



# City and Borough of Sitka

100 Lincoln Street Sitka, Alaska 99835

*Coast Guard City, USA*

October 28, 2013

Agave  
236 Lincoln Street #106  
Sitka, AK 99835

Dear Ladies and Gentlemen,

On behalf of Mayor McConnell and the City and Borough of Sitka Assembly, I would like to respond to your October 2 correspondence. It is the intention of the City and Borough of Sitka to take the following actions in regards to the lightering of cruise ship visitors during the 2014 cruise season:

- 1) To the greatest degree possible and barring unforeseen circumstances, the Sitka Harbormaster in consultation with Southeast Stevedoring representative, Fred Reeder, will strive to ensure that cruise passengers are equitably distributed between the Centennial Building and the O'Connell Bridge facilities during the 2014 season. This distribution will be adjusted for those cruise ship visitors bused to town to the Centennial Hall, by providing for additional passengers to be lightered to the O'Connell Bridge facility.
- 2) The Harbormaster, in concert with Southeast Stevedoring, will establish a facility usage schedule with the intent not to deviate from it. However, there will be unforeseen circumstances that arise, such as weather events, yacht moorage or cruise ship visit cancellations that may necessitate changes.
- 3) The Municipality will consider ideas for better movement of visitors throughout downtown Sitka. At this time, however, the Municipality can not commit to the concept of a trolley or shuttle bus funded through passenger excise tax funding.

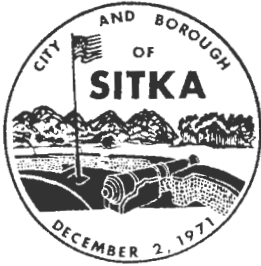
The dialogue that took place between Mr. Borland and the Interim City Administrator and Harbormaster on October 11 was an excellent starting point for communication on these important issues. We would very much like to continue these discussions and keep you informed as we develop and implement the 2014 schedule. To this end, if you could provide Harbormaster Stan Eliason ([stan@cityofsitka.com](mailto:stan@cityofsitka.com)) with your email contact information, that will allow us to keep you informed as we move forward with the 2014 schedule and season.

If you have any additional questions or suggestions, please let me know.

Sincerely,

Mark Gorman  
Municipal Administrator

Providing for today ... preparing for tomorrow



# City and Borough of Sitka

100 Lincoln Street Sitka, Alaska 99835

*Coast Guard City, USA*

October 25, 2013

Federal Subsistence Board  
Attn: Theo Matuskowitz  
1011 East Tudor Road MS121  
Anchorage, Alaska 99503-6199  
E-mail: robertlarson@fs.fed.us

RE: Comments on Rural Determination Process

Dear Federal Subsistence Board:

The City and Borough of Sitka (CBS) wishes to comment on the process for determining Rural status. Please include in our comments the attached approved Resolution 2013-16 by the City and Borough of Sitka Assembly as an integral part of CBS comments.

The **current population thresholds** used by the Federal Subsistence Board to define a rural community in Alaska are arbitrary and fail to accurately define a rural community such as Sitka and should be either extensively modified or deleted as a criteria for Rural status. The current 2,500 population threshold for a rural community is no more accurate than using a 5,000 or 10,000 population threshold. The important criteria is that the community demonstrates rural characteristics, particularly related to pervasive use of fish, wildlife, and other subsistence resources by the majority of the population on a continuing basis. The use of "Communities with populations more than 7,000 will be considered nonrural, unless such communities possess significant characteristics of a rural nature" is particularly problematic. Sitka's population has been relatively "flat" for over thirty years, and yet every ten years Sitka is forced to fight to maintain its extremely important Rural status because of this arbitrary ceiling. This is a painful process that almost every Sitkan is vitally concerned about, since almost all Sitkans subsist and consider themselves a Rural Subsistence community.

Please delete these arbitrary population ceilings or raise the thresholds to a more realistic current population base for both Rural community and Rural community ceiling. CBS recommends deleting the threshold entirely, but if it is still used, a minimum of 11,000 population should be used for the ceiling for declaring a community nonrural, "unless such communities possess significant characteristics of a rural nature." Unless a number can be sufficiently quantified that it can clearly be substantiated as having a direct connection to Rural status, all population thresholds, if used at all, should be guidelines only. In addition, the many

different population levels used by agencies for various administrative purposes, including Rural status, are conflicting and inconsistent and are another reason to limit any population uses to a general guideline only—if not deleted entirely for Rural determinations.

**Rural Characteristics:** The vast majority of Sitkans utilize fish, wildlife, and other natural resources as a primary part of their lives. This data has been shown in the detailed Alaska Department of Fish and Game surveys of fish and game uses and activities, and when this study is updated in 2014, we expect the data will continue to show that more than 95 percent of Sitkans actively engage in Rural fishing, hunting, gathering, and sharing these resources as a primary daily part of their lives. These rural characteristics, including transportation to resources mostly by boat, sharing of resources as a basic part of Sitka's economy, and the connections Sitkans have with surrounding communities, especially the smaller primarily Native villages, have long been a basic part of this unique community. The Rural Characteristics analysis needs to be maintained but better defined to provide broader definitions of the Rural determination process to reflect the many different types of Rural communities that all share the common Rural Characteristics in terms of their uses and basic rural activities whether in the Northern tundra or Southeast rainforest.

**Aggregation of Communities:** Since Sitka is located on the outside of Baranof Island in the 4,710 square miles of the City and Borough of Sitka, it would not be realistic to try to aggregate it with any other community for purposes of Rural determination. However, even if it were possible to "aggregate" Sitka with other communities, we fail to see any valid connection between where people go to school or work or drive on roads as a basis for the Rural determination process. None of these factors have anything to do with the basic premise of a community's demonstrating primarily Rural Characteristics. We recommend this concept be deleted and not utilized at all in the determination process.

**Timelines:** The Board's review of rural determinations on a 10 year cycle may be workable for general review. However, CBS recommends that once a community has achieved Rural status, it not be automatically reviewed every ten years if there has been no significant change to warrant another review. It is extremely unlikely that a community will show substantive change away from Rural status if it is a stable Rural community, and requiring any community to re-justify its Rural status without any significant change in population (more than 25 percent) and use of subsistence resources is painful and unjustified. Please delete this requirement for stable communities which have completed the Rural determination process and are found Rural.

**Information Sources:** CBS recommends not focusing on population data, as previously presented. Rather than population data, the Board should carefully examine the Rural Characteristics of each community to base its Rural determination on. If population data must be used, it should be a guideline only. There are many good information sources to help determine Rural status, related directly to rural characteristics. All sources should be accepted, to better permit meeting the intent of Title VIII of ANILCA, which is "to protect and provide the opportunity for continued subsistence uses on public lands."

The City and Borough of Sitka greatly appreciates this opportunity to comment. If there are any questions or need for additional information, please contact me by phone at (907) 747-1808 or by email at [markgorman@cityofsitka.com](mailto:markgorman@cityofsitka.com).

Sincerely,

A handwritten signature in black ink, appearing to read "Mark Gorman", followed by a horizontal line extending to the right.

Mark Gorman  
Municipal Administrator

Cc: Mayor and Assembly Members  
Sitka Tribe of Alaska  
Sitka Conservation Society  
U.S.D.A. Forest Service Subsistence Coordinator

**CITY AND BOROUGH OF SITKA  
RESOLUTION NO. 2013-16**

**A RESOLUTION BY THE CITY AND BOROUGH OF SITKA, ALASKA,  
COMMENTING ON THE FEDERAL SUBSISTENCE MANAGEMENT PROGRAM'S  
RURAL DETERMINATION PROCESS**

**WHEREAS**, the Federal Subsistence Board initiated a review of the rural determination process on December 31, 2012, requesting comments on the following components of the process: population thresholds, rural characteristics, aggregation of communities, timelines and information sources, with a submission deadline of November 1, 2013; and

**WHEREAS**, Title VIII of the Alaska National Interest Lands Conservation Act (ANILCA) provides a subsistence priority for rural Alaska residents for harvesting fish and wildlife resources on Federal public lands, and only residents of communities or areas determined to be rural are eligible under Federal subsistence regulations for the subsistence priority; and

**WHEREAS**, Sitka is an isolated Rural Subsistence community unconnected to any road system, and the vast majority of Sitka residents harvest large quantities of traditional, personal, and subsistence use fish and game year-round for both themselves and for others consistent with a rural community, as well documented by studies, surveys, and personal testimony community-wide for a large variety of fish, game, and other subsistence resources; and

**WHEREAS**, Sitka has had to struggle to keep its Rural Subsistence status which Sitka residents consider part of their basic cultural, economic and social identities, since its population exceeds the arbitrary population ceiling. Federal Regulations state a community with a population of more than 7,000 will be considered non-rural unless the community possesses significant characteristics of a rural nature, but this arbitrary threshold is invalid for Sitka, which has repeatedly substantiated its Rural Subsistence status, with over 90 percent of Sitka residents directly involved in subsistence gathering; and

**WHEREAS**, the rural determination process should be modified, as the Secretary of the Interior called for in 2009, to "ensure that the [Federal Subsistence Management] program is best serving rural Alaskans and that the letter and spirit of Title VIII [of ANILCA] are being met."

**NOW, THEREFORE, BE IT RESOLVED**, that the Assembly of the City and Borough of Sitka recommends several modifications to improve the rural determination process. Modify the population threshold to delete the arbitrary 7,000 beyond which a community will be presumed non-rural and change the threshold to 11,000 as recommended by the

Secretaries of the Interior and Agriculture in 2010 as a guideline only, since the current threshold levels fail to accurately define a rural Alaska community.

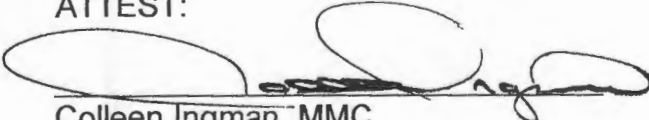
**BE IT FURTHER RESOLVED**, that the rural determination process be modified to better permit rural subsistence communities to identify their rural characteristics, including widespread use of fish, wildlife, and other wild resources, through Alaska Department of Fish and Game Subsistence studies, Coastal Management Subsistence research, and other information sources; geographic isolation; lack of connection to a regional road system; and importance of fish and other wild resources to the economic base; as the basis for retaining their continued rural designation.

**FINALLY, BE IT RESOLVED**, that once a community has received its rural designation, no timeline for reconsideration should be triggered unless there is substantive change in the rural community's status sufficient to re-designate the community as urban, in order to meet the intent of Title VIII of ANILCA which is to "protect and provide the opportunity for continued subsistence uses on public lands." While the various administrative, land and resource use and economic concepts that fit the "lower 48" states may meet federal agency needs in the contiguous states, these components of the determination process do not meet the needs of vast, isolated rural Alaska, which within Southeast Alaska includes more than 17 million acres of the Tongass National Forest.

**PASSED, APPROVED, AND ADOPTED** by the Assembly of the City and Borough of Sitka, Alaska on this 24<sup>th</sup> day of September, 2013.

  
\_\_\_\_\_  
Mim McConnell, Mayor

ATTEST:



Colleen Ingman, MMC  
Municipal Clerk

## RESOLUTION 13-05

### RESOLUTION OF THE SITKA ECONOMIC DEVELOPMENT ASSOCIATION COMMENTING ON THE FEDERAL SUBSISTENCE MANAGEMENT PROGRAM'S RURAL DETERMINATION PROCESS.

**WHEREAS**, the Federal Subsistence Board is seeking comments on specific components of the rural determination process to determine if and what changes are to be made to the process; and

**WHEREAS**, Title VIII of the Alaska National Interest Lands Conservation Act (ANILCA) provides a priority for rural Alaska residents to harvest fish and wildlife for subsistence purposes on Federal public lands; and

**WHEREAS**, as stated in the Congressional statement of purpose for ANILCA, 6 USCS – 3101 (c) Subsistence way of life for rural residents. *“It is further the intent and purpose of this Act ... to provide the opportunity for rural residents engaged in a subsistence way of life to continue to do so.”*

**WHEREAS**, in 2009, the Secretary of the Interior called for modification of the rural determination process to “ensure that the [Federal Subsistence Management] Program is best serving rural Alaskans and that the letter and the spirit of Title VIII [ANILCA] are being met;” and

**WHEREAS**, the community of Sitka has been required to repeatedly substantiate its rural subsistence status under the current Federal Subsistence Management Program’s Rural Determination Process; and

**WHEREAS**, under Federal Subsistence regulations, only residents of communities or areas determined to be rural are eligible for the subsistence priority; and

**WHEREAS**, for the rural determination process to be effective and serve the intent and purpose of ANILCA, the process must be based on criteria that appropriately and accurately reflect a community’s rural character; and

**WHEREAS**, the area that is now Sitka has an unbroken history, going back thousands of years, of residents, both Alaska Native and non-Native, relying on the natural resources of the surrounding forest and marine environment for the harvesting of traditional and subsistence foods; and

**WHEREAS**, Sitka is a rural community, geographically isolated from urban centers; NOW  
THEREFORE LET IT BE

**RESOLVED**, that the Sitka Economic Development Association hereby strongly urges that the Federal Subsistence Management Program’s Rural Determination Process eliminate the population threshold guideline as a criterion in the determination process. Or, if a population threshold criterion must be used, even as a guideline only, raise the current 7,000 population threshold to 11,000 as recommended to the Secretaries of the Interior and Agriculture, and supported by the resolution of the City and Borough of Sitka and the Sitka Tribe of Alaska. Adding a stipulation that a threshold population shall not have been reached, unless and until, a community’s population estimate has been at or exceeded that threshold for no less than six of the previous ten years.

community's population estimate has been at or exceeded that threshold for no less than six of the previous ten years.

**BE IT FURTHER RESOLVED**, that, Due to topography and Federal/State land ownership that severely limits the amount of useable land in and around many Alaskan communities, population density as it is used in the contiguous 48 states to determine rural status, should not be used as a criterion for rural designation for Alaskan communities. Not only are many small and mid sized Alaska communities forced onto a small footprint area for development, communities within Southeast Alaska are also constrained by being surrounded by Federal public lands of the Tongass National Forest. In addition, residents of rural Alaskan communities gathering traditional and subsistence foods sometimes travel beyond a thirty-mile radius from the community's center to do so.

**BE IT FURTHER RESOLVED**, that, in order to improve the ability for rural subsistence communities to identify their rural characteristics, a modified version of the Criterion-Reference Assessment be used, as recommended in the *Methods for Rural/Non-Rural Determination for Federal Subsistence Management in Alaska: Final Report, Analysis and Recommended Methodology*. Wolfe and Fischer, January 31, 2003. The Sitka Economic Development Association therefore, supports the following criteria recommendations submitted by the Sitka Tribe of Alaska and that these criteria should be given an equal weight in the rural determination process:

*Use of Fish and Wildlife*

*Although the 9<sup>th</sup> Circuit Court ruled against the methodology suggested by Wolfe and Fisher (citing the excessive emphasis on food production), it failed to acknowledge that subsistence use of fish and wildlife is the crux of Title VIII of ANILCA and is synonymous with the definition of "rural" in Alaska. This lands use criteria is essential in any rural determination process.*

*Transportation*

*Due to the vast area Alaska covers and its topography many of the communities in the State are geographically isolated from the central road system that links central Alaskan communities to the contiguous 48 states. The only way into many of these isolated communities is by air and water transportation. This type of transportation can be intermittent, weather dependent and expensive. The transportation drawback for isolated communities creates a significant dependence on the use of fish and wildlife.*

*Structure of Economic Base*

*A depictive method of defining rural in terms of a community's economy would be to look at the industries or businesses that provide the base of that economy. In his "Criterion-Referenced Assessment", Wolf identifies land use economies (commercial fishing, forestry, etc..) as a component of rural communities. These types of land use economies are consistent with general definitions of rural associated with agriculture and large open expanse land uses.*

*Scale of Economies*

*Urban communities typically have large industrial (secondary processing), manufacturing and service oriented economies. These communities are able to attract and sustain large national retail chain stores (Costco, Sam's, Safeway, Home Depot, Kmart, etc..) In many instances these communities have large health care centers that*



*offer specialized medical treatment that is not offered by rural community health care providers.*

**FINALLY, BE IT RESOLVED**, that, in order to meet the intent of ANILCA to “*provide the opportunity for rural residents engaged in a subsistence way of life to continue to do so.*” once a community has received rural designation, no timeline for reconsideration should be triggered unless there is a substantive change in the rural community’s status, based on the criteria used for the original rural determination.

CERTIFICATION

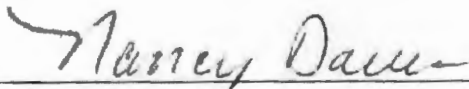
I hereby certify that the foregoing resolution was adopted by the Sitka Economic Development Association in accordance with its organic documents by e-vote of the Board of Directors held on 28 of OCT., 2013, and that said resolution appears in the record of the Corporation.

Dated this 28TH day of OCT., 2013.



Richard Riggs, President

Attested by:



Nancy Davis, Secretary



**BLUE LAKE EXPANSION PROJECT**

**MONTHLY UPDATE FOR CITY ASSEMBLY**

Report No. 11

Month ending October 31, 2013

**SCOPE**

- 83 ft. dam raise with modified tunnel system and new 15.9 MW powerhouse (\$89 million)
- Eight supply contracts for Owner-Furnished equipment and materials (\$16 million)

**PROJECT HIGHLIGHTS DURING THIS MONTH**

- October 7 – Barnard made the first concrete placement on the left abutment thrust block.
- October 10 – Barnard provided pricing from General Electric Power and Water and Pall Corporation for the Indian River temporary filtration units. CH2MHill and the City reviewed these proposals and instructed Barnard to award the lease to Pall on October 25. Barnard is in negotiations with the vendor.
- October 8-16 – Electric Dept. linecrew installed all the new control conduit in the Blue Lake switchyard.
- October 14 – The team established that the penstock for the No. 4 turbine is out of position. This will be corrected when the manifold is installed.
- October 15 – ASRC McGraw Constructors (AMCL) placed 221 CY of concrete at the north and west walls of the powerhouse.
- October 17-28 – Rennie Construction formed and poured the switchyard control building foundation, this is part of the City's self-performed electrical work.
- October 20 – Blue Lake reservoir filled completely and began spilling over the existing dam spillway.
- October 22 – Barnard completed the first season's dam construction on the right abutment.
- October 22 – Barnard made the first concrete placement on the left abutment cutoff wall.
- October 24 – Barnard backfilled the north wall of the powerhouse to facilitate erection of the building. This fill must be removed later on to continue installation of the penstock.
- October 24-25 – Barnard and Gilkes moved the generators into the Rolly Roof building for storage.
- October 29 – NAES was awarded a small contract to install the switchyard control building electrical services.
- October 30 – Barnard completed replacing the timber crib wall at the lower portal with rock.
- October 30 – AMCL placed 170 CY of concrete to construct the south and west walls of the powerhouse.
- October 31 – Barnard formed and placed concrete in the gate chamber crown. Further gate chamber concrete must be placed from the intake portal.
- October 31 – Barnard began forming and placing concrete in the intake gate shaft.
- October – Removal of the rock knob at the powerhouse access road continues. We have located all of the critical joint planes in this rock mass and have determined the appropriate rock support measures. The extent of rock removal will be less than estimated.

- TO DATE – 14 of 79 blocks of concrete have been placed at the dam, 2800 CY of 3350 CY have been placed at the powerhouse. Concrete tests have been better than required by the specification.

### COST SUMMARY - updated 10/31/2013

Project Element	Current Contract Total or Projected Amount	Payments	
		Paid this Month	Paid to Date*
<b>Supply Contracts</b>			
Contract 1 - Turbine Generator Equipment	\$11,573,707	\$0.00	\$10,258,002
Contract 2 - Switchgear	\$647,672	\$161,918.00	\$226,499
Contract 2A - SS Switchgear	\$300,000	\$0.00	\$0
Contract 3 - Gates and Hoist	\$780,185	\$0.00	\$703,376
Contract 4 - Penstock	\$836,315	\$0.00	\$795,778
Contract 5 - 69 kV Transformers	\$601,184	\$423,408.80	\$543,130
Contract 6 - Bridge Crane Equipment	\$270,518	\$0.00	\$245,246
Contract 7 - Steel Building	\$1,139,321	\$0.00	\$978,498
Contract 8, Debris Management	\$1,530,000	\$0.00	\$0
Contract 9, General Construction	\$88,175,661	\$3,863,308.66	\$44,534,162
Diesel Fuel	\$1,260,000	\$0.00	\$0
Temporary Filtration**	\$3,000,000	\$0.00	\$0
<b>Remaining Project Costs</b>		\$0.00	\$0
License Amendment	\$1,400,000	\$14,429.82	\$1,196,811
Engineering	\$9,498,393	\$42,273.37	\$11,535,622
Construction Management	\$8,076,201	\$460,408.25	\$3,983,384
City Performed Work	\$1,495,000	\$192,178.31	\$1,559,803
Incentive Payment	\$1,600,000	\$0.00	\$0
Cost of Insurance/Reserve Account	\$3,500,000	\$0.00	\$0
<b>TOTALS</b>	<b>\$135,684,156</b>	<b>\$5,157,925</b>	<b>\$76,560,311</b>
<b>ESTIMATED TOTAL PROJECT COST</b>	<b>\$141,517,667</b>		

\*Paid to Date includes unpaid retainage

\*\*Temporary Filtration budget updated. Assembly approval will be requested at a later date for the overrun.

### COST CHANGES THIS MONTH

- No other change orders were issued for the equipment and materials contracts that affect the cost of these goods.
- We continue to expect a series of change orders for the supply contracts for the purchase of additional spare parts (Contracts 1, 2, and 6) over the next months. These suppliers continue to be slow in getting us pricing and information for the spares.
- Change Order 5 was submitted October for a Contract cost increase in the amount of \$103,781.87. This change order included 9 change items for: additional work for storage of Owner-furnished generators; added retaining wall at the powerhouse; a decrease in cost due to owner-provided site electrical work at the intake; and six small changes in Contractor-provided

pipng, valves, and electrical work. Change Order 5 will not change the Contract completion dates.

- There are a series of change items still under negotiation as follows:
  - Modification of the dam site staging area (changes in material quantities spoiled in this area and prep work to allow USFS final grading and improvements in this area).
  - Armoring of the reservoir access road (armoring needed as the road area was not rock as expected in the original design).
  - Changes to the powerhouse electrical conduit and cable requirements (a group of small changes in conduit and the addition of a number of control cables).
  - Removal of a rock knob along the powerhouse access road (this knob is at risk of sliding and cannot be adequately reinforced with rock bolts or anchors).
  - Dredging in front of sluice gate valve and repair if necessary. This will be done next spring when the lake is drawn down.

We do not expect these change items to impact the project schedule.

**CONSTRUCTION SCHEDULE MILESTONES: PLANNED/ACTUAL**

Construction Start	11-20-2012 / 12-03-2012	Sub. Comp. BLU #5	10-24-2014/
Drainage Tunnel Comp.	07-01-2013 / 05-05-2013	Sub. Comp. FVU	11-12-2014/
Tunnel ex. complete	08-19-2013 / 07-24-2013	Sub. Comp. BLU#4	11-22-2014/
Ready for Gen. Outage	08-24-2014/	Substantial Completion	02-01-2015/

**NOTES ON PROJECT SCHEDULE**

- The most recent look-ahead schedule submitted by Barnard shows the following upcoming target dates:
  - a. Continued concrete work on the powerhouse floors above elevation 13 and walls throughout November.
  - b. Continued dam concrete work throughout November.
  - c. Continued placement of the concrete liner in the intake gate shaft.
  - d. Continued excavation of the powerhouse access road.
  - e. Removal of the rock knob at the powerhouse access road.
- Most of the Owner Furnished materials and equipment are now on site. Delivery of the concrete wall panels for the powerhouse building will begin in November..
- The CM team and Electric Department continue working on the City-performed work tasks to ensure these activities are completed on time. Good progress continued in October. In October, fabrication was started on the switchyard control panels. The asbuilt drawings were completed for the FVU. The Switch yard control building will be erected in November. We are on-track with the City-performed work. The City is preparing a work plan that coordinates the City performed work with Barnard's Project Schedule.

**OTHER ITEMS OF INTEREST**

- Renewable Energy Alaska Project released a short video on the Blue Lake Expansion Project as part of their project RePower Alaska.
- Dean and Chris attended the annual Northwest Public Power Association conference in Anchorage. Dean did a presentation on the construction progress at the project.
- A public project update meeting will be held November 13 at 6:30pm at Centennial Hall.

## **PROJECT RISK PROFILE**

A discussion of the major risk areas follows below. As a general rule risks are measured as follows:

**LOW:** Probability of less than 10%, or mitigation cost less than \$1 million.

**MODERATE:** Probability of more than 30%, or mitigation cost up to \$5 million.

**HIGH:** Probability of more than 60%, or mitigation cost likely more than \$5 million.

The City's project team believes the following risk areas will dominate the potential for increases in overall Project cost. We also believe these areas pose the greatest risk for schedule delays.

**Construction Schedule:** In Barnard's most recent (October 2013) schedule, the critical start of the 2014 Generation Outage is shown starting on August 19, 2014, five days ahead of schedule. This is good news, an improvement of 4 days of schedule time, since the end of September.

**CURRENT RISK: LOW**

**Weather and Lake Levels:** Both Green Lake and Blue Lake are spilling. This situation sets us up very well for the next season.

**CURRENT RISK: LOW (through 2013)**

**Rock Conditions:** Contract 9 includes an allowance of \$2,702,000 for rock support in the Project tunnels, shafts and excavations. This rock support is a combination of rock bolts, shotcrete, and steel arch supports. Project-wide the total underground excavation work is now about 96% complete.

We have determined that there are several areas that need rock support or work beyond the original design. It is fortunate that these areas are generally not critical operating structures. The following areas require additional rock support or removal:

1. In the reservoir and intake area we are adding: above ground slope support along the access road; rock support in the intake area; We In September we issued a change order to construct a concrete liner in the gate shaft. Construction of this shaft liner began in October .
2. In the powerhouse area, removal of a rock knob along the powerhouse access road as described above. The work will be completed in November.

The total underground and dam foundation rock support on the Project is significantly less than budgeted. We have a large under-run on rock support quantities, which will result in cost savings to the City. These cost savings will most likely be used to pay for the added above ground rock support in the intake and powerhouse areas.

**CURRENT RISK: LOW**

**City Performed Work, for Contract 9:** The City has elected to self-perform some work associated with the Project's general construction. This work includes: procurement, installation and field wiring of a switchyard control building; installation and connection of fiber-optic cables from the powerhouse to the dam; control wiring of the Fish Valve Unit generator; and design and installation of the SCADA system. More than 35% of this work is now complete. We continue to make good progress in this work and we are on schedule.

**CURRENT RISK: LOW.** [See Appendix 1-Action Plan at the end of this monthly update, for the status of this self-performed work].

**Temporary Water Filtration Plant:** During the August through September 2014 outage of the Blue Lake tunnel, the City will get its drinking water from a temporary water supply. This temporary system remains to be leased and installed at Indian River; some final design is still required. This system must be in place and fully operational prior to the Generation Outage. Any delay in the filtration plant beyond August 23, 2014, will delay the hydro expansion Project. Barnard will be providing the filtration project as a change order to contract 9. The filtration project is being managed by McMillen LLC and CH2MHILL will perform the final design. The City Water Department will operate the plant with assistance from CH2MHILL and the supplier.

**CURRENT RISK: MODERATE** [The current status of the filtration system design and planned construction is described in Appendix 2. If the filtration system is constructed as planned, we will be on track for the Expansion Project.]

**Other:** This is a broad combination of bad things that might happen such as: earthquakes; construction site accidents; floods; extreme winter weather; fire; labor unrest; etc. We expect that many of these risks would be covered by insurance at least in part.

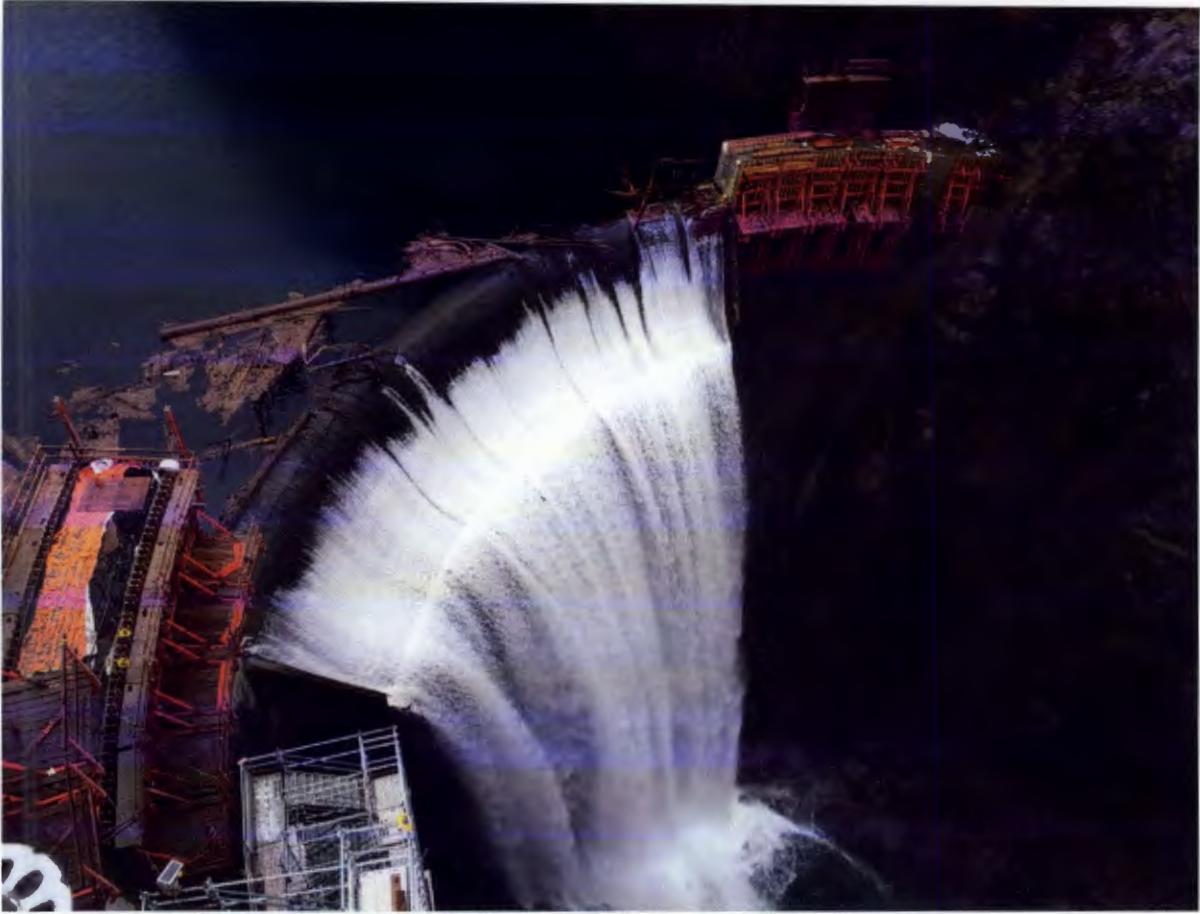
**CURRENT RISK: LOW**

## PROJECT PHOTO RECORD THIS MONTH

Photos are taken of each work area each month from a fixed location to document construction progress by work area. Relevant photos of the project for this month are provided on the following pages.



**Figure 1. Dam and Left Abutment Area, Barnard made the first concrete placement on both the left abutment thrust block and cutoff wall.**



**Figure 2. Drainage Tunnel and Scour Wall, On October 20 the lake began spilling which made access to the plunge pool unreachable.**





**Figure 3. Intake Portal and Right Abutment, Barnard has completed 14 of 79 blocks of concrete at the dam. The blocks on the right abutment are now up to El 425.**



**Figure 4. Gate House Location, Barnard formed and placed concrete in the gate chamber crown and in the intake gate shaft.**



**Figure 5. Dam Staging area, No change this month.**



**Figure 6. Lower Portal Area, Barnard completed replacing the timber crib wall at the lower portal with rock.**



**Figure 7. Powerhouse Site, ASRC McGraw Constructors (AMCL) placed 221 CY of concrete at the north and west walls and 170 CY at the south and west walls of the powerhouse. To date 2800 CY of 3350 CY have been placed at the powerhouse.**



**Figure 9. Lower Project Site, Removal of the rock knob at the powerhouse access road continues.**

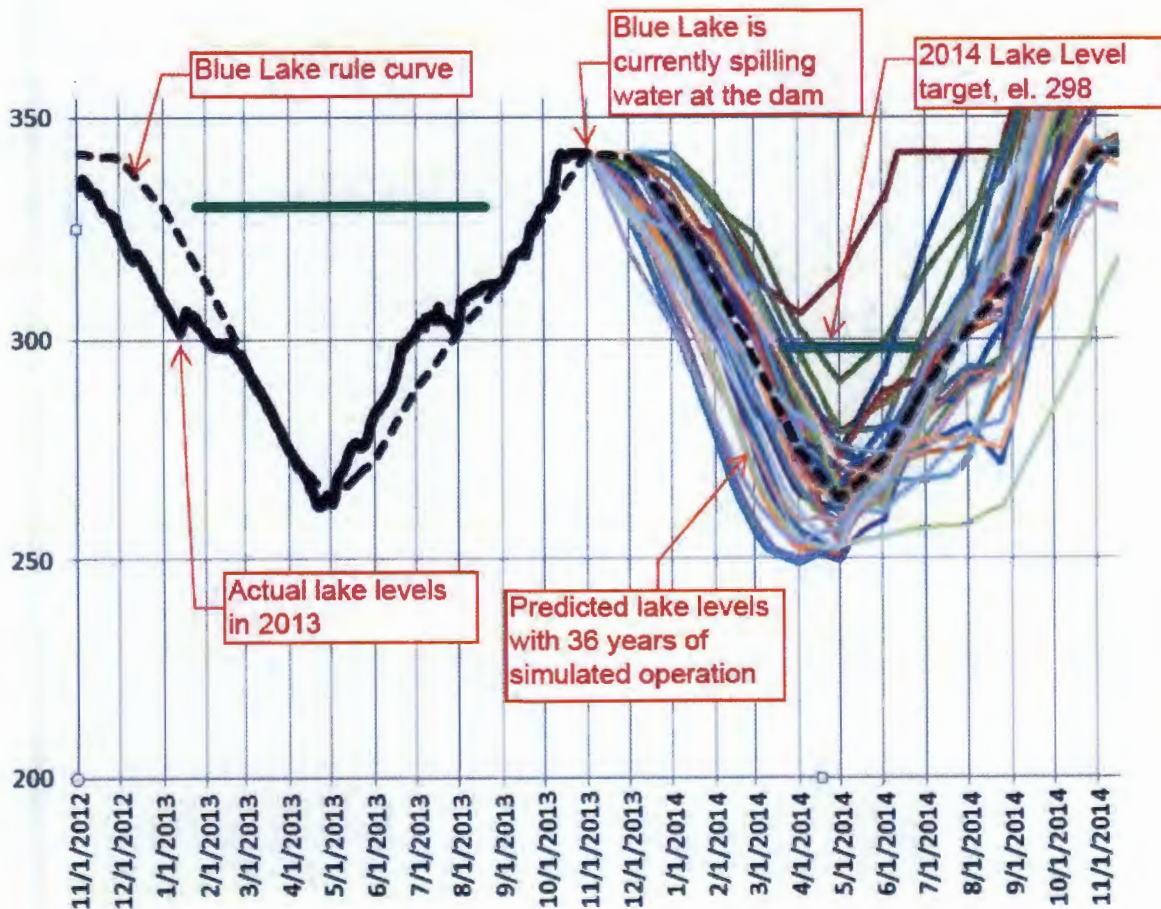
**LAKE LEVEL WINDOW FORECAST**  
**Blue Lake Expansion Project**  
**Contract 9 – General Construction**

Forecast Date: November 2, 2013      Blue Lake WSEL: 342 (spilling) on November 1, 2013

**2014 Lake Level Window: At or below WSEL 298 from March 22 to June 25, 2014**

**Highlights:**

1. The focus of the current reservoir operation is to draw Blue Lake down to el. 298 by the start of the March 22 lake level window. Barnard needs the lake at this level to complete construction of the tunnel's intake structure.
2. The Electric Department is currently running the Blue Lake turbine-generators, Fish Valve unit; and Pulp Mill Feeder units at their maximum flow, to help draw the lake down.
3. The probability of the Blue Lake water level reaching el. 298 by March 22 is 86% (31 of 36 years).
4. This coming winter, the Electric Department may further increase the Blue Lake water releases, if needed to ensure that we meet the March 22, 2014 lake level target.



*Appendix 1 to Monthly Update for City Assembly*

**October, 2013  
ACTION PLAN  
City Performed Work, for Contract 9**

The following table presents the Project Team's plan, staffing assignments and schedule to ensure that these owner-furnished design, fabrication and construction elements of the Expansion Project do not delay the construction contractor or result in additional costs.

**Blue** shaded boxes indicate completed work items.

**Yellow** shaded boxes indicate items of concern.

Project Element	Design Phase		Fabrication, Delivery and Construction		
	Lead	Date planned/ complete	Lead	Date Complete	Notes
PH Plant Function PLC panel, with BOM (north wall, near gridline 4, sits on floor)	S. Kim	4/30/2013/	B. Belley	July 2013	Panel to be "owner furnished" to Barnard. Conduit underneath panel will go through cutout.
Industrial water pump pane - control cabinet (outside the south wall of PH)	S. Kim	5/15/2013	B. Belley	June 2013	Panel to be "owner furnished" to Barnard. UPS will give 5-10 minutes of power in the event of an outage. (OK).
Industrial water pump panel VFD cabinet (inside the east wall of PH—southeast corner)	S. Kim	7/15/2013	B. Belley	August 2013	Included with industrial pump panel. See above
Fish Valve Unit as-builts	R. Dryden	4/18/2013/		Oct 2013	EES has submitted drawings for City review.
Fish Valve Unit interconnection wiring design, diagrams	R. Dryden	6/1/2013/	B. Belley	Oct 2014	Install wiring and start up FVU after Generation Outage. Mostly CAD work, to be done by EES.
Switchyard control panels – <b>First Priority for Bob</b>	R. Dryden	4/15 /14	B. Belley		Getting final drawings from Bob. CBS has 90% of material on site.
Switchyard control enclosure (a.k.a. Switchyard control building)	R. Dryden	4/20/2013/	Parkline		Rennie and Donny Byrd will build the foundation and erect the building.
Switchyard control conduit				Oct 2013	Embedded Conduits are ready for extension
Configure Blue Lake Control Room	Tal Frank Dean		Tal		Dean marked up DP-3 panel drawing to show circuits needed for SCADA.
Transfer Green Lake SCADA system	Tal			9/1/2013	Green Lake SCADA system will be located in the SCADA closet, not the Plant function cabinet.



**October 31, 2013**

**Summary of Temporary Filtration Project Status**

**Alternative Water Source Investigation Filtration (Blue Lake Project):**

Barnard will be providing the Temporary Water Filtration Plant at Indian River as a Change Order and Barnard has agreed to the Change.

- In October, Barnard received pricing on the lease of the filter units.
- CBS and CH2MHill approved the lease of the Pall units.
- CH2MHill is proceeding with the final design of the site equipment needed for the filtration units.
- McMillen will perform the construction management.
- The City will provide plant operation with possible assistance from the supplier.
- Neither Barnard nor Pall will take on the performance risks as outlined in the bidding documents. The City will be required to take this risk.

The completion of this work is now in the critical path.

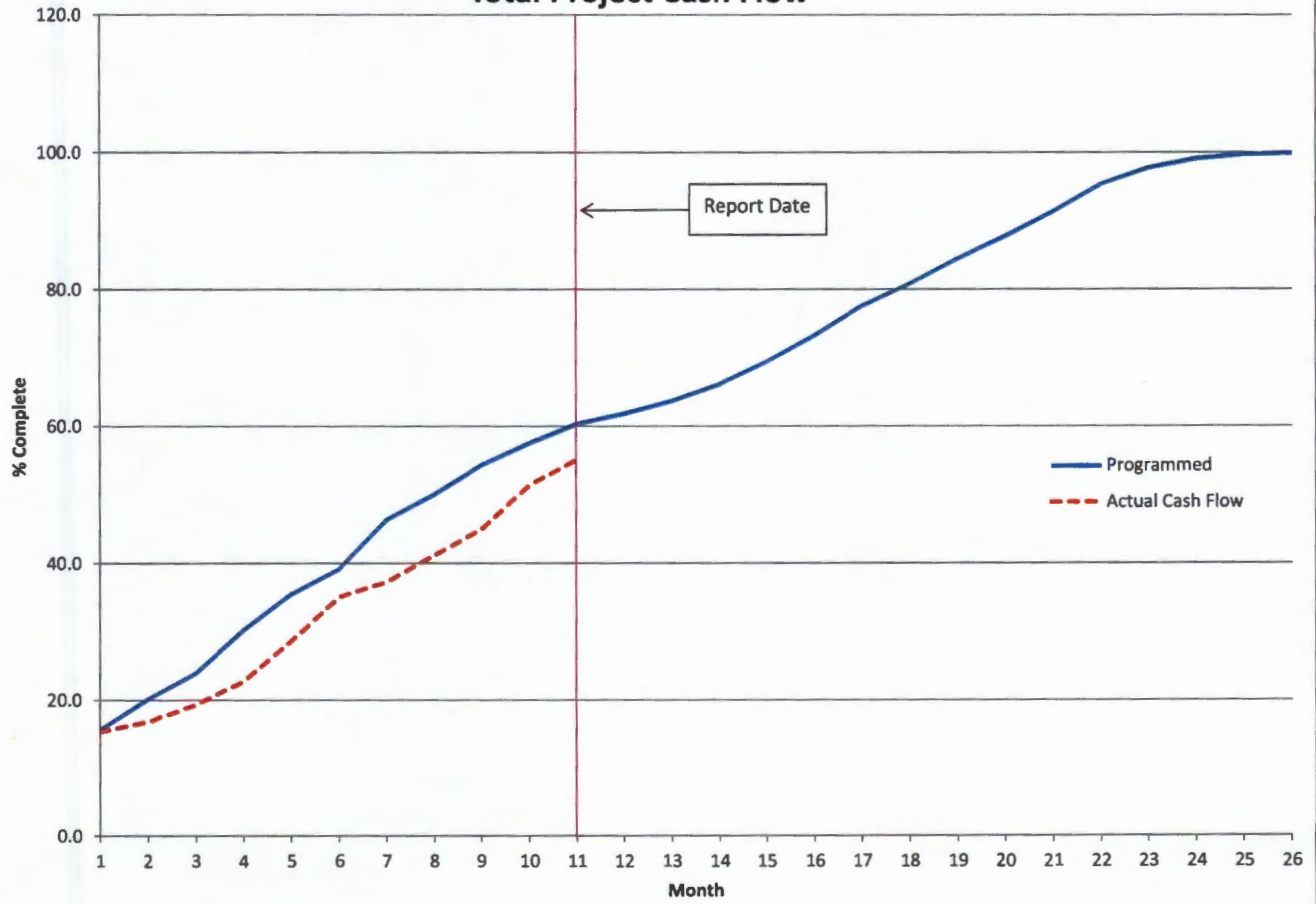
The proposed schedule has the design completed in November 2013, ADEC permitting completed in March 2014, construction of the piping and pumping completed in April 2014 and final installation of the filter units in June 2014 for operation in July 2014. The preliminary design cost estimate has a projected design and construction cost of \$3,000,000. Barnard will provide final pricing on the Change Order when the final design is provided to them.

**Summary of Titan 130 Diesel Turbine Project Status**

1. Titan heavy concrete foundations are complete. These were the major pours.
2. Underground main power and control conduit circuits are complete from the Titan complex to the substation vaults. These were the major circuits. First class expedited work, hard work, by the Sitka Electric Line Crew is commended.
3. Excavation for Titan 20MVA-GSU Transformer pad and containment dike is next followed by substation structures concrete foundations. The plan is to keep rolling, as long as weather permits, until all site work is completed well before Titan scheduled delivery in March, 2014.
4. The GSU (Generator Step-Up) Transformer is scheduled for testing at the Missouri manufacturing plant Nov. 7, 2013. The Titan turbine unit test is complete and Titan Package test is scheduled for Nov. 20, 2013 at the San Diego Solar plant. The current plan is for a Sitka Electric Department witnessing of that one day test.
5. Logistics planning with Solar is in progress for delivery of the 250 tons of the Titan complex to Sitka. Solar delivery at Port of Sitka or at the Jarvis Site is being reviewed for best cost option to CBS. On site heavy crane lifts will be CBS responsibility, which is as originally planned and budgeted.

6. Substation structural steel acquisitions are in progress. These are the last major materials items remaining with a lead time of about two months.
7. All major engineering work is complete except installation details of the two 40,000 gallon, double-wall, Titan dedicated fuel tanks. Design work remaining includes foundations, pads, piping, spill containment diversion and a thorough fire prevention, containment and suppression review by multiple entities. The tanks, ancillary equipment and installation work are purchased. The fuel tanks are an end of project installation item.
8. Title V Operations Permit is out for public comment. The 45-day comment period started October 1 and closes November 15.

### Total Project Cash Flow



## **BLUE LAKE EXPANSION PROJECT MONTHLY CONSTRUCTION REPORT**

For Period Ending: OCTOBER 31, 2013

Prepared by: BARNARD CONSTRUCTION COMPANY, INC.

### **1. Progress of work**

#### **Environmental Protection**

Barnard continues to install erosion and sediment control measures as required at the dam site, storage yard at Sawmill Cove Industrial Park and powerhouse area as ground disturbing activities continue. BMP maintenance and repair is ongoing as needed throughout the project site.

#### **Gate Chamber/Shaft Concrete**

Barnard has completed two crown placements in the gate chamber. All of the remaining concrete work in the tunnel will be completed early next year following removal of the temporary concrete plug. Barnard has also started the concrete lining in the gate shaft. This work will continue through November.

#### **Dam Raise**

Barnard crews have completed 14 monolith block pours on the dam raise. Our crews have completed the first season concrete on the right abutment and have started the dam raise concrete on Monolith 6 and 7. Barnard crews have also completed three concrete placements on the left abutment thrust block and cutoff wall.

#### **Powerhouse**

ASRC McGraw has completed the concrete for the Elevation 13 floor slab in the powerhouse and approximately 1/3 of the PH Walls. NAES Power Contractors and Schmolck Mechanical are both working at the powerhouse now to install the embedded drain piping and electrical conduit.

Southeast Earthmovers continues rock excavation for the new powerhouse access road and has completed temporary backfill against the powerhouse to allow for crane access. Barnard has been excavating for the rock knob removal above the new powerhouse access road.

Barnard crews have completed removal of the existing timber crib wall and are currently placing the rock fill in its place. This work is expected to be completed in early November.

### **2. Status of Construction**

#### **Status of Ongoing Major Construction Activities**

- Powerhouse Excavation – 90% complete
- Dam Raise – 1240 CY placed to date.
- Left Abutment Thrust Block and Cutoff Wall – 240 CY.
- Powerhouse Concrete – 2800 CY placed to date.
- Gate Chamber Concrete – 150 CY placed to date.
- Gate Shaft Lining – 4 VF completed.
- Penstock Piping – 135 LF installed.

## **BLUE LAKE EXPANSION PROJECT MONTHLY CONSTRUCTION REPORT**

For Period Ending: OCTOBER 31, 2013

Prepared by: BARNARD CONSTRUCTION COMPANY, INC.

See Section 1 above for construction work completed in October 2013.

### **3. Construction Issues**

The team identified a non-conformance at the Powerhouse in October. We believe the Unit 4 Penstock pipe is approximately 0.7 feet further into the powerhouse footprint than necessary. We are currently evaluating our survey data and will provide a non-conformance report and suggested repair in November.

### **4. Contract Status**

Barnard's key subcontractors for the Blue Lake Project are as follows:

<b>Name</b>	<b>Scope</b>
ASRC McGraw Constructors, LLC	Powerhouse Construction
Southeast Earthmovers, Inc.	Excavation
Blue Lake Tunnelers	Underground Construction
Crux Subsurface	Foundation Grouting, Micropiles, PRW's
O'Neill Surveying and Engineering	Land Survey
Baranof Materials Test Lab	Quality Control
NAES Power Contractors	Turbine-Generator Installation/Electrical

Barnard's key material suppliers for the Blue Lake Project are as follows:

<b>Name</b>	<b>Scope</b>
ASRC McGraw Constructors, LLC	Concrete Supply
Gerdau Reinforcing Steel	Concrete Reinforcing Steel
Haskell Corporation	Misc. Metal Fabrication

### **5. Critical Events and Dates**

Please see attached summary progress schedule updated October 31, 2013.

Critical Dates for the Blue Lake Project are as follows:

<b>Milestone</b>	<b>Date</b>	<b>Required Status of Construction</b>
1	07/01/2013	Drainage Tunnel Complete - <b>Completed May 6, 2013</b>
2	08/19/2013	Initial Intake Excavation Complete - <b>Completed July 21, 2013</b>
3	06/04/2014	Intake Structure Complete
4	08/24/2014	Ready for Generation Outage
5	61 days after start of Generation Outage	Substantial Completion of 1 <sup>st</sup> Blue Lake Turbine Generator
6	91 days after start of Generation Outage	Substantial Completion of 2 <sup>nd</sup> Blue Lake Turbine Generator
7	80 days after start of Generation Outage	Substantial Completion of Fish Valve Unit

## **BLUE LAKE EXPANSION PROJECT MONTHLY CONSTRUCTION REPORT**

For Period Ending: OCTOBER 31, 2013  
Prepared by: BARNARD CONSTRUCTION COMPANY, INC.

### **6. Reservoir Filling**

Blue Lake Reservoir has started spilling in late October.

### **7. Foundations**

Not applicable for this report.

### **8. Sources of Major Construction Material**

The City and Borough of Sitka will be providing most of the major construction materials for this project. Please see list below.

<b>Contract No.</b>	<b>Vendor</b>	<b>Scope of Supply</b>
1	Gilbert Gilkes and Gordon, Ltd.	Turbines and Generators
2	Myers	12.47 kV Switchgear
3	Linita Design and Manufacturing	Bulkhead Gate, Fixed Wheel Gate and Hoist
4	T Bailey, Inc.	Penstock and Manifold
5	WEG Electric	69kV Transformers
6	Benchmark Industrial Services	Powerhouse Bridge Crane
7	CHG Building Systems	Powerhouse Building

Materials Received this Period:

Rebar – Barnard has been receiving reinforcing steel for the powerhouse and dam throughout the month of October.

Misc. Metals - Barnard has been receiving misc. metals for various project features throughout the month of October.

### **9. Material Testing and Results**

Concrete testing is ongoing for the dam raise, gate chamber and powerhouse concrete. No issues have been encountered to date.

### **10. Instrumentation**

Not applicable for this report.

### **11. Photographs**

**BLUE LAKE EXPANSION PROJECT MONTHLY CONSTRUCTION REPORT**

For Period Ending: OCTOBER 31, 2013

Prepared by: BARNARD CONSTRUCTION COMPANY, INC.



**Figure 1: Timber Crib Wall Rockfill Placement**



**Figure 2: Rock Knob Excavation**

**BLUE LAKE EXPANSION PROJECT MONTHLY CONSTRUCTION REPORT**

For Period Ending: OCTOBER 31, 2013  
Prepared by: BARNARD CONSTRUCTION COMPANY, INC.



**Figure 3: Powerhouse Walls Placement**



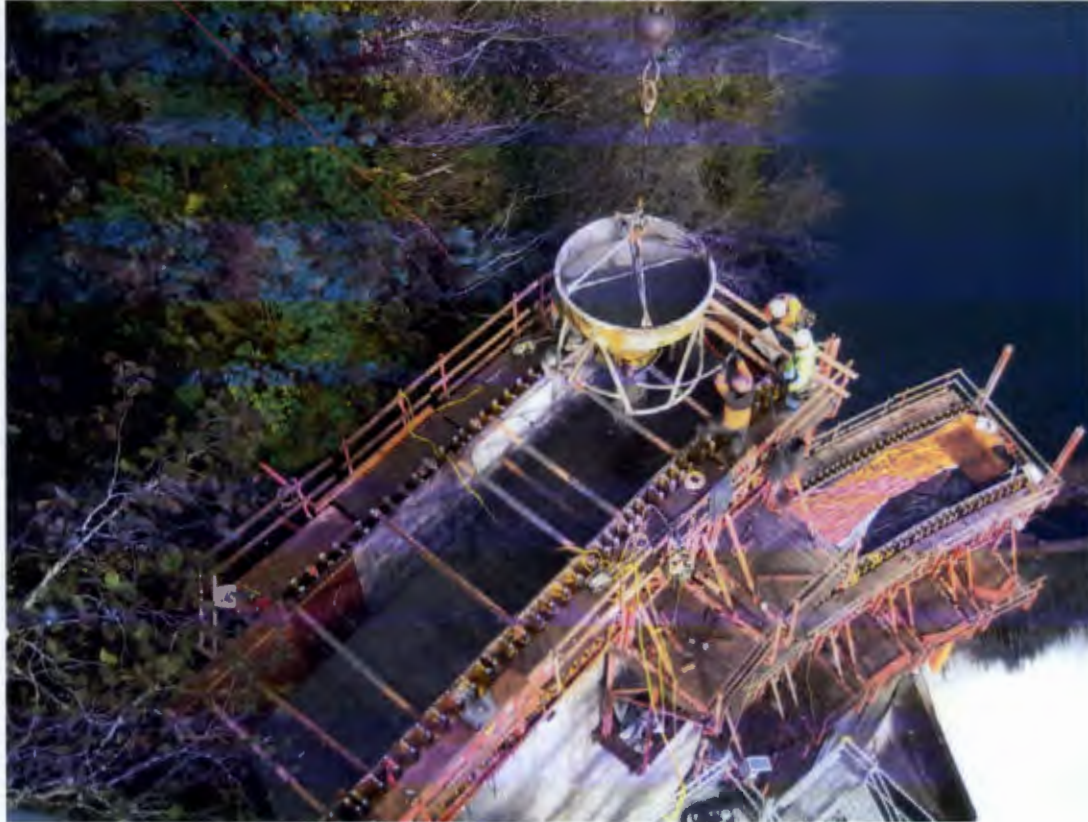
**Figure 4: Cutoff Wall Concrete Placement**



## **BLUE LAKE EXPANSION PROJECT MONTHLY CONSTRUCTION REPORT**

For Period Ending: OCTOBER 31, 2013

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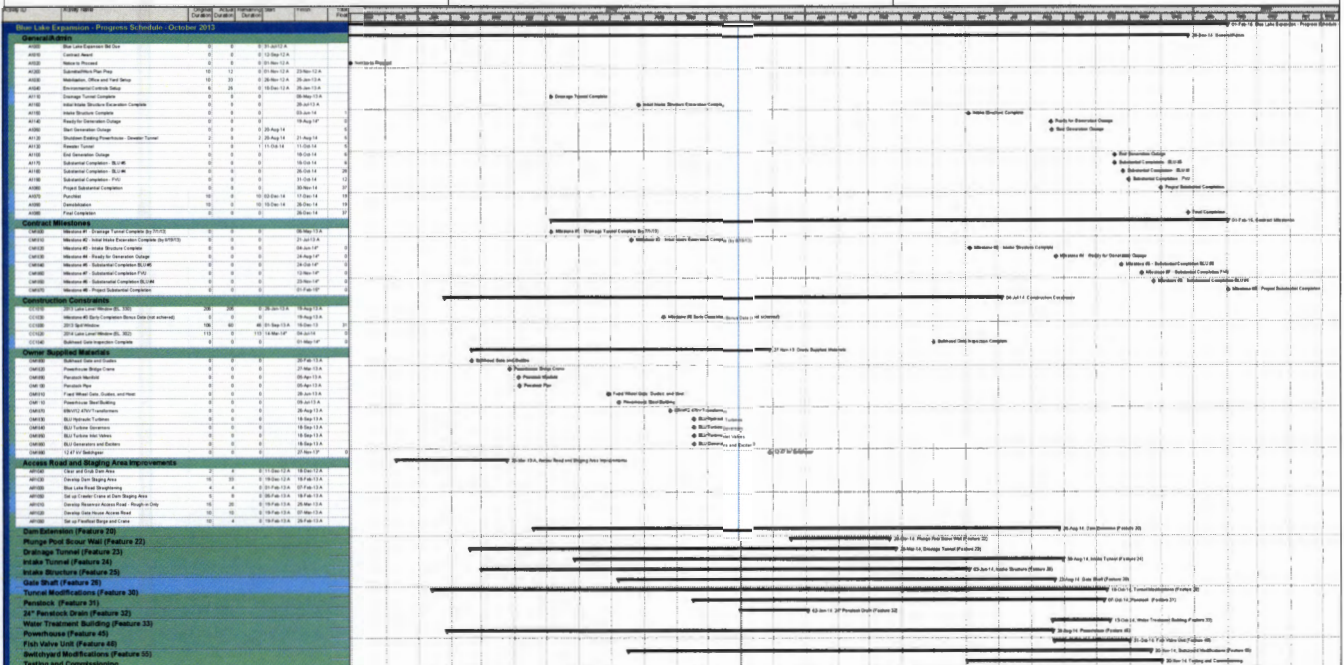
**Figure 5: M1-425 Concrete Placement**

### **12. Erosion Control and Other Environmental Issues**

Barnard is continuing to install the required environmental protection measures on the project site ahead of ground disturbing activities. Ongoing maintenance of dewatering system at powerhouse excavation site will be required to maintain water quality in Sawmill Creek.

### **13. Other Items of Interest**

Barnard, McMillen and CBS staff participated in the annual Alaska Day Parade through downtown Sitka on October 18, 2013.



October 2013

# The Barnard Monthly

Newsletter for the Employees and Friends of the Barnard Companies

## Gilboa Team Capitalizes on and Enjoys an Autumn without Hurricanes



At Gilboa Dam, crews are now reconstructing the east training wall's two upstream monoliths.

(Gilboa, New York) With winter just around the corner, our *Barnard-D.A. Collins JV* Team nears the mark of having placed 100,000 CY of concrete at the **Gilboa Dam Reconstruction Project**. Our crews have excelled at keeping up the pace of work while maintaining the high standards of safety and quality, which have become synonymous with this project. Assuming the onset of a typical winter, we will place concrete until mid-December, at which point average daily ambient temperatures will make it difficult to place concrete economically. Crews will then resume concrete production next April with the goal to be complete by next August.

The new mass concrete spillway face nears completion on the spillway's

western end in monoliths M15 – M18; it should be complete by Thanksgiving. Meanwhile, we are installing a temporary bulkhead at the crest in monoliths M9 – M13. When complete, the Obermeyer gates in monoliths M15 – M18 will be lowered and spillway flows directed to the far west end of the spillway while we finish concrete placement in the middle of the spillway next year.

The dry fall and surprising lack of hurricane activity in the region this year has kept the reservoir from spilling through the temporary crest notch. We've taken advantage of this by eating into work previously anticipated for next year, including starting the 6-foot steps in monoliths M10 – M14 and work on

*(continued on page 2)*

### Inside this issue:

Gilboa, continued	
LCRA Project Launches	2
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The Month in Photos	9
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**Gilboa** *(continued from page 1)*

the plunge pool slabs and end sill on the eastern half of the diversion wall.

Our anchor crew recently began the drilling and pre-grouting for 15 post-tensioned anchors in the end sill, which will serve as the structural limit of the plunge pool re-lining. Although these anchors were originally specified to be strand anchors, we received approval to use a bar anchor, enabling our anchor crew to perform this work versus remobilizing *Drill Tech* to the site. To date, the anchor crew has installed over 26,000 LF of rock anchors for the spillway channel and plunge pool

slabs. These anchors will resist the uplift forces on the new channel lining during high-flow spill events.

Demolition and excavation of the upstream portion of the east training wall is complete; concrete crews are now forming up the footing. Concrete work for this wall should be complete by mid-November, allowing final backfill and grading of the east abutment to be complete by the first of the year.

At the west training wall, concrete placement nears completion. We'll start backfilling over the next several weeks.

Electrical subcontractor, *Clifford R. Gray*, is wrapping up electrical conduit and panel installation in the gallery and will soon be moving to the now-finished electrical and HVAC rooms on the east abutment. Masonry subcontractor, *Lupini Construction*, continues to install masonry veneer on the reconstructed top of the west training wall.

We're building this project for the *New York City Department of Environmental Protection*. It was designed by *Gannett Fleming/Hazen and Sawyer, PC, A Joint Venture*.

— *Gilboa Team*



Reconstruction of the top of the west training wall progresses from within the plunge pool.

"We cannot do everything at once, but we can do something at once."

— Calvin Coolidge, 30th U.S. president

**Barnard Begins CMAR Contract on New Off-Stream Reservoir**

Since late September, our Barnard team has been busy working as the CM at Risk on the **Lower Basin Reservoir Project** for *Lower Colorado River Authority (LCRA)*. We're participating in design review meetings, providing feedback on constructability, and suggesting potential value engineering ideas. Over the next month, our Team will be working with LCRA and *CH2M Hill* to develop a preliminary budgetary cost estimate based on 30 percent design documents. The project is moving at a very fast pace for all involved; we're on a fast-track to start construction by the second quarter of 2014.



Map of Lower Basin Reservoir location, courtesy of LCRA.

## Central T's Southbound Tunnel Progresses under Downtown San Francisco

(San Francisco, California) At the **Central Subway Tunnel Project** in the middle of downtown San Francisco, our *Barnard Impregilo Healy JV Team* has gone from a year of complex tunnel prep work to significant tunneling in just a few short months.

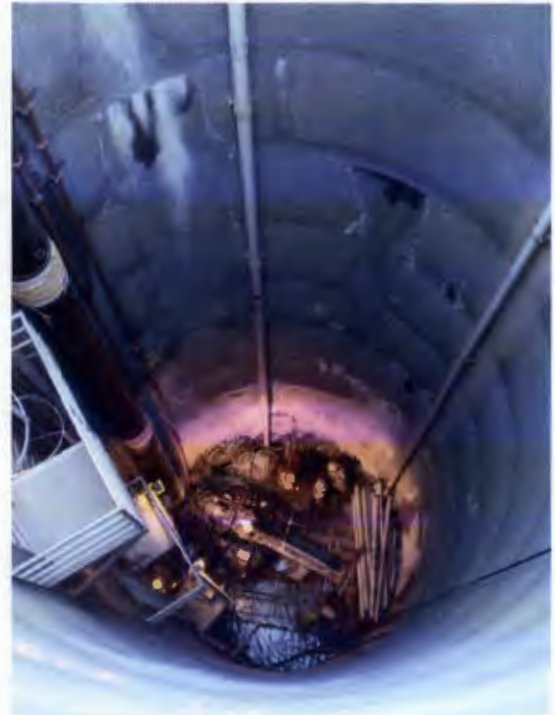
After recommencing tunneling operations in late September, our crews working with the southbound tunnel boring machine (TBM), "Mom Chung," have completed over 1,000 LF of tunnel to date. (Tunneling shut down briefly to allow for installation of the continuous conveyor system that removes excavated material from the tunnel.) This month, Mom Chung's work has included successfully passing through the launch box headwall and both north and south Moscone Station headwalls, which we constructed in the last year. Picking up momentum as they go, our crews are now constructing over 50 LF of tunnel per day, despite the difficult access restrictions we face at the launch box where our Team is also focused on the assembly and testing of "Big Alma," our northbound TBM.

Currently, we're wrapping up Big Alma's final testing and commissioning; we expect to begin excavation of the second tunnel as this newsletter goes to print. To prepare for Big Alma's initial tunneling, we've mobilized our compensation grouting subcontractor,

*Condon Johnson-Nicholson JV (CJA-NCC)*, to the location above the tunnel alignment so they'll be in place to protect adjacent buildings and structures in the event our tunneling operations induce ground movement. CJA-NCC placed compensation grouting pipes and additional pre-conditioning efforts in this area earlier in the year.

CJA-NCC also recently completed installation and pre-grouting of compensation grouting pipes from within the Ellis Shaft. These efforts were designed to protect nearby BART commuter train tunnels and retail stores along Stockton Street in San Francisco's busy Union Square. The pipes have been installed in a horizontal array from the bottom of the 85-foot-deep shaft located at the intersection of Ellis and Stockton streets.

CJA-NCC's jet grouting at the Union Square/Market Street Station headwalls is complete as well. Its crew is scheduled to pour the last of the headwall piles on Oct. 30. The UMS headwall piles are both vertical secant and battered tangent piles. They are 4 feet in diameter and installed to depths of approximately 160 feet.



*Compensation grout pipe installation and pre-conditioning from within the Ellis Shaft.*

Our JV Team has also begun construction at the new retrieval shaft location, recently completing the necessary sitework and slurry pits in preparation for our subcontractor, *Drill Tech*, to begin constructing the Cutter Soil Mix (CSM) walls. We anticipate Drill Tech will mobilize its highly specialized equipment by the end of this month and immediately begin construction of the CSM walls.

The new retrieval shaft will measure 50 feet square with a depth of approximately 50 feet as well. It's located on recently acquired private property alongside the tunnel alignment in an attempt to reduce traffic impacts in this highly sensitive urban area.

*PB/Telamon JV* designed this project for the *San Francisco Municipal Transportation Agency*.

— Central T Team



*A recent look at activity in the launch box.*

## PG&E Projects Keep Barnard Teams Busy with Challenges in Urban Settings

(Northern California) Our PG&E Alliance Team's busy October schedule promises to continue in November as well. In October alone, we contributed over 13,500 feet of pipeline replacement to PG&E's PSEP (Pipeline Safety Enhancement Plan) Projects, along with the completion/tie-ins of multiple hydrant tests and smaller Base Work projects. Big contributors to our total replacement footage in October came from L-220 in Davis and Woodland, and L-172A in West Sacramento. Both of these projects have not been without their challenges, but we continue to make good progress.

Crews on L-220 are finishing up the last pipe to be installed and backfilled; they're preparing for the multiple tie-ins that will mark completion of this project. The L-220 Project was divided into multiple replacement sections spanning from Davis to Woodland, towns that are roughly 12 miles apart. This arrangement makes for a challenging tie-in, which will have to happen in four separate clearances with the help from multiple PG&E transmission, distribution, and construction

personnel. Adding to the challenge of these tie-ins is another Barnard project, the Davis Meter Regulator Station (DMRS) rebuild. This regulator station is the main control point for all gas coming into and out of Davis. It was demolished and rebuilt in September and October. Before any new pipe in Davis and Woodland can be tied in, this new station has to be completed and gassed back up. Coordinating all of these tie-ins is a challenge, to say the least.

L-172A in West Sacramento also has offered challenges. This project consists of 3.1 miles of 16-inch steel pipe replacement through busy streets in West Sacramento with three horizontal directional drill (HDD) crossings. We currently have 12 crews working on this project, between day and night shifts and multiple subcontractors. We recently mobilized our HDD sub, Cross Country HDI, to the

job to start on the first HDD crossing. These HDDs are located in the most difficult sections of replacement where multiple utility crossings, groundwater, bad soil conditions, and major traffic intersections make conventional open-cutting a challenging option. This project will push into the holiday season as we wrap up the 2013 PG&E PSEP Projects.

— PG&E Team



Newly installed pipe is tied-in at the L-220 Project in Davis, California.



(Left): Pipe installation activities along West Capitol Ave. at the West Sacramento L-172 Project.

(Above): A crew begins its shift at the T-282 Project in Sacramento.

## Blue Lake Team Joins in Sitka's Alaska Days Celebration

On Oct. 17, 1867, a crowd gathered in Sitka, Alaska, to witness the transfer of Russia's claim to Alaska to the United States. Photos show that they enjoyed a clear day for their celebration. Not so this Oct. 18, though the crowds assembled were no less celebratory.

This year's festivities focused on a 50-year celebration of the Alaska Marine Highway System. The week of activities included a parade through downtown at which our *Blue Lake Expansion Team* was well represented. Project employees from Barnard, McMillen LLC and the City and Borough of

Sitka worked on floats, marched with banners, and drove equipment in the parade, sharing candy along the way. Their participation was well received! Kudos to **Rick Taylor** and **Desiree Brandis** for organizing our part in the event.



(Top, l to r) The Blue Lake Team lines up for the parade. Cliff Stump aboard a Barnard float. (Bottom, l to r) Employees and families ride through downtown along with the excavator. Rick Taylor at the controls. Desiree Brandis, Shawn Perrin, and Bill Macy on the float.

## Crews Continue Placing Concrete as Blue Lake Dam Begins Its Seasonal Spill

(Sitka, Alaska) Barnard crews at our **Blue Lake Expansion Project** have completed the allowable first season concrete placements on the Blue Lake Dam's right abutment. Monolith 1 is now 80 feet above the existing dam. Our crews are now moving to the left side of the existing spillway where they will continue concrete placements through late fall and early winter.

With all of the precipitation lately, Blue Lake has risen recently and begun spilling; it's expected to continue spilling until mid-December. When the lake level begins to recede, our crews will begin raising the center section of the

dam. Barnard crews have also started placing concrete for the left abutment thrust block and cutoff wall. This work will continue through late fall as well.

Our underground crew has now completed all of the intake tunnel concrete behind the temporary plug. We'll complete the remaining gate chamber concrete early next year when the lake level drops enough to remove the temporary tunnel plug. This crew has started placing the gate shaft lining concrete.

ASRC McGraw Constructors LLC continues with concrete work at the

new Blue Lake powerhouse. They have completed the turbine floor concrete and have placed about one-third of the powerhouse walls. They expect to begin installation of the powerhouse building in early November. Electrical (NAES Power Contractors), mechanical (Schmolk Mechanical) and rebar (RPC) crews continue to install all of the required embedments. Southeast Earthmovers has continued excavation for the new powerhouse access road.

We're building this project for the City and Borough of Sitka and Construction Manager McMillen, LLC.

— Blue Lake Team

## Trash Talk with Kathi Jenkins, *Corporate Environmental Director*



### Spill Cleanup and Reporting

Spills and leaks are a given in our industry. We work with so much equipment that to have a few spills or leaks along the way is inevitable.

That being said, it is in everyone's best interest and, therefore, our overarching goal to minimize the frequency and severity of these incidents. It's not cost-effective to lose product and spend time on cleanup when we have several spills.

We avoid fines and citations if we don't have large spills, and owners all appreciate our attention to environmental stewardship when we report small spills that are handled correctly.

Beginning with training and ending with disposal, the same protocol holds for each and every project site:

All spills over ½ cup need to be cleaned up immediately and reported to the office.

Cleanup materials (e.g., oil absorbent pads or booms) must be available at several convenient locations.

Clearly mark the disposal containers for contaminated material. (The contaminated material and cleanup materials cannot go into regular dumpsters with trash.)

For large spills, be sure to notify the proper authorities immediately.

If necessary, take confirmation samples of the soil near the cleanup area to be sure that the contamination has all been captured.

Keep records of final disposal for future liabilities.

Most importantly, if you are not sure what to do, **ASK** your Superintendent or Project Manager before you continue.

## Barnard Welcomes Eric Smith to Central T Team

Our Central T Team recently welcomed **Eric Smith** to the San Francisco project. Eric is a Walker.

Eric grew up in Osceola, Iowa, leaving the prairie soon after high school in pursuit of a career in underground work. Since then, he's spent 40-plus years building



expertise in the industry by working in nearly every position, from Chuck Tender, to Miner, Operator, Shifter, Walker, TBM Operator, Equipment Superintendent and Tunnel Superintendent.

Eric's work with TBMs has taken him to Asia, Europe, Canada and various locations across the U.S. Before joining Barnard, he worked with Kiewit, Affolder, Shea, Kenny, Morrison-Knudsen, SAK, and S.A. Healy Company, among others.

Eric and his wife, Deloris, enjoy spending time with their children and grandchildren. In their spare time, they visit their small farm in Iowa. Eric also enjoys bow hunting, fishing and playing pool. He's played pool in a number of leagues and is always happy to take on a challenger.

"A good objective of leadership is to help those who are doing poorly to do well and to help those who are doing well to do even better."

— **Jim Rohn**,  
American entrepreneur



### Central T Team Celebrates Hard Work and Attention to Safety and Quality

Clear sunny skies greeted more than 140 Central T Team members and their families on Saturday, Oct. 19, when they gathered for an Employee Appreciation BBQ. What better place to set up the event than atop the TBM

launch box in the heart of downtown San Francisco? The celebration included a tour of the launch box and a walk a few feet into the new tunnel, so the Team could show off this accomplishment to friends and family.

Many thanks to all on the *Barnard Impregilo Healy JV Team* for your hard work and dedication. Thanks, also, to **Stephanie Gilbertson** for organizing the day's activities and **Mike Hanley** for the photos.



Left (top to bottom): People line up for BBQ. Ed Bister (Robbins) Vik Sehdev, Guido Boselli, and Pietro Foravanti (Impregilo Healy). Mike and Vikki Shough and Debra and Mike Hanley. Central T Team crew and their families enjoy the BBQ.

Middle (top to bottom): Ben Campbell and Andy Granger enjoy the day. Stephanie and Mike Gilbertson. Tunnel Laborer Wilber Brown and his family. Tunnel Laborer Steve Wright and his wife.

Right (top to bottom): Jimmy McGauley unwinds. Shannon Cozino and Jack Sucilsky.

## An Engagement to Celebrate!!

Be sure to congratulate **Tyler Ross** and **Katelin Weaver** on their recent engagement! They plan to be married next June 21 in La Grande, Oregon, where Katelin grew up.

Tyler is currently assigned to our PG&E work in and around Sacramento, California, which is where he met Katelin more than a year ago while visiting mutual friends. She currently works for Siemens Healthcare as an Ultrasound Applications Specialist. She has a degree in Radiology from Boise State University.



## Competitive Pumpkin Carving at the Home Office



Never has pumpkin carving been taken so seriously! Congratulations to contest winner, **Jeanne Cysewski**, for her black cat entry pictured above.

Hard at work on Halloween at Gilboa Dam.

## Thanksgiving Safety Tip

The kitchen is the heart of the home, especially at Thanksgiving. Knowing that kids love to be involved in holiday preparations, safety in the kitchen is important, especially on Thanksgiving Day.

### Safety Tips

- Stay in the kitchen when you're cooking on the stovetop, so you can keep an eye on the food.
- Stay in your home when cooking your turkey and check on it frequently.
- Keep children at least 3 feet away from a hot stove.
- Make sure the kids stay away from hot food and liquids. The steam or splash from vegetables, gravy or coffee can cause serious burns.
- Keep the floor clear so you don't trip over kids, toys, pocketbooks or bags.
- Keep knives out of the reach of children.
- Be sure electric cords from an electric knife, coffee maker, plate warmer or mixer are not dangling off a counter within easy reach of a child.
- Keep matches and utility lighters out of the reach of children, preferably up high in a locked cabinet.
- Never leave children alone in a room with a lit candle.
- Make sure your smoke detectors are working. Test them by pushing the test button.

Learn more at <http://www.nfpa.org/safety-information/for-consumers/holidays/thanksgiving-safety>.

— **Mike Flynn**,  
Corporate Safety  
Director



**The Month in Photos**



Left: Amsterdam Elementary held a Climb-a-thon on the hill behind the school to raise money in support of the school on Oct. 16. **John (JT) Reynolds** (in the tan shirt) and brother, **Mason**, (in the hoodie) each climbed the hill 23 times!



Five months after shoulder surgery, **Paul Thompson** defended his Barnard one-on-one title by defeating **Ely Johnson** 11-5. Ely started off hot and led 4-1 before "Hurricane Paul" took over control.



"People working for People" – **Jaclyn Liebscher** trains on use of the Jaws of Life as a Bridger Canyon Rural Fire District volunteer firefighter.



(Left)Go Steve! **Steve Kidd** finished 9th among 143 participants in Washington's 2013 racing season overall championship. He also placed 3rd in Middle-Weight Endurance class; 4th in Open Supersport class for WA and OR; 5th in Open Superbike; and 6th in Formula Ultra, resulting in qualification for an AMA Pro Race License. (Right) Some members of Gilboa's Team gathered recently to toast a birthday. Left to right: **Bill Sutter, RJ Roos, Sam Gunlock and Aaron Rietveld**.

## Project Photo Album



1. Blue Lake crews work around the dam's seasonal spill.  
2. A look at the recently completed gallery inside Gilboa Dam.  
3. The completed park atop Snoqualmie Falls.

4. Looking out of Central T's southbound TBM trailing gear toward Superintendent/Walking Boss **Mike Gilbertson**.  
5. Our PG&E Team's Line 172A horizontal directional drill (HDD) on Jefferson Street in West Sacramento, California.

# October Public Works Progress Report 11-1-13

## **The Ride Transit Stop Permanent Location:**

The "Ride" transit bus stop will be relocated to the southwest corner of Lincoln Street and Harbor Drive (next to Stereo North) for operations starting November 25, 2013. The "Ride" needs time to properly notify their riders prior to the change. The temporary location at the southeast corner of Lincoln and Harbor Drive (across from The Bayview) will be restriped for on-street parking.

## **Centennial Hall & Library Site Parking Lot Development:**

### **Milestones This Period**

- The project was accepted as Substantially Complete on September 30, 2013.
- The contractor is completing punch list items.
- Project extras not part of the S&S contract are at various stages of completion. Examples include construction of a snow dump between Centennial Hall and the Library and potential additional lighting improvements.

### **Future Milestones**

- Some punch list items will be addressed in the spring of 2014.

### **Background**

The project includes the complete reconstruction of the Centennial Hall Parking Lot and Crescent Harbor Parking lot. The improvements include storm drain, water, sewer, curb and gutter, paving, lighting, pedestrian plaza and landscaping. S&S General Contractors was awarded the construction contract in the amount of \$2,613,651. The total project budget is \$3,950,000.

## **Baranof Street Water and Sewer Improvements:**

### **Milestones This Period**

- The project was accepted as Substantially Complete on September 30, 2013.
- All significant tangible punch list items have been addressed. The contractor is working on satisfying documentation requirements.

### **Background**

The project includes water, sewer, storm drain, curb and gutter, sidewalk and pavement improvements and has a total funding of \$2,672,500 including Alaska Department of Environmental Conservation (ADEC) Municipal Matching Grant and Loan funds. The Assembly awarded the construction contract to S&S General Contractors on the April 23, 2013 Assembly meeting, in the amount of \$1,712,916. The total estimated project cost is \$2,232,000.

## **Edgecumbe Drive Street Reconstruction:**

### **Milestones This Period**

- O'Neill Surveying and Engineering began work on an as-built/topographic survey on October 24, 2013. Draft deliverable due at the beginning of December 2013.

### **Future Milestones**

- Project bidding February 2014.
- Award design-build contract March 2014. Contractor will be responsible for design and will propose a schedule. Construction can begin before design is complete with CBS approval.
- Begin construction July 2014
- Complete construction November 2014

### **Background**

The project includes drainage, sidewalk, curb and gutter, pavement and potentially traffic calming improvements on Edgecumbe Drive from Kimsham Street to Cascade Creek Road. The total project budget is \$4,750,000, which falls short of the cost estimate of \$5,500,000. Public Works will pursue a design-build contract that would allow the contractor to fit a project into our budget that will best satisfy a priority list we will provide in the bid package.

## **Hollywood & New Archangel design:**

### **Milestones This Period**

- DOWL-HKM has signed a \$104,804 contract to complete a design for this project.
- Design consultant on-site the week of November 4, 2013, to perform geotechnical investigation and site survey.

### **Future Milestones**

- 35% design drawings and cost estimate due December 2013
- 65% design drawings and cost estimate due January 2014
- 95% design drawings and cost estimate due February 2014
- Construction drawings and final cost estimate due March 2014

### **Background**

The project includes design for water, sewer, storm drain and pavement improvements, and potentially curb and gutter and sidewalk improvements on Hollywood Way and New

Archangel Street from Halibut Point Road to Marine Street. Funding for design is available from ADEC Loans (Hollywood Water \$250,000, Hollywood & New Archangel Sewer \$500,000), General Fund budget for streets (\$5,000), and Enterprise Funds (Hollywood Water \$25,000, Hollywood Sewer \$25,000, New Archangel Sewer \$25,000).

### **Airport Baggage and TSA Area design:**

#### **Milestones This Period**

- McCool Carlson Green has signed a \$65,818 contract for preliminary design services for this project.
- The consultant team visited Sitka on November 4 and 5, 2013. Consultants conducted research and interviews with members of the Airport Users Group, consisting of representatives from Alaska Airlines, TSA, ADOT&PF, airport vendors, Harris Air and CBS.

#### **Future Milestones**

- Final scoping and design criteria report due December 2013
- Upon Assembly approval of project scope, award design contract for airport improvements January 2014
- Submittal of application to the Federal Aviation Administration to collect Passenger Facility Charges to fund airport improvements due February 2014
- 65% design drawings and cost estimate due March 2014
- 95% design drawings and cost estimate due May 2014
- Construction drawings and final cost estimate due July 2014

#### **Background**

The project includes design for expansion of the baggage makeup and TSA baggage screening areas. The project will also help establish a Passenger Facility Charges (PFC) program that will raise funds for the construction of the work. Funding collected from a previous PFC program amount to \$275,000 for the design project. \$76,000 budgeted for an unfinished Airport Lighting Retrofit project is available if needed.

### **Centennial Hall Renovation:**

#### **Future Milestones**

- The design consultant, McCool Carlson Green (MCG) has developed building elevations and will meet with the Building Design Committee (BDC) November 18, 2013, followed by a Work Session with the Assembly at 5:30 p.m. prior the November 26, 2013 Assembly meeting. For the larger community, MCG will also make a short presentation at the meeting, showing the proposed conceptual floor plan, building elevations, and a short video 'fly by' in 3d modeling.
- Next Building Design Committee Meeting December 2013.

- Next Assembly Work Session & Building Design Committee Meeting January 2014.
- Concept/Schematic Design due February 2014
- 35% cost estimate due February 2014
- Design Development documents and 65% cost estimate due May 2014
- Construction Documents and 95% cost estimate due August 2014
- Project Bidding September 2014
- Award construction Contract November 2014
- Begin construction January – February 2015
- Complete construction November - December 2015

## **Background**

The current total estimated cost for this project is \$15.2 million including the new museum wing. Phase one estimated cost is \$11,421,000. Current grant funding allocated specifically to the project is only \$8,230,000. A \$2,000,000 FY10 Legislative Grant designated for a lightering facility visitor's center (previously planned for under the O'Connell Bridge), is eligible to be used for this project since Centennial Hall serves as a visitor center for the Crescent Harbor Lightering Facility.

A FY14 Legislative Priority Request was submitted consisting of \$4,200,000 for the Centennial Hall building improvements and \$3,341,000 for combined Library/Centennial Hall heating system improvements; however it does not appear that either request will be funded at this time. Additionally, approximately \$2,000,000 is available in the Marine Passenger Fee Fund that could be used for this project. If additional funds are not secured, the scope of the project will need to be scaled back or phased with additional museum and meeting space expansion planned for the future when funding becomes available.

## **Ultra Violet (UV) Disinfection Facility:**

### **Milestones This Period**

- A site survey was performed to locate the property corners. This will help delineate the site from the rock piles that are growing at Sawmill Cove Industrial Park. The new topography will be provided to the design consultant for incorporation into the site plan.

### **Future Milestones**

- The 65% design is due November 21, 2013.
- The 95% design is due January 2014
- The 100% design and ADEC approval to construct is due January 2014



- The project will be bid for construction in March 2014
- The project construction will begin May 2014
- The project construction will be complete September 2014
- ADEC approval to operate December 2014

## **Background**

The Blue Lake drinking water system is a surface water system, which must comply with the EPA Enhanced Surface Water Treatment Rules (ESWTRs). The subject UV Disinfection Facility will provide the additional microbial and disinfection controls required under the ESWTRs.

The current project cost estimate is \$8,966,000. Funding for this project is provided by State of Alaska Department of Environmental Conservation (ADEC) loans and grants:

- \$4,000,000 FY 2011 ADEC Loan. Includes \$2,500,000 financed with \$1,500,000 subsidized.
  - \$2,550,000 FY 2012 ADEC Loan (pending).
  - \$3,500,000 FY 2012 ADEC Grant (30% local match requirement).
  - \$2,061,000 FY 2013 ADEC Grant (pending - 30% local match requirement).
- \$12,111,000 Total Project Funding.

The grants and loans indicated as pending are grants and loans listed on the Alaska Drinking Water Fund intended use plans, for which CBS has submitted appropriate paper work to have the grant or loan finalized.

## **Library Development Planning:**

### **Future Milestones**

- The Design team, MRV Architects, will meet with the Library Design Committee later this month and will present the proposed conceptual design and conceptual cost estimate to the Assembly for approval.
- Finalization of the FEMA information is still outstanding.
- Design completion May- June 2014
- Advertisement for bids July 2014
- Construction begins August 2014
- Construction Complete August 2015

## **Background**

The design phase is expected to take 12 months at a minimum with the earliest advertisement for construction planned for late summer/fall 2014. The project construction may be completed in 2015, depending on the phasing plan that is developed.

The State funding of \$5.7 million awarded to CBS is a direct appropriation with no funding match requirements. A private donation of \$400,000 has also been given to the project by the John J. and Eleanor Brust Family. \$350,000.00 of the budget was allocated to the Centennial Hall Parking Lot Project to relocate the Swan Lake storm drain, leaving a current project budget of \$5.75 million for the expansion and renovation of the Library.

### **Storm Water Master Plan Phase II:**

#### **Milestones This Period**

- The project is complete. A report to the Assembly is scheduled as a work session on the November 12, 2013 Assembly Meeting.

#### **Background**

The first phase of the Storm Water Master Plan was completed in late June 2012 with Tetra Tech Alaska, LLC gathering existing infrastructure data and condition inventory to include in our GIS system along with precipitation analysis and drainage basin delineation as part of the first phase of the project. The second year grant funding (FY13) was approved by the Alaska Department of Environmental Conservation and the grant agreement was authorized by the Assembly in July 2012. The grant amount of \$43,388 requires a forty percent CBS match of \$28,925. This phase included collecting more field data, preparing the Stormwater Management plan, Sitka specific rainfall intensities, recommended Best Management Practices, Capital Improvement Plan and an example Stormwater Ordinance.

### **Alternative Water Source Investigation Filtration (Blue Lake Project):**

#### **Milestones This Period**

- The procurement of the filtration units and construction of the piping system has been change ordered into the Barnard Construction Contract for the Blue Lake Dam to allow the contractor to schedule the filtration units to match the scheduled Blue Lake water shutdown.
- The recommended filtration units lease cost is \$1,053,832 which does not include the site development and installation costs.

#### **Future Milestones**

- Design review November 18 – 22 2013
- Final design to ACEC and contractor December 3, 2013
- The system is planned to be operational in July 2014

#### **Background**

The proposed schedule has the design completed in October 2013, Alaska Department of Environmental Conservation permitting completed in March of 2014, construction of the piping and pumping completed in April 2014 and final installation of the filter units in June 2014 for operation in July 2014. The preliminary design cost estimate has a projected design and construction cost of \$3,000,000. Due to the lack of well potential in the Indian River Valley, temporary surface water filtration will need to be utilized

during the Blue Lake Project outage. Award of the design contract to CH2MHILL, was approved by the Assembly on February 12, 2013.

### **Pacific High School:**

#### **Milestones This Period**

- The Pacific High School Renewal Project is Substantially Complete.

#### **Future Milestones**

- The planned move in date for the students is Christmas Break.

#### **Background**

The project budget is \$2.671 million.

### **Blatchley Middle School:**

#### **Milestones This Period**

- The Blatchley Middle School Remodel Project is Substantially Complete.
- Mechanical punch list items and training for School District personnel is complete.

#### **Future Milestones**

- The door correction change order has been executed and the work will be complete by March 2014.
- Electrical punch list items and training for school district personnel is incomplete.

#### **Background**

The project budget is \$12.475 million. The project is within its budget. The contract required substantial completion date is August 1, 2013, which was met with the exception of the door correction (installation).

### **ANB Harbor Replacement (Project # 90674):**

#### **Milestones This Period**

- Transpac Marinas is nearing completion of fabrication of the new main floats in Anacortes, Washington. Float completion is required by early November 2013.
- Moffatt & Nichol (M&N) has completed several inspections of the floats under fabrication during the month of October. CBS Harbor Department Maintenance Supervisor Ron Pratt accompanied M&N staff on two inspections that bookended his own personal travel plans in October 2013.

- Pacific Pile & Marine L.P. (PPM) was awarded the Installation Contract for ANB Harbor at the October 22, 2013 Assembly meeting in the amount of \$3,639,319.00.
- A pre-construction meeting was held on October 31, 2013 which was attended by PPM and various subcontractors, M&N and CBS representatives (Public Works, Harbors, Water and Electrical Dept.).
- PPM has already contacted Transpac and Mantle Industries to coordinate delivery and pickup of the floats, gangway, piling, etc.

### **Future Milestones**

- Mantle Industries (working as a subcontractor to Transpac Marinas) will be complete with fabrication of the new ANB Harbor gangway ahead of the November deadline.
- PPM has indicated they intend to begin demolition work on site on November 19, 2013 with pile installation beginning in early December 2013.

### **Background**

CBS received a FY13 State of Alaska Municipal Harbor Facility Matching Grant, for the ANB Harbor Replacement Project, which will cover 50% of eligible construction costs not to exceed \$4,250,000 in match funding. CBS has received bond proceeds from the Alaska Municipal Bond Bank in the amount of \$4,600,000 for this project. On January 10, 2013, the Assembly awarded a Professional Services Contract to Moffatt & Nichol for the ANB Harbor Replacement Project. On June 25, 2013, the Assembly approved award of the Procurement Contract to Transpac Marinas, Inc. for \$2,698,870.00. On October 22, 2013, the Assembly approved award of the Installation Contract to Pacific Pile & Marine L.P. for \$3,639,319.00. The total project cost is currently estimated at \$7,720,000.

### **Sitka Community Hospital Roof Replacement (Project # 90737):**

#### **Milestones This Period**

- Installation of the new roofing was Substantially Complete on October 24, 2013 with an additional 30 days to complete punch list items.

#### **Background**

The Assembly approved award of a construction contract to CBC Construction, Inc. in the amount of \$784,754.16 for the Sitka Community Hospital Roof Replacement project on April 23, 2013. Due to the very competitive bid received, a change order to the contract was approved to upgrade the insulation to a better product (polyiso instead of EPS). The project is funded through a \$1,200,000 FY2013 State Legislative Grant.

### **Swan Lake Restoration / Dredging Project (Project # 90747):**

#### **Milestones This Period**

- Public Works is working with Fish and Game, the Rotary Club, and the Contractor to develop a dredging schedule for 2014 to coincide with the annual fishing derby on Swan Lake. Once the issues have been resolved, CBS will issue a Change Order adding more dredging quantity to the contract utilizing most of the available grant funding.

### **Future Milestones**

- The Contractor is planning to complete all of the dredging in 2014.
- Purchase of a refurbished aquatic weed harvester was included in the grant funding. These floating machines cut and remove the vegetation to improve recreational opportunities and water flow through the lake. The search for a suitable harvester is on-going with several suppliers.

### **Background**

The Assembly approved award of a construction contract to Island Enterprises, Inc. in the amount of \$399,806 for the Swan Lake Restoration – Lake Dredging project on April 23, 2013. The project includes dredging prioritized selected locations to improve water flow through the lake, winter habitat for fish, access and recreation in general. The City and Borough of Sitka received \$771,236 in Federal funds through the Coastal Impact Assistance Program (CIAP) for this restoration project on Swan Lake. The grant is administered through the Wildlife and Sport Fish Restoration Program, CIAP Branch and runs through December 2015.

### **Sea Walk – Crescent Harbor Park to National Historic Park (Project # 90693, # 90695):**

#### **Milestones This Period**

- The project was Substantially Complete on October 5, 2013 ahead of the Alaska Travel Industry Association Conference which was held in Sitka.
- A Grand Opening Ceremony took place on Alaska Day and was well attended.

#### **Future Milestones**

- Punch list items will be completed by early November 2013.

### **Background**

On March 12, 2013, the Assembly approved award of a contract to CBC Construction for the Sea Walk – Crescent Harbor Park to National Historic Park project in the amount of \$1,222,662.14 for the base bid and all five additive alternates. The current phase of the Sea Walk extends from the Centennial Hall Parking Lot to the Sitka National Historic Park boundary near Kelly Street. The Sea Walk is funded by way of the following: \$1,000,000 FY 2011 State of Alaska Grant (Sea Walk Extension Part C), \$700,000 FY 2011 State of Alaska Grant (Crescent Park Sidewalk Widening), \$80,000 Paul Sarbanes Transit in the Parks Programs (TRIP) Grant (applied for and administered by

National Park Service), and \$175,000 CPET funds (Sea Walk – Centennial Building to Tennis Courts).

### **Federal Land Access Program (FLAP) Grant:**

#### **Milestones This Period**

- Match Agreement with Western Federal Land has been signed.
- Mental Health Land Trust (MHLT) construction License and Easement documentation has been signed.
- Bureau of Land Management application has been signed and submitted.
- Memorandum of Understanding with Sitka Trail Works and CBS has been signed.
- Reimbursable Agreement with Western Federal Land has been signed and submitted.
- Baranof Island Housing Authority (BIHA) construction License and Easement documentation has been signed.
- The CBS is starting to work with the property owners to secure construction licenses and easements of the properties that will be affected during and after the trail is constructed.

#### **Background**

The City and Borough of Sitka has been awarded a \$916,897 MAP-21 Federal Lands Access Program (FLAP) Grant for Phase 5 Cross Trail multimodal pathway (Cross TMP), Baranof Street and Yaw Drive connectors, by Western Federal Lands (WFL). The Assembly approved submission of the grant in Resolution 2013 - 03 in February 2013.

Phase 4 of the project, a \$926,000 STIP Grant for a multimodal pathway reconstruction and re-routing from Yaw Drive to the CBS property was funded by the Department of Transportation in the 2009 STIP. DOT planners, with the concurrence of Western Federal Lands (WFL) and CBS, initiated action to combine the two projects as a single \$1.8 million grant and have the project managed by Western Federal Lands for greater efficiency and cost savings.

### **Solid Waste Management Plan:**

#### **Milestones This Period**

- A Request for Qualifications (RFQ) for a consultant to develop a Solid Waste Management Plan began advertisement September 16, 2013 with submittals due

October 14, 2013. Three proposals were received and are under review with the Municipal Solid Waste (MSW) team.

## **Background**

The City and Borough of Sitka (CBS) currently does not have a Solid Waste Management Plan to address the current or future needs of the Solid Waste Fund and general operations. As we approach the end of the current collection and off-island disposal contracts in 2015, we believe it is in the best interest of the CBS to be better prepared with a plan that details the goals and direction of our solid waste management backed with data and a financial plan.

At the June 6, 2013 Assembly Meeting, the Assembly approved advertising for a Request of Qualifications and select a consultant to assist Public Works in developing a Solid Waste Management Plan.

The funding for a Solid Waste Management Plan would come from the working capital of the Solid Waste Fund which is approximately \$1.5 million. It is projected that a Solid Waste Management Plan would cost between \$150,000 to \$250,000 depending on the complexity of future goals and the amount of public process exploring options. This cost estimate is based from other master planning we have accomplished for Water, Wastewater, and Harbors.

## **Sawmill Cove Industrial Park Marine Industry Service Center Feasibility Study:**

### **Milestones This Period**

- The City & Borough of Sitka (CBS) signed a Professional Services Agreement with Northern Economics, Inc. on August 7, 2013. Under this agreement, Northern Economics will initiate studies to evaluate the feasibility of a marine industry center at the Sawmill Cove Industrial Park (SCIP). The evaluation will include a marine haul out facility, a moorage facility for large commercial vessels, a deepwater dock and related infrastructure.
- A team from Northern Economics visited Sitka, August 26 – 28, 2013. The team included a representative from PND Engineers (PND is a subcontractor to Northern Economics). Activities included a visit to the Industrial Park, a meeting with the CBS Assembly, and a meeting with the SCIP Board of Directors (this meeting was open to the public, and to public comment). The Consultants also met with local businesspeople involved with various marine service industries, collecting data regarding the perceived needs for moorage, vessel haul outs, etc.
- Based on the information gathered during their visit to Sitka (as well as data from other communities of similar background) the Consultants developed a survey for vessel owners, to be used to ascertain the need for additional large vessel moorage and/or a large vessel haul out, at Sitka. The survey is currently available to the public from several sources. The cut-off date for survey data to be included in the project screening analysis is November 15, 2013; however, the Consultant will continue to collect and record surveys after that date.

## **Background**

The project is funded by a Federal Earmark of \$486,917, of which some \$26,917 will go to the AK-DOT&PF for their costs to administer the funds for the FHWA. The project will be administered by Public Works and the Sawmill Cove Industrial Park Director (Garry White). In that the funding is through the State of Alaska, State procurement procedures will be followed to comply with Federal requirements.

### **Water Service Calls; Leaks/Locates/Routine Repairs & Maintenance:**

- During the month, the Water Division responded to 10 callouts; for various locates, water service leaks – all on the customer side and two main breaks; the QAP blast and the valve on Price Street.
- Water (&WW) operators worked through the night helping DOT's contractor, QAP, repair the 12" and 30" water mains that were damaged on October 9, 2013. Water operators issued the required boil water notice to the 21 residences and businesses affected by the 12" main repair.
- The only water operator still awake responded to the valve leak on Price Street and isolated the piping system on the October 10, 2013. A combination of the PW crew and WW operators made the repair to the valve that night.
- PW Crew worked with the Water operators to repair a leak on the city side at a service caused by the DOT brush cutter.
- Water (& WW) operators completed a final punch list walk through on the Baranof utility project.
- Water operators continued working daily with DOT's HPR Road subcontractor, Coastal Excavation, by performing locates near their storm drain crossing locations as the contractor makes their way towards town. After the storm drain work was completed the contractor began working on several water crossings (CBS had asked to be included in this DOT contract). Also in this work the DOT contractor is to expose several valves of the same generation that have the bolt/nut corrosion problem. Four of these valves have been inspected and had the bolts and nuts changed so far. Corrosion was apparent on some bolts and nuts on all valves. No evidence of water leaking was found but one valve's nuts were nearing the failure state.
- The Water Division is preparing for DEC's annual filtration avoidance inspection. This inspection is scheduled for mid-November. A successful inspection result is critical in maintaining or avoidance of filtration for our Blue Lake drinking water supply.



- The Water Division is prepared for the annual flushing program. Each fall the water transmission main and all major distribution lines are flushed at high velocity to remove any sediment that has settled during the previous year. The flushing is preceded by valve box cleaning and leak listening with a special amplification device. This takes place early in the mornings before traffic makes working in the streets difficult and noisy. Noise levels are recorded and compared with previous year's values for individual main line valves which will guide additional leak investigations in specific areas. Flushing was scheduled to begin the night of October 6<sup>th</sup> and continue until approximately the 16<sup>th</sup> but was postponed when we realized this time period coincided with the ATIA conference. It will likely take place after Thanksgiving.
- No progress was made on the annual (as time allows) fire hydrant 'weed whacking' and painting program – 25 hydrants have been washed and repainted so far in the Indian River, Lillian Drive, and Price Street neighborhoods. With about 450 hydrants to maintain it is our goal to get around 75 repainted each year – a six-year cycle. With this busy construction season it will be difficult for our small three person crew to accomplish this goal.

### **Wastewater (WW) Repairs & Maintenance:**

- Wastewater operators continued working with DOT's HPR sub-contractor locating sewer system infrastructure as they install drainage culverts across HPR. All culvert work was completed by the last week of October and the contractor has started on the water and sewer work that CBS added to DOT's project.
- Operators dealt with plugged pumps at lift station (LS) #5 which receives flows from Mt Edgecumbe HS dormitories and cafeteria and at Granite Creek LS during October. Also the level control transducer at the Lake and Lincoln LS failed over the AK Day weekend. Level control transducers monitor the level of WW in the wet well and from that information the programmable logic controller (PLC) tells the pumps what speed to run and when to turn on and off. The transducer was replaced with a spare from inventory.
- WW operators continue to do research work on the existing old Lake St. LS. Individual pumping and dry weather inflow rates were determined during the first week of September. Wet weather flows are being determined in this typical October weather we are experiencing. This data along with survey information will be used to select pumps for the replacement LS in the future.
- The Programmable Logic Controller (PLC) at Halibut Pt. LS failed during the middle of the month. The LS was operated on the back up float/timer in "emergency mode" while repairs were attempted. After a week of attempts to reprogram the PLC and in consultation with our SCADA consultant it was decided to replace the entire PLC and have the SCADA consultant trouble shoot the faulty one in their shop. A SCADA programmer from Boreal Controls came over from Juneau and worked with our electrician over Alaska Day and that

weekend to change out the PLC, reprogram and install the new one as well many other smaller SCADA modifications throughout our Water and WW system.

- WW Operators have been working through the semiannual wet well cleaning. All but five LS wet wells have been cleaned of accumulated sand and gravel as well as grease which stick to the walls and electrical cables. This is a twice a year preventative maintenance task.
- WW Operators provided a lot of assistance to the Water Crew during the repair of the water breaks last month. These two crews work almost seamlessly together.
- Five WW Operators took certification exams during October. Certification exams are only offered two times per year. This continues the strong push by all our operators to advance in certification level and to expand into other disciplines. The state requires that the city have properly certified operators at the level each system is classified at for: Water Distribution, Water Treatment, WW Collection and WW Treatment. It takes several years of operational experience in a specific discipline combined with education to progress to the higher levels of certification. The city needs multiple operators certified at the proper level to fill in during times when supervising operators are out for vacation for example or to be prepared if one of our higher certified operators were to leave or retire.

#### **Sawmill Cove Industrial Site – Wastewater (WW) Update:**

- Operators switched 100% of the WW flow from the site to the biological treatment system and have flushed the 7000' 6" force main with water. QAP, the Sawmill Creek Road Contractor, cut out a 600' section to allow for construction of a large retaining wall. With the small extended aeration plant loaded higher it requires more operator attention than under normal low load conditions. The plant is doing ok considering the rapid change in organic loading i.e. more food for the bugs to consume.

#### **Summer Water Quality (WQ) Monitoring of Indian River:**

- This summer's special monitoring of Indian River water continues; the second set of samples were sent to the lab for analysis during the first week of September. This WQ data is needed to fine tune the temporary filtration system design that is needed to serve the public during the Blue Lake penstock outage in 2014. The first taste and odor testing panel was held on August 27, 2013. A second test was conducted in-house on September 19<sup>th</sup> when there were considerably more dead fish in the river. The treated IR water during the second tasting had an objectionable taste and odor to nearly every person trying it. This information has been relayed to our treatment consultants who will develop a plan to cost effectively reduce the taste and odor issues and determine what treatment steps should be included in the treatment train when the salmon are in the river in 2014.

## **Blue Lake Water Quality: (Water Division/Electric Department)**

### **Milestones This Period**

- The Water Division is working with the Electric Department to gather background water quality data out in the lake and around the construction activity as required during the project. The first field monitoring was completed and the first set of samples was sent to the lab for analysis.

### **Background**

This background data from out in the lake and at different depths will help us understand water quality changes in the future as the lake fills to greater depths and as the water moves through the lake towards the intake.