



Anacortes City Council
Municipal Building Council Chambers
904 6th Street

March 12, 2018
6:00 p.m.

*** REVISED * PRELIMINARY AGENDA**

1. **Call to Order**
2. **Pledge of Allegiance**
3. **Announcements and Committee Reports**
 - a. Oath of Office: Police Officer Robert J. Faber
 - b. Port/City Liaison Committee
 - c. Planning Committee
4. **Public Comment**
5. **Consent Agenda (Action)**
 - a. Minutes of March 5, 2018
 - b. Approval of Claims in the amount of: \$\$599,704.06
6. **Public Hearings**
7. **Other Business**
 - a. * Washington Park Update (Discussion)
 - b. * Municipal Broadband Update (Discussion)
 - c. Contract Award: WWTP Air Emission Testing Services 18-041-SEW-001 (Action)
8. **Adjournment**

Per Resolution 1949, citizens wishing to comment on items not on the agenda may do so under the Public Comment portion of the agenda. Citizens wishing to comment on agenda items indicated with an asterisk () may do so as those items are considered by Council during the course of the meeting. Citizens wishing to speak will please sign in at the back of the Council Chambers prior to the start of the meeting. The Mayor may limit comments to those who have signed in, and may limit the time allotted to each speaker to facilitate the orderly progress of the meeting.*

The City of Anacortes encourages people with disabilities to participate in public meetings.
For assistance with special needs, please contact Cherri Kahns at 360-299-1950 at least 48 hours prior to this meeting.



Anacortes City Council

Proposed Agenda Items for the Next Eight Weeks Beginning March 19, 2018

Subjects listed below have been tentatively suggested for consideration by the Anacortes City Council on the dates indicated. Items may be added to, removed from or rearranged on this list. Routine business such as approval of minutes and vouchers are not included. The complete Preliminary Agenda for each meeting is published at 3:00 on the Wednesday prior to the meeting. Published Agendas are subject to change and may be updated following the posting period. For additional information on agenda topics, please contact the City Clerk's office at 360-299-1960 to be directed to the sponsoring staff member.

March 19, 2018

- Contract Award: Alum Treatment of Heart Lake
- Street Fair Application - Waterfront Festival & Car Show
- Confirmation of Appointment of Library Director Ruth Barefoot (Discussion/Possible Action)
- Internet Service Provider Update (Discussion)
- Agricultural Irrigation Water (Discussion)

March 26, 2018

- 2019/2020 Budget Kickoff: Departmental Goals and Objectives for the Upcoming Biennium (Discussion)

April 2, 2018

- 2018-2022 CDBG - Five Year Consolidated Plan and One Year Action Plan Public Process Conclusion (Discussion)
- Public Works Quarterly Update (Discussion)
- Operations Building Electrical Upgrades (Action)
- NoaNet Contract Modification (Action)

April 9, 2018

- 2019/2020 Budget Kickoff: Departmental Goals and Objectives for the Upcoming Biennium - Continued from March 26 (Discussion)

April 16, 2018

- Pavement Management Program Update

April 23, 2018

May 7, 2018

May 14, 2018

- Closed Record Decision Hearing, "A" Dock Replacement & Reconfiguration, Shoreline Substantial Development Permit, Port of Anacortes, SDP-2018-0002

Upcoming City Council Committee Meetings

The public is welcome to attend City Council Committee Meetings.

- Planning, Monday, Mar 12, 2018, 5:00 PM, Main Conference Room, City Hall
- Finance, Wednesday, Mar 14, 2018, 5:00 PM, Main Conference Room, City Hall
- Skagit County Law & Justice Council, Wednesday, Mar 14, 2018, 8:15 AM, Sheriff's Dept. Training
- Public Works, Monday, Mar 19, 2018, 5:00 PM, Public Works Director's Office, City Hall
- Planning, Monday, Mar 26, 2018, 5:00 PM, Main Conference Room, City Hall
- Finance, Wednesday, Mar 28, 2018, 5:00 PM, Main Conference Room, City Hall
- Public Works, Monday, Apr 2, 2018, 5:00 PM, Public Works Director's Office, City Hall

Olson Building at 3rd Street & Commercial Avenue and Olson Family at 1112 5th Street Timeline

1882 – Alfred Olson arrives in the United States from his native district of Gilberg Wermland, Sweden according to his 1924 obit, arriving at the Pacific Coast by 1888.

1889 – Alfred Olson in Seattle at the time of the Great Seattle Fire of 1889, according to his 1924 obit.



1892 – Alfred Olson lived in La Conner from 1892 to 1894, according to his 1924 obit.

1895 – Alfred Olson moves to Anacortes, according to his 1924 obit.



Anacortes waterfront c1890s from 4th Street to Guemes Channel

1900 – Anna Colby arrives in Anacortes from Vermland, Sweden and marries Alfred Olson at about this time, according to her 1960 obit.

1900 – Alfred Olson purchases south half of Olson Block site from D.L. Ruffin. (National Register Nomination Form)

1902 - Polk's Skagit County Directory 1902 lists Alfred Olson as the proprietor of the Taylor Bar (located in the Taylor Hotel at "P Ave & 1st St") and also the Skagit Club at P Avenue (now Commercial) and 3rd Street.

1902, August 6 – A fire destroys most of the wooden 1890s buildings fronting the west side of Commercial Avenue's 200 block, according to the Anacortes American's August 7th newspaper.

The fire of Wednesday night was, by far, the biggest that has ever visited Anacortes. At about 8 o'clock in the evening, as the people were flocking toward the G. A. R. encampment grounds, the alarm of fire rang on the air, and in less time than it takes to tell it, a great crowd had gathered about the scene. Everything was consternation, and for some time it appeared as though the entire business portion of the city might go. There was not a breath of air stirring, which accounts for no further damage.

mystery surrounds the origin of

gram.

Are All Rebuilding.

The place of last week's fire is now a scene of activity. The remains of the buildings that had occupied the site are rapidly being removed, and it will be but a few weeks before the change is complete.

Alfred Olson has begun his foundation, and Louis Foss' new building, which is being erected by Barnett & Dilling, is already under way. Anton Mortenson is putting up his blacksmith shop west of its former location.

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This is likely the north end of the half-sized, one-story Olson building constructed in 1902

1903 – “Delmonico Oyster House is the name of Zack Benn’s new restaurant opened January 1 in Alfred Olson’s new brick building at the corner of Commercial avenue and Third street.” (Anacortes American). This was a one story structure in the southern section of the current Olson Building, which was expanded in 1907.

Delmonico Oyster House

ZACK BENN, Proprietor.

**Meals at All Hours. Open Day
and Night.**

**Corner Third and Commercial Avenue.
ANACORTES, WASH.**

Anacortes American advertisement, 1903

1905 - Polk's Skagit County Directory 1905 lists Alfred Olson as the proprietor of a saloon at "Commercial Av nw cor 3rd"

1906 – South half of the north half of the Olson Block property was purchased by Olson from J. F. Liggett. Olson never acquired title to the north 25 feet of the building site. Demopoulos finally did in 1976. (National Register Nomination Form) This portion may have been retained by "Grab" Whimsett, listed as a partner in the building in a news article in 1907. Whimsett was the proprietor of the State Bar at this location, which later was the site of Skipper's Tavern through mid-century.

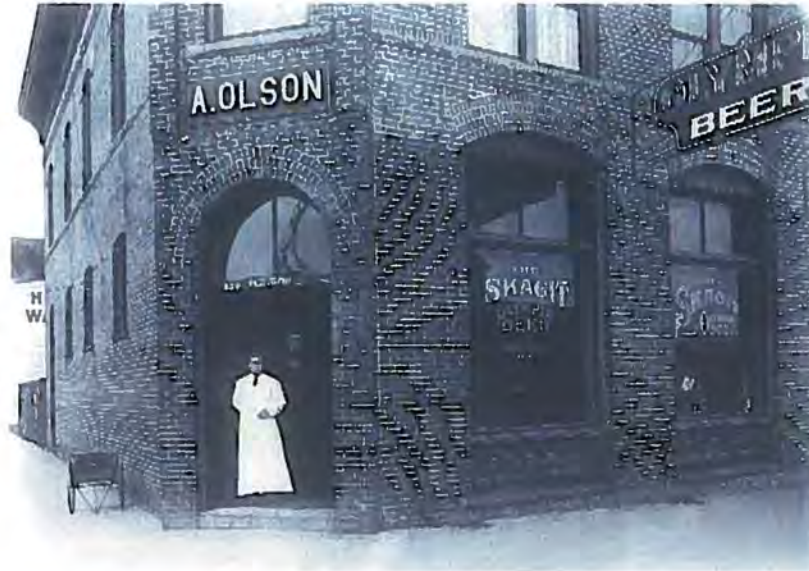
1907 - A photograph of the Alfred Olson residence on 5th Street was published in the Anacortes American.

1907 - Alfred Olson had the Olson Building constructed in 1907 at the NW corner of 3rd Street and Commercial Avenue: "Workmen are busy on the construction of ... the new business block of Olson and Whimsett." - Anacortes American, June 27, 1907



The State Bar conducted business at the north end of the expanded Olson Building, run by F. A. "Grab" Whimsett, hence "Grabs Place" is painted on the windows of the front doors.

1910 – Census shows the Olson family residing on 5th Street: Alfred, age 50; wife Anna Marie, age 37; daughter Alfil, age 9; son Alfred, age 7; son Harold, age 3; daughter Ellen, age 10 months. The adults are listed as born in Sweden and the children in Washington.



1912 – Coleman Queen operates the saloon at the corner of Commercial and 3rd according to the Polk's Directory. Alfred Olson is not listed as associated with a business in his personal listing, so perhaps was making a living as a landlord for the Olson Block.

1912 - Polk's Skagit County Directory 1912 lists Alfred and Anna Olson at 1112 5th Street.

1916 - Washington State prohibits manufacture and sale of liquor: "Any saloons that had weathered Local Option (liquor prohibition in 1909) closed as of midnight on December 31, 1915. The only legal drinking from this point was via imported liquor that had been manufactured out of state -- the law allowed individuals with permits to import up to two quarts of hard liquor or 12 quarts of beer every 20 days. Among those without permits (or those who lacked the means to prepay and ship alcohol), illegal drinking surged, largely via illegal sales at soft drink stands and restaurants. Drug stores, where prescription liquor could be obtained, boomed. A 1985 master's thesis comparing the effects of Prohibition on various West Coast cities states that 65 new drug stores opened in Seattle between January and March, 1916." - <http://www.historylink.org/File/9630>



HOME OF ALFRED OLSON
Fifth Street

1916 - On 1-6-1916, the ANACORTES AMERICAN reported, "The old Skagit Bar will blossom forth in a few days as a soft drink dispensary, card room, and fruit and candy store. Later on, pool and billiard tables will be added. The place will be known as The Skagit Home and will be run by Rufus Queen, former

proprietor of the State Bar, and Fred Johnson and Lafe Moore, formerly two popular white-coated boys of the Skagit Bar."

1923 - Alfred Olson is listed in the soft drink business at his former saloon location at the corner of Commercial and 3rd according to the Polk's Directory. Alfred Olson, Jr. is listed as working as a clerk for his father, and residing at the home address of 1112 5th Street, as well as his sister, Alfild, who was employed as an operator at the Puget Sound Telephone Company.

1924 - Alfred Olson died on April 24, 1924.

ANACORTES AMERICAN; THURSDAY, APRIL 24, 1924

**Copies of American
Are Sent Far Afield**

Copies of last week's issue of the Anacortes American went far afield. One copy went to Ed Kack, Rome, Italy; several to Canada, as far east as Toronto. One copy was sent from this office to Honolulu, and another was despatched to J. G. Wallis, Hull, England. John McLean was the Honolulu resident getting the paper sent half way across the Pacific.

**ALFRED OLSON, ANACORTES
PIONEER, PASSES SUDDENLY**

Alfred Olson, a pioneer of Skagit county and of Anacortes, died suddenly early Thursday morning, passing away quietly in his sleep, and the funeral will be held Sunday afternoon, under the direction of the local aerie of Eagles. Mr. Olson recently received the veteran's button, awarded him for 22 years' continuous membership in the local aerie.

Mr. Olson was 65 years of age, and a native of the district of Giltberg Wermland, Sweden, and came to America in 1882. He came to the Pacific coast in 1888, and was in Seattle at the time of the fire, and came to La Conner in 1892. Two or three years later he moved to Anacortes and shortly after that was married in Seattle to Miss Anna Celby. He was in business in this city for many years, making several trips back to his native land. He erected and owned the brick "Olson block," at the corner of Third street.

While Mr. Olson had not been in good health for some time, he was not believed to be seriously ill. As recently as last Saturday he was at his place of business, but went home that evening and never left it again. He was apparently better Wednesday evening, as he chatted with old friends who called to see him, and no danger of a serious outcome was anticipated. He was found to have passed away in his sleep about 4 o'clock the next morning.

Surviving Mr. Olson are his widow and four children, Misses Alfild and Ellen, Alfred, Jr., and Harold, and a sister, Mrs. Katrina Scott, and brother, Charles Olson, of Seattle.

The funeral has been arranged for 1 o'clock Sunday afternoon, at the Eagles' hall, and will be in charge of the officers of the aerie, of which Mr. Olson was a member.

**Clear Lake Garage Burns
WITH NINE AUTOMOBILES**

The Clear Lake garage, owned by Marion McGee, and the McGee residence, were burned late Tuesday night, with a loss estimated at \$10,000. The loss included nine automobiles, five Fords and one of each of the following makes: Hudson, Hupmobile, Chevrolet and Gardner. One motorcycle was burned. The loss is partly covered by insurance.

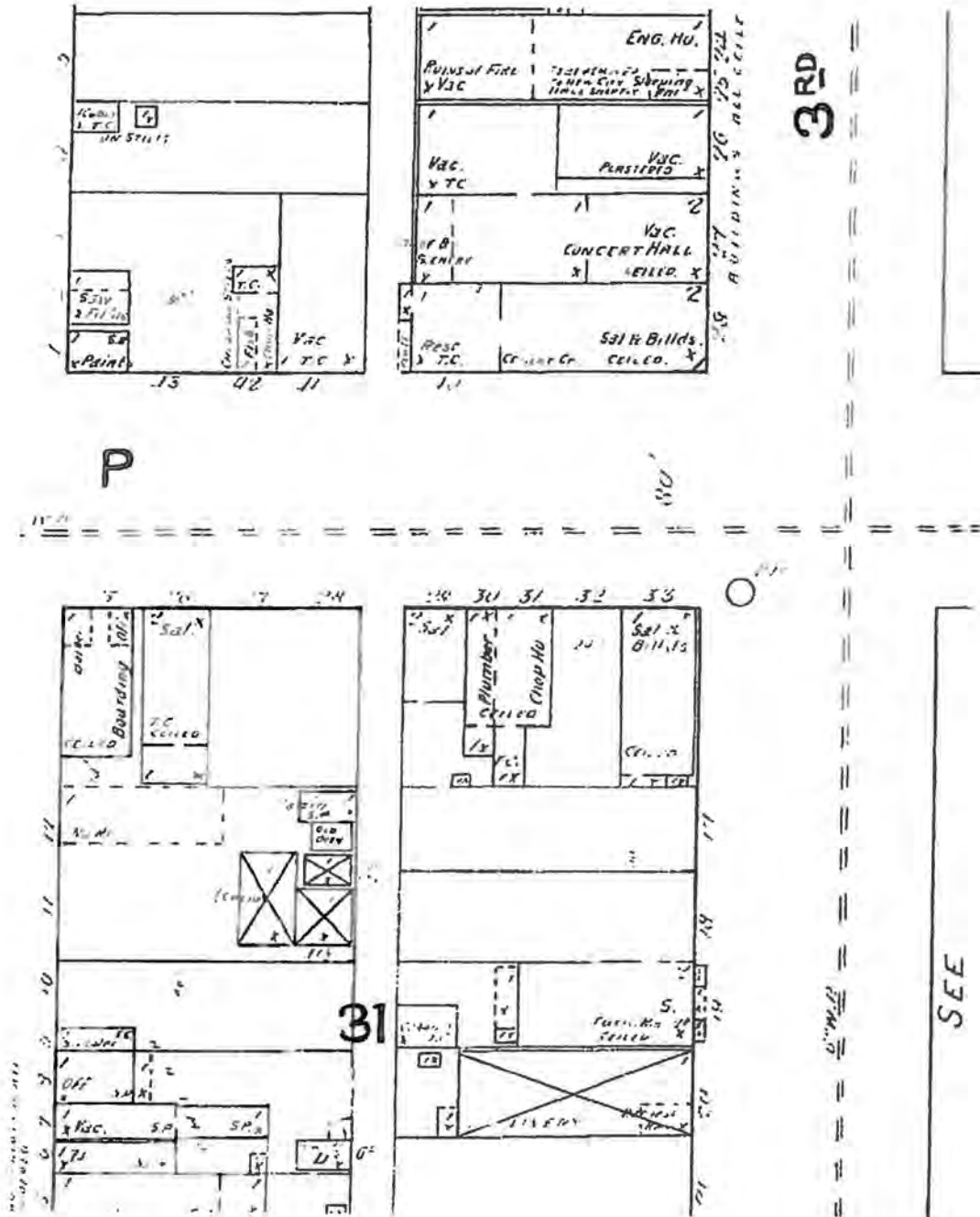
TO SPEND \$75,000

Rock storage facilities are being erected by the Superior Washington Cement company at Concrete, at a cost of \$75,000. The building will be erected immediately east of the plant and will be 60x250 feet in size, and will be equipped with modern machinery for the economical handling of rock.

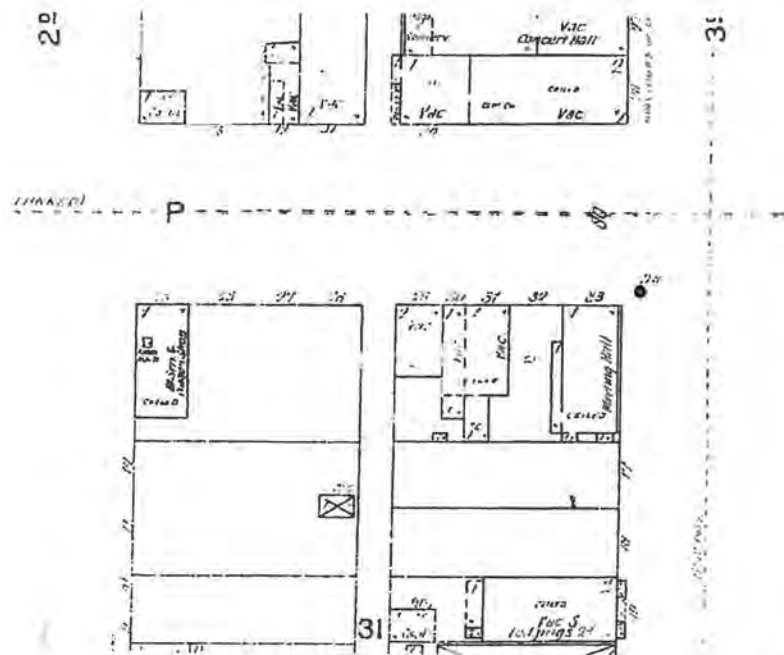
LA CONNER LAD DIES

William, the 12-year-old son of

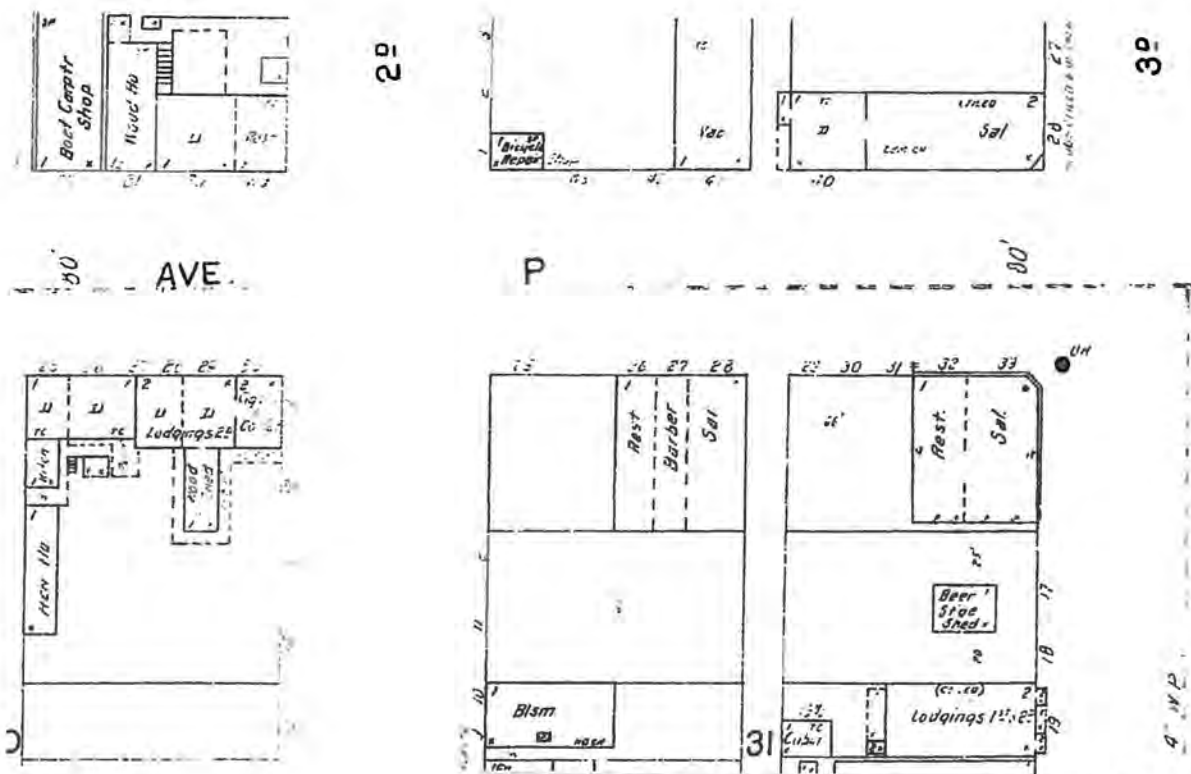
Maps of 3rd Street and P or Commercial Avenue 1892 through 1907



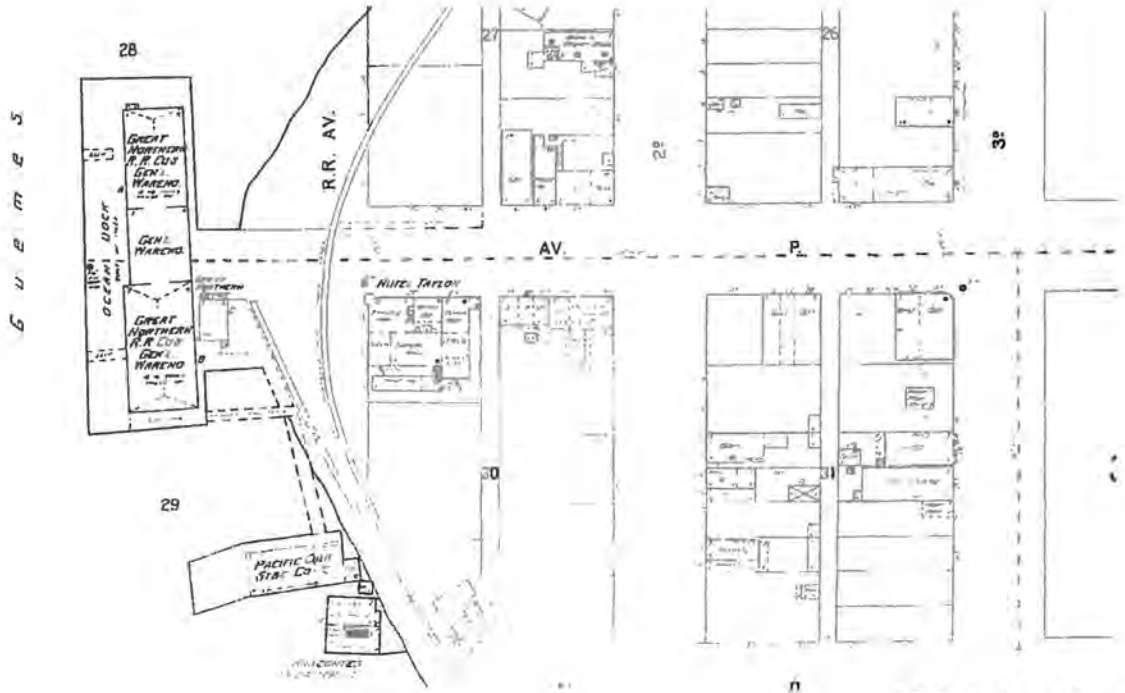
1892 Sanborn Map



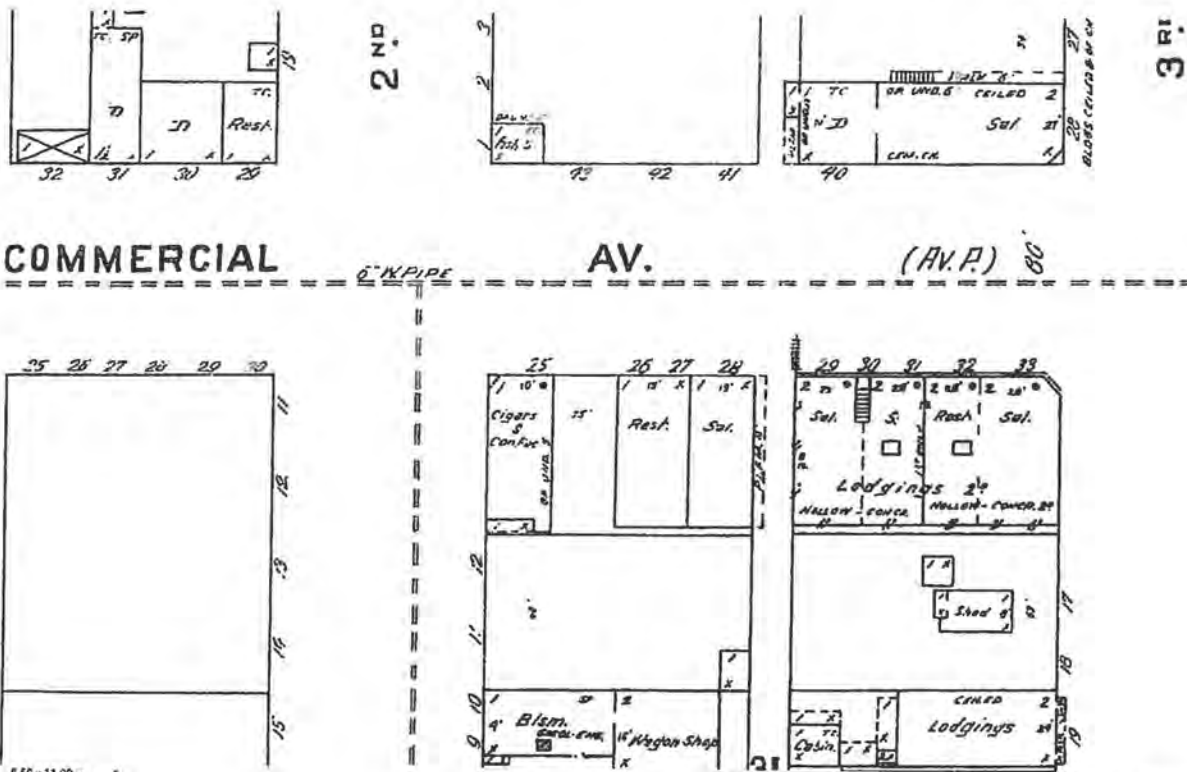
1897 Sanborn Map



1903 Sanborn Map



1905 Sanborn Map



1907 Sanborn Map

Building 4 in the ensemble is of masonry construction and is the most substantial and ornate of all the buildings. Here, time and money was taken to build an exceptionally handsome structure for use as a cafe and saloon with lodging on the second floor. The scale of the structure and the use of stylish motifs from the popular architectural idioms of the day indicate the advanced sophistication of the builder. The original owner was Alfred Olson who bought the property in two phases. The south half was purchased in 1900 from D.L. Ruffin. The south half of the north half was purchased in 1906 from J.F. Liggett. According to title company records, Olson never received title to the north 25 feet of the lots on which the building was built. It is not known just what the arrangements were for construction of the building although it would appear that the ownership of the lots had something to do with the unusual construction of the building (see description section). Olson, however, is credited with having built the building. Construction undoubtedly took place some time between 1900 and 1907 at which time it appears on the Sanborn Map.

Olson operated a saloon and later a cafe for a number of years in the south half of the building. His wife, Anna Marie Olson, sold the property to Demopoulos in 1937. At this point Demopoulos had title to all of the properties included in this nomination with the exception of the north 25 feet of the Olson Building which he was not able to purchase until 1976. Today the first floor of the building is used for storage for the Marine Supply and Hardware Co. The second floor is vacant with the exception of several rooms which are rented as an apartment.

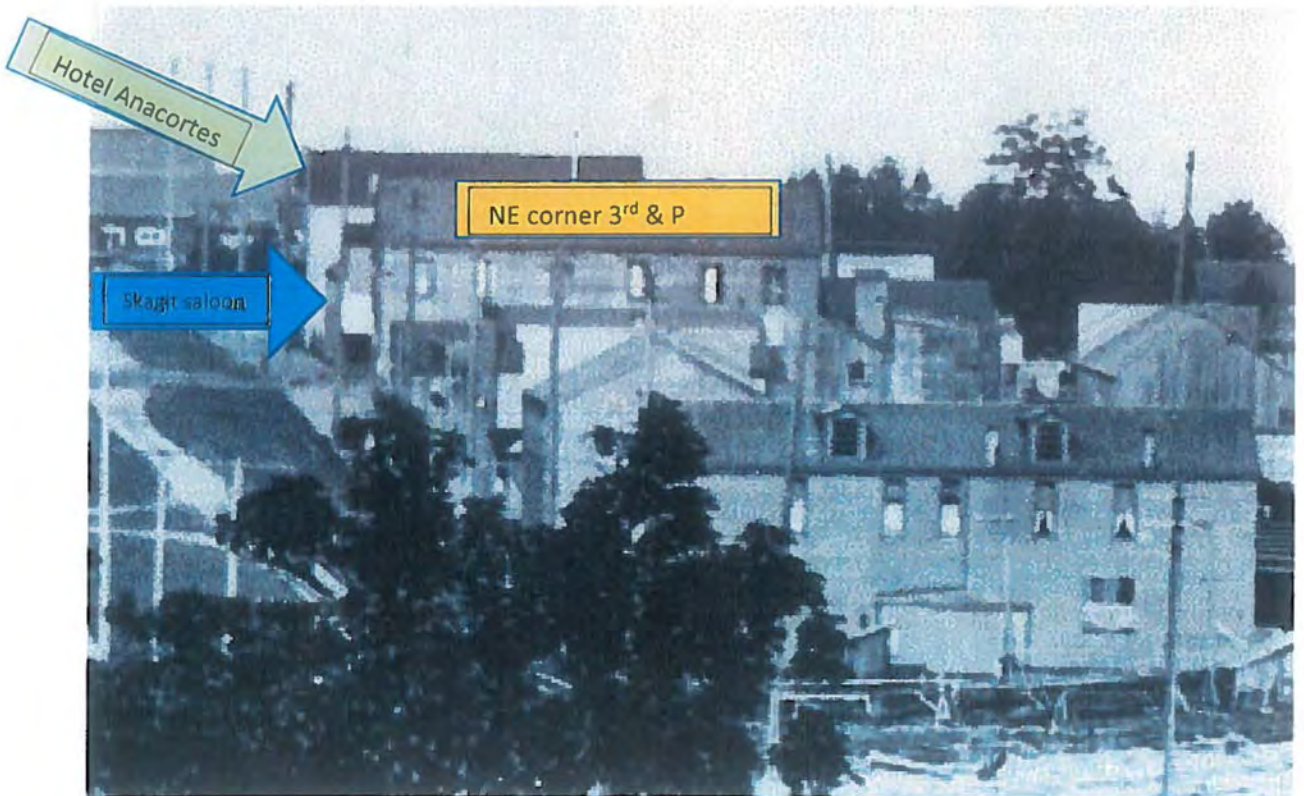
Today the Marine Supply and Hardware Complex stands as a true landmark of the community, serving as a critical visual link between the downtown commercial core and the Anacortes waterfront and an important reflection of the early commercial building types of the city. Through their association with Mike Demopoulos, the buildings symbolize the classic American story of an immigrant's success and his contributions to the community which fostered it. It should also be noted that the Marine Supply and Hardware store is a de facto museum containing a tremendous variety of marine paraphernalia and is a widely known visitor attraction in Anacortes.

National Historic Register Nomination form for Marine Supply block



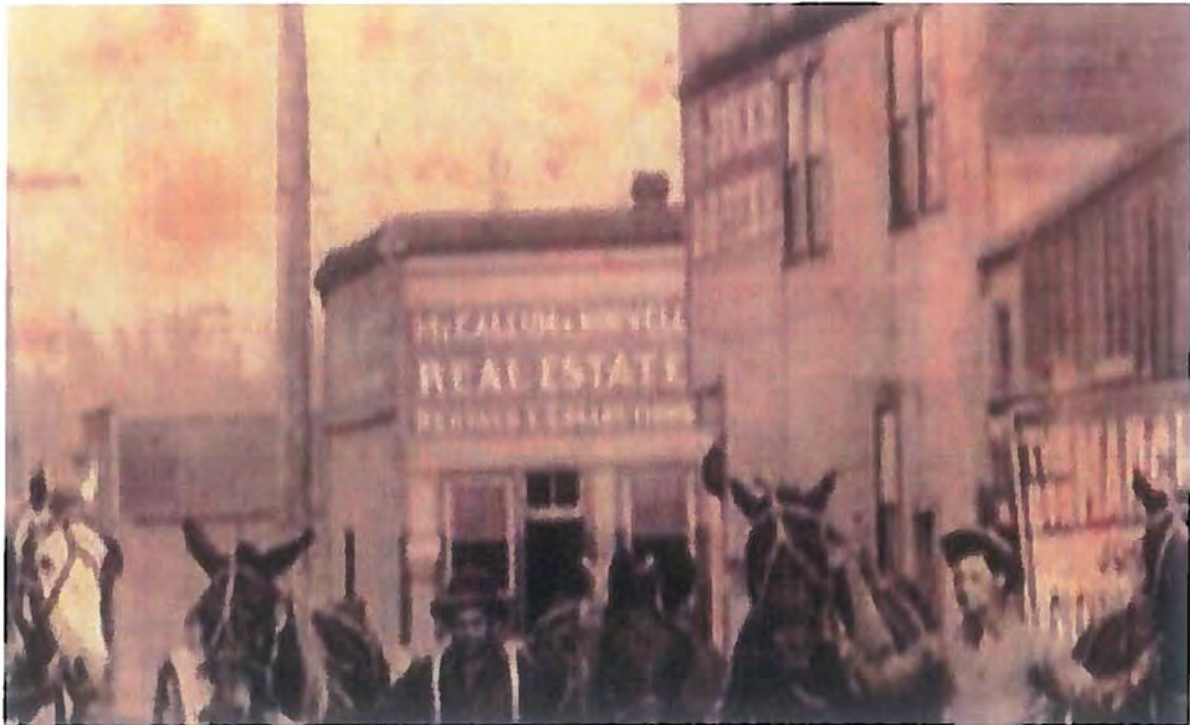


Photo circa 1900 from Cap Sante looking westward along 3rd Street shows no Olson Block.





Looking eastward on 3rd Street toward Commercial Avenue. The year of the photograph should be c. 1907 because the Olson Block second story wasn't built until 1907. Also, 1905 Polk's list McCallum & Goodwin Real Estate at corner of 3rd while 1907 Polk's lists McCallum and Norvell, as shown in this photo.





Fine Eating House.

Delmonico Oyster House is the name of Zack Benn's new restaurant opened January 1 in Alfred Olson's new brick building at corner of Commercial avenue and Third street. The front portion is fitted up with a long lunch counter, the range being in full view and the rear is given over to booths. Mr. Benn guarantees a first rate appetite to his patrons.

1903 Anacortes American article

Compiled by the staff of the Anacortes Museum: coa.museum@cityofanacortes.org

City Council Minutes – March 5, 2018

At 6:00 p.m. Mayor Laurie Gere called to order the regular Anacortes City Council meeting of March 5, 2018. Councilmembers Eric Johnson, Anthony Young, Ryan Walters (via telephone), Brad Adams and Bruce McDougall were present. Councilmembers Matt Miller and Liz Lovelett were absent. The assembly joined in the Pledge of Allegiance.

Mr. Young moved, seconded by Mr. Johnson, to excuse the absence of Ms. Lovelett who was ill. The motion carried unanimously by voice vote.

Announcements and Committee Reports

Housing Affordability and Community Services Committee: Mr. Johnson reported that the Accessible Communities Advisory Committee met the prior week to begin developing a work plan.

Public Works Committee: Mr. Adams reported that the committee meeting scheduled for earlier in the evening had been cancelled.

Mayor Gere removed Item 7d, City Hall Seismic Update, from the agenda pending further information.

Public Comment

Carolyn Moulton, 1514 14th Street, co-owner of Bike Spot at 210 Commercial Avenue, reported that her retail shop shares the block with four other local businesses including Classic Upholstery, the Business, Marine Documentation, and Alley Cat/Marine Supply and Hardware. Ms. Moulton noted the width and breadth of the demographic served by the businesses on the block which between them have something to attract nearly every resident and visitor. She said the five thriving anchor businesses had just found out the prior Friday that the Port of Anacortes, which bought the block in 2014, was considering evicting all of those tenants by winter. Ms. Moulton said the businesses felt they could work cooperatively to find someone to purchase the block and relieve the Port of liability for the structures. She asked the city to help the tenant businesses get time to find a solution. Mayor Gere clarified that the Port Commission was discussing the Olson Building only. She said that topic was an agenda item for the regular Port/City Liaison meeting the following day and that City staff would begin the discussion. Mr. Young reported that many constituents were expressing interest in the buildings, both from a business and a historic preservation standpoint. Mr. Johnson reported that the Port/City Liaison Committee had been exploring alternative uses for the Olson Building, possibly following the model of the New Wilson Hotel, and expressed some surprise at the turn of events. Mr. McDougall voiced support for the amazing local businesses in the block that were managing to thrive in the challenging retail environment.

Consent Agenda

Mr. Johnson moved, seconded by Mr. Adams, to approve the following Consent Agenda items. The motion carried unanimously by voice vote.

- a. Minutes of February 26, 2018
- b. Approval of Claims in the amount of: \$296,359.55

The following vouchers/checks were approved for payment:
EFT numbers: 88277 through 88312, total \$46,265.49
Check numbers: 88313 through 88347, total \$246,347.61
Wire transfer numbers: 228372 through 229124, total \$8,612.09

(Mr. Walters participated via telephone until approximately 6:10 p.m. at which point he disconnected from the duration of the meeting. The four remaining councilmembers present constituted a quorum.)

PUBLIC HEARINGS

Closed Record Decision Hearing: Anacortes School District 5,000 Square Foot Building, Conditional Use Permit CUP-2018-0001

Associate Planner Kevin Cricchio presented an application from Anacortes School District #103 for a conditional use permit to permit the construction of a 5,000 square foot building to be used for classrooms just west of the Anacortes Middle School located at 2202 "M" Avenue and just north of the existing maintenance facility located at 1402 24th Street. Mr. Cricchio's slide presentation was added to the packet materials for the meeting. Mr. Cricchio summarized the project purpose and location, the project zoning and surrounding zoning and land uses, background of the project and the CUP application, public and agency comments, noticing of the application and the public hearing, critical areas review, SEPA, and relevant zoning ordinance/code. He reported that the Planning Commission conducted a pre-decision open-record public hearing on February 14, 2018, following an afternoon site visit, and that following public testimony and deliberation on the matter, the Planning Commission voted 5-0 in favor of recommending approval to City Council subject to recommended conditions. Mr. Cricchio displayed site plans and aerial photos.

Mr. Adams asked about the landscaping plan. Marc Estvold, 3302 Oakes Avenue, project architect, explained that kinnikinnick and mature rhododendrons salvaged from the high school renovation would be planted along the parking lot to screen the building on its north and west sides. Mr. Adams noted the standard conditions limiting hours of construction to 7 a.m. to 10 p.m. Sunday through Saturday. He asked if it wouldn't be more likely that the contractor would conclude work by 7 p.m. Mr. Cricchio said the standard condition was directly from the Municipal Code.

Mr. Johnson moved, seconded by Mr. Young, to approve Conditional Use Permit CUP-2018-0001 subject to the Planning Commission's recommended conditions of approval. Vote: Ayes – Young, Adams, McDougall and Johnson. Motion carried.

OTHER BUSINESS

Contract Award: WTP Chlorine Conversion Project 18-036-WTR-001

Public Works Director Fred Buckenmeyer and Water Treatment Plant Manager Jeff Marrs reported that following a recent visit from Washington State Department of Labor and Industries, staff was pursuing a change in the disinfection method used at the plant from gaseous chlorine to bulk sodium hypochlorite solution. Their slide presentation was added to the packet materials for the meeting. Mr. Marrs advised that the new method was now common in the industry and that Anacortes was one of only two plants along the I5 corridor still using the chlorine gas method. He advised that the change would eliminate the potential health and safety risks associated with unintended releases of chlorine gas and that Washington State Department of Labor and Industries' Process Safety Management requirements with a hypochlorite solution were less stringent than with gaseous chlorine.

Mr. Marrs summarized the current gaseous chlorine system and the configuration of the new system which would fit into the footprint of the existing gaseous chlorine system and could be in use by the end of 2018. He outlined the tasks for the first phase of system design and recommended contracting with HDR for that phase given their familiarity with the plant. He said that the entire project, design and construction, was estimated to cost approximately \$700K and that Water Fund regional capital reserves were sufficient to pay for the project. Mr. Marrs requested Council approval to award a design contract to HDR for the first of three phases, including design and planning, for a not-to-exceed cost of \$35,535.33.

Mr. Young asked if the technology change would affect the great taste of Anacortes water. Mr. Marrs said it would not. Mayor Gere asked why HDR hadn't designed the new water treatment plant to use the new disinfection method in 2010. Mr. Buckenmeyer replied that at that time neither staff nor HDR anticipated the level of scrutiny the plant was now receiving from L&I and the increased process safety management that would be imposed. Mr. Adams asked why the design contract had not been competitively bid. Mr. Marrs referenced the different procurement processes for A/E and construction contracts and advised that the construction portion of the project would be competitively bid. Mr. McDougall asked how much additional staff time it would take to maintain the current gaseous chlorine system. Mr. Buckenmeyer reported that the city would likely have to hire an additional full time health and safety officer. Mr. Marrs briefly discussed the alternative technologies considered and why they were not recommended. Mr. McDougall asked the expected lifespan of the new sodium hypochlorite system. Mr. Marrs estimated 20 years.

Johnny Chase, 4211 Glasgow Way, asked if this would be a firm fixed price contract. He also asked why the city wouldn't just hire someone to serve as health and safety officer instead of changing the disinfection technology. Mr. Chase offered to fill such a position if created. Mr. Buckenmeyer explained that the subject contract was for the first phase of a T&M NTE contract and that there would be two additional phases for HDR, then a bid for a construction contractor.

Mr. Adams moved, seconded by Mr. Johnson, to award a contract not to exceed \$35,535.33 to HDR Engineering, Inc to perform Phase 1 of the WTP Chlorine Conversion Project.

Ward McKenzie, 1402 7th Street, said he was convinced about the change in systems but asked about the process for contracting for design. He suggested that other firms with prior experience designing sodium hypochlorite systems might be competitive with HDR. Mr. Buckenmeyer said staff chose HDR because they originally created and already had the drawings for the water treatment plant whereas a new firm would have to as built the existing system. He added that HDR had designed similar conversions at other plants. Mr. Adams asked if regional water customers had been alerted to the project. Mr. Buckenmeyer said staff would communicate with regional customers if Council voted to proceed with the project.

Vote: Ayes – Adams, McDougall, Johnson and Young. Motion carried.

Contract Modification: Blue Heron Reservoir 16-039-WTR-004

Mr. Buckenmeyer and Mr. Marrs presented a minor contract modification for Council approval but took the opportunity to report on the status of the Blue Heron Circle Reservoir Project. Their slide presentation was added to the packet materials for the meeting. Mr. Marrs summarized the history of the existing 3MG reservoir constructed in the 1970s, the decision to replace it with two 1.5MG tanks to provide redundancy in the system while also avoiding rehabilitation of the aging tank, and award of a construction contract to Stellar J in 2017. He explained the history of the funding for the project through a USEPA Drinking Water State Revolving Fund loan awarded in 2016 and finally funded by the legislature in January 2018. Mr. Buckenmeyer reminded that the water rate increases over the past two years were intended to and in fact had funded debt service on the project. Mr. Marrs shared photos illustrating the construction of the first new 1.5MG tank. He said that tank was undergoing final water quality testing and was expected to be put into service within a week. Then the existing 3MG reservoir would be drawn down and demolished, the second 1.5MG tank would be constructed, and landscaping and site restoration would commence.

Mr. Buckenmeyer advised that a second, redundant storage tank designed into the new water treatment plant would likely be constructed within five years. Mr. Johnson asked if either of the downstream reservoirs on Fidalgo Island would need replacement in the foreseeable future. Mr. Buckenmeyer said those tanks were constructed in the same era as the Blue Heron 3MG tank and that their replacement schedule would be discussed as part of the 2019/2020 budget.

Mr. Marrs then described the four change orders making up proposed Modification 3 to the Stellar J contract. He requested Council approval of the modification adding \$5,985.81 and 4 days to the contract. He pointed out that total modifications on the contract were at 0.88% and that the project was over half complete. Mr. Buckenmeyer noted that these were value added, not corrective, change orders.

Mr. Adams moved, seconded by Mr. Johnson, to approve Contract Modification 3 to the Blue Heron Circle reservoir project 16-039-WTR-004. Vote: Ayes – McDougall, Johnson, Young and Adams. Motion carried.

Contract Award: 2018 Asphalt Overlay - Utility and Pedestrian Improvements Project 18-001-TRN-001 [M Avenue/Fir Crest Boulevard]

Mr. Buckenmeyer began with a slide presentation describing the pavement management program and the 2018 project along M Avenue including utility, sidewalk and pedestrian safety work along the overlay corridor. He reminded that waterlines and sewer manholes in the corridor had been replaced under separate contract the prior year. He then showed photographs illustrating the pavement condition on M Avenue and the sidewalk ramps, alley entrances, storm drainage and pedestrian safety improvements that formed the scope of work for proposed contract 18-001-TRN-001. He displayed the pavement condition ratings (PCI) for the M Avenue segments that would be overlaid under separate contract later in the summer.

Mr. Buckenmeyer then requested Council approval to award a contract in the amount of \$358,399.25 to Trinity Contractors, Inc to perform the 2018 Asphalt Overlay - Utility and Pedestrian Improvements Project which provides for the Storm Drainage and Pedestrian Improvements within the right-of-way of M Avenue and Fir Crest Boulevard, including but not limited to Storm Drainage collection and conveyance, Roadway Excavation and Haul, Cement Concrete Traffic Curb and Gutter, Cement Concrete Sidewalk, Cement Concrete Curb Ramps, Cement Concrete Driveway and Alley Approaches, Detectable Warning Surfaces, Asphalt Patching and other work. He reported that six bids were received with the low bid from Trinity. Mr. Buckenmeyer recommended awarding the contract to Trinity Contractors.

Mr. Johnson asked if the city could save redundant remobilization/demobilization costs by bidding the utility work and asphalt overlay as a single contract rather than separately. Mr. Buckenmeyer explained that if the contracts were combined the low bidder would likely be an asphalt company which would then mark up a subcontractor to perform the utility work, resulting in higher overall cost to the city. Mr. Adams described dual speed bumps in school zones that he observed during a recent trip out of the country and praised the speed hump planned in front of Whitney School on M Avenue. Mr. Johnson noted the deteriorated condition of M Avenue north of 12th Street and asked if anything more could be done to address neighborhood complaints of continued heavy truck traffic on that street. Mr. Buckenmeyer and Mayor Gere advised that the city had tried all manner of means to redirect heavy haulers to the designated truck route but the some small number of independent truckers still found themselves on M Avenue, usually due to GPS navigation.

Mr. Johnson moved, seconded by Mr. Young, to authorize the Mayor to sign a contract 18-001-TRN-001 with Trinity Contractors, Inc. in the amount of \$358,399.25 to perform the 2018 Asphalt Overlay - Utility and Pedestrian Improvements Project. Vote: Ayes – Johnson, Young, Adams and McDougall. Motion carried.

There being no further business, at approximately 7:30 p.m. the Anacortes City Council meeting of March 5, 2018 was adjourned.

The following claims against the City of Anacortes have been preaudited and certified by the Clerk-Treasurer as ready for City Council approval at the March 12, 2018 City Council meeting:
[Download this file in OpenDocument spreadsheet format.](#)

Invoice Doc #	Transaction Date	Invoice #	Vendor Full Name	Description	Total Amount
229515	9/30/2017	205565	WIDENER & ASSOCIATES	WWTP OUTFALL REPAIR PERMITTING - SEPT 2017	\$23,148.44
229516	10/31/2017	205595	WIDENER & ASSOCIATES	WWTP OUTFALL REPAIR PERMITTING - OCT 2017	\$8,596.00
229517	11/30/2017	205640	WIDENER & ASSOCIATES	WWTP OUTFALL REPAIR PERMITTING - NOV 2017	\$4,886.00
229469	12/31/2017	4397	CULBERTSON MARINE CONSTRUCTION	WWTP OUTFALL REPAIR - CONSTRUCTION	\$285,846.65
229484	1/16/2018	877654-00	PACIFIC POWER GROUP, LLC	GENERATOR REPAIRS: 7-905 WW L/S 18	\$3,339.63
229487	1/16/2018	877655-00	PACIFIC POWER GROUP, LLC	GENERATOR REPAIRS: 7-914 WW L/S 14	\$2,376.15
229488	1/16/2018	877657-00	PACIFIC POWER GROUP, LLC	GENERATOR REPAIRS: 6-938 3MG RESERVOIR	\$2,890.44
229482	1/18/2018	878311-00	PACIFIC POWER GROUP, LLC	GENERATOR REPAIR AT ROCK RIDGE	\$305.64
229481	1/18/2018	878418-00	PACIFIC POWER GROUP, LLC	GENERATOR REPAIR AT WW L/S 14	\$184.83
229549	1/25/2018	962159	BLACKSTONE PUBLISHING	BOOKS ON CD	\$50.00
229477	2/1/2018	JANUARY 2018	HUMANE SOCIETY OF	APD CASE 18-A00226; RABBIT	\$25.00
229544	2/2/2018	757381	BAYSHORE OFFICE PRODUCTS INC	BAYSHORE OFFICE SUPPLIES	\$10.74
229128	2/6/2018	227197	BAY CITY SUPPLY	FACILITY SUPPLIES	\$70.59
229476	2/6/2018	1637	ECCOS DESIGN, LLC	PARKS & REC COMP PLAN UPDATE PUBLIC OUTREACH	\$3,026.00
229053	2/7/2018	CDLBrennan	ISLAND FAMILY PHYSICIANS	CDL EXAM - BRENNAN	\$200.00
229389	2/7/2018	840193	LIFE ASSIST, INC	SAM SPLINTS - XL	\$112.36
229458	2/7/2018	331 0389538	UNIFIRST CORPORATION	WTP WEEKLY LAUNDRY SERVICE	\$59.07
229142	2/9/2018	1207184	SURETY PEST CONTROL	PEST CONTROL AT ASAC	\$92.23
229514	2/12/2018	934834	ACE HARDWARE	BATTERIES FOR DEPOT TOWEL DISPENSERS	\$16.59
229141	2/12/2018	1208868	SURETY PEST CONTROL	ROOF CLEANING AT ASAC	\$86.80
229139	2/13/2018	227837	BAY CITY SUPPLY	FACILITY SUPPLIES	\$101.50
229540	2/13/2018	1800007	EBSCO INFORMATION SERVICES	PERIODICAL SUBSCRIPTION	\$4.78
229472	2/14/2018	1411-V01	BLYTHE PLUMBING & HEATING INC	HVAC PREVENTATIVE MAINTENANCE - PUBLIC SAFETY BUILDING	\$1,161.38
229104	2/14/2018	83614358	SMOKEY POINT CONCRETE INC	TOP BLOCKS - CEMETERY WALL	\$282.10
229140	2/14/2018	1207167	SURETY PEST CONTROL	CITY HALL PEST CONTROL	\$43.40
229460	2/14/2018	331 0390608	UNIFIRST CORPORATION	WTP WEEKLY LAUNDRY SERVICE	\$59.07
228762	2/15/2018	1287A	AQUA-TERR SYSTEMS INC	ON-CALL CRITICAL AREAS SITE REVIEWS - ALTON DANIELS FIELD TRENCH & GUEMES TRAIL	\$237.50
229473	2/15/2018	1410-V01	BLYTHE PLUMBING & HEATING INC	HVAC PREVENTATIVE MAINTENANCE - LIBRARY	\$1,763.13
229475	2/15/2018	1412-V01	BLYTHE PLUMBING & HEATING INC	HVAC PREVENTATIVE MAINTENANCE - CITY HALL	\$919.23

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229406	2/15/2018	84226^R	BLYTHE PLUMBING & HEATING INC	WTP CHEM ROOM EXHAUST FAN REPAIRS	\$1,828.93
229468	2/15/2018	2323	KODIAK INDUSTRIAL SOLUTIONS	WASHINGTON PARK RESTROOM COATINGS	\$15,085.95
229545	2/16/2018	ReimbGilbertson	GILBERTSON, SUSAN	LIBRARY REFUND REQUEST	\$22.00
229210	2/16/2018	S011604589.001	KELLER SUPPLY COMPANY	3/4 CHECK VALVE, PARTS FOR HOT WATER	\$21.15
229208	2/16/2018	S011609469.001	KELLER SUPPLY COMPANY	PLUMBING PARTS FOR HOT WATER TANK	\$52.12
229180	2/16/2018	001-393782	PISTON SERVICE OF ANACORTES	FILTER KIT, GOVERNOR PESSURE, SENSOR,	\$228.44
228999	2/17/2018	39726	LAKE SIDE INDUSTRIES, INC.	SAND - CEMETERY WALL	\$76.88
229002	2/19/2018	per diem	BOLTON, KENT	1 BREAKFAST, 1 DINNER CORRECT EQUIP CONFERENCE	\$45.00
229490	2/19/2018	2524730	GAYLORD BROTHERS INC	CURATORIAL SUPPLIES	\$86.92
228764	2/19/2018	1633-15	MAKERS ARCHITECTURE	ZONING, DEV & DESIGN STDS - JANUARY 2018	\$7,821.25
229169	2/20/2018	CDBG Public Services	ANACORTES FAMILY CENTER	CDBG PUBLIC SERVICES REIMBURSE 2	\$1,948.56
229145	2/20/2018	95519387	ARROW INTERNATIONAL INC.	EZ-IO NEEDLES	\$178.18
229511	2/20/2018	20066-01	SUMMIT LAW GROUP, PLLC	LEGAL SERVICES, POLICE BARGAINING UNIT	\$5,027.83
229373	2/20/2018	9802068994	VERIZON WIRELESS	SCADA COMMUNICATION FOR PUMP STATIONS	\$727.00
229471	2/21/2018	84679^	BLYTHE PLUMBING & HEATING INC	REPLACE BELT TENSIONER ON HVAC AT FIDALGO CENTER	\$339.54
229397	2/21/2018	0188-48790	CONSOLIDATED ELECTRICAL	18.5A21/840/277 LAMPS	\$67.96
229398	2/21/2018	0188-489814	CONSOLIDATED ELECTRICAL	3 LAMP BALLAST FOR JEFF V. OFFICE, PART	\$51.98
229403	2/21/2018	2-553331-8	DIAMOND RENTALS, INC.	COMMUNITY GARDEN/CEMETERY - THOMPSON	\$262.00
229461	2/21/2018	331 0391688	UNIFIRST CORPORATION	WTP WEEKLY LAUNDRY SERVICE	\$56.90
229223	2/22/2018	S18-022201	ENVIRO CLEAN EQUIPMENT INC	OPERATING SUPPLY- VEH #303	\$537.73
229182	2/22/2018	118092	FRONTIER FORD	REMANUFACTURED TRANSMISSION VEH #100	\$4,440.96
229123	2/22/2018	41895	HERRERA ENVIRONMENTAL	HEART LAKE ALGE MANAGEMENT PROGRAM - 1/10/18- 1/26/18	\$2,030.92
229219	2/22/2018	0120858	PACIFIC TIRE COMPANY, INC	TIRES- VEH #603	\$3,038.25
228998	2/22/2018	001-394136	PISTON SERVICE OF ANACORTES	3" SANDING DISCS	\$33.45
229404	2/22/2018	8124182423	SHRED-IT USA, LLC	CONTAINER SHREDDING - CITY HALL	\$33.28
229375	2/22/2018	8124179089	SHRED-IT USA, LLC	OLD RECORDS DESTROYED - APD; JAN AND FEB	\$93.20
229173	2/22/2018	1209492	SURETY PEST CONTROL	WA PARK PEST CONTROL	\$44.49
229175	2/22/2018	1482790	WASHINGTON TRACTOR, INC	REPAIRS AND PARTS FOR VEH #426	\$571.32
229402	2/23/2018	0188-489691	CONSOLIDATED ELECTRICAL	LAMPS FOR LIBRARY LED PROJECT FOR 2ND	\$273.42
229222	2/23/2018	S18-022302	ENVIRO CLEAN EQUIPMENT INC	OPERATING SUPPLIES- VEH #303	\$4,267.92
229200	2/23/2018	01779522	ISLAND FAMILY PHYSICIANS	CDL PHYSICAL BRANDON LOWRY	\$200.00
229227	2/23/2018	0497566-IN	NATIONAL SAFETY, INC	SAFETY SUPPLIES- WATER DEPT	\$312.48
229163	2/23/2018	001-394227	PISTON SERVICE OF ANACORTES	PARTS- VEH #034	\$41.85
229000	2/23/2018	001-394259	PISTON SERVICE OF ANACORTES	HD AMP BREAKER #203	\$7.47
229170	2/24/2018	40361	LAKE SIDE INDUSTRIES, INC.	GRAVEL - CEMETERY WALL	\$412.13
229185	2/24/2018	40366	LAKE SIDE INDUSTRIES, INC.	1 1/4" & 1 1/2" GRAVEL FOR STREET DEPT	\$161.09

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229243	2/24/2018	MV185397	MOTOR TRUCKS, INC	OPERATING SUPPLIES- VEH #203	\$627.87
229359	2/25/2018	21287	ECONOWASH LAUNDRY & DRY	UNIFORM CLEANING; 1/26 - 2/21	\$410.67
229351	2/25/2018	21288	ECONOWASH LAUNDRY & DRY	FEBRUARY LAUNDRY	\$934.73
229521	2/25/2018	210430	SKAGIT PUBLISHING LLC	POSITION AD, MUSEUM EDUCATION COOR. & BUILDING INSPECTOR	\$582.43
229052	2/26/2018	759915	BAYSHORE OFFICE PRODUCTS INC	LAMINATING POUCHES PARKS	\$236.83
229399	2/26/2018	82788958	BOUND TREE MEDICAL, LLC	PHARMACEUTICALS	\$242.90
229248	2/26/2018	css-Keltner	KELTNER, LEVI	GYM SUPERVISOR - BOYS BASKETBALL - 5	\$75.00
228971	2/26/2018	001-394380	PISTON SERVICE OF ANACORTES	HOSES- VEH #511	\$32.24
229161	2/26/2018	001-394414	PISTON SERVICE OF ANACORTES	SUPPLIES- VEH #034	\$26.48
228970	2/26/2018	001-394419	PISTON SERVICE OF ANACORTES	BATTERY- VEH #143	\$116.76
229162	2/26/2018	001-394444	PISTON SERVICE OF ANACORTES	BATTERY- VEH #031	\$135.26
229470	2/26/2018	17240	TRANSPORTATION SOLUTIONS INC	32ND & D ROUNDABOUT INTERSECTION IMPROVEMENT DESIGN JAN 2018	\$27,615.06
229533	2/26/2018	114-6420680	UNITED SITE SERVICES, INC	INTAKE STATION PORTA-POTTI RENTAL	\$22.58
229513	2/27/2018	228407	BAY CITY SUPPLY	FACILITY SUPPLIES	\$1,418.83
229527	2/27/2018	228741	BAY CITY SUPPLY	FACILITY SUPPLIES	\$160.78
229203	2/27/2018	163984G-5	BIRCH EQUIPMENT CO., INC	JOB SHACK RENTAL FEBRUARY	\$265.82
229552	2/27/2018	970530	BLACKSTONE PUBLISHING	BOOKS ON CD	\$43.99
229160	2/27/2018	2923032	CARDINAL HEALTH 110, INC.	PHARMACEUTICALS	\$1.42
229164	2/27/2018	2923134	CARDINAL HEALTH 110, INC.	PHARMACEUTICALS	\$662.10
229401	2/27/2018	AN56988	CENTRAL WELDING SUPPLY CO, INC	ASSORTED BOTTLES O2	\$92.53
228997	2/27/2018	8418	HOW IT WORKS, INC	A-TOWN BUDGET ISSUE 2018	\$7,509.29
229218	2/27/2018	MV185518	MOTOR TRUCKS, INC	AIR DRYERS- VEH #203	\$192.62
229179	2/27/2018	001-394513	PISTON SERVICE OF ANACORTES	FILTER FOR #713	\$3.72
229153	2/27/2018	001-394555	PISTON SERVICE OF ANACORTES	FITTINGS- VEH #203	\$81.13
229177	2/27/2018	001-394565	PISTON SERVICE OF ANACORTES	GOVERNOR PRESSURE #145	\$220.67
229216	2/27/2018	001-394584	PISTON SERVICE OF ANACORTES	SHOP SUPPLIES	\$85.66
229213	2/27/2018	001-394586	PISTON SERVICE OF ANACORTES	OPERATING PARTS- VEH #034	\$52.50
229465	2/27/2018	P1529-19	QCC QUALITY CONTROLS CORP.	ON CALL SERVICES @ WWTP: HISTORIAN ISSUE; PS13 & PS14 TROUBLESHOOTING	\$1,377.50
229120	2/27/2018	023832	SEBO'S DO-IT CENTER	MAINTENANCE SUPPLIES - W.T. PRESTON	\$12.76
229144	2/27/2018	210430	SKAGIT PUBLISHING LLC	POSITION ADS, ACCOUNTANT & LIBRARY DIRECTOR	\$594.45
229531	2/27/2018	1207168	SURETY PEST CONTROL	LIBRARY PEST CONTROL	\$66.19
229129	2/27/2018	95270184	ULINE, INC.	POLY TUBING AND CABLE TIES	\$593.77
229168	2/28/2018	LTAC Feb 28 2018	ANACORTES CHAMBER OF COMMERCE	LTAC CHAMBER % FERRY REIMBURSEMENT	\$7,386.30
229221	2/28/2018	792109886	ARAMARK	STA 3 MAT SERVICE: 2/28	\$21.70
229167	2/28/2018	W6676-5	BIRCH EQUIPMENT CO., INC	STOP SWITCH KIT FOR SAW, #13-932	\$67.27
229474	2/28/2018	84909^	BLYTHE PLUMBING & HEATING INC	COMPRESSOR REPLACEMENT	\$265.85

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229247	2/28/2018	5496722	CADMAN	STREET SWEEPER DEBRIS HAULED - TKT	\$438.20
229485	2/28/2018	18-06359	EDGE ANALYTICAL, INC	VOLATILE ORGANICS ANALYSIS	\$872.00
229388	2/28/2018	518-022807	ENVIRO CLEAN EQUIPMENT INC	PARTS- VEH #303	\$744.30
229171	2/28/2018	360-293-0327-0122885	FRONTIER COMMUNICATIONS	CITY HALL 2/28-3/27/18	\$616.58
229172	2/28/2018	360-293-3725-050113-	FRONTIER COMMUNICATIONS	DEPOT PHONE MARCH 2018	\$58.55
229363	2/28/2018	360-293-4900-0912865	FRONTIER COMMUNICATIONS	APD BAC LINE; 2/28/18 - 3/27/18	\$78.10
229360	2/28/2018	360-293-5868-1006005	FRONTIER COMMUNICATIONS	APD BUSINESS LINE SUMMARY; 2/28/18 - 3/27/18	\$336.63
229535	2/28/2018	360-299-2484-0726025	FRONTIER COMMUNICATIONS	LIBRARY PHONE 2/28-3/27/18	\$53.10
229183	2/28/2018	360-299-3674-021417-	FRONTIER COMMUNICATIONS	BACK UP PHONE LINE FEBRUARY. OPS.	\$65.88
229367	2/28/2018	360-299-6615-0615165	FRONTIER COMMUNICATIONS	APD 911 LINE; 2/28/18 - 3/27/18	\$65.67
229364	2/28/2018	360-588-1422-0822015	FRONTIER COMMUNICATIONS	APD BUSINESS LINE; 2/28/18 - 3/27/18	\$288.62
229349	2/28/2018	3602936955	FRONTIER COMMUNICATIONS	GUEST INTERNET	\$70.71
229350	2/28/2018	3602939063	FRONTIER COMMUNICATIONS	STA 3 PHONE/FAX	\$75.09
229532	2/28/2018	009419441	GALLS LLC - DBA BLUMENTHAL UNI	UNIFORM PANTS; RECORDS SUPPORT BEYER	\$70.47
229497	2/28/2018	168255	HOLLINGER METAL EDGE, INC	CURATORIAL SUPPLIES	\$273.60
229372	2/28/2018	40671	LAKE SIDE INDUSTRIES, INC.	CRUSHED ROCK FOR ACFL	\$196.27
229365	2/28/2018	40675	LAKE SIDE INDUSTRIES, INC.	ROCK- STREET DEPT	\$374.58
229492	2/28/2018	0497937-IN	NATIONAL SAFETY, INC	SAFETY GLASSES- WATER DEPT	\$29.51
229524	2/28/2018	10123222	NAVIA BENEFIT SOLUTIONS	FEBRUARY, FLEXIBLE SPENDING PARTICIPANT FEE	\$116.20
229522	2/28/2018	2110	ORCA INFORMATION, INC	BACKGROUND CHECKS, BAREFOOT & SUIT	\$82.00
229186	2/28/2018	16132097	PACIFIC POWER BATTERIES	C BATTERIES FOR MULT-IUSE	\$27.08
229181	2/28/2018	001-394614	PISTON SERVICE OF ANACORTES	VINYL FLOORLINER	\$110.14
229387	2/28/2018	001-394669	PISTON SERVICE OF ANACORTES	OIL- VEH #713	\$18.12
229400	2/28/2018	220015149234	PUGET SOUND ENERGY INC	STREETS LIGHTS- 8147 S MARCH POINT RD 01/30-2/28	\$30.40
229143	2/28/2018	188722	REECE, STORMIE	DEPOT CLEANING FEB 2018	\$594.00
229558	2/28/2018	CL70513	REISNER DISTRIBUTOR INC	VEHICLE FUEL - FEBRUARY	\$16,118.46
229377	2/28/2018	1095141	SKAGIT PUBLISHING LLC	PUBLISH AA-1732206 AA-1732225 AA-1732595 AA-1733308	\$406.00
229525	2/28/2018	INV00338113	SMARSH, INC	ARCHIVING PLATFORM 2/1-2/28/18	\$519.05
229463	2/28/2018	331 0392778	UNIFIRST CORPORATION	WTP WEEKLY LAUNDRY SERVICE	\$51.21
229466	2/28/2018	331 0392792	UNIFIRST CORPORATION	WTP WEEKLY LAUNDRY SERVICE	\$5.69
229214	2/28/2018	8020100	UTILITIES UNDERGROUND LOCATION	UTILITY LOCATE NOTIFICATIONS	\$258.72

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229246	3/1/2018	I-SG-9963	ANACORTES CHAMBER OF COMMERCE	LTAC CHAMBER BRACKET REPLACEMENTS	\$8,479.03
229283	3/1/2018	1990601732	ARAMARK	STA 2 MAT SERVICE: 3/1	\$21.70
229284	3/1/2018	1990601733	ARAMARK	STA 1 MAT SERVICE: 3/1	\$21.70
229352	3/1/2018	1990601743	ARAMARK	OPS & PARKS LAUNDRY SVC FOR	\$62.68
229244	3/1/2018	1990601744	ARAMARK	OPS: MAT CLEANING 03/01/18	\$81.20
229486	3/1/2018	5497053	CADMAN	SWEEPER DEBRIS HAULED: TICKET	\$1,450.96
229197	3/1/2018	00274-ANDERSON	CAMPBELL LAW FIRM	PUB DEF CONFL	\$26.00
229215	3/1/2018	00320-SOUCIE	CAMPBELL LAW FIRM	PUB DEF CONF	\$78.00
229201	3/1/2018	00365-FAKKEMA	CAMPBELL LAW FIRM	PUB DEF CONF	\$13.00
229209	3/1/2018	00372-NELSON	CAMPBELL LAW FIRM	PUB DEF CONFL	\$19.50
229204	3/1/2018	00379-GOMEZ	CAMPBELL LAW FIRM	PUB DEF CONFL	\$39.00
229220	3/1/2018	00403-WALDRON	CAMPBELL LAW FIRM	PUB DEF CONF	\$26.00
229198	3/1/2018	00408-CUOCO	CAMPBELL LAW FIRM	PUB DEF CONFL	\$58.50
229207	3/1/2018	00414-MULLEN	CAMPBELL LAW FIRM	PUB DEF CONF	\$130.00
229202	3/1/2018	00424-FUIK	CAMPBELL LAW FIRM	PUB DEF CONFL	\$136.50
229196	3/1/2018	00427-ALEXANDER	CAMPBELL LAW FIRM	PUB DEF CONFLICT	\$156.00
229199	3/1/2018	00428-DAMRILL	CAMPBELL LAW FIRM	PUB DEF CONF	\$117.00
229206	3/1/2018	00434-HUDSON	CAMPBELL LAW FIRM	PUB DEF CONF	\$58.50
229212	3/1/2018	00435-SHUSTARICH	CAMPBELL LAW FIRM	PUB DEF CONFL	\$130.00
229217	3/1/2018	00441-VANCE	CAMPBELL LAW FIRM	PUB DEF CONF	\$19.50
229211	3/1/2018	00442-RUCKER	CAMPBELL LAW FIRM	PUB DEF CONF	\$45.50
229361	3/1/2018	306610	FRONTIER BUILDING SUPPLY	LT STONE Z-METAL FOR SIGN ROOM	\$99.99
229459	3/1/2018	360-293-1900-0122885	FRONTIER COMMUNICATIONS	CITY MAIN PHONE 3/1-3/31/18	\$1,066.90
229176	3/1/2018	360-299-0813-1017915	FRONTIER COMMUNICATIONS	PHONE BILL FOR WWTP	\$300.35
229106	3/1/2018	797380	GUARDIAN SECURITY SYSTEMS INC	ALARM MONITORING - FIRE STATION 1 4/1-6/30/18	\$165.00
229112	3/1/2018	797382	GUARDIAN SECURITY SYSTEMS INC	ALARM MONITORING - INTERPRETIVE CTR 4/1-6/30/18	\$165.00
229107	3/1/2018	797384	GUARDIAN SECURITY SYSTEMS INC	ALARM MONITORING - WT PRESTON 4/1-6/30/18	\$165.00
229358	3/1/2018	L16092-IN	LANGUAGE TESTING INTERNATIONAL	LANGUAGE TESTING FOR RECORDS CLERK CERTIFICATION	\$150.00
229188	3/1/2018	17-001-WTR-0021	LARRY BROWN CONSTRUCTION INC	RETAINAGE RELEASE	\$20,043.88
229391	3/1/2018	41600262194	LES SCHWAB TIRE CENTERS	FLAT REPAIR- VEH #108	\$18.45
229356	3/1/2018	843782	LIFE ASSIST, INC	LAERDAL V-VAC STARTER KIT & SUCTION	\$437.65
229194	3/1/2018	17-136-FAC-0011	MOUNT VERNON CARPET	RETAINAGE RELEASE	\$1,925.35
229385	3/1/2018	001-394750	PISTON SERVICE OF ANACORTES	KEYLESS ENTRY BATTERY- VEH #014A	\$8.59
229379	3/1/2018	001-394786	PISTON SERVICE OF ANACORTES	SHOP INVENTORY SUPPLIES	\$14.27
229395	3/1/2018	Z258383	PLATT ELECTRIC SUPPLY INC	BATTERY BACKUP	\$548.47

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229396	3/1/2018	2258583	PLATT ELECTRIC SUPPLY INC	TAP KIT	\$78.23
229507	3/1/2018	530	PORT OF ANACORTES	DOCK RENTAL QD-13 QD-23 & QD-27	\$101.85
229505	3/1/2018	983	PORT OF ANACORTES	DOCK RENTAL - QD-19	\$33.95
229504	3/1/2018	984	PORT OF ANACORTES	DOCK RENTAL - QD24	\$33.95
229502	3/1/2018	986	PORT OF ANACORTES	DOCK RENTAL - QD-22	\$33.95
229500	3/1/2018	989	PORT OF ANACORTES	Doc rental - QD-25	\$33.95
229528	3/1/2018	200000667101	PUGET SOUND ENERGY INC	LIBRARY 1220 10TH 1/7-2/6/2018	\$2,665.95
229478	3/1/2018	200012505505	PUGET SOUND ENERGY INC	WTP RIVER BEND ROAD 2/1 TO 2/28/18	\$66,044.45
229191	3/1/2018	17-065-WTR-0011	RHEMA ELECTRIC LLC.	RETAINAGE RELEASE	\$5,085.39
229381	3/1/2018	5052643515	RICOH USA, INC	S/N C86152062 HR COPIES 2/1-2/28/18	\$17.28
229382	3/1/2018	5052643735	RICOH USA, INC	S/N C86111493 COURT 12/1-2/28/18	\$94.13
229378	3/1/2018	5052643770	RICOH USA, INC	S/N C86079893 LIBRARY PUBLIC 12/1-2/28/18	\$119.09
229384	3/1/2018	5052643819	RICOH USA, INC	S/N C86138599 APD FRONT OFFICE COPIES [2/1/18-2/28/18]	\$40.18
229386	3/1/2018	5052643873	RICOH USA, INC	S/N C86138600 APD HALLWAY (12/7/17-2/28/18)	\$49.78
229380	3/1/2018	5052644235	RICOH USA, INC	S/N C86150637 CARNEGIE 12/1-2/28/18	\$111.47
229362	3/1/2018	204379	SEAWESTERN, INC.	REPLACEMENT BUNKER PANTS - NT	\$911.40
229146	3/1/2018	3003734157	THYSSENKRUPP ELEVATOR CORP	MAINTENANCE AGREEMENT - 3/1 - 5/31	\$598.85
229555	3/1/2018	GB00100301	TRANSAMERICA LIFE INS CO	FEBRUARY & MARCH, LEOFF LONG-TERM CARE INSURANCE	\$446.74
229195	3/1/2018	110026	VENTEK INTERNATIONAL	DIGITAL CELLULAR SVC.-SERVER HOSTING	\$135.00
229205	3/1/2018	00112540	WALTON BEVERAGE COMPANY, INC	OPS- BREAKROOM SUPPLIES	\$122.50
229348	3/1/2018	00112541	WALTON BEVERAGE COMPANY, INC	10 LBS. COFFEE - 3/1	\$87.50
229245	3/1/2018	00112542	WALTON BEVERAGE COMPANY, INC	COFFEE AND SUGAR FOR THE WWTP	\$99.50
229536	3/1/2018	01200582	WALTON BEVERAGE COMPANY, INC	WTP BREAKROOM SUPPLIES	\$87.50
229184	3/1/2018	85130	WHITNEY EQUIPMENT CO INC	SINGLE PHASE KIT	\$297.85
229393	3/1/2018	092475705	XEROX CORPORATION	XEROX COLORCUBE USAGE 1/21-2/21/18	\$169.12
229479	3/2/2018	248 984 6277 5	CASCADE NATURAL GAS CORP.	WTP 1/30 TO 02/28/18	\$3,683.65
229355	3/2/2018	8498 30 017 0319913	COMCAST	LIBRARY INTERNET ACCESS 3/9-4/8/18	\$183.10
229390	3/2/2018	6105056	ENVIRO CLEAN EQUIPMENT INC	PARTS- VEH #303	\$830.83
229499	3/2/2018	303759	FRONTIER BUILDING SUPPLY	GLULAM BEAM	\$394.12
229534	3/2/2018	009437646	GALLS LLC - DBA BLUMENTHAL UNI	UNIFORM PANTS; RECORDS SUPPORT DODGE	\$70.47
228890	3/2/2018	I4758155	HD FOWLER COMPANY INC	WATER DEPT- OPERATING SUPPLIES	\$2,909.00
229551	3/2/2018	41600262307	LES SCHWAB TIRE CENTERS	SET OF TIRES FOR VEH #014	\$557.46
229370	3/2/2018	P852101	PLATT ELECTRIC SUPPLY INC	WIRING DUCT AND COVER	\$37.95
229353	3/3/2018	00005W5A83098	UNITED PARCEL SERVICE, INC	UPS SHIPPING CHARGES; WEEK ENDING 3-3-18	\$8.90
229369	3/3/2018	000099E018098	UNITED PARCEL SERVICE, INC	SHIPMENT TO RAINIER~	\$121.89
229383	3/5/2018	1990605619	ARAMARK	LAUNDRY SERVICE FOR WWTP	\$71.61

Invoice Doc #	Transaction Date	Invoice #	Vendor Full Name	Description	Total Amount
229354	3/5/2018	RENEWAL	DEPARTMENT OF HEALTH	DRUG DOG HANDLERS K9 REGISTRATION 2018	\$40.00
229462	3/5/2018	AR95198	ELECTRONIC BUSINESS MACHINES	COPIER FEES AT THE WWTP	\$223.97
229467	3/5/2018	0587705	FERGUSON ENTERPRISES, INC	HYDRANT REPAIR KIT	\$203.05
229506	3/5/2018	277477	FIDALGO POOL & FITNESS CENTER	REIMBURSEMENT REPAIRS	\$2,774.77
229508	3/5/2018	B67230	FRONTIER BUILDING SUPPLY	WAFER SHEETING FOR SIGN SHOP	\$159.36
229357	3/5/2018	4249	NWRC	MEMBERSHIP FEE FOR NORTHWEST LEARN 2018	\$200.00
229547	3/6/2018	31-C17075562:1	GONZALEZ, EVA C	REFUND AMBULANCE OVERPAYMENT	\$50.00
229543	3/6/2018	31-C17075562:1	HENNESSEY, MICHAEL J.	REFUND AMBULANCE OVERPAYMENT	\$105.60
229520	3/6/2018	ST2180371171IS	ISLAND HOSPITAL	MEAD, DAVID, LEOFF1 COPAYS	\$90.00
229539	3/6/2018	MARCH 2018	KORTERUD, WAYNE D	INDIGENT SCREENING CONTRACT	\$375.00
229538	3/6/2018	18531	LANGUAGE EXCHANGE INC, THE	INTERPRETER SERVICES FOR COURT	\$150.00
229550	3/6/2018	001-395187	PISTON SERVICE OF ANACORTES	THREADED POSTS FOR TRUCK #511	\$373.51
229503	3/6/2018	985	PORT OF ANACORTES	Dock Rental - QD-21	\$33.95
229501	3/6/2018	987	PORT OF ANACORTES	DOCK RENTAL	\$33.95
229480	3/6/2018	0555093IN	REISNER DISTRIBUTOR INC	OIL FOR THE INCINERATOR	\$167.35
229546	3/6/2018	B07843389	SHI INTERNATIONAL CORP.	SURFACE PRO	\$4,465.86
229548	3/6/2018	Maduahs	SKAGIT COUNTY AUDITOR'S OFFICE	LIEN RELEASE MADAUHS 2709 MORTON AVE	\$35.00
229554	3/6/2018	386000156	US BANK NA - CUSTODY TREAS DIV	INVESTMENT FEES 2/1/2018 - 2/28/2018	\$61.00
229523	3/6/2018	1154635597	WILSON DDS, NICHOLAS J	DENTAL SERVICES, RODNEY DODGE, DOS: 1/24/18	\$319.00
229519	4/4/2018	17-129-WTR-0011	NWCW, LLC	RETAINAGE RELEASE	\$1,899.50
229512		306704	FRONTIER BUILDING SUPPLY	RETURNED EXTRA BASE FLASHING	(\$86.71)
228969		001-393559	PISTON SERVICE OF ANACORTES	WIPER BLADES #170 PAID BY VISA	(\$11.65)
229166		001-393749	PISTON SERVICE OF ANACORTES	CREDIT- WIPER BLADES- VEH #139	(\$34.30)
229279		001-394582	PISTON SERVICE OF ANACORTES	RETURN ITEMS- OPERATING SUPPLIES- VEH #145	(\$176.25)

Total

\$599,704.06

Anacortes City Council

March 12, 2018

7a. Washington Park Update (Discussion) by Washington Park Manager Bob Vaux



















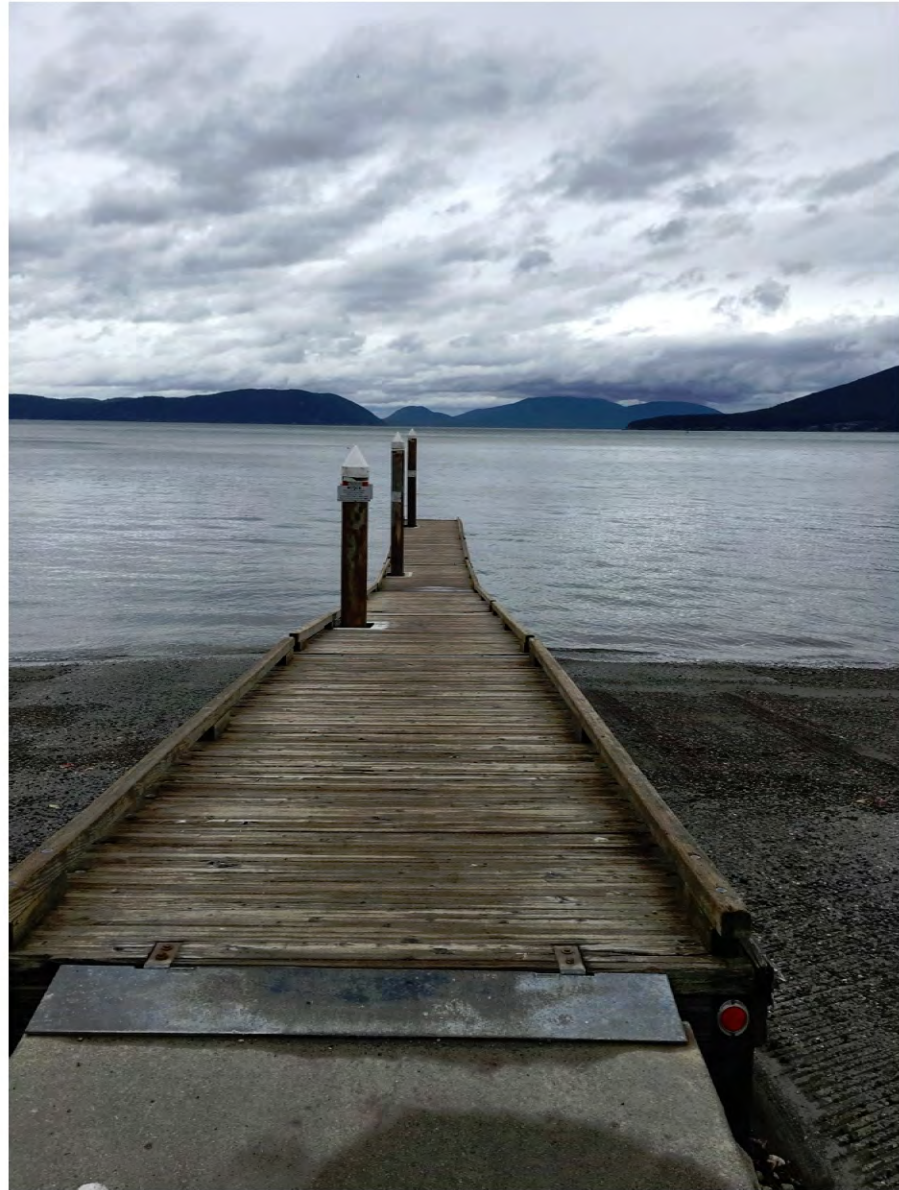






















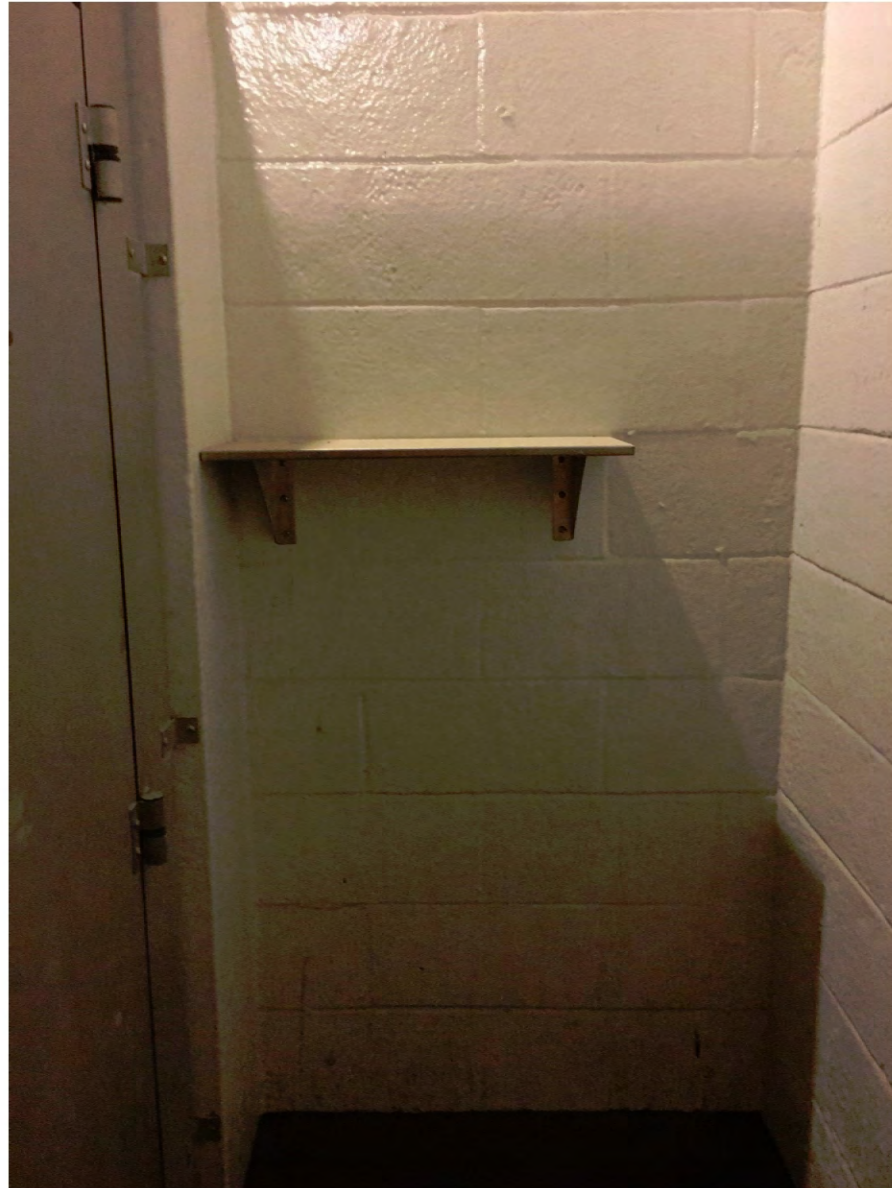


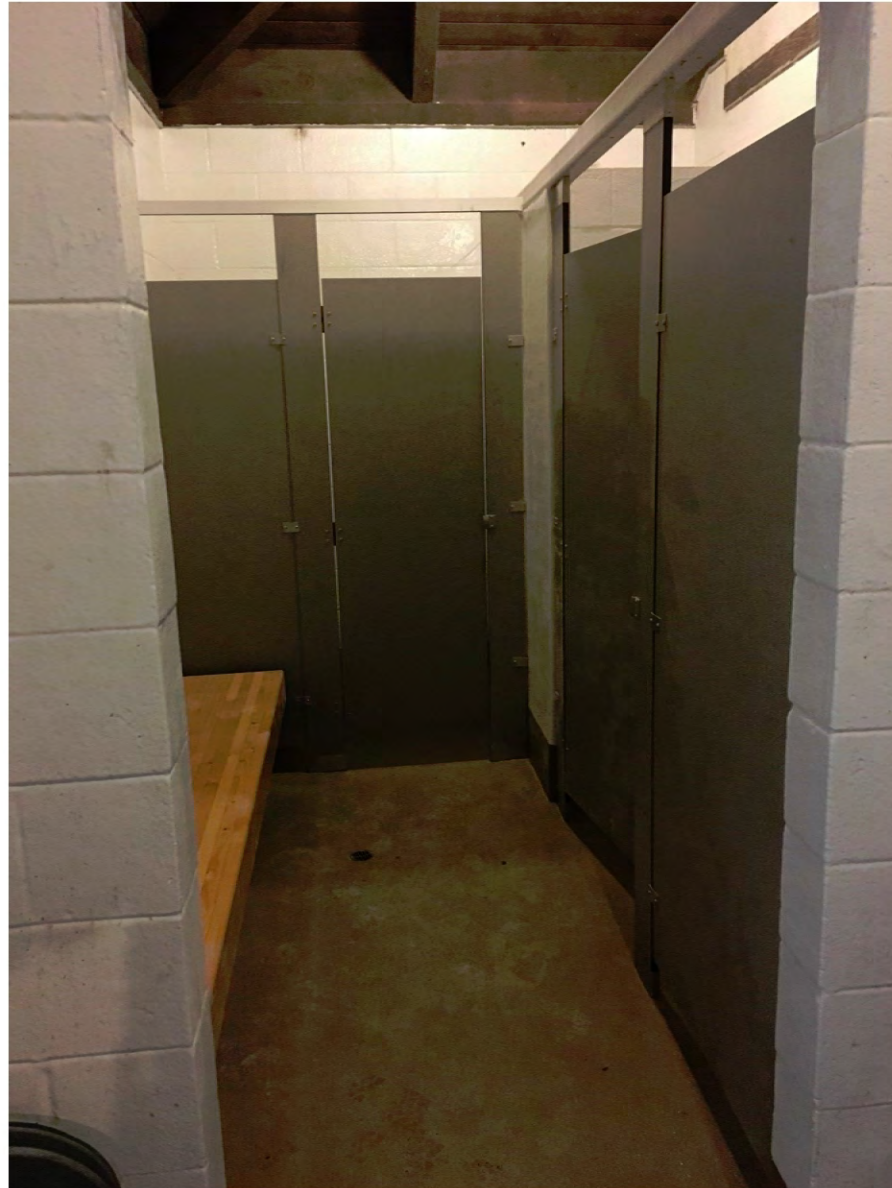


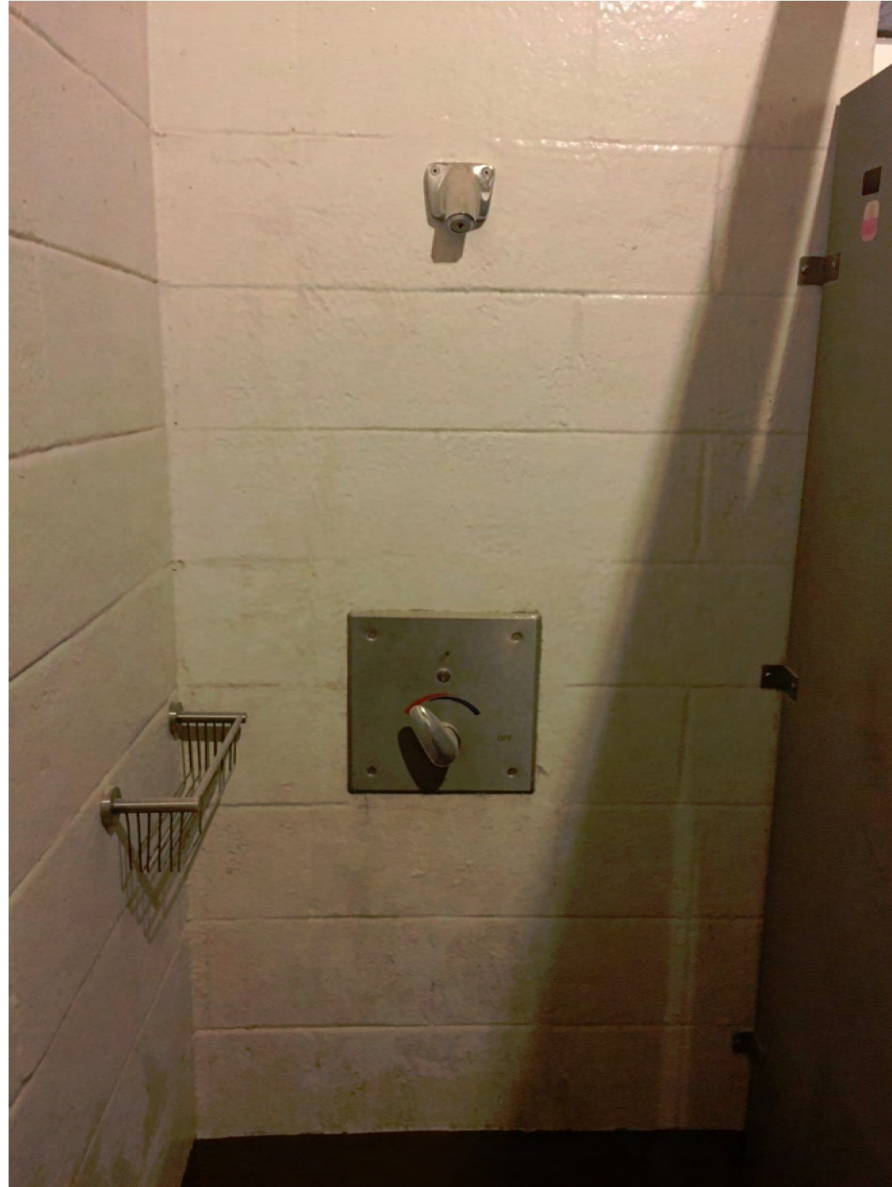


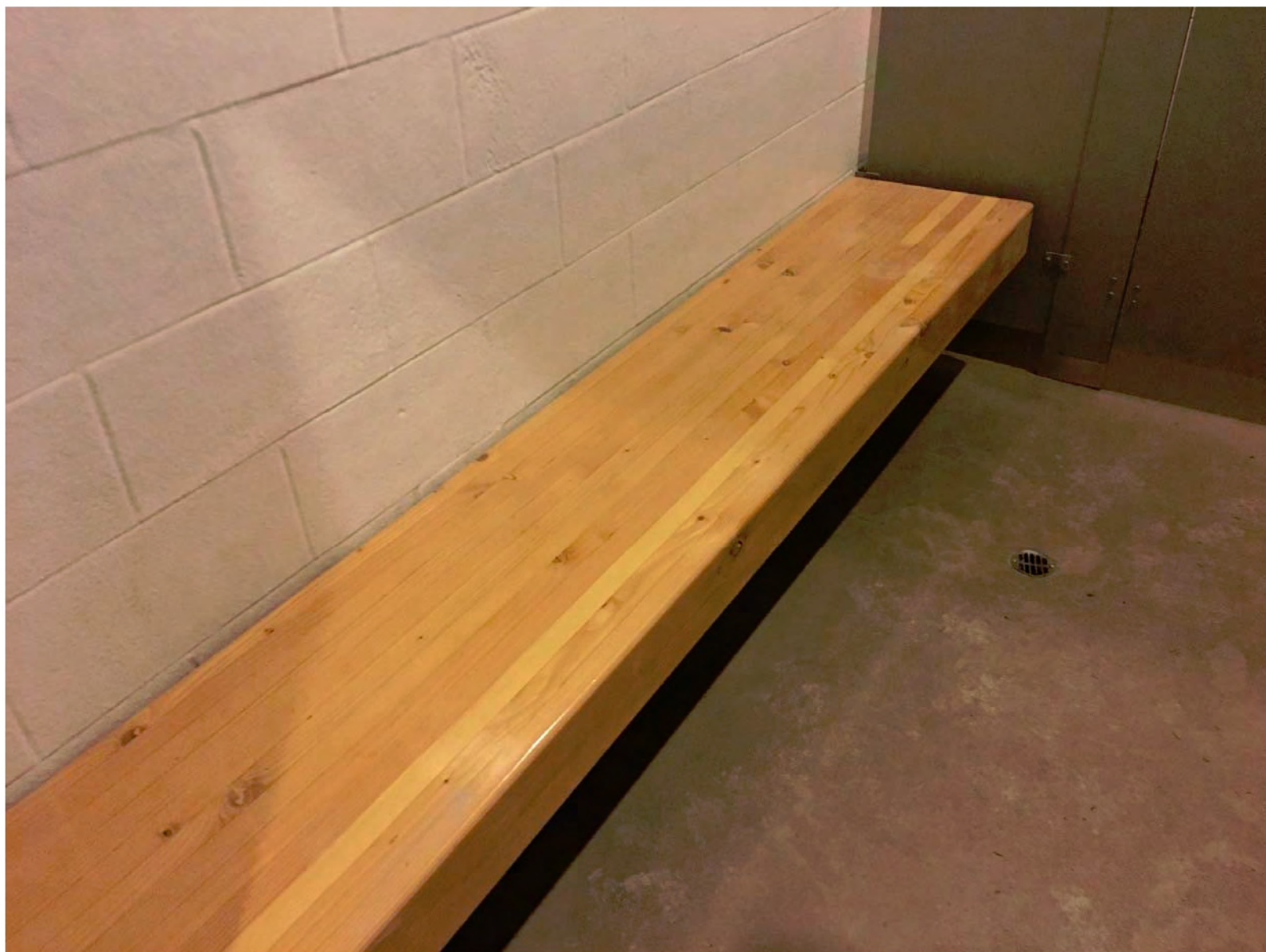








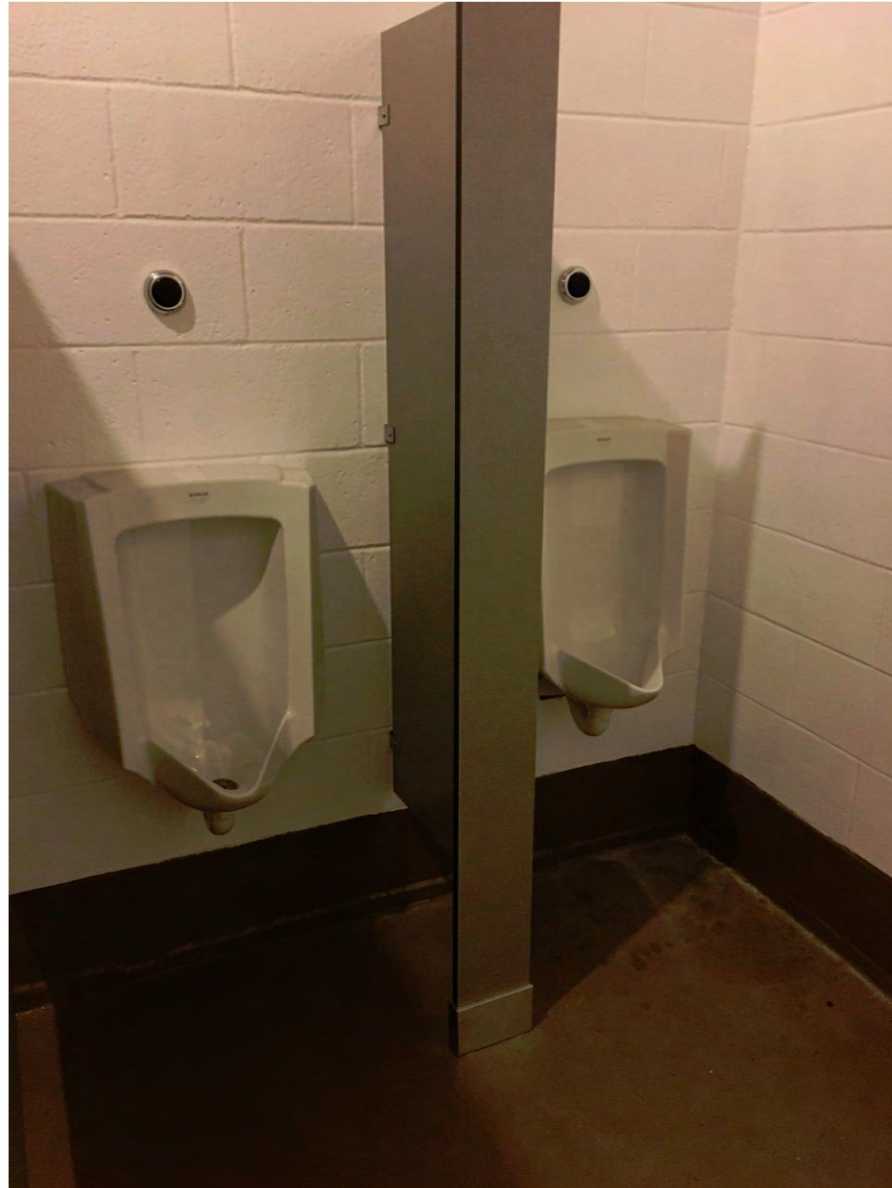














Anacortes Municipal Fiber

UTILITY INFRASTRUCTURE

Installation of a fiber optic link allows our water and wastewater systems to communicate between facilities, pump stations, and water tanks.

EXCESS CAPACITY

Opportunity exists to utilize excess capacity within fiber line to build a community fiber network.

LEVERAGING A MUNICIPAL INVESTMENT

Forming new partnerships can bring new competition to the broadband market.



Anacortes Municipal Fiber

High Speed Connectivity is
Fundamental for

- economic development
- innovation
- technology advancements
- workforce readiness
- improved quality of life



Anacortes Municipal Fiber

WEBSITE CREATED TO HELP THE CITY EVALUATE NEED



[About](#)

[Why Fiber?](#)

[Be a Champion](#)

[FAQ](#)

[Contact](#)

Welcome to the Broadband Survey

The City of Anacortes is exploring building a community broadband network.
Complete our short survey to help us understand your interest.

Select the Area closest to your
desired Service Location:

Anacortes City Limits
South Fidalgo Island

<http://cityofanacortes.servicezones.net>

Request for Qualifications



REQUEST FOR QUALIFICATIONS MUNICIPAL FIBER BASED BROADBAND NETWORK

Prepared January 28, 2018

The City of Anacortes, Washington is developing a Municipal Broadband Network.

The City of Anacortes is requesting qualifications from Internet service providers (ISP) to manage and operate our Municipal Broadband Network (MBN) and serve as the Internet service provider (ISP) for our residential and small-medium businesses (SMB) customers. Anacortes is a progressive community with a current population of 16,800 residents.

The essence of our Fiber based Municipal Broadband System is that the City will own the broadband system infrastructure and the ISP will operate the service on the City-owned system.

Key Elements of the Fiber Optic System

Our initial fiber backbone build is constructed as a telemetry system that connects our wastewater and water facilities together with all municipal buildings. In the initial build, we installed sufficient capacity to allow us to begin a MBN. We have 4 independent fiber routes. Each route has 144 strands. To date we have installed a fiber optic cable backbone in the eastern half of the City (see map) using a combination of both aerial and underground applications. In 2018, we will continue our fiber deployment to the western portion of the City.

We have constructed a colocation facility at the Anacortes Public Library that will contain our GPON system and serve as the central facility for the City's entire municipal broadband system.

We have implemented the CCO software program to ascertain community interest in a municipal broadband fiber system. The initial response was overwhelmingly positive with over 1405 responses. Our website has current data on the number of responses and their locations.

In 2018, we will establish our municipal broadband fiber system by deploying a Fiber to the Home (FTTH) network in two pilot neighborhoods that provides the potential of connecting over 200 customers. Our long-range plan is to provide all City residents the opportunity to connect to our MBN.

Overview of Requirements

We anticipate the network will offer a symmetrical one gigabit per second connection speed. The network will be operational, on a phased, demand driven basis.

We anticipate the successful vendor will be the sole ISP on the City's MBN for the residential and SMB customers for the lifetime of the contract. The City envisions the enterprise, active Internet customers would be provisioned on an open access format, allowing a number of ISPs to serve those customers over the City's fiber infrastructure; however, the City is interested in collaborating with applicants regarding this approach and we are willing to explore exclusivity alternatives. We are also



January 25	RFQ released
February 12	Presubmittal Meeting
March 2	RFQ Response deadline followed by staff review
March 8	Mayor, Council committee, and staff review proposals

Request for Qualifications



	Work that needs to be done	City	Retail / SMB ISP
	Marketing		
1	Develop service offering and pricing		x
2	Develop name/brand recognition in Anacortes	x	x
3	Provide liason/consulting relationship to key customers	x	x
4	Community education	x	x
5	Track and manage demand, market share, etc.	x	x
6	Market competitive community based communications	x	x
	Customer Service 24/7		
7	Physical infrastructure problems (outside plant, fiber cuts, etc.)	x	
8	Problems with electronics (routers, GPON, etc.)		x
9	Problems inside the residence or business		x
10	Trouble calls: "My internet is down"		x
11	Network outage, unknown cause	x	x
12	Billing, contractor, or other complaints	x	x
13	Vet/audit/QA third party ISPs	x	

Request for Qualifications



	Customer building installation (work inside residence/business)		
14	Drill through wall, run ethernet cable from ONT to customer router/wifi device		x
15	Test Internet connection (if provisioned in GPON)		x
	Customer building modification (work inside residence/business)		
16	Drill through wall, move/add-new ethernet cable		x
	Direct Internet Access		
17	City buildings/ facilities	x	
18	Customers		x
	Customer Activation/Deactivation/Move		
19	System provisioning (add new customer PON assignment)		x
20	Setup new customer billing	x	x
21	System provisioning (remove customer PON assignment)		x
22	Remove billing	x	x
23	System provisioning (modify customer PON assignment)		x
24	Modify billing	x	x
	Ongoing maintenance		
25	Maintain physical infrastructure (outside plant, fiber)	x	
26	Maintain end-point electronics (ONT)	x	
27	Maintain data center: inside plant, room, racks, power, cooling, backup	x	
28	Maintain routers	x	x
29	Maintain network monitoring equipment		x
30	Network health monitoring	x	x
31	Capacity planning (physical)	x	
32	Capacity planning (Internet utilization)	x	
	CALEA		
33	Provide address/billing info to law enforcement upon CALEA request		x

Key Upcoming Dates

Date	Council Agenda Items
March 19	Pilot Zone Contract with NoaNet
March 21	Councilmembers McDougall & Walters, Mayor and Staff meet with RFQ Respondents
April 2	West End Telemetry System Contract with NoaNet
April 16	Municipal Fiber RFQ Finalist Presentations at council meeting
April 23	Municipal Fiber ISP Model Decision





City Council Contract Agenda Bill

Meeting Date: 3/12/2018 **Agenda Item:** 7c

Subject: Contract Award - WWTP Air Emission Testing Services

Staff Contact: Fred Buckenmeyer

Approved for Submittal to Council by:
Darcy Swetnam, City Attorney

Action Type: Contract Award

Summary Statement: City staff seeks City Council consent to award a contract in the amount of \$53,092.50 to Elemental Air to provide air emission testing services including conduct compliance testing, visible and fugitive ash emissions testing, and a RATA on the fluidized bed incinerator at the Wastewater Treatment Plant.

Background:

1. **History:** Anacortes operates a secondary wastewater treatment plant which includes a fluidized bed sewage sludge incinerator (SSI) to process the sewage sludge removed during the treatment process. The SSI is subject to emission limits and requirements promulgated by EPA and incorporated in 40 CFR 62 Subpart LLL Federal Plan Requirements for Sewage Sludge Incineration Units Constructed on or Before October 14, 2010 (SSI Rule). The SSI Rule includes requirements to conduct performance tests on a regular basis to ensure the SSI is in compliance with the emission limits. To meet the federal requirements, Anacortes must conduct a performance test in 2018.

To conduct a performance test, Anacortes must hire an air testing firm to sample the SSI stack gases, analyze or submit samples for analysis, review, interpret and validate test data, reduce and compile the information into a report and submit the results to the regulating authorities. The testing firm must conduct all testing in accordance with strict testing protocol which includes extensive quality control requirements, precise test probe and equipment alignment, and proper sample conditioning and collection techniques.

Over the past many years, Anacortes has worked with various stack testing companies. Recently, Anacortes has contracted Elemental Air to conduct SSI performance testing. Anacortes has been very satisfied with Elemental Air who has proven to be the most reliable stack testing firm. Elemental Air has provided the most cost effective service while producing results with the highest level of dependability and accuracy.

The contract includes Task 3.3 which is an option to rent an SO₂ monitor in the event Anacortes continues to experience a drop in pH following the performance test. The SSI Rule requires facilities to set operating limits based on data collected and averaged during performance test runs for the various regulated pollutants. The performance test includes 3 individual test runs for each regulated pollutant ranging from 60 to 180 minutes per test run over the course of approximately 3 days. The test runs encompass a short snapshot in time meant to represent SSI operating conditions spanning an entire year. Sewage sludge composition is highly variable resulting in fluctuating operating ranges as the sludge changes. Anacortes will rent an SO₂ monitor following the performance test to verify compliance with the emission limits if conditions and sludge composition subsequently changes.

2. Key Terms:

- Total contract price of \$53,092.50
 - Task 3.3 with an estimated cost of \$12,860 may not be exercised which would bring the contract price down to \$40,232.50.
- The three tasks have different performance dates:

Task 3.1 Annual Compliance Testing & RATA	March 15, 2018 - July 27, 2018
Task 3.2 SO ₂ and HCl Compliance Test	April 23, 2018 – December 31, 2018
Task 3.3 Temporary CEMS and DAHS	Inception - December 31, 2018

3. **Competitive Bidding:** This work is considered a Personal Service and as such the City asked the Consultant for a proposal that included a scope of work and fees. The Project Manager then evaluated the proposal and determined the scope meets our needs and the fees are fair and reasonable.

Previous Council/Committee Action: N/A

Competing Viewpoints Considered: N/A

Recommended Motion: I move that City Council authorize the Mayor to sign a contract 18-041-SEW-001 with Elemental Air in the amount of \$53,092.50 to perform the WWTP Air Emission Testing Services.

Alternative Actions: Not running the performance test will result in Anacortes being out of compliance with the SSI Rule and potentially being subject to enforcement action by EPA.

Attachments: Contract 18-041-SEW-001

Contractor	Elemental Air
Contract Amount	\$53,092.50
Earmarked Funds	None
BARS #	440.750.535.89.41
Budget Amendment Required?	No
Start Date	Inception
End Date	12/31/18



AGREEMENT 18-041-SEW-001
Between
THE CITY OF ANACORTES
AND
ELEMENTAL AIR

This Agreement, hereinafter referred to as "Agreement", made and entered into between the City of Anacortes, hereinafter referred to as the "City", and Elemental Air, private consultant at 11116 117th Pl Ne Kirkland, WA 98033, hereinafter referred to as the "Consultant";

WHEREAS, the City requires the air emission testing services of the Consultant;

NOW, THEREFORE, in consideration of mutual benefits accruing, it is agreed by and between the parties hereto as follows:

1. **Scope of Work.** Under this Agreement, the Consultant shall provide air emission testing services including conduct compliance testing, visible and fugitive ash emissions testing, and a RATA on the fluidized bed incinerator at the Wastewater Treatment Plant (WWTP), 500T Ave, Anacortes, WA 98221, with tasks identified in Exhibit A, which is hereby incorporated by reference and made a part hereof. The City will exercise the option for Task 3.3 for a rental SO₂ monitor only in the event the WWTP has continued pH problems after the source test.

All work shall be scheduled and performed under the direction of Rebecca Fox, hereinafter referred to as City Project Manager, who may be reached at (360) 299-1501, beckyf@cityofanacortes.org.

2. **Price.** The services provided under this Agreement shall be for a total contract price of **Fifty-Three Thousand Ninety-Two Dollars and Fifty Cents (\$53,092.50)**. This includes all labor and materials for the project. The Payment Schedule provided below sets forth the payment terms for the Work:

Task 3.1 Annual Compliance Testing & RATA	Total Cost \$32,745.00
Task 3.2 SO ₂ and HCl Compliance Test	Total Cost \$7,487.50
Task 3.3 Temporary CEMS and DAHS	Initial Setup Cost \$860.00

The City agrees to an additional rental cost of \$2,300.00 per month (30 days), \$75.00 per day outside of 30 day periods, for a not-to-exceed total rental price of \$12,000.00 for Task 3.3 if option is exercised by the City.

3. **Period of Performance.** The periods of performance under this Agreement are defined as follows:

Task 3.1 Annual Compliance Testing & RATA	March 15, 2018 - July 27, 2018
Task 3.2 SO ₂ and HCl Compliance Test	April 23, 2018 – December 31, 2018
Task 3.3 Temporary CEMS and DAHS	Inception - December 31, 2018

4. **Invoicing.** All invoices shall include: Company Name, Invoice Date, Due Date (30 days), Invoice Number, Project Manager Name, AGREEMENT Number, amount requested per invoice and cumulative invoiced amount.

The Consultant must invoice **MONTHLY** for quantities delivered during the invoice period, and no more frequently than monthly, and allow 30 calendar days from receipt of the invoice for payment.

Invoices should be sent by US mail to City of Anacortes, Accounts Payable, PO Box 547, Anacortes, WA 98221, or by email to accountspayable@cityofanacortes.org

The City shall notify the Consultant within fifteen (15) calendar days from receipt of invoice if there are any objections or disputes with the invoice. The Consultant shall then resubmit a new invoice less the disputed amount and payment shall be made within 30 calendar days. Any disputed amounts may be submitted under the Disputes clause contained herein.

5. **Taxes.** The City will pay sales and use taxes imposed on goods or services acquired hereunder as required by law. The Consultant must pay all other taxes including, but not limited to: Business and Occupation Tax, taxes based on the Consultant's gross or net income, or personal property to which the

City does not hold title. The City is exempt from Federal Excise Tax. Where applicable the City shall furnish a Federal Excise Tax Exemption certificate.

6. **Withholding Payment.** In the event the City determines that the Consultant has failed to perform any obligation under this Contract within the times set forth in this Contract, then the City may withhold from amounts otherwise due and payable to Consultant the amount determined by the City as necessary to cure the default, until the Contracting Officer determines that such failure to perform has been cured. Withholding under this clause shall not be deemed a breach entitling Consultant to terminate or damages, provided that the City promptly gives notice in writing to the Consultant of the nature of the default or failure to perform, and in no case more than 8 days after it determines to withhold amounts otherwise due. A determination of the Public Works Director set forth in such notice to the Consultant of the action required and/or the amount required to cure any alleged failure to perform shall be deemed conclusive, except to the extent that the Consultant acts within the times and in strict accord with the provisions of the Disputes clause of this Contract. The City may act in accordance with any determination of the Public Works Director which has become conclusive under this clause, without prejudice to any other remedy under the Contract, to take all or any of the following actions: (1) cure any failure or default, (2) to pay any amount so required to be paid and to charge the same to the account of the Consultant, (3) to set off any amount so paid or incurred from amounts due to become due the Consultant. In the event the Consultant obtains relief upon a claim under the Disputes clause, no penalty or damages shall accrue to Consultant by reason of good faith withholding by the City under this clause.

7. **Subcontracts.** The Consultant shall give notice in advance of placing any subcontract and will identify subcontracts before subcontracted work begins. "Subcontract" means any contract entered into by a sub Consultant to furnish supplies or services for performance of the prime Consultant or a sub Consultant. It includes, but is not limited to, purchase orders, and changes and modifications to purchase orders.

The following information shall be included (i) a description of the supplies or services to be subcontracted, (ii) identification of the type of subcontract to be used (iii) identification of the proposed sub Consultant, (iv) proposed subcontract price.

Unless consent or approval specifically provides otherwise, consent by the City shall not constitute a determination –

- (1) of the acceptability of any subcontract terms or conditions;
- (2) Of the allowability of any cost under this Agreement,; or
- (3) To relieve the Consultant of any responsibility for performing this Agreement.

The Consultant shall give immediate written notice of any action or suit filed and prompt notice of any claim made against the Consultant by any sub Consultant or vendor that, in the opinion of the Consultant, may result in litigation related in any way to this Agreement, with respect to which the Consultant may be entitled to reimbursement from the City.

8. **Ownership and Use of Documents.** All finished and unfinished documents and material prepared by the Consultant with funds paid by the City pursuant to the terms of this Agreement shall become the property of the City and shall be forwarded to the City upon its request. Documents and materials shall include but not be limited to plans, specifications, reports, electronic and non-electronic data, and other design documents prepared by the Consultant. Pursuant to RCW 42.56.70, all information and documents produced under this Agreement may be subject to public disclosure.

9. **Defense and Indemnity Agreement.** The Consultant shall defend, indemnify and hold the City, its appointed and elective officers, officials, employees and volunteers harmless from any and all claims, injuries including death at any time resulting there from, damages, losses or suits including attorney fees, arising out of or resulting from the acts, errors or omissions of the Consultant in performance of this Agreement, except for injuries and damages caused by the sole negligence of the City.

Should a court of competent jurisdiction determine that this Agreement is subject to RCW 4.24.115, then, in the event of liability for damages arising out of bodily injury to persons or damages to property caused by or resulting from the concurrent negligence of the Consultant and the City, its officers, officials, employees, and volunteers, the Consultant's liability hereunder including the duty and cost to defend hereunder shall be only to the extent of the Consultant's negligence. It is further specifically and expressly understood that the indemnification provided herein constitutes the Consultant's waiver of immunity under Industrial Insurance, Title 51 RCW, solely for the purposes of this indemnification. This waiver has been mutually negotiated by the parties. The provisions of this Clause shall survive the expiration or termination of this Agreement.

10. **General and Professional Liability Insurance**

A. Insurance Term

The Consultant shall secure and maintain for the duration of the agreement insurance against claims for injuries to persons or damage to property which may arise from or in connection with the performance of the work hereunder by the Consultant, its agents, representatives, or employees.

B. No Limitation

Consultant's maintenance of insurance as required by this Agreement shall not be construed to limit the liability of the Consultant to the coverage provided by such insurance, or otherwise limit the City's recourse to any remedy available at law or in equity.

C. Minimum Scope of Insurance

Consultant shall obtain insurance of the types and coverages described below:

1. Automobile Liability Insurance covering all owned, non-owned, hired and leased vehicles. Coverage shall be written on Insurance Services Office (ISO) form CA 00 01 or a substitute form providing equivalent liability coverage.
2. Commercial General Liability insurance shall be at least as broad as ISO occurrences form CG 00 01 and shall cover liability arising from premises, operations, stop-gap independent Consultants and personal injury and advertising injury. The City shall be named as an additional insured under the Consultant's Commercial General Liability insurance policy with respect to the work performed for the City using an additional insured endorsement at least as broad as ISO CG 20 26.
3. Worker's Compensation coverage as required by the Industrial Insurance laws of the State of Washington.
4. Professional Liability insurance appropriate to the Consultant's profession.

D. Minimum Amounts of Insurance

Consultant shall maintain the following insurance limits:

1. Automobile Liability insurance with a minimum combined single limit for bodily injury and property damage of \$1,000,000 per accident.
2. Commercial General Liability insurance shall be written with limits no less than \$1,000,000 each occurrence and \$2,000,000 general aggregate.
3. Professional Liability insurance shall be written with limits no less than \$1,000,000 per claim and \$1,000,000 policy aggregate limit.

E. Other Insurance Provision

The Consultant's Automobile Liability and Commercial General Liability insurance policies are to contain, or be endorsed to contain that they shall be primary insurance as respect the City. Any Insurance, self-insurance, or self-insured pool coverage maintained by the City shall be excess of the Consultant's insurance and shall not contribute with it.

F. Acceptability of Insurers

Insurance is to be placed with insurers with a current A.M. Best rating of not less than A:VII.

G. Verification of Coverage

Consultant shall furnish the City with original certificates and a copy of the amendatory endorsements, including but not necessarily limited to the additional insured endorsement, evidencing the insurance requirements of the Consultant before commencement of the work.

H. Notice of Cancellation

The Consultant shall provide the City with written notice of any policy cancellation within two business days of their receipt of such notice.

I. Failure to Maintain Insurance

Failure on the part of the Consultant to maintain the insurance as required shall constitute a material breach of contract, upon which the City may, after giving five business days' notice to the Consultant to correct the breach, immediately terminate the contract, or at its discretion, procure or renew such insurance and pay any and all premiums in connection therewith, with sums so expended to be repaid to the City on demand, or at the sole discretion of the City, offset against funds due the Consultant from the City.

J. City Full Availability of Consultant Limits

If the Consultant maintains higher insurance limits than the minimums shown above, the City shall be insured for the full available limits of Commercial General and Excess or Umbrella liability maintained by the Consultant, irrespective of whether such limits maintained by the Consultant are greater than those required by this Agreement or whether any certificate of insurance furnished to the City evidences limits of liability lower than those maintained by the Consultant.

11. **Registered or Licensed Consultant.** The City is prohibited by RCW 39.06.010 from executing an Agreement with a Consultant who is not registered or licensed as required by the laws of the state. In addition, the City will require persons doing business with the City to possess a business license.

12. **Acceptance.** Consultant acknowledges and agrees that these General Provisions are incorporated in, and are a part of, each purchase order or other agreement relating to the provision of goods and/or services by Consultant. These General Provisions supersede all conflicting or additional terms pre-printed on any purchase order, quote, or otherwise set forth on any release, acknowledgement, confirmation, requisition, work order, shipping instruction, specification and similar document or communication.

13. **Inspection.** The Project Manager shall have power to reject instruments of services which fail to comply with the requirements of this Agreement, but in case of dispute the Consultant may appeal to the City's Public Works Director, whose decision shall be final. The Consultant shall comply with any and all orders and instructions given by the representative of the particular Department administering the Agreement in accordance with the terms of the Agreement. Nothing herein contained shall be taken to relieve the Consultant of his/her obligations or responsibilities under the Agreement. However, the Consultant shall be responsible for its own methods and conduct during the period of performance.

14. **Standard of Care.** The Consultant represents that Professional Services provided under this Agreement will be performed in a professional manner consistent with industry standards reasonably applicable to the performance of such services. The City's remedy shall be the re-performance of the Service or an equitable adjustment in the monies paid for the Professional Services, at the City's discretion.

15. **Discrimination Prohibited.** Consultant shall not discriminate against any employee or applicant for employment because of race, color, religion, age, sex, national origin or physical handicap.

16. **Consultant is an Independent Consultant.** The parties intend that an independent Consultant relationship will be created by this Agreement. No agent, employee or representative of the Consultant shall be deemed to be an agent, employee or representative of the City for any purpose. Consultant shall be solely responsible for all acts of its agents, employees, representatives and sub Consultants during the performance of this Agreement.

17. The City's Right to Terminate Agreement.

A. Termination for Default

If the Consultant defaults by failing to perform any of the obligations of the Agreement or becomes insolvent or is declared bankrupt or commits any act of bankruptcy or insolvency or makes an assignment for the benefit of creditors, the City may, by depositing written notice to the Consultant in the U.S. mail, postage prepaid, terminate the Agreement, and at the City's option, obtain performance of the work elsewhere. If the Agreement is terminated for default, the Consultant shall not be entitled to receive any further payments under the Agreement until all work called for has been fully performed. Any extra cost or damage to the City resulting from such default(s) shall be deducted from any money due or coming due to the Consultant. The Consultant shall bear any extra expenses incurred by the City in completing the work, including all increased costs for completing the work, and all damage sustained, or which may be sustained by the City by reason of such default. If a notice of termination for default has been issued and it is later determined for any reason that the Consultant was not in default, the rights and obligations of the parties shall be the same as if the notice of termination had been issued pursuant to the Termination for Public Convenience paragraph hereof.

B. Termination for Public Convenience

The City may terminate the Agreement in whole or in part whenever the City determines, in its sole discretion that such termination is in the best interests of the City. Whenever the Agreement is terminated in accordance with this paragraph, the Consultant shall be entitled to payment for actual work performed at unit Agreement prices for completed items of work. An equitable adjustment in the Agreement price for partially completed items of work will be made, but such adjustment shall not

include provision for loss of anticipated profit on deleted or uncompleted work. Termination of this Agreement by the City at any time during the term, whether for default or convenience, shall not constitute a breach of Agreement by the City.

18. **Changes/Additional Work** The City may engage Consultant to perform services in addition to those listed in this Agreement, and Consultant will be entitled to additional compensation for authorized additional services or materials. The City shall not be liable for additional compensation until and unless any and all additional work and compensation is approved in advance in writing and signed by both parties to this Agreement. If conditions are encountered which are not anticipated in the Scope of Services, the City understands that a revision to the Scope of Services and fees may be required. Provided, however, that nothing in this paragraph shall be interpreted to obligate the Consultant to render or the City to pay for services rendered in excess of the Scope of Services unless or until a modification to this Agreement is approved in writing by both parties.

19. **Non-waiver** Waiver by the City of any provision of this Agreement or any time limitation provided for in this Agreement shall not constitute a waiver of any other provision.

20. **Covenant Against Contingent Fees** The Consultant warrants that he has not employed or retained any company or person, other than a bona fide employee working solely for the Consultant, to solicit or secure this Agreement, and that he has not paid or agreed to pay any company or person, other than a bona fide employee working solely for the Consultant, any fee, commission, percentage, brokerage fee, gifts, or any other consideration contingent upon or resulting from the award of making of this Agreement. For breach or violation of this warranty, the City shall have the right to annul this Agreement without liability or, in its discretion to deduct from the Agreement price or consideration, or otherwise recover, the full amount of such fee, commission, percentage, brokerage fee, gift, or contingent fee.

21. **Disputes**

A. General

Differences between the Consultant and the City, arising under and by virtue of this Agreement shall be brought to the attention of the City at the earliest possible time in order that such matters may be settled or other appropriate action promptly taken. The provisions of this Clause shall survive the expiration or termination of this Agreement.

B. Notice of Potential Claims

The Consultant shall not be entitled to additional compensation which otherwise may be payable, or to extension of time for (1) any act or failure to act by the Contracting Agent or the City, or (2) the happening of any event or occurrence, unless the Consultant has given the City a written Notice of Potential Claim within 10 days of the commencement of the act, failure, or event giving rise to the claim, and before final payment by the City. The written Notice of Potential Claim shall set forth the reasons for which the Consultant believes additional compensation or extension of time is due, the nature of the cost involved, and insofar as possible, the amount of the potential claim. Consultant shall keep full and complete daily records of the Work performed, labor and all costs and additional time claimed to be additional.

C. Detailed Claim

The Consultant shall not be entitled to claim any such additional compensation, or extension of time, unless within 30 days of the accomplishment of the portion of the work from which the claim arose, and before final payment by the City, the Consultant has given the City a detailed written statement of each element of cost or other compensation requested and of all elements of additional time required, and copies of any supporting documents evidencing the amount or the extension of time claimed to be due.

D. Dispute Resolution

In the event of a dispute between the City and the Consultant arising of this Agreement, or any obligation hereunder the dispute shall first be referred to the representatives designated by the City and the Consultant to have oversight over the administration of this Agreement. Said representatives shall meet within thirty (30) calendar days of receipt of detailed claim, and the parties shall make a good faith effort to achieve a resolution of the dispute.

In the event the parties are unable to resolve the dispute under the procedure set forth above, then the parties hereby agree that the matter shall be referred to mediation. The parties shall mutually agree upon a mediator to assist them in resolving their differences. Any expenses incidental to mediation shall be borne equally by the parties.

If either party is dissatisfied with the outcome of the mediation, that party may then pursue any available judicial remedies.

23. **Force Majeure.** Definition: Except for payment of sums due, neither party shall be liable to the other or deemed in default under this Agreement if and to the extent that such party's performance of this Agreement is prevented by reason of force majeure. The term "force majeure" means an occurrence that is beyond the control of the party affected and could not have been avoided by exercising reasonable diligence. Force majeure shall include acts of God, war, riots, strikes, fire, floods, epidemics, or other similar occurrences. Notification: If either party is delayed by force majeure, said party shall provide written notification within forty-eight (48) hours. The notification shall provide evidence of the force majeure to the satisfaction of the other party. Such delay shall cease as soon as practicable and written notification of same shall be provided. The time of completion shall be extended by Agreement modification for a period of time equal to the time that the results or effects of such delay prevented the delayed party from performing in accordance with this Agreement. Rights Reserved: The City reserves the right to cancel the Agreement and/or purchase materials, equipment or services from the best available source during the time of force majeure, and Consultant shall have no recourse against the City.

24. **Compliance with Laws.** The Consultant in the performance of this Agreement shall comply with all applicable Federal, State or local laws and ordinances, including regulations for licensing, certification and operation of facilities, programs and accreditation, and licensing of individuals, and any other standards or criteria as described in the Agreement to assure quality of services.

25. **Venue and Choice of Law.** In the event that any litigation should arise concerning the services under this Agreement, interpretation of any of the terms of this Agreement, the venue of such action of litigation shall be in the Courts of the State of Washington in and for the County of Skagit. This Agreement shall be governed by the law of the State of Washington.

26. **Severability.** If any term or condition of this Agreement or the application thereof to any person(s) or circumstances is held invalid, such invalidity shall not affect other terms, conditions or applications which can be given effect without the invalid term, condition or application. To this end, the terms and conditions of this Agreement are declared severable.

27. **Survival of Agreement Termination.** The articles relating to Indemnification, Data Rights, Proprietary Information, Governing Law, and Venue and Choice of Law shall survive completion of the services, payment in full of the compensation and termination of this Agreement.

The parties acknowledge that there has been an opportunity to negotiate the terms and conditions of this Agreement and agree to be bound accordingly;

CITY OF ANACORTES

ELEMENTAL AIR

By _____
Laurie Gere, Mayor

By _____

Date _____

Printed Name _____

Title _____

Date _____

COA Contract 18-041-SEW-001

EXHIBIT A

Compliance Emissions Performance Test, Visible Emissions, RATA & Fugitive Ash Emissions Test Hydrogen Chloride and Sulfur Dioxide Optional Additions

Elemental Air will conduct Environmental Protection Agency (EPA) and Northwest Clean Air Agency (NWCAA) approved testing methodologies. This proposal defines the tasks to be performed, procedures to be utilized, and relevant capabilities and experience for this project.

1.0 Summary of Key Features

The proposed schedule for this project incorporates setup and all testing required on the fluidized bed incinerator. No deviations from required EPA methods are required.

Elemental Air will setup and conduct the required annual compliance, visible emission, and fugitive emission testing over four days. The RATA will also be performed concurrently on the day of 40 CFR Subpart O particulate matter testing. We will work constantly with City personnel to ensure a smooth testing operation as well as to determine approved fugitive emission testing periods for the ash removal system.

Options for additional sulfur dioxide and hydrogen chloride compliance testing and temporary CEMS monitoring have been included in this proposal.

2.0 Proposal Response

Testing Methodology

The methods are incorporated by reference in the Code of Federal Regulations, Title 40, Part 60 testing methodologies. The test methods to be utilized during this project are defined as follows:

Fluidized Bed Incinerator

Method #	Method Description	Abbreviation
1	Determination of Sample Points	Points
2	Determination of Velocity and Volumetric Flow	Flow
3A	Determination of Oxygen and Carbon Dioxide	CO ₂
4	Determination of Moisture Content	H ₂ O
5	Determination of Total Particulate Matter	TSP
6C	Determination of Sulfuric Acid	SO ₂
7E	Determination of Nitrogen Oxides	NO _x
9	Determination of Visible Emissions	VE
10	Determination of Carbon Monoxide	CO
22	Determination of Fugitive Emissions	FE

23	Determination of Dioxin/Furans	Dioxin
26A	Determination of Hydrogen Chloride	HCl
29	Determination of Metals Emissions	Metals
30B	Determination of Mercury	Mercury

Method 26A HCl testing and Method 5 PM testing will be combined.

Scope of Work

The goal of this project is to conduct compliance testing, visible and fugitive emissions, and a RATA on the fluidized bed incinerator.

Elemental Air will provide all the necessary equipment and personnel to conduct the proposed testing. The following items are included in the proposed costs.

- Field data reduction and preparation of compliance and RATA test reports.
- All necessary equipment, chemicals, gases, etc to complete this project.
- Safety equipment (hard hats, safety glasses, steel toed boots).
- Initial test plan, notification, and submittal
- Electronic copy of each test report.
- Two bound, printed copies of each test report.

Elemental Air requests the following be provided by City of Anacortes during each mobilization in order to complete this project.

- Safe access to the sample location (harnesses and lifeline provided by Elemental Air).
- Operation records during each test run.
- 1 – 220V power at the sample location for the test trailer
- 2-120V power outlets at the sample location.
- Coordination between test crew and operations to achieve the correct test parameters

3.0 Annual Compliance, RATA, and Addition Costs

Bid Basis and Assumptions

- Each bid provided is based on a proposed test schedule outlined in the following section. There may be on-site facility caused factors that require longer test schedules, changes to the test schedule, or delays and additional mobilizations which may incur additional charges upon approval of the client.
- The proposed 3.1 Compliance Testing & RATA cost includes all compliance, visible emissions, fugitive emission and RATA testing, lab analyses, audit sample analyses, labor, and reports.
- Audit samples will be analyzed for HCl, Metals, and Mercury.

3.1 Annual Compliance Testing & RATA Total Cost \$32,745.00

Compliance Testing:

Test Parameters:
TSP

Dioxin
HCl
Metals

Mercury

Reporting Parameters:

gr/kg dry sludge
mg/dscm@7%O₂
gr/dscf@7%O₂
lb/dry ton@7%O₂
ng/dscm7%O₂
ppm@7%O₂
µg/dscm, mg/dscm
mg/min, %removal
gr/24hr period

H ₂ O, O ₂ , CO ₂		%
NO _x , CO, SO ₂		ppm@7%O ₂
FE, VE		%
Length of Runs:	Mercury	90 minutes
	HCl	90 minutes
	TSP	60, 90 minutes
	Metals	120 minutes
	Dioxin	180 minutes
	NO _x , CO, SO ₂	90 minutes
	O ₂ , CO ₂	90 minutes
	FE	60 minutes
	VE	60 minutes

Number of Runs:	Mercury	3
	HCl	3
	TSP	6
	Metals	3
	Dioxin	3
	NO _x , CO, SO ₂	3
	O ₂ , CO ₂	3
	FE, VE	3

RATA Testing:

Test Parameters:	Reporting Parameters:
O ₂	%
CO	ppm

Length of Runs:	CO	21 minutes
	O ₂	21 minutes

Number of Runs:	CO	9-12
	O ₂	9-12

Combined Schedule:

Number of Mobilizations:	1
Number of Personnel:	3
Number of Test Days:	3

Proposal Schedule:	Day 1	Setup
	Day 2	Compliance Testing
	Day 3	Compliance Testing
	Day 4	Compliance & RATA Testing

3.2 SO₂ and HCl Compliance Test**Total Cost \$7,487.50**Compliance Testing:

Test Parameters:

SO₂

HCl

Reporting Parameters:

ppm@7%O₂ppm@7%O₂

Length of Runs:

SO₂

HCl

60-120 minutes

120 minutes

Number of Runs:

SO₂

HCl

3

3

Schedule:

Number of Mobilizations:

1

Number of Personnel:

2

Number of Test Days:

1

Proposal Schedule:

Day 1 TBD

Day 2 TBD

Setup

Compliance Testing

3.3 Temporary CEMS and DAHS**Rental Cost \$2,300.00 per month (30 days)
\$75.00 per day outside of 30 day periods****Initial Setup Cost \$860.00**Analyzer Rental:

Model:

Bovar 721-M

Parameters:

ppm SO₂% O₂Schedule:

Number of Mobilizations:

1

Number of Personnel:

1

Proposal Schedule:

TBD

Temporary CEMS & DAHS

Resume and Qualifications

Elemental Air has performed hundreds of the required tests over the years for multiple clients in addition to the specific facilities and tests below. All project supervisors and managers will be Qualified Source Testing Individuals. In addition, Mr. Sebastian Wolfendale has performed compliance and RATA testing at the City of Bellingham WWTP and City of Anacortes WWTP facilities multiple times since 2012. Elemental Air is a member of ISNetworld and an AETB Compliant Company with over 20 years air testing and consulting experience.

Facility:	City of Bellingham Wastewater Treatment Plant
Location:	Bellingham, WA
Test Date:	February, 2017
Test Methodology:	EPA 1-5, 6C, 7E, 10, 22, 23, 26A, 29
Brief Description:	Elemental Air has performed multiple RATAs for City of Bellingham WWTP in addition to 40 CFR 62 Subpart LLL compliance testing in February, 2017.

Facility:	Polk County Solid Waste Incinerator
Location:	Fosston, MN
Test Date:	April, 2017
Test Methodology:	EPA 1-5, 6C, 7E, 10, 22, 23, 26, 29, 202
Brief Description:	Elemental Air has performed emission testing for Polk County for multiple years including RATAs and compliance testing on their incinerator.

Facility:	Olmsted Waste-to-Energy Facility
Location:	Rochester, MN
Test Date:	April, 2017
Test Methodology:	EPA 1-5, 6C, 7E, 10, 9, 23, 26, 29, 202
Brief Description:	Elemental Air has performed emission testing for Olmsted's Waste-to-Energy multiple units for many years including RATAs and compliance testing.

Laboratory Analysis

Elemental Air will be contracting the analysis of compliance samples collected for Metals, Dioxins/Furans, and Hydrogen Chloride to Maxxam Analytics in Mississauga, Ontario which we have used historically. Particulate matter and Mercury analyses will be conducted in our Medina, MN lab.

Appendix A - Itemized Cost List

Fixed Quote Delay/Additional Testing Charges

In the event of plant related delays or additions to the scope of work the following rates will be used:

Hourly Delays

Number of Personnel at the site x \$75/Hour

Daily Delays

Number of Personnel at the site x \$75 x Eight (8) Hours

+

Number of Personnel at the site x \$170 (Living Expenses)

+

\$1,000 Equipment Fees

Additional Test Days

Additional test days will be calculated the same as a delay day plus the cost of analysis and supplies

Time and Materials Rates/Additional Testing Charges

Parameter and Rate	
Principle	\$100/hr
Project Manager	\$90/hr
Testing Supervisor	\$75/hr
Engineering	\$75/hr
Technician III	\$65/hr
Technician II	\$60/hr
Technician I	\$55/hr
Information Systems	\$60/hr
Administration	\$65/hr
Printed Copy of Report	\$100/report
Per Diem (Hotel, Car, Food)	Cost + 10%
Supplies or Equipments Supplied by Elemental Air	Cost + 15%
Mileage*	\$0.85/Mile for cars and light trucks \$1.65/Mile for service and test trucks

Terms and Conditions:

A minimum of eight (8) hours will be billed for any on-site work required during the project. Delays solely the cause of Elemental Air shall not incur additional costs to the buyer. Operational delays cause by the plant will be billed at the above delay rates. Hourly rates are based on a standard eight (8) hour workday between 8:00 AM to 5:00 PM, Monday through Friday, local time. All hours in excess or outside of the eight (8) hour period and those worked on Saturday, including travel, are charges at 1.5 times the above listed rates. Holiday rates shall be two (2) times the above listed rates.

Report Delivery Schedule:

Turnaround time for the test report drafts is 21-28 days upon completion of the testing portion of the project. If an expedited report is requested, all necessary expedited charges to include lab rush fee will be agreed upon in the project cost. Process data for inclusion in the report is required within 16 days of the testing portion of the project. Failure to provide the required process data may delay the report beyond the 21-28 days and void any obligation to meet state required deadlines. All efforts will be made to meet all applicable deadlines in any event and may require additional fees if incomplete submissions of the report are made to meet the required deadlines. ERT Reporting will be submitted on behalf of City of Anacortes with approval, within 60 days.

Appendix B - Test Method Procedures

1.0 Determination of Sample Point Locations

REF: Code of Federal Regulations, Title 40, Part 60, Appendix A, Method 1

Stack Dimensions

Number of Ports:	2
Diameter:	12 inches
Port Depth:	4 inches
Distance Upstream of Ports:	42 inches
Distance Downstream of Ports:	100 inches
Total Number of Points:	8
Number of Points per Port:	4

Point Dimensions (includes port nipple)

Point 1	4.80	inches
Point 2	7.00	inches
Point 3	13.00	inches
Point 4	15.20	inches

2.0 Determination of Velocity and Volumetric Flow

REF: Code of Federal Regulations, Title 40, Part 60, Appendix A, Method 2

Measurement System

A combination Stausscheibe (Type S) pitot tube and type K thermocouple will be used to measure duct velocity head and temperature. The pitot tube is connected via flexible tubing to an inclined manometer. The thermocouple is connected to a digital potentiometer.

Measurement Procedure

Subsequent to sampling, traverse points are selected based on Method 1 requirements. The locations of the traverse points will be presented in Section 1.0 and the reduced field data sheets. A traverse of the stack is performed to determine stack velocity head, temperature distributions, cyclonic flow, and stack static pressure.

Calculations

Method 2 - Stack Absolute Pressure

$$P_s = P_{\text{Barometric}} + \left(\frac{P_{sg}}{13.6} \right)$$

- P_s = Stack absolute pressure, inHg
 P_{bar} = Barometric pressure, inHg
 P_{sg} = Stack static pressure, IWG

Method 2 - Stack Velocity

$$v_s = K_p C_p (\sqrt{\Delta P})_{avg} \sqrt{\frac{T_{s(avg)}}{P_s M_s}}$$

- v_s = Stack velocity, ft/sec
 ΔP = Average velocity head, in H₂O
 C_p = Pitot tube coefficient, dimensionless
 T_s = Stack absolute temperature, °R
 P_s = Stack absolute pressure, inHg
 M_s = Molecular weight of stack gas, wet basis, lb/lb-mole
 K_p = Pitot tube constant, 85.49

Method 2 - Stack Volumetric Flow Rate (actual)

$$Q = v_s * A_s * 60$$

- Q = Wet stack gas flow rate at actual conditions, WACFM
 v_s = Stack velocity, ft/sec
 A_s = Stack area, ft²

Method 2 - Stack Volumetric Flow Rate (wet - Std)

$$Q_{ws} = Q * \frac{T_{std}}{T_s} * \frac{P_s}{P_{std}}$$

- Q_{ws} = Wet stack gas flow rate at standard conditions, WSCFM
 T_{std} = Standard absolute temperature, 528 °R
 T_s = Stack absolute temperature, °R
 P_s = Stack absolute pressure, inHg
 P_{std} = Standard absolute pressure, 29.92 inHg

Method 2 - Stack Volumetric Flow Rate (dry - Std)

$$Q_{sd} = Q * (1 - B_{ws}) * \frac{T_{std}}{T_s} * \frac{P_s}{P_{std}}$$

Q_{std}	= Dry stack gas flow rate at standard conditions, DSCFM
Q	= Wet stack gas flow rate at actual conditions, WACFM
B_{ws}	= Flue gas moisture content, proportion by volume, dimensionless
T_{std}	= Standard absolute temperature, 528 °R
T_s	= Stack absolute temperature, °R
P_s	= Stack absolute pressure, inHg
P_{std}	= Standard absolute pressure, 29.92 inHg

3.0 Determination of Molecular Weight and Moisture Content

REF: Code of Federal Regulations, Title 40, Part 60, Appendix A, Methods 3 and 4

Sampling System

A stainless steel probe is connected to the impinger train, which consists of a set of pre-weighed impingers connected in series and immersed in an ice bath. The impinger train is followed in series by a carbon vane pump, a dry test meter, and a calibrated orifice connected to an inclined manometer. A Tedlar bag may be used to collect an integrated Method 3 sample.

Measurement Procedure

Prior to sampling, a leak check is performed and the leak rate, time, and vacuum is recorded on the stack test data sheet. Following the leak check, the sample probe is inserted into the stack and the pump turned on. The sample time is calculated based on a minimum sample volume of 21 cubic feet and a sample rate of 0.75 cubic feet per minute. At the conclusion of sampling, a final leak check is performed and recorded on the data sheet.

Calculations

Method 3 - Flue Gas Molecular Weight (dry)

$$M_d = (.44 \%CO_2 + .32 \%O_2 + .28 (\%N_2 + \%CO))$$

M_d = Molecular weight of flue gas (dry), lb/lb-mole

Method 3 - Flue Gas Molecular Weight (wet)

$$M_w = (.44 \%CO_2 + .32 \%O_2 + .28 (\%N_2 + \%CO)) \left(1 - \frac{\%H_2O}{100} \right) + .18 \%H_2O$$

M_w = Molecular weight of flue gas (wet), lb/lb-mole

Method 3 - Flue Gas Molecular Weight (wet)

$$M_w = M_d (1 - B_{ws}) + 18.0 B_{ws}$$

M_w = Molecular weight of flue gas (wet), lb/lb-mole

M_d = Molecular weight of flue gas (dry), lb/lb-mole
 B_{ws} = Flue gas moisture content, proportion by volume, dimensionless

Method 4 - Flue Gas Moisture Content

$$B_{ws} = \frac{V_{wc (std)}}{(V_{m (std)} + V_{wc (std)})}$$

B_{ws} = Flue gas moisture content, proportion by volume, dimensionless
 $V_{wc (std)}$ = Volume of water vapor at standard conditions, SCF
 $V_{m (std)}$ = Dry meter volume at standard conditions, DSCF

Method 4 - Volume of Water Vapor (Std)

$$V_{wc (std)} = 0.04715 V_{lc}$$

$V_{wc (std)}$ = Volume of water vapor at standard conditions, SCF
 V_{lc} = Volume of liquid collected in the impingers, mL

4.0 Determination of Particulate Matter

REF: Code of Federal Regulations, Title 40, Part 60, Appendix A, Methods 1-5

Sampling System

A curved sample nozzle is connected via a "Swage-Lok" fitting to a heated probe liner. The probe liner is attached to a heated glass filter holder containing a glass fiber filter. The exit to the filter holder is connected to the impinger train, which consists of a set of pre-weighed impingers connected in series and immersed in an ice bath. The impinger train is followed in series by a carbon vane pump, a dry test meter, and a calibrated orifice connected to an inclined manometer. A Tedlar bag may be used to collect an integrated Method 3 sample. Type K thermocouples are used to measure the following temperatures: probe heater, filter heater, impinger outlet, and dry test meter inlet and outlet.

A combination Stausscheibe (Type S) pitot tube and type K thermocouple are used to measure duct velocity head and temperature. The pitot tube is connected via flexible tubing to an inclined manometer. The thermocouple is connected to a digital potentiometer.

Sampling Procedure

Prior to sampling, traverse points are selected based on Method 1 requirements. The locations of the traverse points are presented in the reduced field data sheets. A preliminary traverse of the stack is performed to determine stack velocity head, temperature distributions, cyclonic flow, and stack static pressure. If necessary, preliminary runs by Methods 3 and 4 are performed to determine duct moisture and fixed gas content. Based on this information, a sample nozzle of appropriate inside diameter is selected, and the impinger train charged. Sample time per traverse point is estimated in order that a minimum of 60 dscf of sample will be collected.

The apparatus is assembled as completely as possible in the staging area and transported to the sample site. By sealing all openings with aluminum foil, potential contamination of the sample train is prevented. Once in the sampling area, the probe and filter heaters are brought to temperatures of $248 \pm 25^\circ\text{F}$, and the apparatus is leak checked. Upon successful completion of the leak check, the initial dry test meter reading is recorded, and the probe inserted at the first traverse point.

The stack temperature, dry test meter temperature, and the velocity head across the pitot is measured and recorded on the data sheet. The isokinetic sampling rate in terms of pressure drop across the calibrated orifice is calculated and recorded on the data sheet. The pump and timer are turned on, and the sample rate adjusted to correspond to the calculated isokinetic rate. Once the sample rate is set, the following data is recorded:

- Dry Gas Meter Volume
- Dry test meter outlet temperature
- Sample vacuum
- Probe heater temperature
- Filter heater temperature
- Impinger outlet temperature

At the end of the sample time for the first point, the probe is moved to the next point, and the measurements, calculations and recording of data is repeated. Upon completion of sampling from a port, the pump is turned off and the dry test meter reading recorded. The probe is removed from the stack, and placed in the next sample port. The previously described procedure is repeated for each sample port.

When the sample run is completed, the final dry test meter reading is recorded and the probe removed from the port. A post-test leak check is performed at a vacuum higher than the highest sample vacuum measured during the sample run. The final leak rate is recorded on the data sheet. The sample train is sealed from contamination and transported to the staging area for recovery.

Sample Recovery

Sample is recovered in two fractions: front half and back half. The front half fraction consists of the filter itself, as well as, acetone rinses and brushings of: the nozzle, the probe liner; and the front half of the filter holder. The filter is recovered to a labeled petri dish made of glass or plastic. Acetone rinses are recovered to a labeled, clean polyethylene bottle. The liquid level in the polyethylene bottle is marked upon completion of recovery.

Prior to recovery of the back half fraction, the exterior of each impinger is cleaned and dried, and the net weight gain of each is determined to the nearest 0.1 gram. The back half fraction consists of the liquid impinger catch and rinses of the impingers and all connecting glassware. Glassware rinses are recovered to a clean, labeled polyethylene or glass bottle. The liquid level of the bottle is marked upon completion of recovery.

At the conclusion of each day of sampling, reagent and recovery solvent blanks are collected into the same types of containers as are used for sample recovery. The blank containers are clearly labeled, and the liquid levels marked.

Analytical Procedure

Prior to analysis, back half fraction and blanks are checked for liquid loss, and the liquid volume of each sample bottle determined. The back half fraction is extracted with methylene chloride or chloroform/ether and analyzed gravimetrically. Each sample is extracted three times with 125 ml of methylene chloride in a separatory funnel. After each extraction, the organic (solvent) fraction is decanted. The organic (solvent) and aqueous (water) fractions are placed in individual tared beakers. The organic fraction is evaporated at ambient temperature and pressure, while the aqueous fraction is evaporated at just below the boiling point. After evaporation, the beakers are desiccated for 24 hours, and weighed until consecutive weightings agree to within 0.5 mg.

Calculations

Method 5 - Area Nozzle

$$A_n = \pi r^2$$

A_n = Area of the sample nozzle, ft²

r = Radius of the nozzle, ft

V_{lc} = Volume of liquid collected in the impingers, mL

Method 5 - Volume of Sample Collected (Std)

$$V_{m(std)} = 17.64 V_m Y \left(\frac{P_{barometric} + \frac{\Delta H}{13.6}}{T_m} \right)$$

$V_{m(std)}$ = Dry meter volume at standard conditions, DSCF

V_m = Dry meter volume uncorrected, DCF

Y = Meter calibration coefficient

P_{bar} = Barometric pressure, inHg

ΔH = Orifice pressure differential, IWG

T_m = Meter temperature, °R

17.64 = °R/inHg

Method 5 - Percent of Isokinetic Sampling

$$I = \frac{100 T_s [K_3 V_{lc} + (V_m Y / T_m)(P_{barometric} + \Delta H / 13.6)]}{60 \theta v_s P_s A_n}$$

I = % Isokinetics

T_s = Absolute average stack gas temperature, °R

K_3 = 0.002669 inHg-ft³/mL-°R

V_m = Volume of gas sample as measured by the dry gas meter, DCF

Y = Dry gas meter calibration factor

V_{lc} = Volume of liquid collected in the impingers, mL

θ = Sample time, minutes

P_{bar} = Barometric pressure at the sampling site, inHg

ΔH = Average pressure differential across the orifice meter, in H₂O

v_s = Stack velocity, ft/sec

P_s = Stack absolute pressure, inHg

A_n = Cross sectional area of nozzle, ft²

T_m = Absolute average dry gas meter temperature, °R

Method 5 - Particulate Emission Rate (grains)

$$C_s = 0.01543 \left(\frac{M_n}{V_{m \text{ (std)}}} \right)$$

C_s = Grains per dry standard cubic foot
 M_n = Mass of collected particulate, mg
 $V_{m \text{ (std)}}$ = Dry meter volume at standard conditions, DSCF

Method 5 - Particulate Emission Rate (lbs)

$$E = C_s * Q_{sd} * \frac{60 \text{ min/hr}}{7000 \text{ gr/lb}}$$

E = Pounds per hour, particulates
 C_s = Particulate grain loading, gr/DSCF
 Q_{sd} = Dry stack gas flow rate at standard conditions, DSCFM

5.0 Determination of Multiple Metals

REF: Code of Federal Regulations, Title 40, Part 60, Method 29

Sampling System

A curved sample nozzle is connected via a "Swage-Lok" fitting to a heated glass probe liner. The probe liner is attached to a heated glass filter holder containing a glass fiber filter. The exit to the filter holder is connected to the impinger train which consists of a set of pre-weighed impingers connected in series and immersed in an ice bath. The impinger train is followed in series by a carbon vane pump, a dry test meter, and a calibrated orifice connected to an inclined manometer. A Tedlar bag may be used to collect an integrated Method 3 or 3A sample. Type K thermocouples are used to measure the following temperatures: probe heater, filter heater, impinger outlet, and dry test meter inlet and outlet.

A combination Stausscheibe (Type S) pitot tube and type K thermocouple are used to measure duct velocity head and temperature. The pitot tube is connected via flexible tubing to an inclined manometer. The thermocouple is connected to a digital potentiometer.

Sampling Procedure

Prior to sampling, traverse points are selected based on Method 1 requirements. The locations of the traverse points are presented in the reduced field data sheets. A preliminary traverse of the stack is performed to determine stack velocity head, temperature distributions, cyclonic flow, and stack static pressure. If necessary, preliminary runs by Methods 3 and 4 are performed to determine duct moisture and fixed gas content. Based on this information, a sample nozzle of appropriate inside diameter is selected, and the impinger train charged. Sample time per traverse point is estimated in order to collect the minimum dscf of sample.

The apparatus is assembled as completely as possible in the staging area and transported to the sample site. Potential contamination of the sample train was prevented by sealing all openings. Once in the sampling area, the probe and filter heaters were brought to temperatures of $248 \pm 25^\circ\text{F}$, and the apparatus is leak checked. Upon successful completion of the leak check, the initial dry test meter reading is recorded, and the probe inserted at the first traverse point.

The stack temperature, dry test meter temperature, and the velocity head across the pitot is measured and recorded on the data sheet. The isokinetic sampling rate in terms of pressure drop across the calibrated orifice is calculated and recorded on the data sheet. The pump and timer are turned on, and the sample rate adjusted to correspond to the calculated isokinetic rate. Once the sample rate is set, the following data is recorded:

- Dry Gas Meter Volume
- Dry test meter outlet temperature
- Sample vacuum
- Probe heater temperature
- Filter heater temperature
- Impinger outlet temperature

At the end of the sample time for the first point, the probe is moved to the next point, and the measurements, calculations and recording of data was repeated. Upon completion of sampling from a port, the pump is turned off and the dry test meter reading recorded. The probe is removed from the stack, and placed in the next sample port. The previously described procedure is repeated for each sample port.

When the sample run is completed, the final dry test meter reading is recorded and the probe removed from the port. A post-test leak check is performed at a vacuum higher than the highest sample vacuum measured during the sample run. The final leak rate is recorded on the data sheet. The sample train is sealed from contamination and transported to the staging area for recovery.

Sample Recovery

Sample is recovered as follows: The filter is recovered to a petri dish labeled container number 1. The nozzle, probe, and front half of the filter holder are rinsed 3 times with 0.1N HNO₃ and added to container number 2. The back half of the filter holder and impingers 1 and 2 are recovered and rinsed with 0.1N HNO₃ into container 3. Impinger 3 is rinsed with 0.1N HNO₃ and added to container number 4. Impingers 4 and 5 are rinsed with 10% H₂SO₄ / 4%KMNO₄ followed by rinses with 0.1N HNO₃ and added to container number 5. All samples are recovered to a labeled, clean bottle. The liquid level in the bottle is marked upon completion of recovery. All samples are shipped to the laboratory for analysis in a cooler containing ice.

Prior to recovery of the impinger fractions, the exterior of each impinger is cleaned and dried, and the net weight gain of each is determined to the nearest 0.1 gram for the moisture calculation.

Method field blanks are prepared using the same reagents and using the same recovery for the test samples. The blank containers are clearly labeled, and the liquid levels marked.

Analytical Procedure

The results of this analysis will be presented both in the calculated field data and on the field data sheets. Prior to analysis, the samples are checked for liquid loss. The procedures used to perform the analysis follow EPA Method 29 requirements. The laboratory results and quality control will be provided in Appendix D of the report.

Methods 29 - Metals Concentration

$$C_{ug / dscm} = Hg / V_{m(std)}$$

$$C_{ug/dscm} = \text{Concentration of metal, ug/dscm}$$

Hg = Total metal in sample, ug
 $V_{m(std)}$ = Volume of gas sample collected and corrected to standard conditions, dscm

Methods 29 - Metals Concentration

$$C_{ug / dscm @ 7\% O_2} = C_{ug / dscm} * (13.9 / (20.9 - O_2))$$

C = Concentration of metal, ug/dscm @ 7% O_2
 $C_{ug/dscm}$ = Concentration of metal, ug/dscm
 O_2 = Oxygen percent measure in duct, %

6.0 Determination of Dioxin/Furans

REF: Code of Federal Regulations, Title 40, Part 60, Appendix A, Methods 2-4, 23

Sampling System

A curved sample nozzle is connected via a "Swage-Lok" fitting to a heated probe liner. The probe liner is attached to a heated glass filter holder containing a pre-screened glass fiber filter. The exit to the filter holder is connected to the condenser followed by the XAD-2 resin trap. The XAD-2 resin trap is connecting directly to the impinger train, which consists of a set of pre-weighed impingers connected in series and immersed in an ice bath. The impinger train is followed in series by a carbon vane pump, a dry test meter, and a calibrated orifice connected to an inclined manometer. A Tedlar bag is used to collect an integrated Method 3 sample, in addition, a portable O_2 monitor was used to measure the oxygen content at each point for the 7% O_2 correction. Type K thermocouples are used to measure the following temperatures: probe heater, filter heater, impinger outlet, and dry test meter inlet and outlet.

A combination Stausscheibe (Type S) pitot tube and type K thermocouple are used to measure duct velocity head and temperature. The pitot tube is connected via flexible tubing to an inclined manometer. The thermocouple is connected to a digital potentiometer.

Sampling Procedure

Prior to sampling, traverse points are selected based on Method 1 requirements. The locations of the traverse points are presented in the reduced field data sheets. A preliminary traverse of the stack is performed to determine stack velocity head, temperature distributions, cyclonic flow, and stack static pressure. If necessary, preliminary runs by Methods 3 and 4 are performed to determine duct moisture and fixed gas content. Based on this information, a sample nozzle of appropriate inside diameter is selected, and the impinger train charged. Sample time per traverse point is estimated in order to collect the minimum dscf of sample.

The apparatus is assembled as completely as possible in the staging area and transported to the sample site. Sealing all openings with hexane rinsed aluminum foil prevent potential contamination of the sample train. Once in the sampling area, the probe and filter heaters are brought to temperatures of $248 \pm 25^\circ F$, and the apparatus is leak checked. Upon successful completion of the leak check, the initial dry test meter reading is recorded, and the probe inserted at the first traverse point.

The stack temperature, dry test meter temperature, and the velocity head across the pitot is measured and recorded on the data sheet. The isokinetic sampling rate in terms of pressure drop across the calibrated orifice is calculated and recorded on the data sheet. The pump and timer are turned on, and the sample rate adjusted to correspond to the calculated isokinetic rate. Once the sample rate is set, the following data is recorded:

- Dry Gas Meter Volume
- Dry test meter outlet temperature
- Sample vacuum
- Probe heater temperature
- Filter heater temperature
- Impinger outlet temperature

At the end of the sample time for the first point, the probe is moved to the next point, and the measurements, calculations and recording of data are repeated. Upon completion of sampling from a port, the pump is turned off and the dry test meter reading recorded. The probe is removed from the stack, and placed in the next sample port. The previously described procedure is repeated for each sample port.

When the sample run is completed, the final dry test meter reading is recorded and the probe removed from the port. A post-test leak check is performed at a vacuum higher than the highest sample vacuum measured during the sample run. The final leak rate is recorded on the data sheet. The sample train is sealed from contamination and transported to the staging area for recovery.

Sample Recovery

Sample is recovered as follows: The filter is recovered to a labeled petri dish made of glass and labeled container number 1. The nozzle, probe, front half and back half of the filter holder, and the condenser are rinsed 3 times with acetone and methylene chloride and added to container number 2. The same procedure for container number 2 is followed using toluene as the rinse solvent and added to container number 3. All samples are recovered to a labeled, clean amber glass bottle. The liquid level in the bottle is marked upon completion of recovery. The XAD-2 resin trap is sealed and labeled container number 4. All samples are shipped to the laboratory for analysis in a cooler containing ice.

Prior to recovery of the impinger fraction, the exterior of each impinger is cleaned and dried, and the net weight gain of each is determined to the nearest 0.1 gram. The impinger fraction consists of the liquid impinger catch and rinses of the impingers. The impinger catch is recovered and stored for later analysis in the event that break-through is discovered from the trap. The liquid level of the bottle is marked upon completion of recovery.

A field blank is prepared using the same reagents and using the same recovery for the test samples. The blank containers are clearly labeled, and the liquid levels marked.

Analytical Procedure

Prior to analysis, the samples are checked for liquid loss. The procedures used to perform the analysis followed EPA Method 23 requirements. The laboratory results and Quality Control are provided in Appendix D of the report.

7.0 Determination of Hydrogen Chloride

REF: Code of Federal Regulations, Title 40, Part 60, Appendix A, Methods 26A

Sampling System

A heated glass probe liner is attached to a heated glass filter holder containing a teflon mat filter. The exit to the filter holder is connected to the impinger train, which consists of a set of impingers containing 0.1 N H₂SO₄ connected in series and immersed in an ice bath. The impinger train is followed in series by a pump and dry test meter. A Tedlar bag may be used to collect an integrated Method 3 sample. Type K thermocouples are used to measure the following temperatures: probe heater, filter heater, impinger outlet, and dry test meter inlet and outlet. The thermocouple is connected to a digital potentiometer.

Sampling Procedure

The sample time of 60 minutes at approximately 0.75 acf per minute is selected. The apparatus is assembled as completely as possible in the staging area and transported to the sample site. Sealing all openings with aluminum foil prevents potential contamination of the sample train. Once in the sampling area, the probe and filter heaters are brought to temperatures of $248 \pm 25^\circ\text{F}$, and the apparatus is leak checked. Upon successful completion of the leak check the probe is inserted at the sample point. The sample probe and filter are then conditioned for 5 minutes prior to sampling by drawing flue gas through the probe and filter bypassing the impingers. Upon completion of the purge, the initial dry test meter reading is recorded.

The pump and timer are turned on and the sample rate adjusted to 0.75 acf per minute. Once the sample rate was set, the following data is recorded:

- Dry Gas Meter Volume
- Dry Gas Meter inlet temperature
- Dry Gas Meter outlet temperature
- Probe heater temperature
- Filter heater temperature
- Impinger outlet temperature

When the sample run is completed, the final dry test meter reading is recorded and the probe removed from the port. A post-test leak check is performed at a vacuum higher than the highest sample vacuum measured during the sample run. The final leak rate is recorded on the data sheet. The sample train is then recovered.

Sample Recovery

Each impinger's content and rinses are recovered into a clean sample bottle and clearly labeled and liquid levels marked. Reagents blanks are collected into the same types of sample containers as were used for the sample recovery. The blank containers are clearly labeled, and the liquid levels marked.

Analytical Procedure

The Method 3A sample is analyzed in the field with the CEMS. The results of this analysis are presented in the calculated field data.

Prior to analysis, the samples are checked for liquid loss. The procedures used to perform the analysis followed EPA Method 26 requirements. The laboratory results and quality control are provided in Appendix D of the report.

Calculations

Methods 26 - Volume of Sample Collected (Std)

$$V_{m(std)} = 17.64 V_m Y \left(\frac{P_{barometric} + \frac{\Delta H}{13.6}}{T_m} \right)$$

- $V_{m(std)}$ = Dry meter volume at standard conditions, DSCF
- V_m = Dry meter volume uncorrected, DCF
- Y = Meter calibration coefficient
- P_{bar} = Barometric pressure, inHg

DH = Orifice pressure differential, IWG
 T_m = Meter temperature, °R
 17.64 = °R/inHg

Method 26 - Hydrogen Chloride Per Sample

$$C_{ug / sample} = V_s * (C_s - C_b)$$

$C_{ug/sample}$ = Concentration of Hydrogen Chloride, ug/sample
 V_s = Volume of sample, ml
 C_s = Concentration of sample, ug/ml
 C_b = Concentration of blank, ug/ml

Method 26 - Hydrogen Chloride Concentration

$$C_{ppm} = ((C_{ug / sample} * E10^{-6} * 0.0022 / 36.46 * 10.91048) / V_m) * E10^6$$

C_{ppm} = Hydrogen Chloride Concentration, ppm
 $C_{ug/sample}$ = Total Hydrogen Chloride per sample, ug/sample
 V_m = Dry meter volume, dscm

8.0 Determination of Gaseous Emissions

REF: Code of Federal Regulations, Title 40, Part 60, Appendix A, Methods 3A, 6C, 7E, 10

Sampling System

A sintered metal filter is connected via a "Swage-Lok" fitting to a heated stainless steel probe. The probe is attached to a heated Teflon sample line maintained at 250 °F followed by a sample conditioning system to remove moisture. The dry conditioned sample is transported under pressure via a Teflon sample line to the sample manifold by a Teflon lined diaphragm pump. The sample manifold maintains the proper sample pressure to each analyzer

Calibration Procedure

Once the analyzer has a sufficient warm up period and after all adjustments to the analyzer are complete, a local calibration error check is completed. The local calibration error check consists of introducing calibration gas directly into the analyzer. These calibrations are performed using three calibration gases: a zero gas (nitrogen); a mid range gas (40% to 60% of the analyzer range); and a high range gas (100% of the analyzer range). All upscale calibration gases are NIST Traceable to 1% (Protocol 1). The analyzer response must be within 2% of the analyzer range or the calibration procedure is repeated. This procedure is completed at the beginning and at the end of the sampling day or when adjustments to the analyzers are necessary.

Following the local calibration error procedures, the system bias check is completed. The system bias consists of introducing an upscale and zero gas into the sample probe tip allowing the entire system to be evaluated. The upscale gas is selected based on the value that is closest to the expected concentration. The system bias check must be within 5% of the analyzer range or the entire calibration procedure is repeated and the test run thrown out. The system calibration procedure is completed before and after each test period.

The pre and post system bias is used to calculate the analyzer drift over the test period. If the difference exceeded 3% of the analyzer range the calibration procedure is repeated.

Sampling Procedure

Prior to sampling, a leak check of the sample system is conducted by plugging the probe opening. An acceptable leak check is achieved when the sample flow reaches zero. Sampling begins by adjusting the system pressure to 5 psi and the individual analyzer flow rates to 2 SCFH. The test results are continuously recorded on a strip chart and an ASCII text file for data manipulation.

Calculations

$$C_{gas} = (C - C_o) \frac{C_{ma}}{C_m - C_o}$$

- C_{gas} = Effluent gas concentration, dry basis, ppm
 C = Average gas concentration indicated by gas analyzer, dry basis, ppm
 C_o = Average initial and final system cal. bias check response for the zero gas, ppm
 C_{ma} = Actual concentration of upscale calibration gas, ppm
 C_m = Average initial & final system cal bias check responses for upscale cal gas, ppm

$$C_b = \frac{(C_s - C_l)}{S} * 100$$

- C_b = System calibration bias check, % of span
 C_s = System analyzer calibration response, ppm
 C_l = Local analyzer calibration response, ppm
 S = Analyzer span range

$$C_e = \frac{(C_l - C_a)}{S} * 100$$

- C_e = Analyzer calibration error check, % of span
 C_l = Local analyzer calibration response, ppm
 C_a = Actual concentration of calibration gas cylinder, ppm

$$D = \frac{(C_{sf} - C_{si})}{S} * 100$$

- D = Analyzer drift, % of span
 C_{sf} = Final system analyzer calibration response, ppm
 C_{si} = Initial system analyzer calibration response, ppm
 S = Analyzer span range

$$E = \frac{C_{gas} Q_{sd} 60 MW}{10^6 V_i}$$

- E = Pounds per hour of gaseous pollutant, lb/hr
 C_{gas} = Effluent gas concentration, dry basis, ppm

Q_{sd} = Dry stack gas flow rate at standard conditions, DSCFM
 MW = Molecular weight of pollutant, lb/lb-mole

9.0 Determination of Total Vapor Phase Mercury

REF: Code of Federal Regulations, Title 40, Part 60, Appendix A, Method 30B

Sampling System

The carbon traps are attached directly to the probe tip followed by Teflon sample lines and sample conditioning systems to remove moisture. The dry conditioned sample is transported under vacuum through a Teflon sample line. The sampling rate is regulated and the sample volume is measured using a calibrated dry gas meter, which is integral to the fully digital sampling console. Relative accuracy determination for Hg CEMS requires paired trains, therefore two systems are operated simultaneously and controlled by the same software for synchronous measurement.

Sampling Procedure

Prior to sampling, traverse points are selected based on EPA recommendations for tests conducted before January 1, 2009. The target sample volume, rate, and run times are calculated based on estimated Hg concentrations.

At the sampling area, the carbon tubes are attached to the probe and the apparatus is leak checked. Upon successful completion of the leak check, the initial dry test meter reading is recorded, and the probe is inserted at the first traverse point.

The stack temperature and dry test meter temperature is logged by the computer based data acquisition and control system. The sampling rate, in terms of liters per minute, is measured and maintained using the computer control interface. The pump and timer are turned on, and the sample rate is adjusted to correspond to the calculated rate. Once the sample rate is set, the following data is recorded:

- Dry Gas Meter Volume
- Dry test meter outlet temperature
- Sample vacuum
- Liters per Minute

Sampling time is equally distributed over the series of sampling points. At the end of the sample time for the first point, the probe is repositioned at the next point. Measurements, calculations, and data acquisition are performed by the computer control system on a continuous basis.

When the sample run is completed, the final dry test meter reading is recorded and the probe removed from the port. A post-test leak check is performed at a vacuum higher than the highest sample vacuum measured during the sample run. The final leak rate is recorded on the data sheet. The carbon tubes are sealed from contamination and transported to the onsite mobile laboratory analysis.

Analytical Procedure

The paired carbon tubes for each run are analyzed via an on-site or lab thermal desorption Hg analyzer per the requirements outlined in EPA Method 30B.

10.0 Determination of Visible & Fugitive Emissions

REF: Code of Federal Regulations, Title 40, Part 60, Appendix A, Method 9, 22

Positioning of the observer

The opacity of the plume as viewed by the observer can be influenced due to several variables with respect to the position of the observer.

- The position of the observer with respect to the sun.
- The position of the observer with respect to the observation point.
- Whether a steam plume is attached or detached.
- The position of the observer with respect to high length to width ratios on a rectangular stack.

The acceptable criteria for the position the observer is outlined in Method 9 as follows:

- 1) The observer must maintain a position with the sun located at a 140° arc to the observer's back.
- 2) The observer should maintain an angle of >18° with respect to the observation point.
- 3) The observer must read the opacity where a steam plume does not interfere. Between the stack and the steam plume if the steam plume is detached from the stack. After the steam plume if the steam plume is not attached to the stack.
- 4) The observer must read a rectangular stack at a point where the stack has the shortest cross sectional diameter.

Visible Emission Readings

A test for visible emission requires 240 consecutive reading. Each reading is recorded in 15-second intervals for 60-minutes. The percent opacity is recorded in 5 percent increments from 0 to 100 percent. The observer must record the results on a data sheet as outlined in Method 9. (ie. position of the observer, date, time, process information, location of the stack, and the 15-second opacity readings). The determination of opacity is calculated using a 6-minute block average.



Anacortes City Council

Proposed Agenda Items for the Next Eight Weeks Beginning March 19, 2018

Subjects listed below have been tentatively suggested for consideration by the Anacortes City Council on the dates indicated. Items may be added to, removed from or rearranged on this list. Routine business such as approval of minutes and vouchers are not included. The complete Preliminary Agenda for each meeting is published at 3:00 on the Wednesday prior to the meeting. Published Agendas are subject to change and may be updated following the posting period. For additional information on agenda topics, please contact the City Clerk's office at 360-299-1960 to be directed to the sponsoring staff member.

March 19, 2018

- Contract Award: Alum Treatment of Heart Lake
- Street Fair Application - Waterfront Festival & Car Show
- Confirmation of Appointment of Library Director Ruth Barefoot (Discussion/Possible Action)
- Internet Service Provider Update (Discussion)
- Agricultural Irrigation Water (Discussion)

March 26, 2018

- 2019/2020 Budget Kickoff: Departmental Goals and Objectives for the Upcoming Biennium (Discussion)

April 2, 2018

- 2018-2022 CDBG - Five Year Consolidated Plan and One Year Action Plan Public Process Conclusion (Discussion)
- Public Works Quarterly Update (Discussion)
- Operations Building Electrical Upgrades (Action)
- NoaNet Contract Modification (Action)

April 9, 2018

- 2019/2020 Budget Kickoff: Departmental Goals and Objectives for the Upcoming Biennium - Continued from March 26 (Discussion)

April 16, 2018

- Pavement Management Program Update

April 23, 2018

May 7, 2018

May 14, 2018

- Closed Record Decision Hearing, "A" Dock Replacement & Reconfiguration, Shoreline Substantial Development Permit, Port of Anacortes, SDP-2018-0002

Upcoming City Council Committee Meetings

The public is welcome to attend City Council Committee Meetings.

- Planning, Monday, Mar 12, 2018, 5:00 PM, Main Conference Room, City Hall
- Finance, Wednesday, Mar 14, 2018, 5:00 PM, Main Conference Room, City Hall
- Skagit County Law & Justice Council, Wednesday, Mar 14, 2018, 8:15 AM, Sheriff's Dept. Training
- Public Works, Monday, Mar 19, 2018, 5:00 PM, Public Works Director's Office, City Hall
- Planning, Monday, Mar 26, 2018, 5:00 PM, Main Conference Room, City Hall
- Finance, Wednesday, Mar 28, 2018, 5:00 PM, Main Conference Room, City Hall
- Public Works, Monday, Apr 2, 2018, 5:00 PM, Public Works Director's Office, City Hall