spend even \$5,000 to then pay \$100/month for water I get out of my well for \$15.	Jason Sims	3100	Edgewood Ln	360-739-3353	simsjason@comcast.net
205	Single Family	Lake draw	Maybe/D	Fire/Safety, Reliability, Wat	1	3	2	4	How limited will water usage be?	Doug Bixel/Bixel Fa	2060	Dellesta Dr	360-734-0694	bixel9@comcast.net
206	Single Family	Lake draw	No						This duplicates our response submitted at the 6/20 meeting. Customers responding at both the meeting and now to this mailed survey could well distort your survey results. Beware of invalid conclusions!	Brent Walker	3141	Agate Bay Ln	360-676-5575	brentw@cbwholesale.com
207	Single Family	Lake draw	No		1	2			Water System: LWWSD. Depends on if there are advantages. Current service is fine.	Jim Kaemingk	2149	Northshore Rd	360-224-5465	jim@jimk.net
208	Single Family	Water System	Maybe/D	Water Quality	1					Walter Michelutti	2316	Agate Heights Ln		
209	Single Family	Water System	Maybe/D				1							
210	Single Family	Well/Lake draw	Yes	Reliability, Water Quality	1		1			William & Cynthia H	3078	Northshore Rd		
211	Vacant	Other: NA	No						Three households share this lot. It is too small to build on. We each wanted to have more space.	William & Cynthia H	3078	Northshore Rd		
213	Single Family	Shared Well	Yes	Reliability, Water Quality,	1	2	3			Address				
214	Single Family	Lake draw	Yes	Fire/Safety, Reliability, Wat	2	3	1	4	Ability to continue drawing water from lake for landscaping, etc.	Jack Westford	1837	Northshore Rd	360-733-5858	nwestford@gmail.com
215	Single Family	Well/Lake draw	Yes	Reliability, Water Quality	1	3	2		I think a sewer line should be put in as well if feasible. Name withheld-I don't trust the county's intentions.					
216	Vacant	Other: No sourc	Yes	Fire/Safety, Reliability	1			2	Immediacy. We support this water system expansion.	M.J. Cudmore	6651	Tideview Rd, Sooke, BC,	250-532-2921	mj.c.tideview@icloud.com
217	Single Family	Well	Maybe/D							J M Stoane	2369	Northshore Rd	360-739-4793	jrnstoane@gmail.com
218	Single Family	Shared Well	Maybe/D	Other	1	2			Power loss/ Well no water; better constant pressure. Do not want to be forced to hook-up if costs are too high when I have a good shared well. Power outages here make things difficult!	Chris Quinlan	2659	Northshore Rd	360-305-0986	cquinlan620@aol.com
219	Single Family	Lake draw	Yes	Reliability, Water Quality	1	2	3			Richard and Silvia H	2433	Northshore Rd	360-650-8214	rickh@briardevelopment.c
220	Single Family	Shared Well	No							Nicole Walker	2865	Lazer Lane		tom@m-h-n-t.com
221	Vacant	Shared Well	Maybe/D	Reliability	1	3	2	4	Quality of water	Nicole Walker	vacant	Lazer Lane		tom@m-h-n-t.com
222	Single Family	Lake draw	No											
223	Single Family	Shared Well	No											
224	Single Family	Eagleridge	Maybe/D	Other, Water Quality	4	3	1	2	Cost; Water Quality	Mike Verccammen	3210	Eagleridge Way	360-647-3881	mverccammen@aol.com

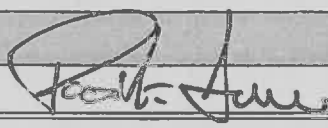
ID	Current Use	Water Source	Connect	Motivation?	Overall	Pay	Fe	Water	Other	Notes	Name	address	Address Street	Phone	email
225	Single Family	Well	Maybe/D	Reliability	1	4	2	3		Option to connect at future date at my discretion. My private well is clean, reliable and easy to maintain. I have a very long driveway and I am very wary of any connection costs and logistics.	Mark Mikols	15931 SE 41st Place, Bellevue,	425-786-7797	mikolsma@mac.com	
226	Vacant	Other	Maybe/D	Other	2	3	1			no water / access to water					
227	Single Family	Lake draw	No							I have a perfectly adequate water system including filters and UV sterilizer. It was expensive but it works well. I certainly don't need another expensive system!!	Kenneth Kloehn, M	2151 Dellesta Dr	360-733-1048	kenklo@comcast.net	
228	Vacant	Other	Maybe/D	Other	1	2				Source: to be determined when property is developed; cost	Fred & Jackie's Tho	4222 78th Ave SW	360-920-5055	fredjacke@hotmail.com	
229	Single Family	Lake draw	No												
230	Other	Water System	Yes	Fire/Safety, Reliability	1	2				Commercial-restaurant; Russell Group A	Gina Russell	2530 Northshore Rd	360-733-1126	info@theforkatagababay.c	
231	Single Family	Lake draw	No								Lori G. Bockwoldt	2595 Northshore Rd	360-733-7179	lbockwoldt@hotmail.com	
232	Single Family	Lake draw	Maybe/D	Reliability	1	3	2				Mike and Jane Cost	3024 Northshore Rd	360-734-2687		
233	Single Family	Lake draw	No								Mike and Jane Cost	3036 Northshore Rd	360-734-2687		
234	Single Family	Well	No								John Bateman	2345 Northshore Rd	604-531-0753;	pentab@shaw.ca	
235	Single Family	Lake draw	Yes	Reliability, Water Quality	2	3	4	1		if it's really good water, free of salts, minerals.					
236	Single Family	Water System	Maybe/D		2				1	Agate Bay Mobile Estates; This is a decision for the owner of the Park. As a resident of the park I can say we already have very good water in all respects. Costs to Owner of mobile park which may be passed on to residents of the park.	David Kellogg	151 Koons Ave, Medina OH	330-242-7769	tsrpq1dk@gmail.com	
237	Single Family	Lake draw	Yes	Fire/Safety, Reliability, Wat	1						William P Griggs	2160 Dellesta Dr	360-305-7918	wprgriggs@comcast.net	
238	Single Family	Well	Maybe/D	Reliability, Water Quality,	1	2	3			Cost	Kristi Pflueger	2036 Northshore Rd	360-671-1771	kmpflueger@hotmail.com	
239	Single Family	Lake draw	No								Michael Smith	2117 Northshore Rd	360-393-8050	wasmith@hotmail.com	
240	Single Family	Lake draw	No								Tiffany Smith				
241	Single Family	Well	Yes	Water Quality	2	2					Don Mason	3269 Northshore Rd	206-409-6180	don@domotomason.com	
242	Single Family	Lake draw	Maybe/D	Reliability	1	2					Jay Bornstein	3149 Agate Bay Lane		jay@bornstein.com	
243	Other	Water System	Maybe/D	Water Quality	2				1	25 space Manufactured Home Park. Would I be paying for 1 connection? My main distribution line to the new system? Or 25x the connection fee? Same question with the monthly fees - how do those work for my application?	Derek Watt (2516 N	PO Box Bellingham, 98227	360-393-2671	derek@viewgreen.com	
244	Single Family	Shared Well	No								Lisa Rippon	3338 Sunny Cove Ct	206-786-0334	treysmoms@gmail.com	

ID	CurrentUse	WaterSource	Connect t	Motivation?	Overall	Pay	Fe	Water	Other	Notes	Name	address	Address Street	Phone	email
245	Single Family	Shared Well	Yes	Other, Reliability	1	3	2	4		Usage of existing well w/o costs involved. Be able to use existing well for irrigation and water rts and usage. Overall cost would be big decision maker.					
246	Single Family	Lake draw	Maybe/D		1	1	1	1		Costs - now and future	Maggie Craig	2629	Northshore Rd	505-715-1619	houraday@gmail.com
247	Single Family	Well	Maybe/D	Fire/Safety, Water Quality	1	1	2				Carl Mattson	2102	Northshore Rd	360-671-9662	Carls_construction@hotmail.com
248	Vacant	Shared Well	Yes	Reliability				1		Resale of Property	Michael E Gerritson	CMR 46	APO, A(?) 09096		
249	Single Family	Lake draw	Maybe/D	Reliability				1		Water quality and taste	Courtney McBean	2050	Dellesta Dr		courtneymcbean@gmail.com
250	Single Family	Lake draw	Yes	Fire/Safety, Reliability, Wat	3	2	4	1		Clean, reliable water. Tired of goose shit, clogged intakes. I have a DOE permit to dra, iron-clad. I still would prefer water from a public source.	Jeff Vlasic	3197	Northshore Rd	360-201-6631	jeff@muljatgroup.com
251	Single Family	Lake draw	Maybe/D	Fire/Safety, Water Quality	2		2				John D. Daniels	3117	Agate Bay Lane	360-671-4346	jdaniels@jdcci.com
252	Single Family	Lake draw	Maybe/D	Water Quality	1	3	2				Thomas Leone	2623	Northshore Rd	360-366-8282	duffyleone@gmail.com
253	Single Family	Lake draw	No								Margaret & Paul Lo	2529 Cri	Alameda, CA 94501	360-739-4408	agatebay50@comcast.net
254	Single Family	Well	Yes	Reliability, Water Quality,	3	4	4			We really would love this service.	Cody & Tasha Repp	3162	Edgewood Ln	360-756-8129	crepp70@msn.com



LAKE WHATCOM WATER AND SEWER DISTRICT

AGENDA BILL

DATE SUBMITTED:	August 20, 2017		
TO BOARD OF COMMISSIONERS			
FROM: Debi Denton	MANAGER APPROVAL		
MEETING AGENDA DATE:	August 30, 2017		
AGENDA ITEM NUMBER:	5.E.		
SUBJECT:	Monthly Budget Analysis		
LIST DOCUMENTS PROVIDED ⇨ NUMBER OF PAGES INCLUDING AGENDA BILL:	Monthly Budget Analysis through 7/31/2017		
TYPE OF ACTION REQUESTED	RESOLUTION <input type="checkbox"/>	FORMAL ACTION/ MOTION <input type="checkbox"/>	INFORMATIONAL/ OTHER <input checked="" type="checkbox"/>

BACKGROUND / EXPLANATION OF IMPACT

Information only

FISCAL IMPACT

n/a

RECOMMENDED BOARD ACTION

n/a

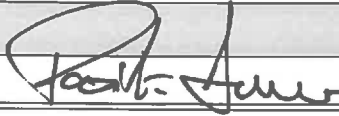
PROPOSED MOTION

n/a



LAKE WHATCOM WATER AND SEWER DISTRICT

AGENDA BILL

DATE SUBMITTED:	August 20, 2017		
TO BOARD OF COMMISSIONERS			
FROM: Debi Denton	MANAGER APPROVAL		
MEETING AGENDA DATE:	August 30, 2017		
AGENDA ITEM NUMBER:	5.E.		
SUBJECT:	Monthly Budget Analysis		
LIST DOCUMENTS PROVIDED ⇒ NUMBER OF PAGES INCLUDING AGENDA BILL:	Monthly Budget Analysis through 7/31/2017		
TYPE OF ACTION REQUESTED	RESOLUTION <input type="checkbox"/>	FORMAL ACTION/ MOTION <input type="checkbox"/>	INFORMATIONAL/ OTHER <input checked="" type="checkbox"/>

BACKGROUND / EXPLANATION OF IMPACT

Information only

FISCAL IMPACT

n/a

RECOMMENDED BOARD ACTION

n/a

PROPOSED MOTION

n/a



LAKE WHATCOM WATER AND SEWER

INVESTMENTS/CASH AS OF 07/31/2017

Cash	\$	967,545	0.40%
LGIP	\$	882,028	0.87%

		PAR VALUE		YIELD
FNMA - ProEquity	Callable 10/2017	\$ 1,000,000	Jul-18	1.00%
FICO - ProEquity	Non-Callable	\$ 440,000	Aug-18	0.91%
FICO - ProEquity	Non-Callable	\$ 375,000	Dec-18	0.90%
FICO - ProEquity	Non-Callable	\$ 250,000	Dec-18	0.90%
FFCB - ProEquity	Callable 10/2017	\$ 500,000	Oct-19	1.44%
FFCB - ProEquity	Callable 8/2017	\$ 750,000	Aug-20	1.10%

US Bank	\$	3,315,000
TOTAL	\$	5,164,573



LAKE WHATCOM WATER AND SEWER FUND SUMMARY 2017

	401	420	425	426	431	440	450	460	
		SYSTEM	SEWER/STORM	WATER	2016 BOND	DWSRF	DEBT	2009 BOND	
		REINVESTMENT	WATER	CONTINGENCY	PROJECTS	PROJECTS	SERVICE	RESERVE	
			CONTINGENCY					(RESTRICTED)	TOTAL
OPERATING	3,626,039	369,207	125,956	-	300,000	404,662	159,048	4,935	4,989,849
2017 REVENUES AND TRANSFERS IN									
2017 EXPENDITURES AND TRANSFERS OUT	(3,132,758)	(368,498)	(227,002)	-	(1,763)	(796,311)	(181,960)	(720)	(4,709,013)
CASH/INVESTMENTS 2016 CARRYOVER	1,980,328	-	878,723	440,000	98,444	661,352	22,990	763,229	4,845,066
MONTH END BALANCE	\$2,473,009	\$708	\$777,679	\$440,000	\$396,681	\$269,703	\$78	\$767,444	\$5,125,902
ALLOCATED TO OPERATING RESERVES	-\$800,000								-\$800,000
	\$1,673,609								\$4,325,902



MONTHLY BUDGET ANALYSIS

Description

**Budget
2017** **YTD
7/31/2017
58%**

OPERATING FUND - 401

REVENUES

401-333-97-00	FEMA Aug 2015 Storm Assistance	-	14,280	
401-343-40-10	Water Sales Metered (8.75% base rate increase) *	2,279,985	1,217,898	53%
401-343-41-10	Permits Operation portion (10 new connection permits)	30,000	10,921	36%
401-343-50-11	Sewer Service Residential (2.5% rate increase) *	3,844,032	2,252,966	59%
401-343-50-19	Sewer Service Other	5,000	1,964	39%
401-343-81-10	Combined Fees	30,000	14,392	48%
401-359-90-00	Late fees	50,000	32,143	64%
401-361-11-00	Investment Interest	1,500	7,102	473%
401-361-40-00-80	ULID #18 Interest	15,000	17,090	114%
401-368-10-00-80	ULID #18 Principal	40,000	54,652	137%
401-369-10-00	Sale of scrap metal and surplus	2,500	223	9%
401-369-10-01	Miscellaneous	-	2,408	
	TOTAL REVENUES	6,298,017	3,626,039	58%

* Per Resolution 820 effective 11/9/2015
Scheduled annual rate increase

	Description	Budget	YTD
	MONTHLY BUDGET ANALYSIS	2017	7/31/2017
OPERATING FUND - 401			58%
EXPENDITURES			
401-53X-10-10	Admin Payroll (2.4% cola plus step increases - 2017)	639,252	367,173
401-53X-10-20	Admin Personnel Benefits (Medical, Retirement etc)	269,830	141,248
401-53X-10-31	Gen Admin Supplies	25,000	13,727
401-53X-10-31-01	Meetings/Team building	1,500	1,703
401-53X-10-40	Web pay/Bank Fees (WA Fed; Xpress, Chase)	20,000	17,495
	Interlocal - Lake Whatcom Management Program 5,000		
	Interlocal - Invasive Species 50,000		
	Interlocal - Lake Whatcom Tributary Monitor 10,000		
401-534-10-41-00	Water Quality Assurance Programs (TOTAL)	65,000	5,316
	County Auditor Filing Fees (Simplifile)	4,500	
	Data Bar (Statement processing)	21,000	
	Answering Service	1,700	
	Data Pro (Time clock system)	1,500	
	BIAS Financial Software	20,000	
	Web Check services	5,000	
	WA State Auditor	22,000	
	CPA (Internal audit and Financial statements)	6,000	
	Docuware/Web site maintenance and upgrade	5,000	
	Legal Counsel	60,000	
	3D - Computer support	20,000	
	Watchguard	1,000	
	Building security	1,500	
	Building custodial	7,700	
	Pest control	600	
	Landscaping service	5,500	
	South Whatcom Fire (hydrant maintenance)	2,000	
	GE Scada System Software Maintenance - Operations	7,500	
	Wilson Engineering	7,000	
	Camera Van Software	1,500	
	SCADA/PLC Support - Engineering/Operations	5,000	
	Cartograph - Engineering/Operations	8,000	
	Auto Desk (DLT) - Engineering	1,000	
	GIS Partnership	1,000	
	Rockwell - Engineering/Operations	500	
	IT Pipes	1,500	
	ESRI - ARC GIS	1,500	
	Innovyze - Engineering	2,500	
	Master Meter	2,000	
	Generator Load Testing	22,000	
	Cyberlock software	1,000	
	Whatcom Co Emergency Management	20,000	
	Misc (Bid notices etc.)	3,000	
401-53X-10-41-01	Professional Services (TOTAL)	270,000	227,160
401-53X-10-42	Communication	50,000	30,669
401-53X-10-45	Admin Lease	2,000	920
401-53X-10-46	Property Insurance	138,000	-
401-53X-10-49	Admin Misc.	1,000	857
401-53X-10-49-01	Memberships/Dues	15,000	13,878
401-53X-10-49-02	WA State Dept of Revenue Taxes/Permits	208,000	108,509
401-53X-40-43	Training & Travel	35,000	14,407
401-53X-40-43-01	Tuition reimbursement	1,000	-
401-53X-50-31	Maintenance Supplies	180,000	86,204
401-53X-50-48	Operations Repair/Maint	130,000	133,433
401-53X-50-49	Insurance Claims	5,000	-
401-53X-60-41	Operations Contracted	9,000	2,612
401-534-80-47	Water City of Bellingham	40,000	21,083
401-535-60-47	Sewer City of Bellingham Treatment Fee	615,000	416,580
401-53X-80-10	Operations Payroll (2.4% cola plus step increases - 2017)	951,544	529,252
401-53X-80-20	Operations Personnel Benefits (Medical, Retirement etc)	414,930	230,797
401-53X-80-32	Fuel	20,000	13,019
401-53X-80-35	Safety Supplies	10,000	6,607
401-53X-80-35-01	Safety Supplies Boots	2,500	352
401-53X-80-35-02	Emergency Preparedness	10,000	
401-53X-80-47	General Utilities	208,000	129,272
401-53X-80-49	Laundry	4,000	2,350

	Description	Budget	YTD
	MONTHLY BUDGET ANALYSIS	2017	7/31/2017
	OPERATING EXPENDITURES	4,340,556	2,514,623
TRANSFERS	Transfers Out to System Reinvestment Fund 420	1,598,000	338,087
	Transfers Out to Sewer Contingency Reserve Fund 425	100,000	121,000
	Transfers Out to 2009 Bond Debt Service Fund 450	890,172	159,048
	TOTAL EXPENDITURES	6,928,728	3,132,758
OPERATING FUND	OPERATING REVENUES	6,298,017	3,626,039
	EXPENDITURES	(6,928,728)	(3,132,758)
	CASH/INVESTMENTS BALANCE CARRYOVER	1,750,000	1,980,328
	RATE STABILIZATION RESERVES	(800,000)	(800,000)
	CASH/INVESTMENTS BALANCE	319,289	1,673,609

	Description	Budget 2017	YTD 7/31/2017
MONTHLY BUDGET ANALYSIS			
SYSTEM REINVESTMENT FUND - 420			
420-333-66-00-00	North Shore Consolidatoin Feasibility Study		12,418
420-343-40-19-21	DEA Permits	-	16,366
420-343-40-19-22	DEA Permits		-
420-343-41-20-00	Permits Capital Portion (10 new connection permits)	70,000	2,336
420-343-50-20-00	Latecomer Fees	-	-
420-397-10-00-01	Transfers In from Operating Fund 401	1,598,000	338,087
	TOTAL REVENUES	1,668,000	369,207
420-534-10-41-21	DEA 16-01		834
	Active Projects to be completed in 2017	777,500	
	C13-06 Sewer Air Vac Valve Replacement		966
	C 14-07 Lowe Sewer PS VFD	3,450	-
	C 15-04 Reservoir Site Security	5,000	1,863
	C15-06B Whatcom Falls Manhole Repair	17,350	250
	C16-03 Marina-Tomb Stationary Generator	6,785	1,232
	C 16-05 Water System Plan Update	100,000	65,883
	C 16-06 Replace SCADA Hardware	2,670	
	C 16-10 Little Strawberry Water Leak on bridge	10,000	
	C 16-11 Country Club Sewer Pump Station	632,245	13,309
	New 2017 Capital Projects (see CIP detail - 2017)	890,500	
	C 17-01 Tool truck	65,000	45,685
	C 17-02 Admin staff vehicle	26,000	25,231
	C 17-03 Locator/Meter reading van	28,000	
	C 17-04 New Admin Server	15,000	
	C 17-05 Geneva Pump Station pre-design and permits	100,000	39,829
	C 17-05 Geneva Pump Station deisgn and bidding	100,000	20,046
	Par Pump Station pre-design and permits	100,000	
	Par Pump Station design and bidding	100,000	
	C 17-06 Strawberry Canyon Back up Generator	20,000	17,199
	C 17-07 Beaver and Flat Car Level Transmitter Replacement	50,000	
	C 17-08 Install Ball Check Valves	10,000	7,670
	C 17-09 CMOM	25,000	
	C 17-10 Eagleridge Fire Pump Control Upgrade - Scope and estimate	5,000	
	C 17-10 Eagleridge Fire Pump Control Upgrade Construction	35,000	
	C 17-11 Replace SVWTP Booster Station Roof	30,000	12,898
	C 17-12 Mechanical Staff gauge for SVWTP Clearwell	4,000	1,498
	C 17-13 Eagleridge Booster station controls	50,000	
	C 17-14 SVWTP Floor coating	5,000	12,732
	C 17-15 SVWTP pumps and turbidimeter	7,500	1,180
	C 17-16 Water System rehab and replacement projects	40,000	5,822
	Water meter replacements	110,000	94,372
	TOTAL EXPENDITURES	1,668,000	368,499
SYSTEM REINVESTMENT FUND	REVENUES	1,668,000	369,207
	EXPENDITURES	(1,668,000)	(368,499)
	CASH/INVESTMENTS BALANCE CARRYOVER	-	-
	CASH/INVESTMENTS BALANCE	-	708

	Description	Budget	YTD
MONTHLY BUDGET ANALYSIS		2017	7/31/2017
SEWER/STORM WATER CONTINGENCY FUND - 425			
425-361-11-00	Investment Interest	3,750	4,958
425-397-10-00	Transfers In from Operating Fund 401	100,000	121,000
		-	
	TOTAL REVENUES	103,750	125,958
425-535-10-42	Investment Service Charges	200	142
425-594-38-63			
	C 16-07 North Shore Sampling	75,000	64,950
	C 16-12 Cedar Hills Storm Drain Relocate (Wilson Eng)	135,000	161,910
	TOTAL EXPENDITURES	210,200	227,002
SEWER/STORM WATER CONTINGENCY FUND	REVENUES	103,750	125,958
	EXPENDITURES	(210,200)	(227,002)
	CASH/INVESTMENTS BALANCE CARRYOVER	887,000	878,723
	CASH/INVESTMENTS BALANCE (CAPITAL RESERVES SEWER)	780,550	777,679
WATER CONTINGENCY FUND - 426			
426-361-11-00	Investment Interest	2,500	
	TOTAL REVENUES	2,500	-
426-594-38-64	Machinery/Equipment		
	TOTAL EXPENDITURES	-	-
WATER CONTINGENCY FUND	REVENUES	2,500	-
	EXPENDITURES	-	-
	CASH/INVESTMENTS BALANCE CARRYOVER	440,000	440,000
	CASH/INVESTMENTS BALANCE (CAPITAL RESERVES WATER)	442,500	440,000

	Description	Budget 2017	YTD 7/31/2017
MONTHLY BUDGET ANALYSIS			
2016 CAPITAL BOND PROJECTS FUND - 431 RESTRICTED			
	Transfers In from Fund 440		300,000
	TOTAL REVENUES	-	300,000
431-594-38-63	Strawberry Point Pump Station C14-05	156,923	1,763
	TOTAL EXPENDITURES	156,923	1,763
CAPITAL BOND PROJECTS FUND	REVENUES	-	300,000
	EXPENDITURES	(156,923)	(1,763)
	CASH/INVESTMENTS BALANCE CARRYOVER	156,923	98,444
	CASH/INVESTMENTS BALANCE	-	396,681
DWSRF PROJECTS FUND - 440			
440-391-70-46-41	Geneva AC Mains	-	
440-391-70-46-42	Division 22 Reservoir	229,950	404,662
440-397-10-41	Transfers In from Operating Fund 401	-	
	TOTAL REVENUES	229,950	404,662
440-584-34-62-40	Division 22 Reservoir	1,058,100	496,311
440-584-34-62-41	Geneva AC Mains		
	Transfers Out to Fund 431		300,000
	TOTAL EXPENDITURES	1,058,100	796,311
DWSRF PROJECTS FUND	REVENUES	229,950	404,662
	EXPENDITURES	(1,058,100)	(796,311)
	CASH/INVESTMENTS BALANCE CARRYOVER	828,150	661,352
	CASH/INVESTMENTS BALANCE	-	269,703
Expenditures offset by draws as projects progress.			

	Description	Budget	YTD
	MONTHLY BUDGET ANALYSIS	2017	7/31/2017
DEBT SERVICE FUND - 450			
450-397-10-00	Transfers In from Operating Fund 401	890,172	159,048
	TOTAL REVENUES	890,172	159,048
450-535-10-41-50	Bond Admin Fee	100	
450-591-34-77-41	Principal Geneva AC Mains	43,023	
450-591-34-77-42	Principal Div 22 Reservoir	119,937	
450-591-34-77-73	Principal Loan 064	47,252	47,252
450-591-35-72-50	Principal Bond 2009	265,000	
450-591-35-72-51	Principal Bond 2016	125,000	
450-592-34-83-41	Interest Geneva AC Mains	14,923	
450-592-34-83-42	Interest Div 22 Reservoir	34,182	
450-592-34-83-73	Interest Loan 064	5,870	5,670
450-592-35-83-50	Interest Bond 2009	30,900	15,450
450-592-35-83-51	Interest Bond 2016	227,175	113,588
	TOTAL EXPENDITURES	913,162	181,960
DEBT SERVICE FUND	REVENUES	890,172	159,048
	EXPENDITURES	(913,162)	(181,960)
	CASH/INVESTMENTS BALANCE CARRYOVER	22,990	22,990
	CASH/INVESTMENTS BALANCE	-	78
BONDS RESERVE FUND - 460			
RESTRICTED			
460-361-11-00	Investment Interest	3,850	4,935
	TOTAL REVENUES	3,850	4,935
460-535-10-41	Investment Service Charges	200	720
	TOTAL EXPENDITURES	200	720
BONDS RESERVE FUND (RESTRICTED)	REVENUES	3,850	4,935
	EXPENDITURES	(200)	(720)
	CASH/INVESTMENTS BALANCE CARRYOVER	773,200	763,229
	CASH/INVESTMENTS BALANCE	776,850	767,444



LAKE WHATCOM WATER AND SEWER DISTRICT

AGENDA BILL

DATE SUBMITTED:	August 23, 2017		
TO BOARD OF COMMISSIONERS			
FROM: Bill Hunter and Staff	MANAGER APPROVAL _____		
MEETING AGENDA DATE:	August 30, 2017		
AGENDA ITEM NUMBER:	5.F.		
SUBJECT:	Summary of Existing District Projects		
LIST DOCUMENTS PROVIDED ⇒ NUMBER OF PAGES INCLUDING AGENDA BILL: _____	1. August 2017 Summary of Existing District Projects		
	2.		
	3.		
TYPE OF ACTION REQUESTED	RESOLUTION <input type="checkbox"/>	FORMAL ACTION/ MOTION <input type="checkbox"/>	INFORMATIONAL/ OTHER <input checked="" type="checkbox"/>

BACKGROUND / EXPLANATION OF IMPACT

Staff presentation of Summary of Existing District Projects and priorities.

FISCAL IMPACT

Not applicable at this time.

RECOMMENDED BOARD ACTION

Review and discuss

PROPOSED MOTION

Not applicable at this time.



LAKE WHATCOM WATER AND SEWER DISTRICT

AGENDA BILL

DATE SUBMITTED:	August 23, 2017		
TO BOARD OF COMMISSIONERS			
FROM: Bill Hunter and Staff	MANAGER APPROVAL _____		
MEETING AGENDA DATE:	August 30, 2017		
AGENDA ITEM NUMBER:	5.F.		
SUBJECT:	Summary of Existing District Projects		
LIST DOCUMENTS PROVIDED ⇒	1. August 2017 Summary of Existing District Projects		
NUMBER OF PAGES	2.		
INCLUDING AGENDA BILL:	3.		
TYPE OF ACTION REQUESTED	RESOLUTION <input type="checkbox"/>	FORMAL ACTION/ MOTION <input type="checkbox"/>	INFORMATIONAL/ OTHER <input checked="" type="checkbox"/>

BACKGROUND / EXPLANATION OF IMPACT

Staff presentation of Summary of Existing District Projects and priorities.

FISCAL IMPACT

Not applicable at this time.

RECOMMENDED BOARD ACTION

Review and discuss

PROPOSED MOTION

Not applicable at this time.



LAKE WHATCOM WATER AND SEWER DISTRICT

AGENDA BILL

DATE SUBMITTED:	August 23, 2017		
TO BOARD OF COMMISSIONERS			
FROM: Patrick Sorensen	MANAGER APPROVAL <i>Patrick Sorensen</i>		
MEETING AGENDA DATE:	August 30, 2017		
AGENDA ITEM NUMBER:	7.0		
SUBJECT:	Manager's Report		
LIST DOCUMENTS PROVIDED ⇨ NUMBER OF PAGES INCLUDING AGENDA BILL: _____	1. Manager's Report		
	2.		
	3.		
TYPE OF ACTION REQUESTED	RESOLUTION <input type="checkbox"/>	FORMAL ACTION/ MOTION <input type="checkbox"/>	INFORMATIONAL/ OTHER <input checked="" type="checkbox"/>

BACKGROUND / EXPLANATION OF IMPACT

Updated information from the General Manager in advance of the Board meeting.

FISCAL IMPACT

None

RECOMMENDED BOARD ACTION

None required.

PROPOSED MOTION

None



LAKE WHATCOM WATER AND SEWER DISTRICT

AGENDA BILL

DATE SUBMITTED:	August 23, 2017		
TO BOARD OF COMMISSIONERS			
FROM: Patrick Sorensen	MANAGER APPROVAL <i>Patrick Sorensen</i>		
MEETING AGENDA DATE:	August 30, 2017		
AGENDA ITEM NUMBER:	7.0		
SUBJECT:	Manager's Report		
LIST DOCUMENTS PROVIDED ⇒ NUMBER OF PAGES INCLUDING AGENDA BILL: _____	1. Manager's Report		
	2.		
	3.		
TYPE OF ACTION REQUESTED	RESOLUTION <input type="checkbox"/>	FORMAL ACTION/ MOTION <input type="checkbox"/>	INFORMATIONAL/ OTHER <input checked="" type="checkbox"/>

BACKGROUND / EXPLANATION OF IMPACT

Updated information from the General Manager in advance of the Board meeting.

FISCAL IMPACT

None

RECOMMENDED BOARD ACTION

None required.

PROPOSED MOTION

None

General Manager Comments

Wednesday

August 30, 2017

Regular Meeting

8:00 a.m.

Important Upcoming Dates:

- **Meetings Associated with the Lake Whatcom Management Program:**
 - **Policy Group Meeting:** Reminder: The next meeting is scheduled for October 16, 2017 at 3:00 p.m. downstairs at the Municipal Court Building in the conference room.
 - **Management Meeting:** There is not a meeting scheduled at this time.

- **Next Regular Board Meeting:** The next regular meeting will be held on **Wednesday, September 13, 2017** at 6:30 p.m.
- **Employee Staff Meeting:** The next staff meeting is set for **Thursday, September 14, 2017 at 8:00 a.m.** in the Board Room. Commissioner Carter is scheduled to attend this meeting.
- **Employee Safety Committee Meeting:** The next meeting is set for **September 14, 2017 at 9:00 a.m.** in the small conference room.
- **Washington Association of Sewer & Water Districts (WASWD) Section III Meeting:** The next Section III meeting will be held at WASWD Fall Conference at the Wenatchee Convention Center on **September 28, 2017** at 7:00 a.m. The location will be posted at the Convention Center.
- **Whatcom Water District's Caucus Meeting:** The next Caucus meeting is set for **September 20, 2017** at 1:00 p.m. in the Board Room.

Other:

- **Committee Meeting Reports as Needed:** This is a place holder for Board and staff members to report on recent committee meetings, such as the Lake Whatcom Policy Group, since the last Board Meeting.
- **Date of Fall 2017 WASWD Conference:** Reminder, the Fall Conference will be September 27 - 29 in Wenatchee. The conference ends on Friday at noon.

- **Upcoming Important Agenda Topics:**

- The N.S. Water Quality (Herrera) report is tentatively scheduled to be presented at the City & County Data Meeting.
- Time is scheduled to discuss the Herrera Report at the September 26 meeting.
- The Herrera Report is tentatively scheduled to be discussed at the October 16 L.W. Policy Group Meeting.
- A Special Meeting Workshop is set up for November 15 to address legal issues associated with N.S. Shore water issues.

- **Out of Area & Meeting Changes Reminder:**

- Commissioner Ford will be missing the August 30 meeting.
- The General Manager will be missing the September 13 Board meeting. I am going to be at an Insurance Pool related conference in California from September 12 through the 15th. In addition I will be taking a few days off on vacation returning to the office on the 20th.
- The September 27, 8:00 a.m. meeting was moved to the 26th at 8:00 a.m. The 27th conflicts with the Fall WASWD Water & Sewer Conference.
- Commissioner Carter will not be available for the September 26 meeting.
- Please remember to notify staff and the rest of the Board of any anticipated Board meeting absences through the rest of 2017.