



Division of Environmental Health
DRINKING WATER PROGRAM

DRINKING WATER WATCH

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Water System Facilities

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SYSTEM

WATER SYSTEM NO. :	AK2240448	FEDERAL TYPE :	Community
WATER SYSTEM NAME :	KENAI WATER SYSTEM	PRIMARY SOURCE :	GW
PRINCIPAL COUNTY SERVED :	KENAI PENINSULA	ACTIVITY DATE :	03-01-1978
STATUS :	A		

FACILITIES

STATE ASGN ID NO.	FACILITY NAME	TYPE	ACTIVITY STATUS
DS001	DS DISTRIBUTION FOR WELL 1,2,3	DS	A
SF001	ST CENTRAL STORAGE	ST	A
SF002	ST WELL #2	ST	A
TP001	TP FOR ENTITY:WELL 1,2,3	TP	A
TP002	TP FOR WELL #2A	TP	A
WL002	WL WELL #2A	WL	A
WL006	WELL 2D	WL	A
WL007	WELL 2C	WL	A
WL008	WELL 2E	WL	A
PF001	KENAI PUMP FACILITY	PF	I
SS001	SS ENTITY:WELL 1,2,3	SS	I
TP003	TP FOR WELL #1	TP	I
TP004	TP FOR NEW WELL #3	TP	I
I-WL003	WL WELL #1	WL	I
I-WL004	WL NEW WELL #3	WL	I
I-WL005	WELL 2B	WL	I

Total Number of Records Fetched = 16

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Department of Environmental Conservation
Mailing Address: P.O. Box 111800
Juneau, Alaska 99811
Location: 410 Willoughby Avenue, Juneau

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THE STATE
of **ALASKA**
GOVERNOR BILL WALKER

Department of Environmental Conservation

DIVISION OF ENVIRONMENTAL HEALTH
Drinking Water Program

410 Willoughby Avenue, Suite 303
Juneau, Alaska 99801
Main: 907.262.5210
Fax: 907.262.2294
www.dec.alaska.gov

June 24, 2015

Mr. Rick Koch
Kenai City Manager
210 Fidalgo Avenue
Kenai, AK 99611

RE: City of Kenai Community Public Water System (PWS) PWS ID# 240448
Well 2D Additional Source Well
Final Approval to Operate (PR # 9512)

Dear Mr. Koch:

We have reviewed the engineered record drawings and supporting documentation submitted for the additional source well, Well 2D, for the community water system serving the City of Kenai. This information was received in this office on May 29, 2015, and additional information was received June 16, 2015. Based on this review, final approval is granted for the public water system modifications and the "Certificate to Operate" is enclosed. Please use the Public Water System identification number (PWSID#) listed above to identify this system.

Water System Description

The source well was given interim approval to operate on June 1, 2015, with the condition that the use of the water level sensor be justified for use in a potable water system, or plans be submitted for the installation of a NSF – 61 listed sensor. On June 16, 2015, the engineer submitted justification for the water level sensor and endorsed the use of the sensor in a potable water system due to the NSF listed material in contact with potable water (316 stainless steel and BASF Elastollan 1185A10XU cable wrap and seal) and the sensor's history of use in potable water systems and food production. Based on this submittal, the use of the KPSI 320 water level sensor is approved for use in this system.

This approval is valid only for the proposed use and the system described in the engineering plans on file in this office. The addition of Well 2D to the community water system has the potential to provide an additional 195 gpm to the system while wells 2 and 2B run at their maximum production rates (450gpm and 105 gpm respectively). The running annual average for arsenic levels in Wells 2 and 2B are at approximately 5 ppb each, and arsenic levels in Well 2D at 16 ppb. In order to stay below the maximum contaminate level

(MCL) for arsenic, Well 2D will be limited to no more than 70 percent of the total flow from Wells 2 and 2B. A control system automatically ramps down the Well 2D pump if the flowrate is greater than 70 percent of the combined flowrate. Well 2D may not be operated without first blending the water to ensure arsenic levels are below the MCL.

SYSTEM SOURCE ADDITION SUMMARY (WELL 2D)			
CLASSIFICATION	Community	PWSID# 240448	
SOURCE	Onsite Well	Total Depth: 208 ft. Static Water: 38 ft.	Yield: 195 GPM (while other wells are running)
WELL PUMP	Goulds 250L - 25	200 GPM @ 350 FEET TDH	
TRANSMISSION MAIN	Approximately 75 feet of 4 inch SDR11 HDPE		
APPURTENANCES	Flow meter: Badger 4" Recordall T1000	Romac 3/4 inch corp stop	

Approval Limitations

1. Operation of this public water system requires routine monitoring and periodic sanitary surveys. Please contact this office for a detailed schedule.
2. The operator of this system should maintain records of operations and maintenance activities and make these records available to the department upon request.
3. Records of the flow rate of Wells 2, 2B, and 2D that can be used to verify that the required blending ration is met at all times must be maintained and made available to the department upon request.
4. Notify this office of any changes in the operation of this system. Any future modification or expansion of this water system must be approved by this office prior to construction.
5. This approval is contingent upon your receipt of any other state, federal or local authorizations which are required for your project. You are required to obtain all other necessary authorizations before proceeding with your project.

Appeal Process

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. Requests for an adjudicatory hearing or informal review may be made by mail, electronic mail, or facsimile. Informal review requests must be delivered to the 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 questions, contact me at (907) 262-3400 or by email charity.bare@alaska.gov.

Sincerely,



Charity Bare
Engineering Assistant II

Enclosure: Operation Certificate

cc: Bill Nelson, P.E., Nelson Engineering P.C., via email
Sean Wedemeyer, City of Kenai Public Works Director, via email
Matthew Dura, P.E., Nelson Engineering P.C., via email
Jamie Bjorkman, DEC-DW, via email



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 the Kenai Well 2D Additional Source Well, (PWSID # 240448 , Plan Review # 9512), a Community Water System, located in Kenai, Alaska, submitted in accordance with Drinking Water Regulations, 18 AAC 80.200 by Bill Nelson, P.E. / Rick Koch, Kenai City Manager have been reviewed and are

approved as submitted conditionally approved (see attached conditions)

Scott Forgue Regional Engineering Coordinator 4/15/15
 Scott Forgue, P.E. (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)

Change (contract order number or descriptive reference):

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

C. INTERIM APPROVAL TO OPERATE

This section must be completed and signed by the Department before any water is made available for public use.

The construction of the above-referenced water system was completed and approved for operation on / / . The system 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.

Scott Forgue, P.E. (Reviewing Engineer) Regional Engineering Coordinator 6/1/15
 (Title) (Date of Approval)

D. FINAL APPROVAL TO OPERATE

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

Charity Bare EAT 6/24/15
 Scott Forgue, P.E. (Reviewing Engineer) Regional Engineering Coordinator (Date of Approval)
 (Title)