

Alaska Rim Engineering, Inc.
Engineers - Planners - Surveyors

**ON-SITE
WATER AND WASTEWATER DISPOSAL SYSTEMS
ENGINEER'S EVALUATION**

PROPERTY DESCRIPTION: Fish Lake Property L1
SITE ADDRESS: 28468 S. Talkeetna Spur

This property is developed to serve a single-family / multi-family residence with a total of four (4) bedrooms.

Applicant Name: Suzanne Rust
Applicant Address: P.O. Box 545
Talkeetna, AK 99676

ON-SITE DRINKING WATER SYSTEM:

This property is served by a Public Water System, approved by ADEC and currently in monitoring compliance.
ML2 A recent drinking water sample was tested at an ADEC certified laboratory and was found to meet current ADEC drinking water standards for total coliform bacteria.

NOTES: The top of well is 16" underground.

ON-SITE WASTEWATER DISPOSAL SYSTEM:

- A new wastewater disposal system has been installed. This system was designed and documented by others not associated with Alaska Rim Engineering, Inc. Refer to the enclosed data.
- This wastewater disposal system was installed by an ADEC Certified Installer and approved by ADEC.
- The existing wastewater disposal system was tested in accordance with current ADEC policy and found to be operating satisfactory. The readily identifiable features of this system were observed and documented.
 - It appears this system meets 18 AAC 72 regulations and ADEC policies of the time it was installed, documented and filed at ADEC.
 - It appears this system meets the separation distance requirements of 18 AAC 72 regulations and ADEC Policies at the time it was installed, including the separation distance to seasonal high groundwater and impermeable layers. The design and construction of the system are documented.
- ML2 Documentation for the wastewater system was not found, therefore, only the spatial relationship between the well and said system was determined. This system has satisfied the horizontal distance requirements of this department and is approved for a single family dwelling

NOTES: This septic system is undocumented.

This report does not constitute a guarantee of any kind, explicit or implied, as to the future performance of this water supply or wastewater disposal system. It does accurately portray the conditions found on the date they were tested and/or documented. This approval does not imply the wastewater system is free of material or installation defects and/or possible subsequent failure.

Sincerely,
Alaska Rim Engineering, Inc.

Mary L. Shreves

July 7, 2015
cc: ADEC

AK Rim File No. 15-00487

9131 E. Frontage Rd., Palmer, AK 99645
Phone 745-0222, Fax 746-0222



DOCUMENTATION OF AN ON-SITE WATER SUPPLY SYSTEM AND WASTEWATER DISPOSAL SYSTEM

I. GENERAL INFORMATION		ARE#: 15-00487
Legal Description of the Location & Site address : <div style="text-align: center; padding: 10px;"> Fish Lake Property L1 28468 S. Talkeetna Spur </div>		
Applicant Name: Suzanne Rust		Applicant is: <i>(Check one)</i> <input checked="" type="checkbox"/> Owner/Builder <input type="checkbox"/> Certified Installer <input type="checkbox"/> Engineer <input type="checkbox"/> Bank
Mailing Address: P.O. Box 545		Type of Residence: <input checked="" type="checkbox"/> Single Family <input type="checkbox"/> Multi-Family Total Number of Bedrooms: 4
City, State and Zip Code: Talkeetna, AK 99676		Telephone: 529-2810

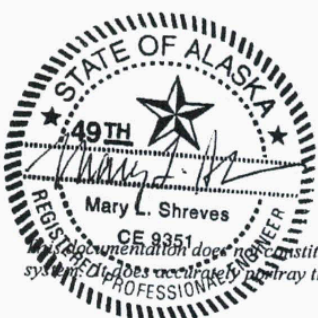
II. WATER SUPPLY SYSTEM					
Source of Water and Containment: <i>(Check all that Apply)</i> <input checked="" type="checkbox"/> Well <i>(Drilled or Driven)</i> <input type="checkbox"/> Surface <i>(Identify)</i> <input type="checkbox"/> Roof Catchment <input type="checkbox"/> Other <i>(Identify)</i> <input type="checkbox"/> Holding Tank		Type of Water Supply System: <input checked="" type="checkbox"/> Private <input type="checkbox"/> Public <i>(Serves more than one family)</i>		Treatment of Water: <i>(Check all that Apply)</i> <input checked="" type="checkbox"/> None Known <input type="checkbox"/> Chlorination <input type="checkbox"/> Filtration <input type="checkbox"/> Mineral Removal <input type="checkbox"/> Other	
(1)		(1)		(1)	
Well Data:					
Is the height of the well casing more than 12" above the ground? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (1)					
Is a sanitary seal or well cap installed on the well casing? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (1)					
Is drainage directed away from or around the casing within a radius of 10 feet from the well casing? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (1)					
Is well wire enclosed in conduit? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (1)					
Date Drilled: unknown	Depth of Well: <i>(Feet)</i> unknown	Static Water Level: <i>(Feet)</i> 29.6 (1)	Yield: <i>(Gal/Min) (If available)</i> unknown	Pump Rate: <i>(Gal/Min) (If available)</i> 9	(1)
Separation Distances from the Well Casing to each of the Following Sources of Contamination:					
Septic / Holding Tank on Lot: > 100 feet (1)		Sewer Lines on Lot: > 25 feet (1)		Absorption Area on Lot: > 100 feet (1)	
Closest Septic / Holding Tank on Adjacent Lot: > 100 feet (1)		Closest Sewer Lines on Adjacent Lot: > 25 feet (1)		Closest Edge of Absorption Area on Adjacent Lot: > 100 feet (1)	
If toxic materials are stored on the property, including fuel tanks, paints, lubricants and other petroleum based materials, pesticides, fungicides or herbicides, indicate distance from contaminants to well casing:		On Lot: none known <25' (1)		On Adjacent Lot: none known <25' (1)	
Water Sample Taken By: <i>(Name)</i> Brandon Jones, Alaska Rim Engineering, Inc.			Sampler is: <input type="checkbox"/> Buyer <input checked="" type="checkbox"/> Engineer Tec. <input type="checkbox"/> Banker <input type="checkbox"/> Government Official		
Address: 9131 E Frontage Rd. Palmer, AK 99645					
Water Sample Results: <i>(Attach Copy)</i> <input checked="" type="checkbox"/> Satisfactory - Date: 7/1/15 <input type="checkbox"/> Unsatisfactory - Date:					
Comments / Recommendations: <u>Data Legend</u> (1) From site visit on 7/2/15 (2) From ADEC records (3) Cover estimated from site conditions					

Based on form 18-0307 (6/96) ADEC -- adapted by Alaska Rim Engineering, Inc., Revised 5/30/00, Page 1 of 2

DOCUMENTATION OF ON-SITE WATER AND WASTEWATER DISPOSAL SYSTEMS

III. WASTEWATER DISPOSAL		Legal Description: Fish Lake Property L1			
<input checked="" type="checkbox"/> Septic Tank / Absorption System:		<input type="checkbox"/> Package Treatment (Specify Brand Name or Process):			
<input type="checkbox"/> Holding Tank (Specify):	Capacity of Tank:	Where Waste is Disposed:		Frequency of Pumping:	
<input checked="" type="checkbox"/> Septic Tank Outfall Discharged To: On-Site Soil Absorption System		<input type="checkbox"/> Other (Specify - Outhouse, Incinerator, etc.):			
<input type="checkbox"/> NEW SYSTEM					
Name of Installer:				Date Installed:	
<input type="checkbox"/> Owner / Builder:	<input type="checkbox"/> Certified Installer No.:	<input type="checkbox"/> Other:	Septic Tank Type / Manufacturer:		
Septic Tank Size: (Gallons)		Number of Compartments:		Soil Type and Rating:	
Type Soil Absorption System:		Dimensions / Size Soil Absorption System: / sq. ft.		Type/Quantity Distribution Rock Used for Soil Absorption System: / cu. yds.	
Percolation Test Results: (Attach Copy of Report)		Percolation Test by: (Name)			
Minimum Ground Cover over Absorption Area:		Minimum Ground Cover over Septic Tank:		Cleanout Pipes / Caps Installed on Septic Tank: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Separation Distance To:		Water Supply Source on Lot:		Nearest Water Supply Source on Adjacent Lot:	
Nearest Body of Water:		Water Table / Bedrock:		Lot Line:	
Comments / Recommendations: This data represents the as-constructed condition of the improvements documented above. Based on periodic visual observations and information obtained from the installer, this data appears reasonable and represents that the project was constructed in general conformance with current 18 AAC 72 regulations and ADEC policies.					

<input checked="" type="checkbox"/> EXISTING SYSTEM					
Name of Installer:				Date Installed:	
unknown				unknown	
<input type="checkbox"/> Owner / Builder:	<input type="checkbox"/> Certified Installer No.:	<input checked="" type="checkbox"/> Other:	Septic Tank Type / Manufacturer:		
unknown		unknown			
Septic Tank Size: (Gallons)		Number of Compartments:		Soil Type and Rating:	
unknown		unknown		unknown	
Type Soil Absorption System:		Dimensions / Size Soil Absorption System: / unknown sq. ft.		Type/Quantity of Distribution Rock Used for Absorption System: unknown / unknown cu. yds.	
Adequacy Test Results: (Attach Copy) <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail (7/2/15)		Adequacy Test Performed By: (Name) Brandon L. Jones, Ak Rim Eng Inc. (1)		Date Septic Tank Pumped: (Attach Copy of Receipt) (n/a) (1)	
Min. Ground Cover over Absorption Area: unknown (3)		Min. Ground Cover over Septic Tank: unknown (3)		Cleanout Pipes/Caps Installed on Absorption System: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (1)	
Separation Distance To:		Water Supply Source on Lot:		Nearest Water Supply Source on Adjacent Lot:	
>100 Feet (1)		>100 Feet (1)		>100 Feet (1)	
Water Table/Bedrock:		Water Table/Bedrock:		Lot Line:	
unknown		unknown		see asbuilt	
Comments / Recommendations: A cleanout is located <input checked="" type="checkbox"/> inside <input type="checkbox"/> outside the foundation. Data Legend (1) From site visit on 7/2/15 (2) From ADEC records (3) Cover estimated from site conditions NOTES: This septic system is undocumented.					
This system was tested in accordance with current ADEC policies and found to be operating satisfactory. The readily identifiable features were observed and documented.					



The information in sections I, II, and III is correct to the best of my knowledge.	
Signature: <i>Mary L. Shreves</i>	Typed / Printed Name: Mary L. Shreves
Date: 7/7/15	Reg. No.: CE 9351

This documentation does not constitute a guarantee of any kind, explicit or implied, as to future performance of this water supply or wastewater disposal system. It does not alter or vary the conditions found on the date they were tested and/or documented.
Based on form 18-0307 (6/96) ADEC -- adapted by Alaska Rim Engineering, Inc., Revised 5/30/00, Page 2 of 2

Field Test Sheet

DATE: 7/2/2015 PROJECT #: 15-00487
 LOCATION: Fish Lake Property L1 INSPECTOR: B. Jones
 MSB Parcel ID: 523258 # of BEDROOMS: 4
 WELL STATIC LEVEL: Single Family Multi-Family Commercial
 CASING ABOVE GROUND: 29.6 ft. PEAK LOAD CALC: 600 gals.
 SANITARY SEAL: Yes No N/A Type of Test: Well Flow Only Septic Adequacy Only Both

Time	Flow Rate (gpm)	Vol.** (gal)	Cum. Vol. (gal)	Well Static Level (ft)	ST (inch)	ST Liquid Level (inch)	S.A.S. (inch)	MT#1 Liquid Level (inch)	S.A.S. (inch)	MT#2 Liquid Level (inch)	S.A.S. (inch)	MT#3 Liquid Level (inch)	S.A.S. (inch)	MT#4 Liquid Level (inch)	Meter Reading	Comments
1:22	0	0	0	29.6	Δ	38	Δ		Δ	X		X		X	83750	Start Test
1:38	8.6	137.9	137.9	46.2		42									83887	137x1.02=139.7
1:52	9.3	129.5	267.4	46.4		47.5									84014	127x1.02=129.5
2:07	9.2	138.7	406.1	46.4		48									84150	136x1.02=138.7
2:22	9.1	136.7	542.8	46.5		48									84284	134x1.02=136.7
2:52	8.8	265.2	808	46.6		48									84554	260x1.02=265.2
3:22	9.2	275.4	1083.4	46.7		48									84824	270x1.02=275.4
3:52	9.2	274.4	1357.8	46.7		48									85093	269x1.02=274.4
4:22	9.2	274.4	1632.2	46.7		48									85362	269x1.02=274.4
4:38	9.7	145.3	1777.5	46.7		48									85505	143x1.02=145.9
4:52	-	-	-	30.1		47									-	Recov. Check
5:07	-	-	-	29.6		47									-	Recov. Check
6:30	-	-	-	-		47									-	End Test
9.0 Gals/Min Flow Rate: ADEEC Compliance:																

Meter Correction Factor = 1.02
 ** Vol. = Difference in Meter Readings x Correction Factor
 Does Septic Tank Require Pumping? Yes No NA
 Is Wire In Conduit? Yes No NA
 If Public Water Supply: Yes No NA
 Is Water Supply in ADEEC compliance? Yes No NA
 PWS ID# _____ Class: _____

Test Results Water: Pass
 Septic: Pass
 Date: 7/7/15 Reviewed By: WLS

*Test results are indicative of conditions at time of testing.



Mat-Su Test Lab, LLC



PWSID # must be filled in or results cannot be submitted to DEC

Mile 3.2 Palmer-Wasilla Highway
Midtown Community Business Park
9161 East Frontage Road, Suite 15
Palmer, Alaska 99645
Phone: 745-3005 / Fax: 745-3010
Website: www.mstl.biz E-Mail: mstl@mstl.biz

Drinking Water Analysis Report Total Coliform Bacteria

See Reverse Side For Instructions

Client: <u>AK Rim 15-487</u>	
Mailing Address:	PWSID# (if applicable):
Phone #:	Fax # or E-mail:

Legal Description of Property: Fish Lake Property LL

Sample Site Location: OHB Deliverer Initials: BLJ
(I.E.: bathroom sink, outside hose bib)

Date Sampled: 6/29/15 Time Sampled: 4:55 pm Sampler Initials: BLJ

Circle One: Standard Test (\$39) / Rush Test (\$49)

Circle One: Routine Test / Repeat Test

This Section to Be Completed by Lab

Analysis Results:

- Satisfactory
- Unsatisfactory
- Sample Rejected – Reason: _____

Chromogenic/Fluorogenic Method Results:

A Total Coliform Present (P)/Absent (A)

A E. Coli Present (P)/Absent (A)

Lab I.D. #: AR15243

| Received : JUN 30 2015 08:40

By: AS

| Started : JUN 30 2015 1538

By: LM

| Finished : JUL 01 2015 1544

By: MM

