Gravity 25% Reduction
FOR WASTEWATER TREATMENT

Owner:	IREDELL GROUP Attention: ZACH STAMEY
Address:	109-C Williamson Road Mooresville, NC 28115
Phone:	704-663-4050
County:	Iredell
Location:	Walden Ridge Subdivision Lot #46
Source of Wastewater Flow:	4 Bedroom Single Family Residence
Estimated Daily Wastewater Production:	480 gpd
System Flow:	NA

Design Specifications

Drainfield Size:	400
Loading Rate:	.3GPD/FTSQ
Depth of Gravel in Trench:	NA (25% reduction)
Gravel Size:	NA (25% reduction)
Trench Depth:	36 in.
Trench Width:	36 in.
Septic Tank Size:	1000
Pump Tank Size:	1000
Estimated Supply Line Length:	38
Supply Line Diameter:	3 in. SCH 40 PVC
Supply Line Volume:	6.61
Dosing Volume:	NA
Supply Manifold:	D-BOX
Supply Manifold Length:	NA
Supply Manifold Volume:	N/A
Recommended Float Controls:	NA
Recommended Control Panel:	NA
Pressure Head:	NA
Friction Head:	NA
Elevation Head:	NA
Total Dynamic Head:	NA
Threaded Union:	NA
Gate Valves:	NA NA
Check Valves:	NA
Anti-Siphon Hole:	NA
Additional Comments:	Soil suitability was performed by Rollans Soil & Environmental Services.

WALDEN RIDGE SUBDIVISION LOT 46

DESIGN FLOW:	480	
SOIL APPLICATION RATE:	.3 GPD/FTSQ	
TOTAL AREA TRENCH BOTTOM:	1200	
TOTAL LATERAL LENGTH:	400	
NUMBER OF FIELDS:	1	
LATERAL LENGTH REQUIRED PER FIELD:	480	
SUPPLY LINE LENGTH:	38	
TOTAL DYNAMIC HEAD:	NA	
MANIFOLD SIZE:	NA	
DOSING VOLUME:	NA	
PUMP TANK DRAW DOWN*:	NA	
SEPTIC TANK SIZE:		1000
PUMP TANK SIZE:		1000

WALDEN RIDGE LOT #46

Project #: 01-1069

LAYOUT FOR 4 BEDROOM HOME — December 9, 2005

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM		4.7			100.00		
TANK		5.40	99.30				
HOUSE		3.40	101.30				
INSTR. 1			104.70				
1	***PINK***			***11.80***	***92.90***	***104***	***100***
2	***RED***			***13.80***	***90.90***	***104***	***100***
3	***ORANGE***			***15.80***	***88.90***	***104***	***100***
4	***BLUE***			***17.10***	***87.60***	***100***	***100***
5	PINK			19.80	84.90	100	100
6	RED			21.00	83.70	100	100
7	ORANGE			24.30	80.40	100	100
8	BLUE			26.50	78.20	100	100
					Total	**812**	**800**

	LINE LENGTH	LTAR GPD/FT^2	SYSTEM TYPE	SOIL LTAR GPD/FT^2	TRENCH SYSTEM	DISTRIBUTION
**** System***	***400***	***0.30***	***ACCEPT.***	***0.30***	***25% RED.***	**GRAVITY DISTRIBUTION**
Repair	400	0.30	*MOD.*	0.30	PPBPS	LOW PRESSURE

Notes:

** TBM located AT CORNER OF PROPERTY (see site plan)
**TBM is assumed to be 100'
**All measures in feet
**Nitrification lines are demonstrated on contour via colored pin flags
**BS, HI, and FS indicate rod readings