

KEN M.

SYNGEN CONSULTING SERVICES

Ms. Janice Clarke
PO Box 750501
Fairbanks, Alaska 99775

August 19, 2005

SUBJECT: Wastewater Disposal Suitability Opinion for a Portion Lot 25, Sunrise Subdivision (495 Sun Way), Fairbanks Recording District, Alaska.

Dear Ms. Clarke,

Pursuant to your request, we have conducted a subsurface soil investigation at the subject property. The purpose of this investigation is to provide you with an opinion on the suitability of the subsurface soil for individual on-site domestic wastewater disposal.

The property is located on a boundary that is generally designated by the USDA Soil Conservation Service as Fairbanks Silt Loam or Minto Silt Loam. The soils encountered in the test boring indicate that either designation is hydraulically representative.

Our experience indicates that the soils encountered during our investigation are suitable for the use of either a shallow bed system or a network of shallow "low profile" trenches. Deep trenching techniques may expose flowing silt and or free groundwater toward the bottom which may hamper construction, limit design life, and compromise vertical separation limits. We recommend that a system constructed in the vicinity of our test boring be sized on the basis of a minimum of 275 square feet per bedroom. We recommend that we be retained to observe the finished excavation in order to verify the consistency of the soil across the proposed drain field.

Sincerely,

SYNGEN Consulting Services


Thomas J. Berglin, BSCE, EIT
Owner



Robert H. Tilly, PE
Consulting Civil Engineer



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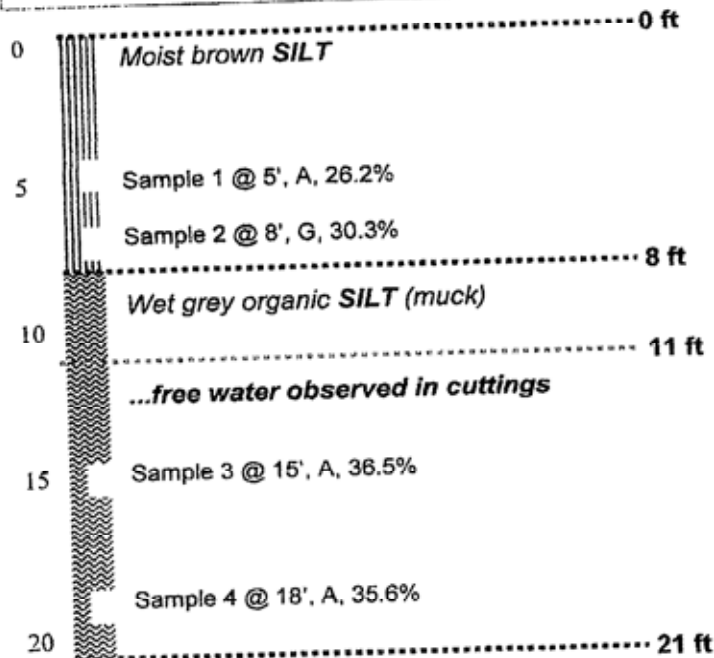
LOG OF SOIL BORING B-1

Lot 25,
 Sunrise Subdivision
 (495 Sun Way)
 Fairbanks Recording District, AK.
 Hole completed August 15, 2005
 FOR: Ms. Janice Clarke

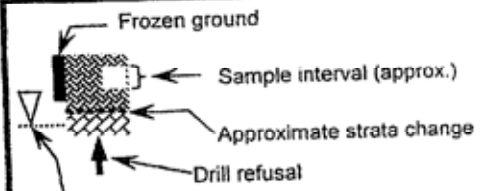
Terrain and Vegetation: Gentle southerly slope wooded with scrubby Spruce and occasional Birch. Thick moss ground cover.

Borehole Location: see location sketch

Equipment: Mobile Minuteman™ with 3-inch OD solid stem augers and two-pronged finger bit.



EXPLANATION



Water table during drilling

FROZEN SOIL CLASSIFICATION

- | | | | |
|---|---------------------------|---|------------------------------------|
| N | No visibly segregated ice | V | Visible segregated ice (<1" thick) |
| b | Well bonded | r | Randomly oriented ice |
| f | Poorly bonded | s | Stratified ice seams |
| e | Excess pore ice | c | Ice coating on particles |

Sample 2 @ 11', G, 5.0%

Water content (% by weight)

Sample number and depth (approximate)

Sample Type

KEY TO SOIL SYMBOLS

- ||||| SILT (inorganic)
- ~~~~~ SILT (organic)

SAMPLE TYPES

- G "grab" (returned to surface with drill rotation)
- A "auger" (returned to surface w/o rotation)
- C Dry run diamond core barrel

The data presented on this log is representative of the borehole only.
 This log is subject to the limitations, conclusions, and recommendations of experienced professionals.

TEST HOLE (B-1)

LOCATIONS OF ELEMENTS SHOWN ARE APPROXIMATE

LEACH-TANK CLEAN OUT

SEPTIC CLEAN-OUTS



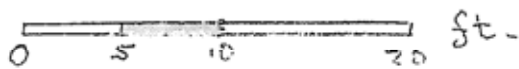
LINE CLEAN-OUT



TO SUNWAY



SCALE:



JANICE CLARKE
WASTEWATER SYSTEM
SOIL TEST 8/15/05

495 SUN WAY

REPAIR WWS

B-20-05

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS

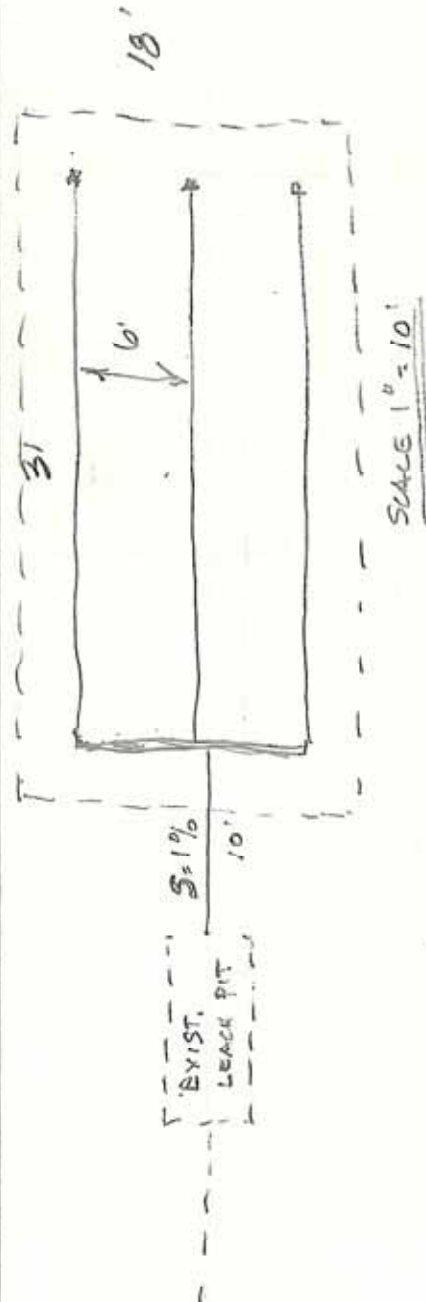
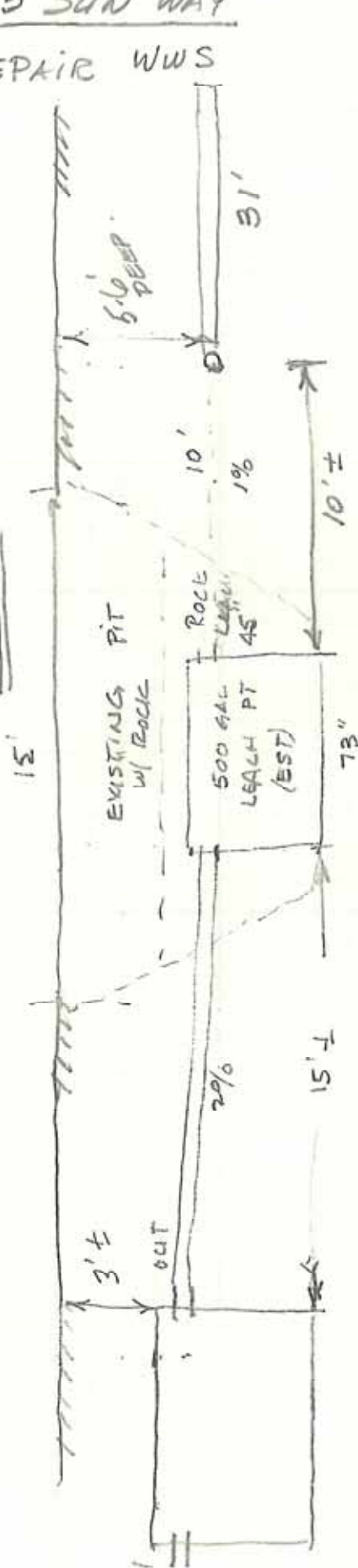


* PROPOSED WWS LAYOUT

2 BEDROOM (SM) CHANG 275 X 2 = 550 S.F.

CLEAR TREES

SCALE 1" = 5'



ACTUAL 31' x 18' = 558 S.F.

CLEAR 51' x 98' MIN (10' PAST PERIMETER OF WWS)

ALL DIMENSIONS ESTIMATED, KEEP 10' OFF P.L.'S.

OK PROPERTY LINES & ENCROACHMENTS

