DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet ___ of ___
PROPERTY ID #: _____
COUNTY: _____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Para Mount Homes
ADDRESS: _____ APPLICATION DATE _____
PROPOSED FACILITY: 3bedroom PROPOSED DESIGN FLOW (.1949): 360 gpd DATE EVALUATED: _____
LOCATION OF SITE: Paramount Woods Lot 2 PROPERTY SIZE: _____
WATER SUPPLY: • ✓Private • Public • ✓Well • Spring • Other _____ PROPERTY RECORDED: _____
EVALUATION METHOD: • ✓Auger Boring • ✓Pit • Cut TYPE OF WASTEWATER: • ✓Sewage • Industrial Process • Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
Pit 1	3-5%	0-3	Brsclws	6k Frsssp		48"	Few Inc Sap	—	PS 0.3
		3-25	Rc sbk	Frssp					
		25-40	Rclwsbk	Frsssp					
		40-48	Rsclwsbk	Frss sp					
Pit 2	3-5%	0-4	Brscl surface compacted		10"	50"	Few Inc Sap	—	PS 0.3
		4-32	Rc sbk	Frsssp	—				
		32-50	Rclwsbk	Frsssp					
Pit 3	3-5%	0-6	Brsclwsbk	Frsssp	—	48"	Few Inc Sap	—	PS 0.25 0.3
		6-32	Rc sbk/abk	Frssp					
		32-48	Rclwsbk	Frssp					
Pit 4	3-5%	0-6	Brsclwsbk	Frsssp	—	48"	Few Inc Sap	—	PS 0.3
		6-29	Rc sbk	Frsssp					
		29-48	Rclwsbk	Frsssp					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	900 Ft²	900 Ft²
System Type(s)	25% Red.	25% Red
Site LTAR	0.3	0.3

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: GM
OTHER(S) PRESENT: _____

COMMENTS: _____

SOIL/SITE EVALUATION

(Continuation Sheet)

Sheet ____ of ____

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: _____
DATE OF EVALUATION: _____
COUNTY: _____

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
AB 5	3-5%	0-5	Bl scl wsbk	Frsssp	—	46"	F-CInc Sap / PS	—	PS 0.3
		5-29	Rc sbk	Frsssp					
		29-35	Rcl wsbk	Frsssp					
		35-46	Rscl wsbk	Frsssp					
		46-48	sl sap m	Frsssp					
AB 6	3-5%	0-8	compacted		—	46"	F-CInc Sap / PS	—	PS 0.3
		8-33	Rc sbk	Frsssp					
		33-46	Rscl wsbk	Frsssp					
		46-48	sl sap m	Frsssp					

COMMENTS: _____



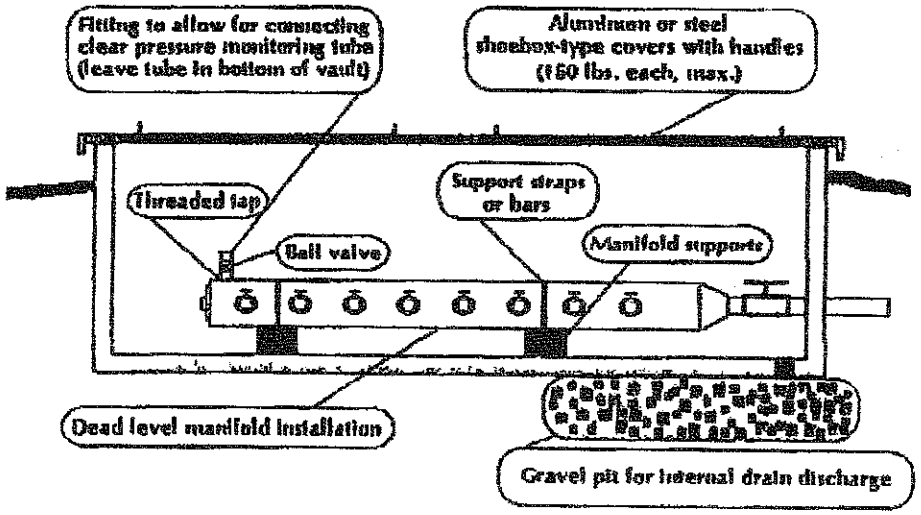
MICHAEL ATHANAS & ASSOCIATES, INC.
LICENSED SOIL SCIENTIST
1999 CANDLEWICK DRIVE
FORT MILL, SC 29715
803-802-4403 (office)
803-802-4402 (fax)

Reference: Data Sheet for Paramount Woods Lot 2
House Footprint: see plat
Building Setback: 35' front/back, 15' side
Water Source: Well
Number of Bedrooms: 3/360gpd
Proposed LTAR: 0.3 gpd/ft2
Suggested system type: 25% Reduction
Distribution: Pressure Manifold
Pressure Head: 2'
Flow per tap: 5.48 gpm
Hole size & Material: 1/2" sch 80
System Flow: 21.9 gpm
Dosing volume: 120.6 gallons
Pump Run Time: 5.5 min
Elevation Head: 7.4'
Friction Head: 1.4'
TDH: 13.0'
Septic/ Pump tank size: 1000 gallons
Proposed Maximum Trench Bottom: 34"

Line	Length	Elevation
Pink 1	*50'*	*5.6'*
Orange 2	**75'**	**5.4'**
White 3	**75'**	**5.0'**
Pink 4	**75'**	**4.4'**
Orange 5	*70'*	*3.7'*
White 6	*60'*	*4.3'*
Orange 7	**75'**	**4.8'**
White 8	*87'*	*5.6'*
Pink 9	*68'*	*6.4'*
Orange 10	*44'*	*7.1'*

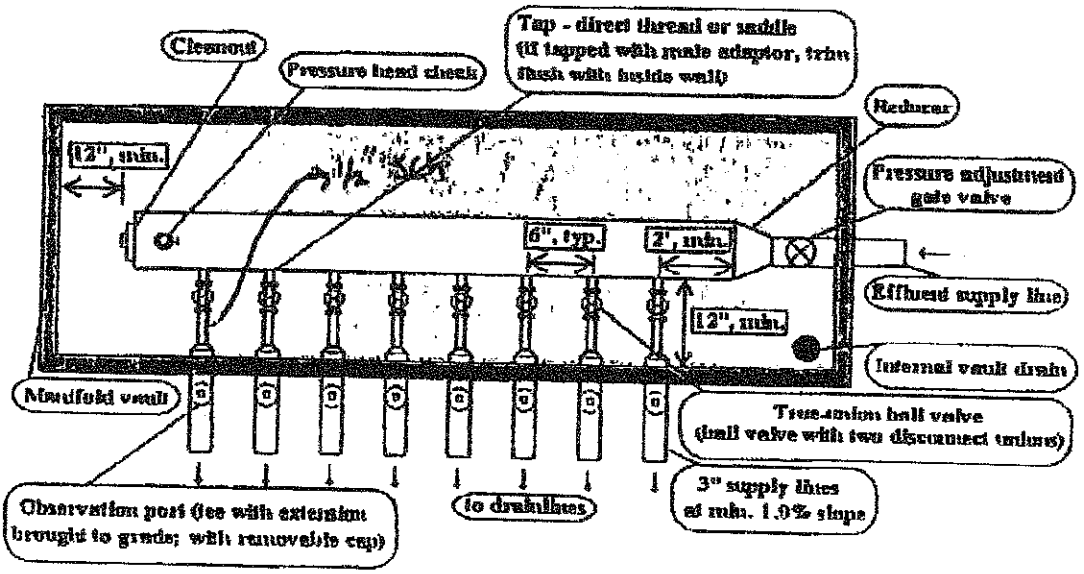
Initial system: 300'
Repair system: *379'*
Tanks Elevation: 6.8'
House Elevation: 6.8'
Benchmark: 8.5'

Comments: Back-fill for positive drainage. Do not cut.



Profile View of Pressure Manifold for Sloping Site Installation

(not to scale)



TYPICAL PUMP TANK DETAIL

1. Pump tank shall have an access manhole extending at least 6 inches above finished grade.
2. Pump and control circuits shall be provided with manual circuit disconnects within a watertight, corrosion-resistant, outside enclosure (NEMA 4X or equivalent) adjacent to the pump tank, securely mounted at least 12 inches above finished grade. The pump(s) shall be manually operable without requiring the use of special tools or entrance into the tank for testing purposes. Conductors shall be conveyed to the disconnect enclosure through waterproof, gasproof, and corrosion-resistant conduits, with no splices or junction boxes provided inside the tank. Wire grips, duct seal, or other suitable material shall be used to seal around wire and wire conduit openings inside the pump tank and disconnect enclosure.
3. The pump tank shall have a properly functioning high-water alarm. The alarm circuit shall be supplied ahead of any pump overload and short circuit protective devices. The alarm shall be audible and visible by system users and included in the pump and control enclosure (Simplex or Duplex Control Panel).
4. Float switch for the high water alarm shall be set no more than 3 inches above the high water level of pump cycle.
5. Pump floats should be set so that level of water at end of pump cycle is above the top of the pump.
6. Float switch tie downs to be made of corrosion resistant material, no tape or metal hose clamps.
7. Pump discharge shall have a check valve.
8. Anti-siphon hole (three-sixteenth inch) is required between the pump and the check valve.
9. Watertight testing will be required on two piece pump tanks.

