...NT OF ENVIRONMENT AND NATURAL RESOURCES
...OF ENVIRONMENTAL HEALTH
...WASTEWATER SECTION

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Sheet 1 of ___
PROPERTY ID #:
COUNTY: Iredell

OWNER: Iredell Group LLC
ADDRESS: Toe Williamson Rd Mooresville
PROPOSED FACILITY: SFS
LOCATION OF SITE: Valden Ridge lot 4
PROPOSED DESIGN FLOW (.1949): 480
WATER SUPPLY: ☒ Private ☐ Public ☐ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut
APPLICATION DATE 3/06
DATE EVALUATED: 3/06
PROPERTY SIZE:
PROPERTY RECORDED: Y
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
4A 1	LSS 8-12%	0-4	BSCL WR	fri SSSP SeaP	N/A	50"	N/A	N/A	PS .3 gpd/ft²
		4-24	RC SBK/ABK	fri SSSP SeaP					
		24-50	RCL MFSBK	fri SSSP SeaP					
B 2	LSS 8-12%	0-10	BSCL WR	fri SSSP SeaP	N/A	55"	N/A	N/A	PS .3 gpd/ft²
		10-29	RC SBK/ABK	fri SSSP SeaP					
		29-55	RCL MFSBK	fri SSSP SeaP					
4-5.06		0-12/15	fill						.37 12/15
		12/15-28	SBK mod c	fr SSSP SSPL					
		28-54	wk SBK cl	fr SSSP					
8%		0-9	compacted c	vfi					.379"
		9-40	SBK/blk rod c	fi-fr SSSP					
		40-52	w/SBK cl	fr SSSP					

CRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
pace (.1945)	1200 ft²	840 ft²
e(s)	25% Red	PROPS
	1.3	.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Rollins Soil & Environmental Services
OTHER(S) PRESENT:

Gravity 25% Reduction
FOR WASTEWATER TREATMENT

Owner: IREDELL GROUP

Address: 109-C Williamson Road
Mooresville, NC 28115

Phone: 704-663-4050

County: Iredell

Location: Walden Ridge Subdivision Lot #4

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: 0.3

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: N/A

Estimated Supply Line Length: 20

Supply Line Diameter: 3 in. SCH 40 PVC

Supply Line Volume: 3.48

Dosing Volume: NA

Supply Manifold: DROP 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 4

DESIGN FLOW:	480
SOIL APPLICATION RATE:	0.3
TOTAL AREA TRENCH BOTTOM:	1200
TOTAL LATERAL LENGTH:	400
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	400
SUPPLY LINE LENGTH:	20
TOTAL DYNAMIC HEAD:	NA
MANIFOLD SIZE:	NA
DOSING VOLUME:	NA
PUMP TANK DRAW DOWN*:	NA
SEPTIC TANK SIZE:	1000
PUMP TANK SIZE:	N/A

WALDEN RIDGE LOT #4

Project #: 01-1069

LAYOUT FOR 4 BEDROOM HOME

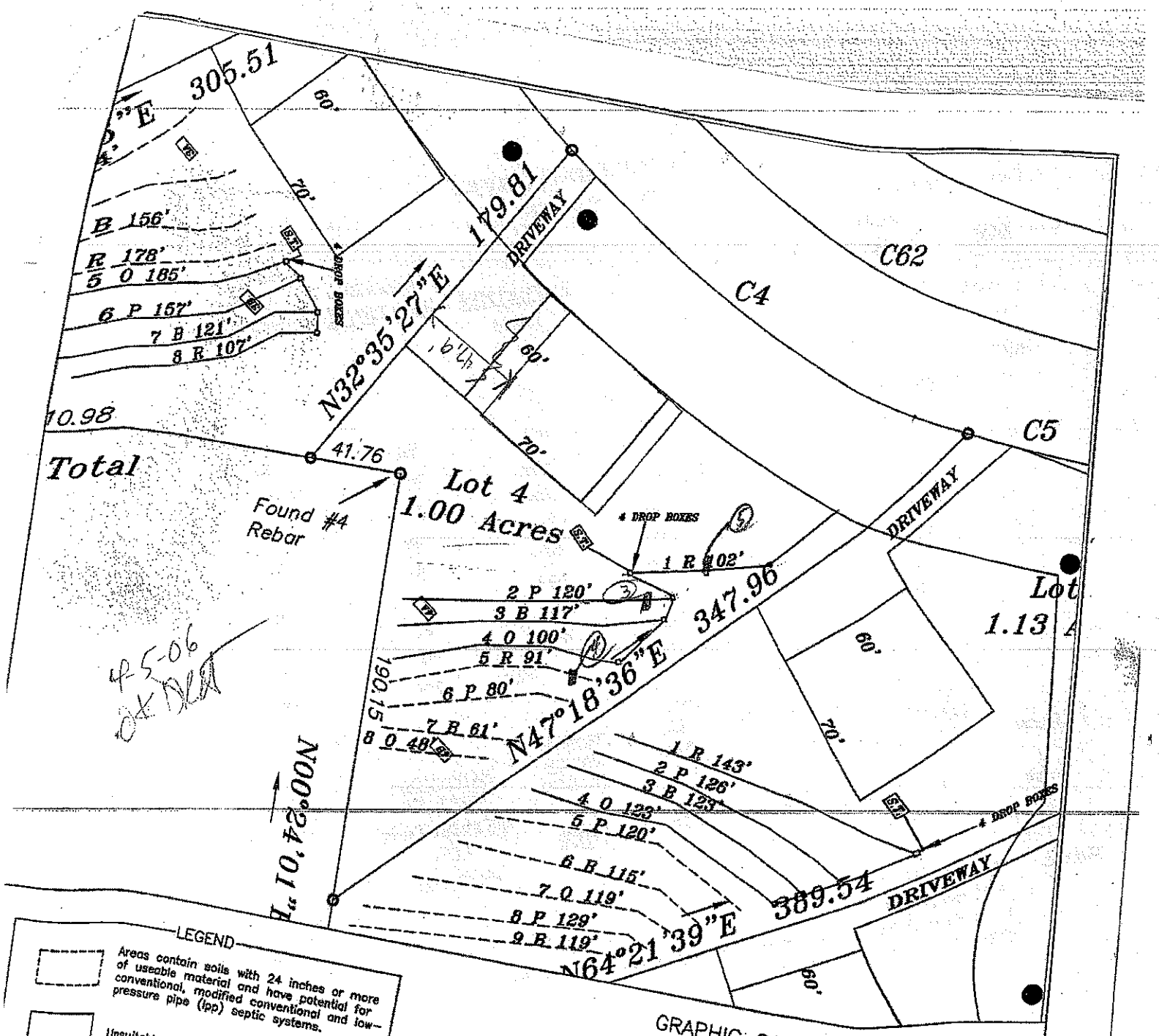
March 14, 2006

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM		N/A			100.00		
TANK		N/A	N/A				
HOUSE		N/A	N/A				
INSTR. 1			N/A				
1	*ORANGE*			*N/A*	*N/A*	*102*	*100*
2	*PINK*			*N/A*	*N/A*	*120*	*100*
3	*BLUE*			*N/A*	*N/A*	*117*	*100*
4	*RED*			*N/A*	*N/A*	*100*	*100*
5	ORANGE			N/A	N/A	91	91
6	PINK			N/A	N/A	80	80
7	BLUE			N/A	N/A	61	61
8	RED			N/A	N/A	48	48
					Total	719	680

* System	LINE LENGTH 400	LTAR GPD/FT² 0.30	SYSTEM TYPE ACCEPT.	SOIL LTAR GPD/FT² 0.30	TRENCH SYSTEM 25% RED.	DISTRIBUTION GRAVITY
Repair	280	0.30	MOD.	0.30	PPBPS	DISTRIBUTION LOW PRESSURE

Notes:

** TBM NOT REQUIRED
**All measures in feet
**Nitrification lines are demonstrated on contour via colored pin flags
**BS, HI, and FS indicate rod readings



LEGEND

Areas contain soils with 24 inches or more of useable material and have potential for conventional, modified conventional and low-pressure pipe (lpp) septic systems.

Unsuitable areas.

System lines.

Repair lines.

Temporary Bench Mark (TBM)

Well Location.

GRAPHIC SCALE
1" = 60'

60 0 60 120

FOR PRELIMINARY PLANNING PURPOSES ONLY. ALL LOTS WILL REQUIRE FINAL APPROVAL BY THE COUNTY HEALTH DEPARTMENT ON A LOT BY LOT BASIS. THIS MAP SHOULD BY USED AS A GENERAL GUIDE, SOME ADJUSTMENTS WILL BE NECESSARY IN THE FIELD DUE TO SOIL VARIABILITY AND COMPLEX TOPOGRAPHIC FEATURES. THIS MAP ONLY REFLECTS EXISTING SOIL SUITABILITY FOR ON-SITE SEPTIC TANK SYSTEMS.

PLEASE REFER TO ATTACHED SOIL REPORT FOR ADDITIONAL SITE SPECIFIC INFORMATION

ANS SOIL & ENVIRONMENTAL SERVICES
ROAD
NC 28125
(1) 278 - 0989
ASHLEY ROLLANS, NC LICENSED SOIL SCIENTIST
MOBILE: (704) 746 - 5040
EMAIL: ROLLANSFORTC@AOL.COM

MAP TITLE: SITE PLAN & DRAINFIELD AREAS

PROJECT NAME: WEDELL GROUP LLC/BOULDER RIDGE SUBDIVISION

LOCATION/DATE: TESTER ROAD, WEDELL COUNTY, NORTH CAROLINA, DECEMBER 2005

JOB #: 01-1069
FILE: C:\JOBS\01-1069
PROJECT MGR.: CBF
FIELD WORK: CBF AND AP
DRAWN BY: CBP AND AP