



STATE OF ALASKA
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
INVENTORY AND SOURCE REGISTRATION FORM
FOR
CLASS C PUBLIC WATER SYSTEM

FILE COPY

A. 1. Public Water System Name and Location: Trophy Halibut Fishing IRISH LAD CHARTERS P.O. Box 556
KASLOF, AK 99610
DEEP CREEK ROAD, NINILCHIK, AK
Legal description of property: DEEP CREEK PARK SUBD. NO. 2, TRACT A-1
Number of people served daily: < 25 persons/day
Number of service connections: 1
Public Water System Owner: ROBBIE CARROL / BILL COX
Owner Address: P.O. BOX 545
KASLOF, ALASKA
Owner Phone: (907) 262-9512

- A. 2. Required Check List:
- ☒ \$75.00 registration fee as required by 18 AAC 80.1910.
 - ☒ Results of nitrate and coliform water samples do not exceed the MCL set at 18 AAC 80.300.
(attach reports from certified laboratory)
 - ☒ Source water protection requirements of 18 AAC 80.015 have been met.
(see section B. page 2 for details)
 - ☒ Minimum separation distance requirements of 18 AAC 80.020 have been met.
(see section B. page 2 for details)
 - ☒ Cross-connection provisions of 18 AAC 80.025 have been met.
(see section B. page 2 for details)

- A. 3. Public Water System Source:
(circle yes or no)
- | | | |
|-----|-----------------------|--|
| YES | ☐ | Well depth is less than 30 feet to the first opening for water collection. |
| YES | ☐ | Well is located less than 50 horizontal feet to a surface water source. |
| YES | ☐ | Source uses an infiltration gallery, spring, rain catchment, or surface water. |
| YES | ☐ | Source requires treatment to meet an MCL set at 18 AAC 80.300. |

If answer YES to any of the above Public Water System Source, then complete section C. on page 2.

For Department Use Only

This water system is hereby granted department approval to operate. The following public water system identification number is being assigned to this public water system: 249984

BY

ADEC Staff Signature

TITLE

EEI

DATE

10/15/01

B. 1. Source Water Protection Requirements 18 AAC 80.015:

Applies to wells only

Check box if complete

- ☒ Well casing extends a minimum of one foot above ground level or above level of well house floor.
- ☒ Well casing is grouted with a watertight cement grout, sealing clay, bentonite, or an equivalent material. The well must have at least 10 feet of continuous grouting within the first 20 feet below ground surface or another method approved by the Department.
- ☒ Well is provided with a suitable well cap or sanitary seal.
- ☒ For at least 10 feet in all directions, the ground surface around the well is sloped or contoured to drain water away from the well.
- ☒ Copy of well log is attached.
- ☒ The well is adequately protected against flooding.
- ☒ Before use, a newly constructed or reworked well must be flushed of sediment and disinfected.

B. 2. Minimum Separation Distance Requirements 18 AAC 80.020:

Applies to all water systems

Check box if complete

- ☒ Source is located a minimum of 150 feet from a wastewater treatment works, wastewater disposal system, pit privy, sewer manhole, lift-station, sewer cleanout.
- ☒ Source is located a minimum of 100 feet from a community sewer line, holding tank, other potential source of contamination including sanitary landfills, domestic animal and agricultural waste and industrial discharge lines.
- ☒ Source is located a minimum of 75 feet from a private sewer line, petroleum lines, and drinking water treatment waste.
- ☐ N/A A letter from ADEC granting the necessary waiver(s) needs to be attached if a system does not meet the requirements of 18 AAC 80.020.

B. 3. Cross-Connection Provisions 18 AAC 80.025:

Applies to all water systems

Check box if complete

- ☒ This water system is not connected directly or indirectly, with any unapproved water system, sewer, drain, conduit, pool, storage reservoir, plumbing fixture, glycol loop, or other device that contains, or might contain, wastewater or other substances of unknown or unsafe quality that might be capable of contaminating the water supply through backflow (loss of pressure), without an approved backflow prevention device or assembly.

B. 4. I certify that:

The source water protection requirements of 18 AAC 80.015, the minimum separation requirements of 18 AAC 80.020, and the cross-connection provisions of 18 AAC 80.025 are met.

X

BY

Must be signed by owner or operator.

TITLE

DATE

**ALASKA CONSULTING AND
ENVIRONMENTAL ENGINEERING**

ARNE K. TIKKA, P.E.

P.O. Box 3411 Soldotna, Alaska 99669
(907) 262-3197 FAX 262-9013

December 19, 2000

Project No. 20109

Scott Forgue, P.E.
ADEC
43335 K Beach Road, Suite 11
Soldotna, Alaska 99669

RECEIVED

OCT 09 2001

Subject: Tract A1, Deep Creek Subdivision No. 2
Irish Lord Charters Wastewater and Water Systems
Record Drawings and Information

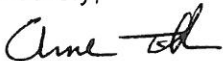
Department of
Environmental Conservation
KSC

Scott:

Attached are record drawings, soils information, documentation of construction form, Class C water system registration form and fee, and attached record information for subject project.

Please review the attached information and call if you have any questions or need additional information.

Sincerely,



Arne Tikka, P.E.

c:\wp7\MyFiles\osrpts\Irishlordchartersdec.rcd

Attachments

Wastewater System Documentation of Construction
Record Drawings
Perc Test Data
Class C Water System Registration Form and Fee
Well Log and Pump Test Data
Water Sample Results
Calculations

cc Robbie Carrol and Bill Cox
Irish Lord Charters
P.O. Box 545
Kasilof, Alaska 99610



STATE OF ALASKA
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
INVENTORY AND SOURCE REGISTRATION FORM
FOR
CLASS C PUBLIC WATER SYSTEM

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ADEC Staff Signature

TITLE

EEI

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- ☒ Well is provided with a suitable well cap or sanitary seal.
- ☒ For at least 10 feet in all directions, the ground surface around the well is sloped or contoured to drain water away from the well.
- ☒ Copy of well log is attached.
- ☒ The well is adequately protected against flooding.
- ☒ Before use, a newly constructed or reworked well must be flushed of sediment and disinfected.

B. 2. **Minimum Separation Distance Requirements 18 AAC 80.020:***Applies to all water systems*

Check box if complete

- ☒ Source is located a minimum of 150 feet from a wastewater treatment works, wastewater disposal system, pit privy, sewer manhole, lift-station, sewer cleanout.
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B. 3. **Cross-Connection Provisions 18 AAC 80.025:***Applies to all water systems*

Check box if complete

- ☒ This water system is not connected directly or indirectly, with any unapproved water system, sewer, drain, conduit, pool, storage reservoir, plumbing fixture, glycol loop, or other device that contains, or might contain, wastewater or other substances of unknown or unsafe quality that might be capable of contaminating the water supply through backflow (loss of pressure), without an approved backflow prevention device or assembly.

B. 4. I certify that:

The source water protection requirements of 18 AAC 80.015, the minimum separation requirements of 18 AAC 80.020, and the cross-connection provisions of 18 AAC 80.025 are met.

X

BY

Must be signed by owner or operator.

TITLE

DATE

C. Public Water System Source

This Section must be completed (if answered YES to any question in section A.3 Public Water System Source)

- ☐ The water treatment is designed to consistently achieve 99.9 percent removal and inactivation of Giardia lamblia cysts and have one NTU or less of treated water turbidity.
- ☐ The water treatment is designed to consistently meet the MCL set 18 AAC 80.300.
- ☐ Design plans and calculations have been completed by a registered engineer for this system and are attached with this registration form.

The following signature blocks need to be completed by the owner or operator, the person who constructed the water system, and the engineer who monitored the system's construction, certifying that:

This water system was constructed in accordance with the provisions of 18 AAC 80 and provides public health protection.

X	<u>William J Cox</u>	signature	<u>William J Cox owner</u>	OWNER OR OPERATOR	<u>1-9-2001</u>	DATE
BY						
X	<u>Betty Krasberger</u>	signature	<u>Krasberger Drilling, Inc</u>	INSTALLER	<u>1/12/01</u>	DATE
BY						
	<u>Anne Tikka</u>	signature	<u>ARNE TIKKA, P.E.</u>	ENGINEER	<u>2/16/01</u>	DATE
BY						

D. Alaska Public Water System Latitude/Longitude Data (Optional)

1) Facility Type. (Check One)

☒ Well ☐ Intake of Surface Water or Spring Source

2) The date the latitude and longitude were researched or collected.

03 , 29 , 2000
m m d d y y y y

3) Latitude in decimal degrees. For Alaska, latitudes are between 51 and 80 North. Give data to available accuracy. Example: +56.234230

+ 60 . 022 _ _ _

4) Longitude in decimal degrees. For Alaska, longitudes are generally -126 to -180 West. The minus sign means "West". Use + for "East". Example: -136.23423

- 151 . 696 _ _ _

5) Method of determining latitude and longitude. (Check one)

GPS ☒ Map (interpolation from a topographical map) ☐ Survey ☐

6) Any comments on latitude/longitude. (Optional)

7) Latitude/longitude accuracy in meters. GPS accuracy is typically encoded in the unit's display. Estimated accuracy is acceptable if the assumed datum is WGS 84. If another datum is used, please specify. Example: 30 (meters)

_ _ _ 30 . Meters

E. Diagram of Public Water System (Optional)

In a plan view, locate and identify each of the following, including distance from well and system in feet.

- a) System source: well, infiltration gallery, spring, rain catchment area, or surface water source and intake structure.
- b) All buildings and structures.
- c) Water and sewer lines to each building.
- d) Wastewater Treatment and Disposal Systems.
- e) Water pumps with type and maximum flow rate listed.
- f) Storage tanks including size, content and type of construction.
- g) Property lines, adjacent roads, and driveways.
- h) Sources of contamination within 150 feet of system source.

a)- d) SEE ATTACHED RECORD DRAWINGS
g), h) BY A.C.E. ENGINEERING DATED
DECEMBER 2000.

e) $1\frac{1}{2}$ hp submersible, 20 gpm

f) FLOWTECH 42 GALLON

Kranberger Drilling Co. Well Drilling Log

Well owner: Con,BillDriller: RRKCompletion: 3/17/00Builder: Bill's Alaska ChartersCity: NinilchickRoad/Area: Deep Creek RdLegal 1: Tract A-1Legal2: Deep Creek ParkDepth: 106Casing length: 100Diameter: 6Rig type: RRStatic level: 92Yield/GPM 20.0Finish of well: .006 Screen 102-1060-2 topsoil & tan clay12-16 sand23-34 sand & gravel35-43 silty sand & gravel81-98 loose silty gravel & sand104-106 sand,gravel & water(1.1to1.5ppm IRON)2-12 gray sandy clay16-23 gray sand,clay & gravel34-35 gray clay43-81 sand & gravel98-104 wet sand & gravel106 gray clay20' Surface Grout

KRAXBERGER DRILLING, INC.
PUMP TEST DATA SHEET

PROJECT: BILL COX DATE OF TI 3/21/00

WELL LOCATION(Legal dscript) TRACT A-1 DEEP CREEK PARK

WELL DEPTH 105 CASING: 108 SCREEN: .006 SC 102-106

DATE WELL COMPLETED: 3/17/00 DRILLER: RRK

STATIC LEVEL(top of casing) 92

Clock Time	Elapsed time since Pumping Started/ Stopped, Min.	Depth To Water Ft-In	Pumping Rate GPM	Recovery Drawdown/	Remarks
12:00	0	91'3"	20		
12:01	1	91'5"	20		
12:05	5	91'5"	20		
12:10	10	91'5"	20		
12:15	15	91'5"	20		
12:20	20	91'5"	20		
12:25	25	91'6"	20		
12:30	30	91'6"	20		
12:35	35	91'6"	20		
12:40	40	91'6"	20		
12:45	45	91'6"	20		
12:50	50	91'6"	20		
12:55	55	91'6"	20		
13:00	60(1hr)	91'6"	20		
13:30	90	91'6"	20		
14:00	120(2hr)	91'8"	20		
14:30	150	94'7"	30		
15:00	180(3hr)	94'9"	30		
15:30	210	94'9"	30		
16:00	240(4hr)	94'9"	30		
RECOVERY					
	0	91'3"			91'3"
0:05	0	91'3"			
0:10	0	91'3"			
0:15	0	91'3"			
0:20	0	91'3"			

ALASKA CONSULTING AND ENVIRONMENTAL ENGINEERING

ARNE K. TIKKA, P.E.

P.O. Box 3411 Soldotna, Alaska 99669

(907) 262-3197 FAX 262-9013

TRACT A1 DEED CREEK PARK SUBD. NO. 2 4-10-00 CARROL/COX

WATER SYSTEM CALCS.

PEAK DEMAND

FIX.	# FIX.	F.U./FIX.	SUBT. F.U.
SINK	2	2	4
WC	1	5	5
SHOWER	1	2	2
			<u>11 F.U. $\Rightarrow$ 8 gpm</u>

HB 4 at 3 gpm $\Rightarrow$ 12 gpm 12 gpm

PEAK DEMAND 20 gpm

TDH CALC.

ELEV. HEAD $95' + \sim 10' = 105 \text{ ft.}$

FRICTION HEAD $1\frac{1}{2}"$ RISER at 20 gpm $\Rightarrow 2.5 \text{ psi/100' (90')} \Rightarrow 2.3 \text{ psi}$
 w/ $1\frac{1}{4}"$ RISER at 20 gpm $\Rightarrow 6.5 \text{ psi/100' (90')} \Rightarrow 5.9 \text{ psi}$
 $1\frac{1}{2}"$ SUPPLY at 20 gpm $\Rightarrow 1.5 \text{ psi/100' (130')} \Rightarrow 2 \text{ psi}$
 $1\frac{1}{4}"$ " " " $3.2 \text{ psi/100' (130')} \Rightarrow 4.2 \text{ psi}$
 $1"$ " " " $13 \text{ psi/100' (130')} \Rightarrow 17 \text{ psi}$

w/ $1\frac{1}{2}"$ RISER + SUPPLY $\Rightarrow 4.3 \text{ psi} = 10 \text{ ft.}$

w/ $1\frac{1}{4}"$ RISER + SUPPLY $\Rightarrow 10.1 \text{ psi} = 23.5 \text{ ft}$

PRESSURE HEAD 30-50 psi SETTING at GAUGE

= 70 - 116 ft.

MID-RANGE 40 psi = 93 ft.

PUMP SIZING

w/ $1\frac{1}{2}"$ RISER + SUPPLY LINE

TDH $\hat{=}$ 208 ft.

PUMP REQNT. - 20 gpm at 208' TDH

GOULDS MODEL 18GS15 ($1\frac{1}{2}$ hp)

GRUNDOS MOD. 25S15-9 ($1\frac{1}{2}$ hp)

OR EQUIVALENT

OPTIONAL TO GO w/ $1\frac{1}{2}"$ RISER AND $1\frac{1}{4}"$ SUPPLY LINE

PRESSURE TANK SIZING

$$V_T = \frac{15}{NE} Q_P = \frac{15}{15(.31)} (20) \approx 65 \text{ gal. Required}$$

E= .31 bladder tank at 30-50 psi gauge

REC. 65 gal. min. Bladder Tank - WELL-X-TROL

OR EQUIVALENT

Northern Test Lab

Analytical, Environmental, Geotechnical, Construction Materials Testing
35186 Spur Highway Soldotna, Alaska (907) 262-4624 262-5777(fax)

PLEASE READ INSTRUCTIONS ON BACK
PRINT ALL INFORMATION

TOTAL COLIFORM BACTERIA DRINKING WATER ANALYSIS

Name IRISH LODGE CHARTERS

Address C/O ARNE TILKA

BOX 3411

SOLDOTNA, AK 99667

Lab Use Only

Lab Number 900-0759

Phone 262-3197

Fax (\$1 charge)

Sample Information: ☐ Residential Water System ☒ Public Water System ID No. New

Legal Description: TRACT A1 DEEP CREEK DALL SID # 2

Sample Location: (bathroom, kitchen, etc) HB

Sampled: Date: 5-3-00 Time: 2005 By: AT

Sample Type: ☒ Routine ☐ Special Purpose

☐ Check Sample (For previous unsatisfactory sample with lab number ())

Disinfection: ☒ Untreated ☐ Treated (chlorine, UV, etc.)

Relinquished: Date: 5-3-00 Time: 1330 By: Arne T

Received: Date: 5-4-2000 Time: 1:30 By: KV Paid: CR# 2206

Condition: ☒ Satisfactory ☐ Rejected Comments:

This report is for the exclusive use of the party to whom it is addressed. Northern Test Lab accepts no responsibility or liability except for the due performance of analysis consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing in the local area under similar conditions, circumstances, and limitations.

↓ To be filled out by Lab ↓

Date Test Started: 5-4-00 Time Test Started: 1530 Analyst: KG

COLILERT TEST RESULTS (SM 9223B)

Color: ☒ Clear ☐ Yellow ☐ Yellow w/ Fluorescence

Date Time Analyst

5-5-00 1530 KG

☒ Negative for Total Coliform - Satisfactory

☐ Resample Required

☐ Positive for Total Coliform - Unsatisfactory

☐ Repeat Samples Required

☐ Confirmed E. Coli.

☐ Questionable-Recommend Resample

Date Analysis Completed: 5-5-00 Reported By: Kathie Galt

Comments:

CT&E Environmental Services Inc.

CT&E Ref.# 1001962001
Client Name Northern Test Lab
Project Name/# Irish Lord Charters
Client Sample ID Irish Lord Charters/MB
Matrix Drinking Water
Ordered By
PWSID 0

Client PO#
Printed Date/Time 05/11/2000 13:54
Collected Date/Time 05/03/2000 20:05
Received Date/Time 05/05/2000 11:00
Technical Director Stephen C. Ede

Released By *Stephen C. Ede*

Sample Remarks:

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
WATERS DEPT								
Nitrate-N	0.926	0.500	mg/L	EPA 300.0	(<10)		05/05/00	SCL



**STATE OF ALASKA
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

DOCUMENTATION OF CONSTRUCTION

18 AAC 72.035(d) allows conventional onsite wastewater treatment and disposal systems that serve a single family home, a duplex or a small commercial facility to be installed without prior plan approval by the Department, if the system is installed by a certified installer or under the direction of a registered engineer. Approved Homeowners may install conventional onsite systems serving their own home or duplex, provided they meet certain requirements. For those systems installed under 72.035(d), this form must be completed and submitted to the Department within 90 days of completing construction. In addition to this form, other information must be submitted

Additional submission requirements for all installations:

1. A copy of the asbuilt survey (if available);
2. A well log (if available);
3. Testhole log and percolation test results if a percolation test is required because of soil type;
4. Sand liner material approval if a sand liner was installed.

Additional submittal requirements for Certified Installers:

1. Minimum of four photographs of the installation in accordance with page 3 of the Installer's Manual.

Additional submittal requirements for Approved Homeowners:

1. Minimum of four photographs of the installation in accordance with Page 3 of the Installer's Manual.
2. Record of a soil classification from a soil testing lab or a letter from a registered engineer who rated the receiving soil.
3. Copy of letter from ADEC confirming that the installer has attended the required Department training.

Additional submittal requirements for systems with construction observation by an engineer.

1. Record drawings in accordance with 18 AAC 72.010(c)(1).
2. The Documentation of Construction Form must be sealed and signed by the observing engineer.

This construction documentation form with the applicable attachments should be submitted to the nearest local office of the Department of Environmental Conservation at the address listed below.

Notification lines shown below are for certified installers use to notify ADEC of a planned installation.

Juneau
410 Willoughby Avenue
Juneau, Alaska 99803
907-465-5350

Ketchikan
540 Water Street
Ketchikan, Alaska 99901
907-225-6200

Fairbanks
610 University Avenue
Fairbanks, Alaska 99709
907-451-2360
Notification Line 907-451-2184

Kenai
35390 K-Beach Road
Soldotna, Alaska 99669
907-262-5210
Notification Line 907-262-5210 Ext 252

Mat-Su Valley
P.O. Box 871064
Wasilla, Alaska 99687
907-376-5038
Notification Line 907-376-5139

Anchorage
555 Cordova
Anchorage, Alaska 99501
907-269-7500
Notification Line 907-269-7517

Chapter 72, Wastewater Treatment and Disposal Regulations, the Installer's Manual and this form may be found on the Department's Home Page at <http://www.state.ak.us/dec/deh/water/ci.htm>

Date Received

STATE OF ALASKA
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DOCUMENTATION OF CONSTRUCTION

I. GENERAL INFORMATION

Legal Description of the Location

DEEP CREEK PARK SUBD. No. 2
TRACT A-1

Submitted by: (Check one)

- ☐ Certified Installer
☐ Approved Homeowner
☒ Registered Engineer

Installer Name:

PAUL SIMONDS

Mailing Address

P.O. BOXNINILCHIK, AK

Onsite Wastewater System Serves:

- ☐ Single Family. Number of Bedrooms _____
☐ Duplex. Number of Bedrooms _____
☒ Small Commercial Facility With Estimated
Design Flow of less than 500 GPD.

II. WATER SUPPLY SYSTEM

(SECTION II IS OPTIONAL)

Source of Water and Containment (Check all that Apply)

- ☒ Well (Drilled or Driven) ☐ Surface (Identify) _____
☐ Roof Catchment ☐ Other (Identify) _____
☐ Holding Tank ☐ Other (Identify) _____

Type of Water Supply System

- ☐ SF/Duplex
☒ Public

Treatment of Water (Check all that Apply)

- ☒ None ☐ Chlorination
☐ Filtration ☐ Mineral Removal
☐ Other: _____

Well Data

Is the height of the well casing more the 12" above the ground?

☒ Yes ☐ No

Is a sanitary seal or well cap installed on the well casing?

☒ Yes ☐ No

Is drainage directed away from or around the casing within a radius of 10 feet of the well casing?

☒ Yes ☐ No

Is well wire enclosed in conduit?

☒ Yes ☐ No

Date Drilled

3-17-00

Depth of Well (Feet)

106 ft.

Static Water Level (Feet)

92 ft.

Yield (If available)

20 gpm

Pump Rate (If available)

Separation Distance from the Well Casing to each of the Following Sources of Contamination:

Septic/Holding Tank on Lot

> 150 Feet

Sewer Lines on Lot

> 75 Feet

Absorption Area on Lot

> 150 Feet

Closest Septic/Holding Tank on Adjacent Lot

> 200 Feet

Closest Sewer Lines on Adjacent Lot

> 200 FeetClosest Edge of an Absorption Area on
Adjacent Lot:> 200 FeetIndicate separation distance from toxic materials including fuel tanks, paints, lubricants and other
petroleum based materials, pesticides, fungicides or herbicides to well casing:On Lot > 100 FeetOn Adjacent Lot > 100 Feet

Water Sample Taken by: (Name)

ARNE TIKKA, P.E.

Sampler is:

- ☐ Buyer ☒ Engineer
☐ Banker ☐ Government Official

Address

BOX 3411 SOLDUTNA, AK 99669

Water Sample Results:

Attach Copy

☒ Satisfactory - Date 5-5-00 ☐ Unsatisfactory - Date

Comments/Recommendations:

I certify that the above information, and that provided in Section IV, is correct:

Signature

Arne Tikka

Typed/Printed Name

ARNE TIKKA

Title

ENGINEER

Date

2-16-01

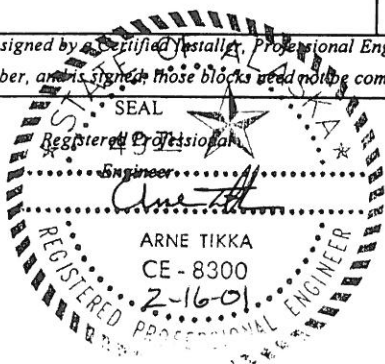
Note: 1. This section should be signed by a Certified Installer, Professional Engineer, DEC staff, or Owner/Builder

2. All public water systems must receive ADEC plan approval prior to construction. See 18 AAC 80 State of Alaska Drinking Water
Regulations for specific requirements.

III. WASTEWATER DISPOSAL	Legal Description: <u>DEEP CREEK PARK SUBD. NO. 2, TRACT A-1</u>
Type of Wastewater System:	
☒ Septic Tank with Conventional Soil Absorption System ☐ Package Treatment Plant (requires engineered design)	
☐ Holding Tank: Material Type: _____ Size in Gallons: _____ Manufacturer: _____	
☐ Other - Specify Type _____ ☐ Alternate Onsite (requires engineered design)	
☒ Small Commercial System (< 500 GPD) With Estimated Daily Wastewater Flow of: <u>< 500</u> Gallons Per Day (GPD)	
Criteria Used to Estimate Daily Wastewater Quantity: <u>FISHING CHARTER WITH OCCASIONAL BATHROOM USE UP TO 24 persons/day</u>	

☒ NEW SYSTEM ☐ REPAIR TO EXISTING SYSTEM		Certified Installer Installation Notification Date: _____
Name of Installer: <u>PAUL SIMONDS / INLET VIEW CONSTRUCTION</u>		Date Installed: <u>3-29-00</u>
System Installed: ☐ By a Registered Engineer ☒ With Inspection by a Registered Engineer		☐ By a Certified Installer/Installer Number _____
☐ By Approved Homeowner (attach copy of approval letter)		
Septic Tank: Material: <u>STEEL</u>	Manufacturer: <u>D+T W TANK</u>	Size (Gallons): <u>1250</u> Number of Compartments: <u>2</u>
Type of Soil Absorption System:		
☒ Deep Trench ☐ Shallow Trench ☐ Seepage Pit ☐ Bed		
☐ Mound ☐ Other, Specify _____		
Soil Classification: <u>SP-SM w/occ. SM</u>	Soil Rating: _____	Dimensions/Size of Absorption Area: <u>60' x 5' EFF. DEPTH</u>
Grading/Size of Distribution Rock: <u>1 1/2" - 3"</u>		Thickness/Depth of Distribution Rock: <u>5.5 ft.</u>
Percolation Test Results, Attach Copy of Report: <u>1.2 gpd/sq.ft.</u> <u>2</u> Minutes per Inch		Percolation Test Performed by: <u>ARNE TIKKA, P.E.</u> percolation test results must be sealed/signed by a registered engineer
List ground cover in feet over: <u>> 4'</u> Septic Tank <u>> 4'</u> Absorption Area <u>4'</u> Sewer Pipes		
Cleanout Pipes/Caps Installed: <u>YES</u> Foundation Cleanout: <u>YES</u> Septic Tank: <u>YES</u> Monitor Tubes: <u>YES</u>		
Indicate separation distances from septic tank or absorption area, whichever is closest, to all nearby:		
Public drinking water sources within 200 feet: _____		Private drinking water sources within 100 feet: <u>N/A</u>
Nearest water bodies (see 18 AAC 72.020(b)): <u>> 200 ft.</u>		Lot line: <u>> 10'</u>
Separation Distance from Onlot Sewer Lines to: _____		Public Drinking Water Sources: <u>> 100'</u> Private Sources: <u>> 200'</u>
Separation Distance From Bottom of Distribution Rock to: _____		Groundwater Table: <u>> 4'</u> Bedrock: <u>> 6'</u>
Separation Distance from Absorption Area to Slope exceeding 25%: <u>> 50'</u>		
Comments/Recommendations		

I certify that the above information, and that provided in Section IV, is correct:			
Signature	Typed/Printed Name	Title, Reg./Cert No., Inst. No.	Date
	<u>ARNE TIKKA</u>	<u>CE 8300</u>	<u>2-16-01</u>
NOTE: Must be signed by a Certified Installer, Professional Engineer, DEC staff, or Approved Homeowner. If engineering seal bears printed name, registration number, and is signed, those blocks need not be completed for engineered submittals.			



IV. DIAGRAM OF SYSTEM(S)
INSTRUCTIONS FOR DIAGRAM

1. In a plan view, locate and identify each of the following:

- | | | | |
|---|-----------------------------|--|---------------------------|
| a) Well | b) All Structures | c) Septic Tank | d) Soil Absorption System |
| e) Surface Water | f) Sources of contamination | g) Property Line | (Include dimensions) |
| h) Closest well on adjacent property | | i) Closest septic tank on an adjacent property | |
| j) Closest edge of an absorption field on adjacent property | | k) All cleanouts and monitor tubes | |

2. Show distances between the well and each of the sources of contamination listed in 1.

3. Show distances between water bodies and each part of the onsite system listed in 1.

4. In a cross section view of the soil absorption area, identify each component and show the depth (thickness) of the following:

- | | | | | | |
|---------------|------------------------|----------------|------------|--------------------|---------------|
| a) Soil Cover | b) Absorption Material | c) Water Table | d) Bedrock | e) Discharge pipes | f) Insulation |
|---------------|------------------------|----------------|------------|--------------------|---------------|

SEE ATTACHED RECORD DRAWING BY
A.C.E. ENGINEERING DATED DEC. 2000.

ALASKA CONSULTING AND ENVIRONMENTAL ENGINEERING

ARNE K. TIKKA, P.E.

P.O. Box 3411 Soldotna, Alaska 99669

(907) 262-3197 FAX 262-9013

TRACT A1 Deep Creek Park #2

3-14-00

R. Carroll

P. Simonds

CASE 5802

TH-1 BY WELL

0-1.4 Surf. Org. + Root Soil

1.4-3.8 Org. Silt, Reddish-Brown

3.8-10.0' SILT w/ TR. SAND + Gravel, St. f. to Hard

10.0-13.5' SILT w/ SM. SAND + TR. GRAVEL, o.u. 1/2,
MOIST, ML

S1 - 6-8'

S2 11-13'

TH-2 PT-1
Perc 8.5-9.0'

TH-2 SAS AREA

0-1.0 Surf. Org. + Root Soil

1.0-3.0 Org. Silt

3.0-5.5/6.0' SILT w/ TR. SAND + Gravel, o.u. 1/2

6.0-16.0' SAND w/ TR. to OCC. SM. SILT
occ. lense of silty sand/sandy silt, 1/4 moist

No H2O Table Enc.

S1 8-10'

S2 10-12'

S3 13-15'

1601 5.0'

1602 5.6"

1603 6.3"

1604 5.0

1605 5.7

1606 6.3

1607 5.0

1608 5.6"

1609 6.3"

1610 6.7"

1611 5.0"

1612 5.6"

1613 6.2"

1614 6.6"

Say 2 $\frac{\text{min}}{\text{inch}}$

1.8
 $\frac{\text{min}}{\text{inch}}$

1.9
 $\frac{\text{min}}{\text{inch}}$

STATE OF ALASKA

DRINKING WATER PLAN REVIEW FEE

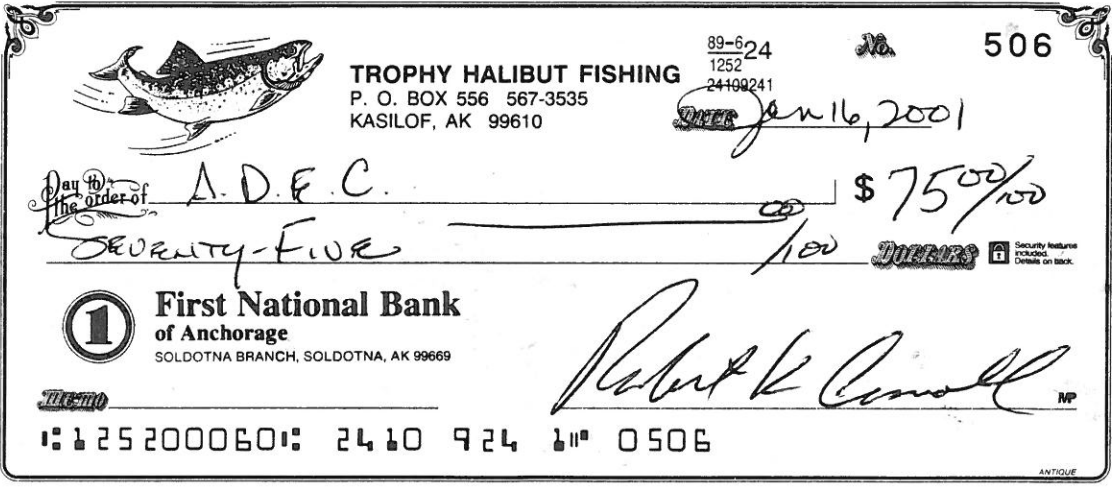
Department of Environmental Conservation

INVOICE #: 123311

PAYMENT IS EXPECTED AT TIME OF SUBMITTAL Make check payable to: State of Alaska 43335 Kalifornsky Beach Rd. Suite 11 Soldotna, Alaska 99669		Plan Review Number: <u>1610</u> DEC Contact/Phone: _____
Applicant name, address and phone number: <u>Trophy Halibut Fishing</u> <u>P.O. Box 556</u> <u>Kasilof, AK 99610</u>		IMPORTANT: 1. Please reference invoice number on your check. 2. Submit original of this form with your payment.

Engineer/Project Contact: Arne Tikka

Facility/Project Name: Deep Creek Park Subdivision Tract A1

Fee Reg Reference	Itemized Fee Amount	Amount Due
89-1010 REVIEW OF REQUEST FOR WAIVER(S)	\$230 \$230/waiver \$175/waiver	
		
(c)(3) Class C public water system registration	\$200	\$ 75
(c)(4) For a surface water source add [Class A and B public water systems]	<u>\$75</u>	
(d) Hourly fee	\$400	
(d)(1) Modification with no more than 20% change to facilities; 20% of fee in (c)(1) or (2)	\$72/hr	
(d)(2) Modification over 20% but no more than 50% change to facilities; fee is percentage change x (times) [(c)(1) or (2)]		
(d)(3) Modification with more than 50% change to facilities; fee is 100% of fee in (c)(1) or (2)	\$100	
(e)(1) Main replacement or extension: < 1000 feet		
(e)(2) Main replacement or extension: 1000' - 5000', \$100 plus \$75 per 1000' over first 1000'		
(e)(3) Main replacement or extension: >5000', \$400 plus \$50 per 2000' or less, maximum \$2,000		

Paid: ☐ Cash

☒ Check # 506

TOTAL AMOUNT DUE: 75⁰⁰

TOTAL AMOUNT PAID: 75⁰⁰

To legally construct, install, modify, or operate any part of a public drinking water system in Alaska, owners/operators are required to pay a plan review fee pursuant to AS44. Please check the information on this form for accuracy. If there are any questions, please contact your local ADEC office.

Nancy Horan
Signature & Title of DEC Contact

10-9-01
Date

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