

T.SPURKLAND P.E.

203 WEST 15TH. AVENUE SUITE 203
ANCHORAGE, ALASKA 99501
(907) 279-3916
Fax (907)-276-6013

Federal I.D. 92-0082854

INVOICE

June 9, 2004

Norman Parrott
2420 Copperwood Drive
Anchorage, AK 99516

FOR PROFESSIONAL SERVICES RENDERED
LOT 10 BLOCK 3 DENALI VIEW

Test Hole and Soil Identification, Perc Test	\$ 1,000.00
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THANK YOU

Terms:

Net 30 days. 1% service charge on all past due accounts. (12% annually)

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June 28, 2004

Norman Parrott
2420 Copperwood drive
Anchorage, AK. 99516

Subject: Soil Investigation on Lot 10, Block 3 Denali View S/D

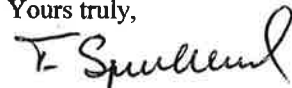
Dear Mr. Parrott;

We finally were able to perform a percolation test on your lot. The attached "Soil Log" describe both the soil conditions at the test hole location site and the percolation test performed at immediately below the organic layer. There was no groundwater observed on June 15th, but we know that groundwater is an issue during breakup. It may be beneficial to check for groundwater again in October, when the Muni consider groundwater levels to be "seasonal high".

I do not see any possibility to install a standard septic system on this lot. An "Advanced System", Advantex or BioCycle, will be required. I have mentioned before that I am partial to BioCycle, but both systems are equally satisfactory and both will give you the service you need. The drain field for a 4 bedroom house will be 200 square feet for both systems.

I am ready to design the wastewater disposal system as soon as you provide me with a site plan showing the footprint of your proposed residence.

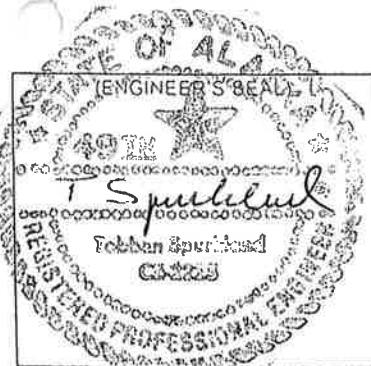
Yours truly,



Tobben Spurkland P. E.



Municipality of Anchorage
Development Services Department
Building Safety Division
On-Site Water and Wastewater Program
4700 South Bragaw St.
P.O. Box 196650 Anchorage, AK 99519-6650
www.ci.anchorage.ak.us
(907) 343-7904



Soils Log - Percolation Test

Performed For: Norman Parrot Date Performed: 5/17/04
Legal Description: LOT 10, BK 3 DENALI VILLAGE Township, Range, Section: _____

Depth (Feet)	Slope	Site Plan
0		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

Soils Log Data:
0 - SNOW
1 - ORGANIC
2 - SANDY
3 - SILT
4 - ML
5 -
6 -
7 -
8 -
9 -
10 -
11 -
12 -
13 -
14 -
15 -
16 -
17 -
18 -
19 -
20 -

WAS GROUND WATER ENCOUNTERED? SNOW MELT
IF YES, AT WHAT DEPTH? dry
Depth to Water After Monitoring? dry
Date: 6/9/04

BOTTOM OF HOLE

Reading	Date	Gross Time	Net Time	Depth to Water	Net Drop
FILL	PRE SOAK				
11 5/8	6-15-04	11:02	-	-	
11 1/2	6-15-04	11:32	30 MIN	8 7/8	2 3/4
11 13/16		12:02	30	9°	2 1/2
		12:32	30	9 1/4	2 9/16

PERCOLATION RATE 12 (minutes/inch) PERC HOLE DIAMETER 6
TEST RUN BETWEEN 2 FT AND 3 FT

COMMENTS _____

PERFORMED BY: A.S. 1 T.S. CERTIFY THAT THIS TEST WAS
PERFORMED IN ACCORDANCE WITH ALL STATE AND MUNICIPAL GUIDELINES IN EFFECT ON THIS DATE. DATE: 6-28-04