

MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
561 Ennis Rd.
Weddington, NC 28173
(704) 576-3887

Reference: Data Sheet for 241 Mazeppa Rd. (PIN 4668146815)
Building Footprint: 120' x 60'
Building Setbacks: 30' front, 20' rear, 30' east side, 10' west side
Water Source: Private well
Number of Employees: 16 (400 GPD)
Proposed LTAR: 0.3 GPD/FT2
Proposed System Type: 25% Reduction
Proposed Repair System Type: 25% Reduction
Distribution: Gravity-End cap/Drop boxes
Septic Tank Size: 1000 gallons
Proposed Trench Bottom: 36"

APPROVED JUL 12 2016

Line	Design Length	Actual Length
Orange 1		65'
Blue 2		85'
White 3		110'
Pink 4		140'
Yellow 5	**112'**	**175'**
Pink 6	**112'**	**210'**
Blue 7	**112'**	**170'**

Initial System: 336' **Repair System:** 400'

Comments:
This property is being developed for a landscaping business. The septic tank will be placed near the building. The supply line must be 30" below the parking area. The parking area in the front of the building will be built up approximately 6' at the end of the pavement.
The lines should be installed with a 36" trench bottom to get to the best soils.
Remove the berm from the drainfield area.

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

PROPERTY ID #: 4668146815
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
(Complete all fields in full)

OWNER: Dala Casa Properties LLC APPLICATION DATE
ADDRESS: 628 Oak Ridge Farm Hwy, Mooresville, NC 28115 DATE EVALUATED:
PROPOSED FACILITY: 16 Employees PROPOSED DESIGN FLOW (.1949): 400 GPD PROPERTY SIZE: 11.80 AC
LOCATION OF SITE: 241 Mazeppa Rd PROPERTY RECORDED:
WATER SUPPLY: ☒ Private ☐ Public ☒ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☒ Auger Boring ☒ Pit ☐ Cut TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

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
PIT 1	LS 6%	0-12	Br CL WSBK	FR SS SP SEXP	Few YB	50"	F-C SAP	N/A	PS 0.3 >20"
		12-20	R C ABK	FR SS SP SEXP					
		20-40	R C WSBK	FR SS SP SEXP					
		40-50	R CL WSBK	FR SS SP SEXP					
PIT 2	LS 6%	0-3	Br CL WSBK	FR SS SP SEXP	N/A	38"	F-C SAP PS	N/A	PS 0.3 >25"
		3-25	RY C ABK	FR SS SP SEXP					
		25-38	R CL WSBK	FR SS SP SEXP					
		38-60	VER L/SL SAP M	FR SS SP SEXP					
PIT 3	LS 6%	0-6	Br CL WSBK	FR SS SP SEXP	Few YB	36"	F-C SAP PS	N/A	PS 0.3 >27"
		6-27	RBr C SBK	FR SS SP SEXP					
		27-36	R CL WSBK	FR SS SP SEXP					
		36-60	VER SL SAP M	VFR SS SP SEXP					
PIT 4	LS 6%	0-10	Br SCL WSBK	FR SS SP SEXP	Few YB	34"	F-C SAP PS	N/A	PS 0.3 >27"
		10-27	RY C ABK	FR SS SP SEXP					
		27-34	RY CL WSBK	FR SS SP SEXP					
		34-60	VER SL SAP M	VFR SS SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1008 FT2	1200 FT2
System Type(s)	25% Reduction	25% Reduction
Site LTAR	0.3 @ 36" TB	0.3 @ 36" TB

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: MA&A
OTHER(S) PRESENT:
APPROVED 12 2016

COMMENTS:

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

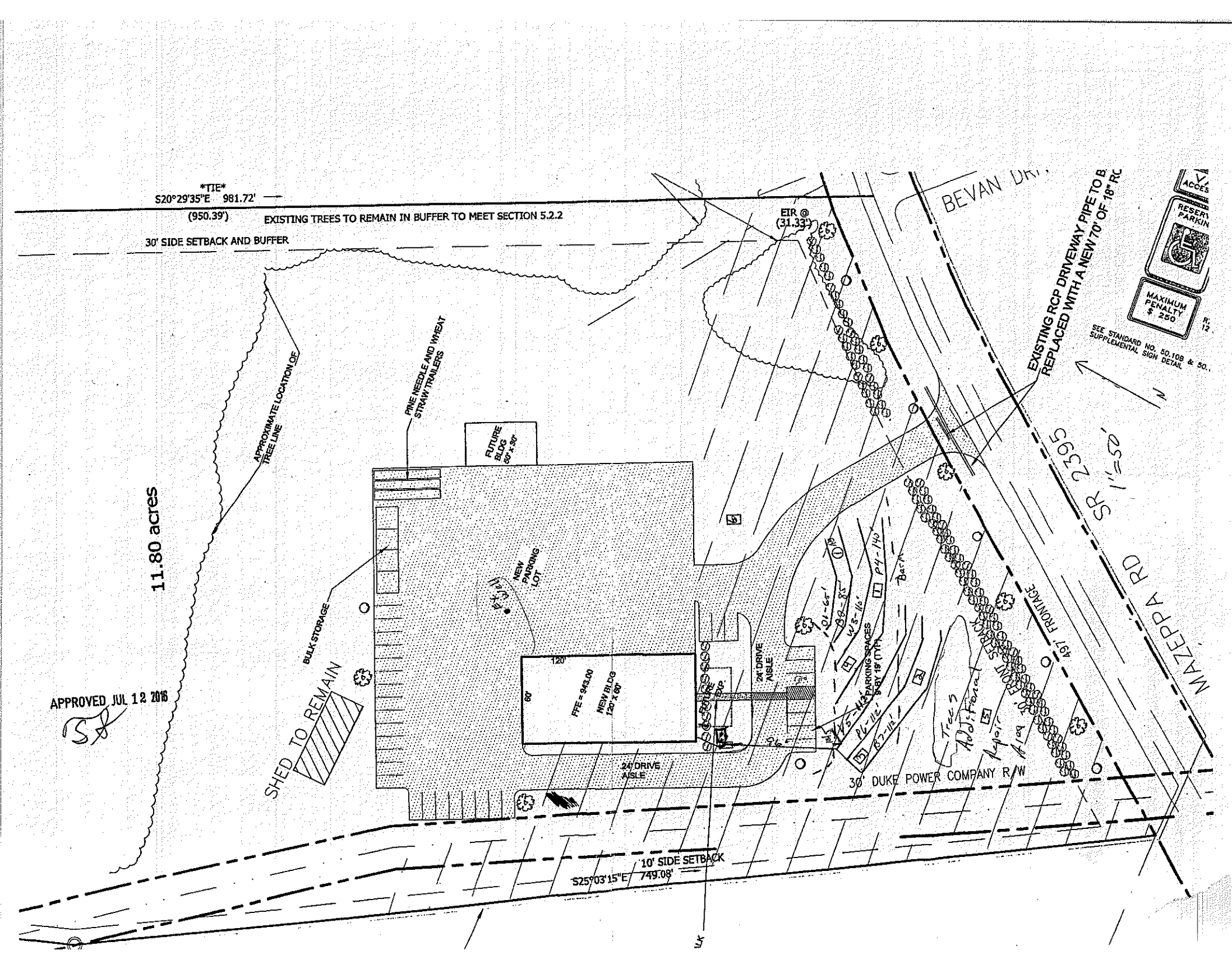
PROPERTY ID #: 4668146815
DATE OF EVALUATION:
COUNTY: IREDELL

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
PIT 5	LS 6%	0-24	YR C ABK	FR SS SP SEXP	N/A	36"	F-C SAP PS	N/A	PS 0.3 >24"
		24-36	RY CL WSBK	FR SS SP SEXP					
		36-62	VER SL SAP M	VFR SS SP SEXP					
PIT 6	LS 6%	0-7	Br CL WSBK	FR SS SP SEXP	Few YB	52"	F-C SAP	N/A	PS 0.3 >30"
		7-30	R C ABK	FR SS SP SEXP					
		30-52	R CL WSBK	FR SS SP SEXP					
AB 1	LS 4%	0-28	R C SBK/ABK	FR SS SP SEXP	Few YB	52"	F-C SAP	N/A	PS 0.3 >28"
		28-52	R CL WSBK	FR SS SP SEXP					

LICENSED SOIL SCIENTIST
STATE OF NORTH CAROLINA

APPROVED JUL 12 2016

COMMENTS:


TIE
S20°29'35"E 981.72'
(950.39')
EXISTING TREES TO REMAIN IN BUFFER TO MEET SECTION 5.2.2
30' SIDE SETBACK AND BUFFER
EIR @
(31.33')
BEVAN DR
EXISTING RCP DRIVEWAY PIPE TO B
REPLACED WITH A NEW 70' OF 18" RC
MAXIMUM
PENALTY
$ 250
SEE STANDARD NO. 50.10B & 50.
SUPPLEMENTAL SIGN DETAIL
MAZEPPA RD
SR 2395
1"=50'
APPROXIMATE LOCATION OF
TREE LINE
PINE NEEDLE AND WHEAT
STRAW TRAILERS
FUTURE
BLDG
50' x 50'
11.80 acres
BULK STORAGE
NEW
PARKING
LOT
120'
60'
FFE = 943.00
NEW BLDG
120' x 60'
FUTURE
EXP.
24' DRIVE
AISLE
24' DRIVE
AISLE
SHED TO REMAIN
APPROVED JUL 12 2016
497' FRONTAGE
Trees
Adj. Front
Major
30' DUKE POWER COMPANY R/W
10' SIDE SETBACK
S25°03'15"E 749.08'