



THE STATE
of **ALASKA**
GOVERNOR SEAN PARNELL

**Department of Environmental
Conservation**

DIVISION OF ENVIRONMENTAL HEALTH
Drinking Water Program

610 University Avenue
Fairbanks, Alaska 99709-3643
Main: 907.451.2108
Toll free: 800.770.2137
Fax: 907.451.2188

File Number: 750.07.003

October 09, 2012

Mr. John Trapp, P.E.
Summit Consulting Services, Inc.
4500 Business Park Blvd., Ste. C-10
Anchorage, AK 99503-7173

**Re: Stevens Village 2012 Treated Water Storage Tank and WTP Modifications
Conditional Construction Approval
PWSID: 360442; Class: Community; Source: Groundwater**

Dear Mr. Trapp,

On August 2, 2012 the Department received your submittal requesting construction approval for a new treated water storage tank and for minor modifications to the water treatment plant (WTP) for Stevens Village's public water system (PWS). Your request has been reviewed in accordance with the State of Alaska Drinking Water regulations, 18 AAC 80, and **conditional construction approval is granted**. Enclosed is a Construction and Operation Certificate with the Approval to Construct section signed.

PROJECT DESCRIPTION

The approved project consists of construction of a 12,000 gallon, bolted, steel tank to store treated drinking water for the PWS. The tank will be 15.4 feet in diameter with a 10 feet tall sidewall. The tank overflow height will be at 9.5 feet. The project also proposes minor changes to the water treatment plant including: replacement of four existing pressure tanks, replacement of all water meters, installation of a double-walled heat exchanger for the new storage tank, replacement of interior WTP piping related to re-location of distribution pumps, and construction of 50 feet of 2-inch diameter HDPE water main to re-route the connection between the WTP and the existing utilidor serving the school and teacher housing.

Once the new 12,000 gallon tank is completed, the twelve 300-gallon polyethylene tanks previously approved and constructed in 2011 will be kept as back-up storage in the event the 12,000 gallon tank needs to be taken off-line for maintenance.

CONSTRUCTION APPROVAL CONDITIONS

This approval is subject to the following conditions:

1. New HDPE piping to be installed shall be ANSI/NSF-61 certified;
2. New hydropneumatic tanks shall be ANSI/NSF-61 certified;
3. The 12,000 gallon tank overflow pipe discharge shall have a screen per Ten States Standards recommendations;

4. All new discharges to waste from the drinking water treatment plant shall have appropriate air-gaps per UPC requirements;
5. Sample taps shall be installed at the inlet and outlet to the 12,000 gallon storage tank. Also please verify that a raw water sample tap is available prior to any chemical injection or treatment;
6. The 300-gallon plastic tanks shall be drained and physically disconnected from the water system;

OPERATIONAL APPROVAL REQUIREMENTS

In order to receive final operational approval please submit the following information upon completion of construction. Please allow at least 15 days for Department review:

1. A letter requesting operational approval;
2. Documentation that the construction approval conditions have been met;
3. Documentation that the modified portions of the public water system were disinfected and flushed per AWWA Standard C651 and C652;
4. Results of total coliform bacteria testing, collected per AWWA Standards C651 and C652, showing that the modifications to the PWS are free of bacterial contamination (please note the standards may call for collecting more than one sample to verify proper disinfection);
5. Results of pressure testing of new HDPE water main;
6. Specifications for storage tank interior coating, including record of its certification to ANSI/NSF Standard 61;
7. Documentation that all conditions of construction of the twelve 300-gallon plastic tanks (DEC approval dated November 25, 2011) have been met;
8. As-built or record drawings stamped, signed, and dated by the registered engineer of record responsible for the project. Please submit drawings in a format no larger than 11.5 by 17 inches. The drawings should include:
 - a. Location and configuration of storage tank inlet and outlet pipes;
 - b. Location of vents and overflow pipes;
 - c. Location and type of backflow prevention for the WTP boiler make-up water supply;
 - d. Make and model of new components installed in the WTP.

You may request interim approval to operate by addressing items one (1) to seven (7) above. Interim approvals are valid for 90 days. This will allow time to complete the as-built or record drawings needed for obtaining final approval to operate.

DISCLAIMERS AND ADMINISTRATIVE APPEALS PROCESS

Approval of submitted documentation is not approval of omissions or oversights by this office or noncompliance with any applicable regulation. The Department's approval does not guarantee correctness of functional design nor waive the owner's responsibility for continued compliance with state regulations. Deviations from approved plans which affect capacity, flow, pressure, operation, compliance, materials of major system components (particularly any components which do not meet ANSI/NSF Standard 61), must be approved by DEC prior to their construction or implementation.

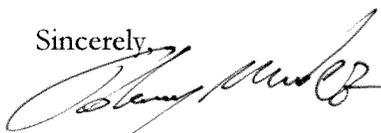
Construction approval is valid for two years from the date of this letter. If during the two-year period the site conditions, plans, and design specifications do not change, the applicant may request an extension after payment of the fee required by 18 AAC 80.1910(b)(12). Otherwise, the approval

will be void and the plans and information required under 18 AAC 80.2 10(a) must be resubmitted for Department review and approval.

Any person who disagrees with this decision may request an adjudicatory hearing in accordance with 18 AAC 15.195 18 AAC 15.340 or an informal review by the Division Director in accordance with 18 AAC 15.185. Informal review requests must be delivered to the acting Division Director, Elaine Busse Floyd, 555 Cordova St., Anchorage, AK 99501, within 15 days of receipt of this decision. Adjudicatory hearing requests must be delivered to the Commissioner of the Department of Environmental Conservation, Larry Hartig, 410 Willoughby Ave., Suite 303, Juneau, AK 99801, within 30 days of this decision. If a hearing is not requested within 30 days, the right to appeal is waived. More information on the Department's administrative appeals process can be found at <http://www.dec.state.ak.us/commish/ReviewGuidance.htm>.

If you have any questions, please call me at 451-5193 or our toll free number 1-800-770-2137. You can also reach me via email at johnny.mendez@alaska.gov.

Sincerely,



Johnny Mendez, P.E.
Engineer I

Enclosures: Construction and Operation Certificate

Cc: Randy Mayo, First Chief—Stevens Village
Henry Smoke, WTP Operator—Stevens Village
Linda Grantham, EPS—DEC DW Program, Fairbanks
Lee Johnson, P.E. — DEC DW Program, Fairbanks
Bill Smyth—DEC WW Discharge Program
Debra Addie, P.E.—DEC Village Safe Water, Anchorage
Bill Justice—Tanana Chiefs Council-OEH



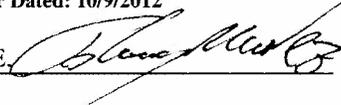
STATE OF ALASKA
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONSTRUCTION AND OPERATION CERTIFICATE
FOR
PUBLIC WATER SYSTEMS



A. APPROVAL TO CONSTRUCT

Plans for the construction or modification of 12K-gal Treated Water Storage Tank & WTP Modifications for Stevens Village (PWSID 360442), a Community (Formerly Class "A") Public Water System, located in Stevens Village, Alaska, submitted in accordance with 18 AAC 80.205 by Summit Consulting Services, Inc. have been reviewed and are

approved as submitted conditionally approved (see approval letter for conditions)
See Approval Letter Dated: 10/9/2012

Johnny Mendez, P.E.  _____ Engineer I _____ 10/9/2012
(Reviewing Engineer) (Title) (Date of Approval)

If applicant fails to construct, alter, install, or modify the system within two years of the date of approval to construct, approval is void, and plans must be resubmitted for Department review and approval.

B. APPROVED CHANGE ORDERS

Change (contract order number or descriptive reference)

(Reviewing Engineer) (Title) (Date of Approval)

C. APPROVAL TO OPERATE

The "**Interim Approval to Operate**" section must be completed and signed by the Department before any water is made available for public use.

Interim Approval to Operate:

The construction of the project listed above is hereby granted **INTERIM APPROVAL TO OPERATE** for 90 days following the interim approval date. It is illegal to operate a public water system beyond 90 days without **Final Approval to Operate** from the Department.

(Reviewing Engineer) (Title) (Date of Approval)

Final Approval to Operate:

Record drawings and other documents submitted to the Department, or an inspection by the Department, has confirmed that the public water system was constructed in substantial conformance with the approved plans. The system is hereby granted **FINAL APPROVAL TO OPERATE**.

(Reviewing Engineer) (Title) (Date of Approval)