

STATE OF ALASKA DEPARTMENT OF NATURAL RESOURCES DIVISION OF MINING, LAND & WATER Alaska Hydrologic Survey

WATER WELL LOG Revised 08/18/2016

Drilling Started:/ Comple		eted: _7 / 6 / 2015 Pump Install://						
City/Borough			Lot Property Owner Name & Address					
Matanuska-Susitna Borough	Merciful E	states		1	Drobenko Investments Llc AK,			
Well location: Latitude 61.6014214 Meridian S Township 018N Range 001E Section				Longitude -149.354263				
BOREHOLE DATA: (from ground surface) Suggest T.M. Hanna's hydrogeologic classification system* https://my.ngwa.org/NC				Drilling met Well use:	hod: Air rotary, Cable tool, Other Public supply, Domestic, Reinjection, Hydrofracking sial, Observation/Monitoring, Test/Exploratory, Cooling,			
		From	:риі <u>То</u>		Agriculture, ☐Grounding, ☐Recharge/Aquifer Storage,			
top soil		0	6	Heating,	Geothermal Exploration, Other			
loose gravel		6	35	Fluids used				
clay gravel		35	68	-	ole: 90 ft Casing stickup: 3ft e: STEEL inches			
water gravel		68	87		neter: inches Casing depth: ft			
					Depth: ft Diameter:inches			
				Note:				
					opening type: Open end, Open hole, Other screened Open hole, Other screened			
					t: 80 ft, Screen stop: 90 ft, Perforated Yes No			
					description: ft, Perf			
				to:	_ft, Perf from: ft, Perf to: ft			
				Gravel packed ☐Yes				
				Note:				
					r (from top of casing): 49			
				_	vel & yield: feet after hours at gpm			
		Method of testing: Development method: Duration:						
					ate: gpm			
					Volume			
Include description or sketch of	well location (inc	clude road	names.	Depth: From	mft, Toft			
Include description or sketch of well location (include road names, buildings, etc.):				Final pump intake depth: ft Model: Pump size: hp Brand name:				
					sinfected upon completion? Yes No			
					disinfection:			
				Was water quality tested? Yes ■ No				
				Water quality parameters tested:				
				Well driller name: Ltd Bean.				
				Company name: .E. AND D. WATER WELLS				
			•	Mailing address: 3530 WEST SPENCE LN				
North				City: WASILLA` State: AK Zip: 99623 Phone number: (907) 373 - 4598				
AS 41.08.020(b)(4) and AAC 11 AAC 93.140(a) require that a					nature:			
copy of the well log be submitted Resources within 45 days of w								
be submitted using the online well log reporting system			,	Anchorage N	/// funicipal Code 15.55.060(I) and North Pole Ordinance 13.32.030(D) require			
available at: https://dnr.alaska.gov/welts/				that a copy o within 30 day	of this well log be submitted to the Development Services Department/City sof well completion.			
OR email electronic well logs to				City Permit Number: Date of Issue://				
dnr.water.reports@alaska.gov					fication Number:			

P.17



Borough Subdivision	T at	Black	C. J. Orma				
MAISU MERCIFUL	Lot	Błock	Section QTRS.	Section	Township	Range	Sewitien Sewitieu
Location / Sketch			Well Owner				
g.			DROBEN	ko.	INU.		1
CLASS A				354-28/9			
Depths Messured From: A Casing To	P Grou	nd Surfac		Gn.		Me Of Co	mpletion
Borohols Date: Material Type & Color	From	epth To	Depth of Hole:_ Depth of Casing	B	Pi. Fi	216	115
Stick up	٥	3	Depth To Star			l George	· unfo
top Soil-mixed	<u>'3</u>	9	Date: 2/6	99 Fi. Below ☐ Top of Casing ☐ Ground Surface Date: 2/6//5			шпасе
Stick up top Soil-nixed Loose andy Granc	7	38	Method Of Drill	lng: 🚨 /	Vir Rotery [Cable To	ol
Chay Gravel	B	21	Usc Of Well: Public Supply	Domestic Other	: Irrigation	Monte	X
WATER GRAVEL	71	50	Casing Stick-Up Casing Type:	3	PL DIL 6	In. to	FL Pt.
			Well Intake Oper	ing Type:	Open i		**************************************
	/	7	Depths Of Openi		100 VANO	90	"FL
			Screen Type: 5	74 27	13: 57732 angun:	10'	In. C
			Gravel Pack Typ Volume Used:	- ADAI	C Depo	h to Top:	
X			Grout Type:	D'	elume:	ed to	404
			Development Me Duration;	thod:	ALC 17	Ufpu	9
			Pumping Level 4	Yield:	Hes. Pump	oing 4	⊘ gριn
			Purtip Intake De Woll Disinfector	pth:		orsepower	
ONTRACTOR INFORMATION		7	REMARKS:		Bankon	te u	me Addi
5 4 0 WATER WE SEISTERED Business Name	دد						
OBO - 7-4	to en	and s	insi~	3" 7	6 geom		
ignature of Authorization Representative	/)	Date	JUBA	/		120 12 ANDRON	
			JUBA	150	0704	015	



Department of Environmental Conservation

DIVISION OF ENVIRONMENTAL HEALTH Drinking Water Program

> 1700 E Bogard Rd. Bldg B. Ste 103 Wasilla, Alaska 99654 Main: 907,376,1805 Fax: 907,376.2382 www.dec.aloska.gov

March 7, 2016

Catherine Whaley Firedance Tutoring Center 2070 N. Merciful Circle Wasilla, AK 99654

RE:

Firedance Tutoring Center

Lot 1, Merciful Estates

Drinking Water System Classification Determination: Non-Transient Non-Community (NTNC)

System Approval Required (PR# 9917)

Dear Ms. Whaley:

Thank you for submitting a completed Public Water System Classification form. According to the information submitted, this drinking water system will serve a tutoring center with up to 15 staff and 135 students. Based on a review of the submitted information, this drinking water system is classified as a Non-Transient Non-Community public water system

Service Connections & Population Served			
Number of service connections	1		
Number of days per year of operation	180		
Residents (primary place of abode)	0		
Non-transient (>6 months per year)	Up to 150		
Transient (<6 months per year)	0		

This drinking water system is required to be approved by the department. To request approval, please contract with a professional engineer licensed in the state of Alaska to provide engineering plans for the system to this office for review and approval. (Checklists detailing the submittal requirements are available upon request or online at: http://dec.alaska.gov/eh/dw/Engineering/Plan rev checklist.htm)

The department requests submittal of engineering plans within 60 days of the receipt of this letter. Contact this office to discuss an extension of time if necessary.

Please note, in addition to the plan review and routine water quality monitoring, the Drinking Water Regulations,

P.3

Ms. Catherine Whaley

2

1

March 7, 2016

18 AAC 80.007, require that this system be actively supervised as described in the Operator Certification Regulations, 18 AAC 74, by operators who are certified in accordance with AS 46.30 and 18 AAC 74. For more information on operator certification requirements contact Ken Smith, Environmental Program Specialist (907-465-5136 or Ken.Smith@alaska.gov.)

The basis for this determination is information submitted by the owner of the system. If the summary above is inaccurate, please contact this office. You are required to contact the department to update this information when it changes. Changes to the water source, treatment (if provided), number of service connections, population served, or number of days of operation may result in a change to the system classification and the associated plan review and monitoring requirements. Contact this office for more information regarding classification determinations.

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 at 555 Cordova St., Anchorage, Alaska 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 Avenue, Suite 303, Juneau, Alaska 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 the following website: http://www.dec.state.ak.us/commish/ReviewGuidance.htm.

If you have any questions or concerns, please don't hesitate to contact me at 376-1805, or via email at garv.cllis@alaska.pov

Sincerely,

Gary Ellis

Environmental Engineering Associate

Drinking Water Program, Wasilla Office

Scott Forgue and Amy Hill, DEC, Drinking Water Program - via email cc: Breanna Bullock, DEC, Food Safety & Sanitation - via email Ozan Woolley, DEC, Engineering Support & Plan Review - via email Ken Smith, DEC, Facilities Group - via email Mike Erdman, P.E. (Erdman & Associates) - via email

ERDMAN & ASSOCIATES

Consulting Engineers / Water Testing Laboratory

5200 Dunbar Drive Wasiila, AK 99654

Phone 907-376-6989 907-373-2157 Fax

August 4, 2015

Alaska Department of Environmental Conservation Attn: Mr. Oran Woolley 1701 N Bogard Road Wasilla, AK 99654

Re: Firedance Tutoring Center; L1 Merciful Estates; Proposed Onsite Wastewater Disposal System; E&A Project #08092; REQUEST FOR APPROVAL TO CONSTRUCT

1

Mr. Woolley,

Attached for your review and approval are design drawings, ADEC plan review checklists and owner's statement, as well as a check for the ADEC plan review fee of \$360.

Project Description

The proposed project is a conventional onsite septic tank/drainfield. The facility served is a tutoring center, which will have a maximum of 10 staff members, and will serve a maximum of 120 students. Students do not attend full time, but rather have scheduled appointments for tutoring sessions.

Our design criteria and calculations are as follows:

Design Wastewater Flows:

Staff	15 gpd *	10 ==	150
Students	10 gpd *	120 =	1,200
Total (Q)		*********	1.250 GPD

Septic Tank Sizing:

```
V = 0.75Q + 1,125 = 0.75(1,250) + 1,125 = 2,063 gallons
Design - 2,500 gallon 2-comp tank
```

Soil Absorption System Sizing:

Subsurface soils are clean gravel with sand, visually classified as GP-GW Assumed percolation rate faster than 1 minute/inch Design calls for ADEC-Approved filter sand - Design Application Rate 0.8 gpd/sq ft

Minimum SAS Size = 1.250 gpd/(0.8 gpd/sq ft) = 1,563 sq ft Design SAS Size - 30' x 55' = 1,650 sq ft

Mr. Oran Woolley, ADEC Re: Firedance Tutoring Center

4 August 2015 Page Two

Summary

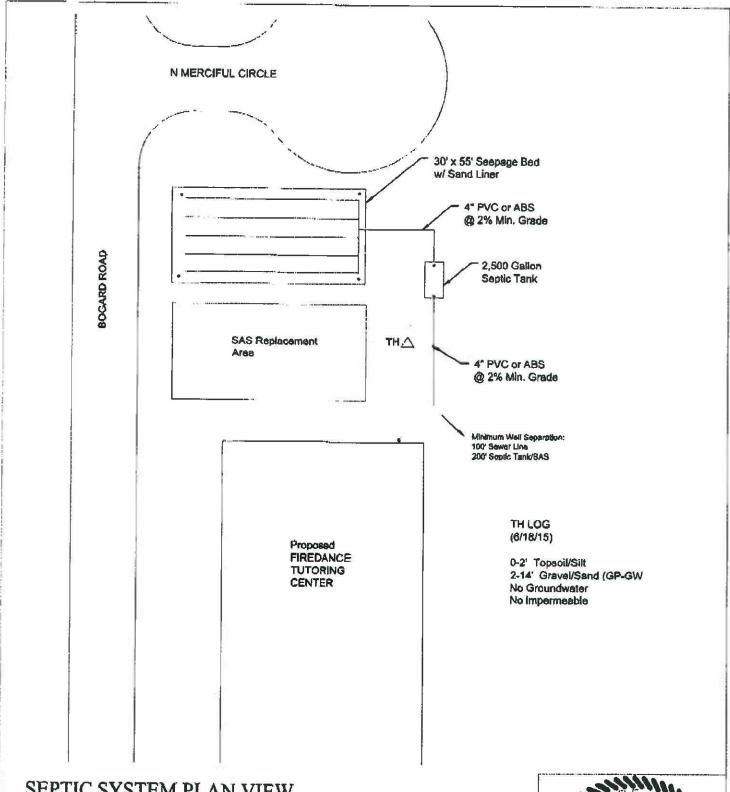
At this time we are requesting issuance of "Approval to Construct". Thank you for your assistance, and please call or email if you have any questions or need addittional information.

1

Sincerely,

Michael R. Erdman, P.E.

cc: Alex Drobenko Catherine Whaley



1

SEPTIC SYSTEM PLAN VIEW

NTS

	SEPTIC D	ESIGN DRAWING
į	Firedance	Tutoring Center
	Wasilla, A	laska

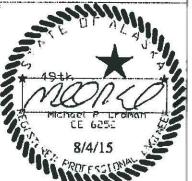
ERDMAN & ASSOCIATES 5200 Dunbar Drive Wasilla, AK 99654

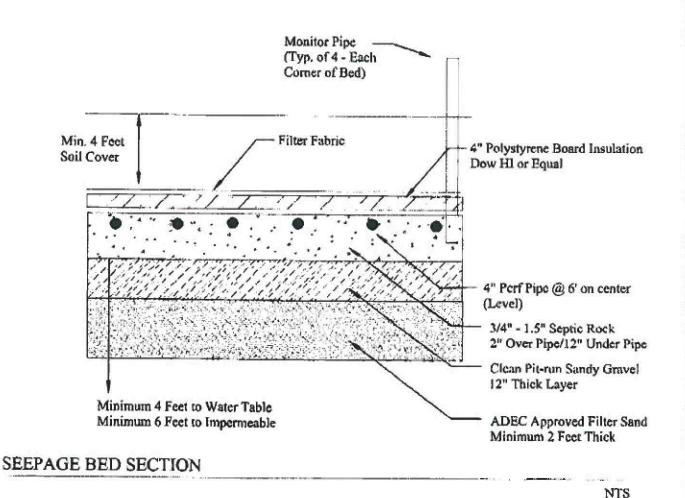
Sheet 1 of 2

Scale As Noted

Project #15110

4 August 2015





NOTES:

- 1. Construction shall be in conformance with ADEC regulations and construction standards (Certified Installer Manual).
- 2. Contractor shall coordinate with Engineer to allow for inspection of all work prior to burial.
- 3. Contractor shall be responsible for construction site safety.

SEPTIC DESIGNATION SEPTIC DESIGNATION OF THE		ERDMAN & ASSOCIATES 5200 Dunbar Drive Wasilla, AK 99654			
Sheet 2 of 2	Scale As Noted	Project #15110	4 August 2015		





Degeth of a larmond split on a different Details service name faither found in A service rate of a large A service rate. A service rate of a large form of the angle of the large factor of the angle of



ALASKA PUBLIC WATER SYSTEM LOCATIONAL DATA COLLECTION FORM

Public Water System Name: Firedance Tutoring Center	PWS ID#:				
Name of Person Determining Lat/Long: Michael R. Erdman, PE	Phone: (907) 232-3140				
Name of Person Completing Form: Michael R. Erdman	Phone (907) 232-3140				
Local Facility Name:	Date Collected:				
Well	Date Completed:				
1) Facility Type. (Check one) Sources: Wollhoad Surface Water Intake Treatment Plant					
2) The date the latitude and longitude were researched or collected. 0 3 / 2 4 / 2 0	Example: 06/30/2007				
3) Latitude in decimal degrees, Must be recorded in WGS 84. For Al 80 North. Give data to available accuracy. Example: +56.234230	aska, latitudes are between 51 and				
+61.6014	2 1				
4) Longitude in decimal degrees. Must be recorded in WGS 84. For 126 to -180 West. The minus sign means "West." Use + for "East." Exa	Alaska, longitudes are generally - ample: -136.23423				
-149.35427					
5) Are the latitude/longitude coordinates taken at the Wellhend/Intake? Yes No If No, describe the proximity to the wellhead/intake (for example, 30 feet NW of the wellhead or intake)					
6) Type of CPS Unit used to determine latitude and longitude. (Describe unit and model number) Samsung Galaxy S5					
7.) Lat/long accuracy in meters. GPS accuracy is typically encoded in the unit's display. The datum used must be in WGS 84. Example: 30. (meters) 3 0. Meters					
8.) Site map or aerial image identifying the location of the facility must be provided to assist DEC Staff verify the lat/long location in the State geospatial database. (As-build, Google Maps, Google Earth, MSN Live Earth, Yahoo Maps are all acceptable.)					
Yes a map with approximate location has been provided.					