

5631 WEST BV

14120201

1/4/2008

duponbj

Groundwater and Wastewater Services File Imaging Project

May 2007

Barcode Font = IDAutomationHC39M

SUBSURFACE WASTEWATER INSPECTION FORM

4158B

System Manager:
TCW Wastewater Management, Inc.
P.O. Box 1830, Indian Trail, NC 28079
Tele. 704.821.8841
Fx. 704.821.8892

Date of Inspection: 9-26-2006

___ Initial ✓ 6 month ___ 12 month
___ Follow-up ___ Service call ___ Other

County	System Type	Drainfield
Meck	IV	___ On-site ___ Off-site

Time: 11:36 Initials CL

Name and Address of Owner:
Mr. Joe Hack
Mecklenburg County Engineering
700 N. Tryon St.
Charlotte, NC 28202

Location:
Joe Hack Compost Central
5631 West Blvd
Charlotte NC 28202

Lot # _____ Phase _____ Subdivision _____

Compliance Status: ✓ Compliant ___ Non-Compliant ___ Malfunctioning

Copies: ✓ Homeowner ✓ DEH ___ Builder ___ Owner's Association ___ Developer

✓ = Satisfactory M = Marginal X = Unsatisfactory N = Not Evaluated NA = Not Applicable

Septic Tank: size: 1000 gallons

Scum Level 0" Sludge Level ___"

Tank risers accessible?	✓
Signs of infiltration? Surface	✓
Subsurface	✓
Surface water being diverted away?	✓
Tanks and access structurally sound?	✓
Sanitary tee in good condition?	✓
Inlet Tee cleaned?	✓
Effluent Filter Cleaned?	✓
Effluent Filter in good condition?	✓
Effluent Filter in snapped in place?	✓
Water level at proper level?	✓

Liquid Depth ___"
Septic Tank Needs Pumping Yes ___ No ✓

Bacteria:

Added at inspection	Left with homeowner
Pulp ___pks	Pulp ___pks
Regular ___pks	Regular ___pks
Bio-One ___	Bio-One ___

Effluent Dosing Station: size: ~~1500~~ 1500 gallons

Sludge Level ___"

Tank Riser Height?	✓
Signs of Infiltration?	✓
Required pumps present & operating properly?	✓
High water alarm operating properly?	✓
Floats, pipes, valves, disconnects in good condition?	✓
Pump float is not resting on top of pump	✓
Control panel enclosure/components in good condition?	✓
TCW sticker placed on front door of Panel?	✓
Duct Seal present in all conduit openings?	✓
Effluent appears clear and free of solids?	✓
Telemetry / Dialer is working properly?	Not

Pump Tank Needs Pumping Yes ___ No ___

Elapsed Time Readings:
Pump #1- C _____ - P _____ = Usage _____
Pump #2- C _____ - P _____ = Usage _____
Pump #1- CC _____ Pump #2 - CC _____

Filter Cleaned ___
Filter in good condition ✓

Pressure Bell settings: Off 4", On 12"-15", Tele 18", Alarm 24"
Note: Draw down = "On" minus "Off" times GPI of tank size

Ground Absorption Fields:

No evidence of effluent surfacing?	✓	Surface water being diverted away?	✓
Vegetative cover maintained properly?	✓	No low areas or settling occurring?	✓
Protected from traffic, destructive uses?	✓	Line cover (soil) is adequate?	✓
Drop boxes used in lieu of Distribution box? Yes ___ No ___		Repair area properly reserved, maintained?	✓
Distribution box(es) in good condition?	/		
Distribution box(es) in proper adjustment?	/		

Pressure Manifold System:

Manifold vault, valves, piping in good condition?	N		
Evidence of leakage, blockage in discharge lines?	N	Corrected Today	___
Pressure head is properly adjusted?	N	Corrected Today	___

Low Pressure Pipe System:

Turn-ups/cleanouts/valves intact and accessible?	/	Corrected Today	___
Laterals free of excess solids?	/	Jetting required	___
Laterals flushed this inspection?	/		
Zone valves operating properly?	/	Corrected Today	___
Pressure head is properly adjusted?	/	Corrected Today	___
Turn-up buckets are dry inside?	/		
Valve box or buckets are dry inside?	/		

revised 8/15/05

Pump Tank Size (Gallons) : ____1000 ____1500 | Design Pump Delivery Rate _____ GPM Design Dose _____ Gallons

Level End Dose _____ - _____ Level Begin Dose = _____ Inches X _____ GPI = Current Dose _____ Gallons

Level End _____ - _____ Level Begin = _____ X _____ GPI = _____ ÷ _____ Min. Run Time = _____ GPM (CPDR)

Current GPM (CPDR) _____ ÷ _____ Design GPM (DPDR) = _____ X 100 = _____ % Efficiency

Valves	Lines	Design	Observe	Adjusted	Valves	Lines	Design	Observe	Adjusted

Recommendations to Owner: Cleaned Filter

Control panel does not have Buzzer has a Bell and it works - No repairs needed as we thought last visit.

Thanks

Signature of "ORC" T E B

Revised 8/15/05

SUBSURFACE WASTEWATER INSPECTION FORM

4158B

System Manager:	Date of Inspection			
TCW Wastewater Management, Inc.	7-1-05	___ Initial	✓ 6 month	___ 12 month
P.O. Box 1830, Indian Trail, NC 28079		___ Follow-up	___ Service call	___ Other
Tele. 704.821.8841	County: Mec IC	System Type: IV	Drainfield: • On-site	___ Off-site
Fx. 704.821.8892	Time: 10:20	Initials: BC		

Name and Address of Owner:	Location of System / Drainfield (off-site)
Mr. Joe Hack Mecklenburg County Engineering 700 N. Tryon St. Charlotte, NC 28202	Compost Central 5631 West Blvd Charlotte Lot # ___ Phase ___ Subdivision ___

Compliance Status: ✓ Compliant ___ Non-Compliant ___ Malfunctioning

Copies: ✓ Homeowner ✓ DEH ___ Builder ___ Owner's Association ___ Developer

✓ = Satisfactory M = Marginal X = Unsatisfactory N = Not Evaluated NA = Not Applicable

Septic Tank: size: 1000 gallons

Scum Level: 1" Sludge Level: ___"

Tank risers accessible?	✓
Signs of infiltration? Surface ___ Subsurface ___	✓
Surface water being diverted away?	✓
Tanks and access structurally sound?	✓
Sanitary tee in good condition?	✓
Inlet Tee cleaned?	X/A
Effluent Filter Cleaned?	✓
Effluent Filter in good condition?	✓
Effluent Filter in snapped in place?	✓
Water level at proper level?	✓

Liquid Depth ___"

Septic Tank Needs Pumping Yes ___ No ✓

Bacteria:

Added at inspection	Left with homeowner
Pulp ___pks	Pulp ___pks
Regular ___pks	Regular ___pks
Bio-One ___	Bio-One ___

Effluent Dosing Station: size: 1000 gallons

Sludge Level: ___"

Tank Riser Height?	✓
Signs of Infiltration?	✓
Required pumps present & operating properly?	✓
High water alarm operating properly?	X
Floats, pipes, valves, disconnects in good condition?	✓
Pump float is not resting on top of pump	✓
Control panel enclosure/components in good condition?	✓
Duct Seal present in all conduit openings?	✓
Effluent appears clear and free of solids?	✓
Telemetry / Dialer is working properly?	N/A

Pump Tank Needs Pumping Yes ___ No ✓

Elapsed Time Readings:

Pump #1- C ___ - P ___ = Usage ___

Pump #2- C ___ - P ___ = Usage ___

Filter Cleaned ___

Filter in good condition ___

Pressure Bell settings: Off 4", On 12"-15", Tele 18", Alarm 24"

Note: Draw down = "On" minus "Off" times GPI of tank size

Ground Absorption Fields:

No evidence of effluent surfacing?	✓
Vegetative cover maintained properly?	✓
Protected from traffic, destructive uses?	✓
Drop boxes used in lieu of Distribution box? Yes ___ No ___	___
Distribution box(es) in good condition?	___
Distribution box(es) in proper adjustment?	___

Surface water being diverted away?	✓
No low areas or settling occurring?	✓
Line cover (soil) is adequate?	✓
Repair area properly reserved, maintained?	✓

Pressure Manifold System:

Manifold vault, valves, piping in good condition?	N
Evidence of leakage, blockage in discharge lines?	N
Pressure head is properly adjusted?	N

Corrected Today ___

Corrected Today ___

Low Pressure Pipe System:

Turn-ups/cleanouts/valves intact and accessible?	___
Laterals free of excess solids?	___
Laterals flushed this inspection?	___
Zone valves operating properly?	___
Pressure head is properly adjusted?	___
Turn-up buckets are dry inside?	___
Valve box or buckets are dry inside?	___

Corrected Today ___

Jetting required ___

Corrected Today ___

Corrected Today ___

Pump Tank Size (Gallons) : ____1000 ____1500 | Design Pump Delivery Rate ____ GPM Design Dose ____ Gallons

Level End Dose ____ - ____ Level Begin Dose = ____ Inches X ____ GPI = Current Dose ____ Gallons

Level End ____ - ____ Level Begin = ____ X ____ GPI = ____ ÷ ____ Min. Run Time = ____ GPM (CPDR)

Current GPM (CPDR) ____ ÷ ____ Design GPM (DPDR) = ____ X 100 = ____ % Efficiency

Valves	Lines	Design	Observe	Adjust	Valves	Lines	Design	Observe	Adjust

SUBSURFACE WASTEWATER DISPOSAL SYSTEM
MONITORING REPORT FORM

Name and Address of System Manager

TRI-COUNTY WASTEWATER

P.O. Box 1830
Indian Trail, NC 28079
(704) 821-8841

Date of Inspection: 5-15-02

☒ 6 Mo. ☐ Follow-up
☐ 12 Mo. ☐ Service Call

County: Meck

System Classification & Type: 4

Joe Hack Meck County Engineering
700 N. Tryon St.
Charlotte NC 28202

Location of System: 5631 West Blvd Charlotte NC

Lot # _____ Phase _____

Subdivision: _____

(✓=Satisfactory, M= Marginal, X=Unsatisfactory, N=Not Evalulated, NA= Not Applicable)

TANKAGE (septic tanks)

			Scum Level	Sludge Level
Tank risers accessible?	✓	Septic Tank		
Signs of infiltration?	✓	Water Depth		
Tanks and access structurally sound?	✓	Septic Tank Needs Pumping		
Sanitary tee(s) in good condition?	✓			
Effluent filter cleaned?				
Effluent filter in good condition?	✓			

TANKAGE (grease traps)

			Scum Level	Sludge Level
Grease trap risers accessible?		Grease Trap		
Signs of infiltration?		Water Depth		
Grease trap and access structurally sound?		Grease Trap Needs Pumping		
Sanitary tee(s) in good condition?				
Effluent filter cleaned?				
Effluent filter in good condition?				

EFFLUENT DOSING STATION:

Tank Riser Height?	✓	Filter Cleaned	
Signs of Infiltration?	✓	Filter in Good Condition	
Required pumps present and operating properly?	✓	Elapsed Time Readings:	
High water alarm operating properly?	✓	Pump #1	
Floats, pipes, valves, disconnects in good condition?	✓	Pump #2	
Control panel enclosure/components in good condition?	✓	Pump #3	
Effluent appears clear and free of solids?	✓	Pump #4	

GROUND ABSORPTION FIELDS (general):

No evidence of effluent surfacing?	✓	
Surface water being effectively diverted away?	✓	
Line cover & vegetative cover maintained properly?	✓	
Protected from traffic, destructive uses?	✓	
Distribution devices in good working condition?	✓	
Repair area properly reserved, maintained?	✓	

PRESSURE MANIFOLD SYSTEM:

Manifold vault, valves, piping in good condition?	N	Corrected Today	
Evidence of leakage, blockage in discharge lines?	N	Corrected Today	
Pressure head is properly adjusted?	N	Corrected Today	

LOW PRESSURE PIPE SYSTEM:

Turnups/cleanouts/valves intact and accessible?		Corrected Today	
Laterals free of excess solids?			
Laterals flushed this inspection?			
Pressure head is properly adjusted?		Corrected Today	

Pump Tank Size _____ gallons
Level Begin Dose _____ Level End Dose _____ Dose Amount (Gallons) _____
Run Tiime _____ Level Begin _____ Level End _____ Flow Amount _____ (gpm)

VALVE#	LINE #	DESIGN PRESSURE	OBSERVED PRESSURE	ADJUSTED PRESSURE
		N/A		

RECOMMENDATIONS TO OWNER: Looks Good.

COMPLIANCE STATUS: **COMPLIANT** ✓ **NON-COMPLIANT** _____

SIGNATURE OF "ORC": [signature]

SUBSURFACE WASTEWATER DISPOSAL SYSTEM
MONITORING REPORT FORM

Name and Address of System Manager

TRI-COUNTY WASTEWATER
P.O. Box 1830
Indian Trail, NC 28079
(704) 821-8841

Date of Inspection: 11-20-01

☐ 6 Mo. ☐ Follow-up
☒ 12 Mo. ☐ Service Call

County: Meck

System Classification & Type: 4

Joe Hack Meck County Engineering
700 N. Tryon St.
Charlotte NC 28202

Location of System: Compost Central
3631 W. Blvd
Char, NC

Lot # _____ Phase _____
Subdivision: _____

(✓=Satisfactory, M= Marginal, X=Unsatisfactory, N=Not Evalulated, NA= Not Applicable)

TANKAGE (septic tanks)

Tank risers accessible?	✓
Signs of infiltration?	✓
Tanks and access structurally sound?	✓
Sanitary tee(s) in good condition?	✓
Effluent filter cleaned?	✓
Effluent filter in good condition?	✓

	Scum Level	Sludge Level
Septic Tank	✓	
Water Depth		
Septic Tank Needs Pumping		

TANKAGE (grease traps)

Grease trap risers accessible?	
Signs of infiltration?	
Grease trap and access structurally sound?	
Sanitary tee(s) in good condition?	
Effluent filter cleaned?	
Effluent filter in good condition?	

	Scum Level	Sludge Level
Grease Trap		
Water Depth		
Grease Trap Needs Pumping		

EFFLUENT DOSING STATION:

Tank Riser Height?	✓
Signs of Infiltration?	✓
Required pumps present and operating properly?	✓
High water alarm operating properly?	✓
Floats, pipes, valves, disconnects in good condition?	✓
Control panel enclosure/components in good condition?	✓
Effluent appears clear and free of solids?	✓

Filter Cleaned _____
Filter in Good Condition _____
Elapsed Time Readings:
Pump #1 _____
Pump #2 _____
Pump #3 _____
Pump #4 _____

GROUND ABSORPTION FIELDS (general):

No evidence of effluent surfacing?	✓
Surface water being effectively diverted away?	✓
Line cover & vegetative cover maintained properly?	✓
Protected from traffic, destructive uses?	✓
Distribution devices in good working condition?	✓
Repair area properly reserved, maintained?	✓

PRESSURE MANIFOLD SYSTEM:

Manifold vault, valves, piping in good condition?	N	Corrected Today _____
Evidence of leakage, blockage in discharge lines?	N	Corrected Today _____
Pressure head is properly adjusted?	N	Corrected Today _____

LOW PRESSURE PIPE SYSTEM:

Turnups/cleanouts/valves intact and accessible?		Corrected Today _____
Laterals free of excess solids?		
Laterals flushed this inspection?		
Pressure head is properly adjusted?		Corrected Today _____

Pump Tank Size _____ gallons
Level Begin Dose _____ Level End Dose _____ Dose Amount (Gallons) _____
Run Tiime _____ Level Begin _____ Level End _____ Flow Amount _____ (gpm)

VALVE#	LINE #	DESIGN PRESSURE	OBSERVED PRESSURE	ADJUSTED PRESSURE
		N/A		

RECOMMENDATIONS TO OWNER: Everything looks good.

"IANCE STATUS: COMPLIANT ✓ NON-COMPLIANT _____

SIGNATURE OF "ORC": M. Gambright

SUBSURFACE WASTEWATER DISPOSAL SYSTEM
MONITORING REPORT FORM

Name and Address of System Manager

TRI-COUNTY WASTEWATER
8037 Fairview Road, Suite G
Charlotte, NC 28227
(704) 545-1711

Date of Inspection: 5-19-00

☒ 6 Mo. ☐ Follow-up ☐ 12 Mo. ☐ Service Call

County: Meck

System Classification & Type: IV

Joe Hack/Meck County Engineering
700 N. Tryon St.
Charlotte NC 28202

Location of System: "Compost Central" Same

Lot # _____ Phase _____

Subdivision: _____

(✓=Satisfactory, M= Marginal, X=Unsatisfactory, N=Not Evalulated, NA= Not Applicable)

TANKAGE (septic tanks)

			Scum Level	Sludge Level
Tank risers accessible?	✓			
Signs of infiltration?	✓	Septic Tank	⊘	⊘
Tanks and access structurally sound?	✓	Water Depth	—	
Sanitary tee(s) in good condition?	✓	Septic Tank Needs Pumping	—	
Effluent filter cleaned?	✓			
Effluent filter in good condition?	✓			

TANKAGE (grease traps)

			Scum Level	Sludge Level
Grease trap risers accessible?				
Signs of infiltration?		Grease Trap	____	____
Grease trap and access structurally sound?		Water Depth	____	
Sanitary tee(s) in good condition?		Grease Trap Needs Pumping	____	
Effluent filter cleaned?				
Effluent filter in good condition?				

EFFLUENT DOSING STATION:

Tank Riser Height?	✓	Filter Cleaned	____
Signs of Infiltration?	✓	Filter in Good Condition	____
Required pumps present and operating properly?	✓	Elapsed Time Readings:	
High water alarm operating properly?	✓	Pump #1	____
Floats, pipes, valves, disconnects in good condition?	✓	Pump #2	____
Control panel enclosure/components in good condition?	✓	Pump #3	____
Effluent appears clear and free of solids?	✓	Pump #4	____

GROUND ABSORPTION FIELDS (general):

No evidence of effluent surfacing?	N	
Surface water being effectively diverted away?	X	
Line cover & vegetative cover maintained properly?	X	
Protected from traffic, destructive uses?	X	
Distribution devices in good working condition?	✓	
Repair area properly reserved, maintained?	X	

PRESSURE MANIFOLD SYSTEM:

Manifold vault, valves, piping in good condition?	N	Corrected Today	____
Evidence of leakage, blockage in discharge lines?	N	Corrected Today	____
Pressure head is properly adjusted?	N	Corrected Today	____

LOW PRESSURE PIPE SYSTEM:

Turnups/cleanouts/valves intact and accessible?		Corrected Today	____
Laterals free of excess solids?			
Laterals flushed this inspection?			
Pressure head is properly adjusted?		Corrected Today	____

Pump Tank Size _____ gallons
Level Begin Dose _____ Level End Dose _____ Dose Amount (Gallons) _____
Run Tiime _____ Level Begin _____ Level End _____ Flow Amount _____ (gpm)

VALVE#	LINE #	DESIGN PRESSURE	OBSERVED PRESSURE	ADJUSTED PRESSURE
		N/A		

SUBSURFACE WASTEWATER DISPOSAL SYSTEM
MONITORING REPORT FORM

Name and Address of System Manager

TRI-COUNTY WASTEWATER

8037 Fairview Road, Suite G
Charlotte, NC 28227
(704) 545-1711

Date of Inspection: 11-7-00

☐ 6 Mo. ☐ Follow-up
☒ 12 Mo. ☐ Service Call

County: Meck

System Classification & Type: IV

Joe Hack/Meck County Engineering
700 N. Tryon St.
Charlotte NC 28202

Location of System

Lot #_____ Phase _____
Subdivision: _____

(✓=Satisfactory, M= Marginal, X=Unsatisfactory, N=Not Evalulated, NA= Not Applicable)

TANKAGE (septic tanks)

			Scum Level	Sludge Level
Tank risers accessible?	✓	Septic Tank	0	0
Signs of infiltration?	✓	Water Depth		
Tanks and access structurally sound?	✓	Septic Tank Needs Pumping		
Sanitary tee(s) in good condition?	✓			
Effluent filter cleaned?	X			
Effluent filter in good condition?	✓			

TANKAGE (grease traps)

			Scum Level	Sludge Level
Grease trap risers accessible?		Grease Trap		
Signs of infiltration?		Water Depth		
Grease trap and access structurally sound?		Grease Trap Needs Pumping		
Sanitary tee(s) in good condition?				
Effluent filter cleaned?				
Effluent filter in good condition?				

EFFLUENT DOSING STATION:

Tank Riser Height?	✓	Filter Cleaned	
Signs of Infiltration?	✓	Filter in Good Condition	
Required pumps present and operating properly?	✓	Elapsed Time Readings:	
High water alarm operating properly?	✓	Pump #1	
Floats, pipes, valves, disconnects in good condition?	✓	Pump #2	
Control panel enclosure/components in good condition?	✓	Pump #3	
Effluent appears clear and free of solids?	✓	Pump #4	

GROUND ABSORPTION FIELDS (*general*):

No evidence of effluent surfacing?	✓
Surface water being effectively diverted away?	✓
Line cover & vegetative cover maintained properly?	✓
Protected from traffic, destructive uses?	✓
Distribution devices in good working condition?	✓
Repair area properly reserved, maintained?	✓

PRESSURE MANIFOLD SYSTEM:

Manifold vault, valves, piping in good condition?	✓	Corrected Today	
Evidence of leakage, blockage in discharge lines?	✓	Corrected Today	
Pressure head is properly adjusted?	✓	Corrected Today	

LOW PRESSURE PIPE SYSTEM:

Turnups/cleanouts/valves intact and accessible?		Corrected Today	
Laterals free of excess solids?			
Laterals flushed this inspection?			
Pressure head is properly adjusted?		Corrected Today	

Pump Tank Size _____ gallons
Level Begin Dose _____ Level End Dose _____ Dose Amount (Gallons) _____
Run Tiime _____ Level Begin _____ Level End _____ Flow Amount _____ (gpm)

VALVE#	LINE #	DESIGN PRESSURE	OBSERVED PRESSURE	ADJUSTED PRESSURE
		N/A		

RECOMMENDATIONS TO OWNER: Everything looks fine, field has been cleaned of all equipment. Effluent filter was clogged removed and cleaned.

COMPLIANCE STATUS: COMPLIANT ✓ NON-COMPLIANT _____

SIGNATURE OF "ORC": Michael Quinlivan

SUBSURFACE WASTEWATER DISPOSAL SYSTEM
MONITORING REPORT FORM

Name and Address of System Manager

TRI-COUNTY WASTEWATER

P.O. Box 1830
Indian Trail, NC 28079
(704) 821-8841

Date of Inspection: 5-18-01

☒ 6 Mo. ☐ Follow-up ☐ 12 Mo. ☐ Service Call

County: Meck

System Classification & Type: IV

Joe Hack Meck County Engineering
700 N. Tryon St.
Charlotte NC 28202

Location of System

Lot # _____ Phase _____

Subdivision: _____

(✓=Satisfactory, M= Marginal, X=Unsatisfactory, N=Not Evalulated, NA= Not Applicable)

TANKAGE (septic tanks)

			Scum Level	Sludge Level
Tank risers accessible?	✓			
Signs of infiltration?	✓	Septic Tank		
Tanks and access structurally sound?	✓	Water Depth		
Sanitary tee(s) in good condition?	✓	Septic Tank Needs Pumping		
Effluent filter cleaned?	✓			
Effluent filter in good condition?	✓			

TANKAGE (grease traps)

			Scum Level	Sludge Level
Grease trap risers accessible?				
Signs of infiltration?		Grease Trap		
Grease trap and access structurally sound?		Water Depth		
Sanitary tee(s) in good condition?		Grease Trap Needs Pumping		
Effluent filter cleaned?				
Effluent filter in good condition?				

EFFLUENT DOSING STATION:

Tank Riser Height?	✓	Filter Cleaned	
Signs of Infiltration?	✓	Filter in Good Condition	
Required pumps present and operating properly?	✓	Elapsed Time Readings:	
High water alarm operating properly?	✓	Pump #1	
Floats, pipes, valves, disconnects in good condition?	✓	Pump #2	
Control panel enclosure/components in good condition?	✓	Pump #3	
Effluent appears clear and free of solids?	✓	Pump #4	

GROUND ABSORPTION FIELDS (general):

No evidence of effluent surfacing?	✓
Surface water being effectively diverted away?	✓
Line cover & vegetative cover maintained properly?	✓
Protected from traffic, destructive uses?	✓
Distribution devices in good working condition?	✓
Repair area properly reserved, maintained?	✓

PRESSURE MANIFOLD SYSTEM:

Manifold vault, valves, piping in good condition?	✓	Corrected Today	
Evidence of leakage, blockage in discharge lines?	✓	Corrected Today	
Pressure head is properly adjusted?	✓	Corrected Today	

LOW PRESSURE PIPE SYSTEM:

Turnups/cleanouts/valves intact and accessible?		Corrected Today	
Laterals free of excess solids?			
Laterals flushed this inspection?			
Pressure head is properly adjusted?		Corrected Today	

VALVE# LINE # DESIGN PRESSURE OBSERVED PRESSURE ADJUSTED PRESSURE

Pump Tank Size _____ gallons
Level Begin Dose _____ Level End Dose _____ Dose Amount (Gallons) _____
Run Tiime _____ Level Begin _____ Level End _____ Flow Amount _____ (gpm)

VALVE#	LINE #	DESIGN PRESSURE	OBSERVED PRESSURE	ADJUSTED PRESSURE
		N/A		

RECOMMENDATIONS TO OWNER: Everything looks good!

COMPLIANCE STATUS: **COMPLIANT** ✓ **NON-COMPLIANT** _____

SIGNATURE OF "ORC": Michael Goodnight

SUBSURFACE WASTEWATER DISPOSAL SYSTEM
MONITORING REPORT FORM

Name and Address of System Manager

TRI-COUNTY WASTEWATER

P.O. Box 1830
Indian Trail, NC 28079
(704) 821-8841

Date of Inspection: 5-15-01

☒ 6 Mo. ☐ Follow-up ☐ 12 Mo. ☐ Service Call

County: Meck

System Classification & Type: IV

Joe Hack Meck County Engineering
700 N. Tryon St.
Charlotte NC 28202

Location of System: Compost Central
5631 W. Blvd
Charlotte NC

Lot # _____ Phase _____

Subdivision: _____

(✓=Satisfactory, M= Marginal, X=Unsatisfactory, N=Not Evalulated, NA= Not Applicable)

TANKAGE (septic tanks)

			Scum Level	Sludge Level
Tank risers accessible?	✓			
Signs of infiltration?	✓	Septic Tank		
Tanks and access structurally sound?	✓	Water Depth		
Sanitary tee(s) in good condition?	✓	Septic Tank Needs Pumping		
Effluent filter cleaned?	✓			
Effluent filter in good condition?	✓			

TANKAGE (grease traps)

			Scum Level	Sludge Level
Grease trap risers accessible?				
Signs of infiltration?		Grease Trap		
Grease trap and access structurally sound?		Water Depth		
Sanitary tee(s) in good condition?		Grease Trap Needs Pumping		
Effluent filter cleaned?				
Effluent filter in good condition?				

EFFLUENT DOSING STATION:

Tank Riser Height?	✓	Filter Cleaned	
Signs of Infiltration?	✓	Filter in Good Condition	
Required pumps present and operating properly?	✓	Elapsed Time Readings:	
High water alarm operating properly?	✓	Pump #1	
Floats, pipes, valves, disconnects in good condition?	✓	Pump #2	
Control panel enclosure/components in good condition?	✓	Pump #3	
Effluent appears clear and free of solids?	✓	Pump #4	

GROUND ABSORPTION FIELDS (general):

No evidence of effluent surfacing?	✓
Surface water being effectively diverted away?	✓
Line cover & vegetative cover maintained properly?	✓
Protected from traffic, destructive uses?	✓
Distribution devices in good working condition?	✓
Repair area properly reserved, maintained?	✓

PRESSURE MANIFOLD SYSTEM:

Manifold vault, valves, piping in good condition?	✓	Corrected Today	
Evidence of leakage, blockage in discharge lines?	N	Corrected Today	
Pressure head is properly adjusted?	N	Corrected Today	

LOW PRESSURE PIPE SYSTEM:

Turnups/cleanouts/valves intact and accessible?		Corrected Today	
Laterals free of excess solids?			
Laterals flushed this inspection?			
Pressure head is properly adjusted?		Corrected Today	

SWDSMR 3/99

Pump Tank Size _____ gallons
Level Begin Dose _____ Level End Dose _____ Dose Amount (Gallons) _____
Run Tiime _____ Level Begin _____ Level End _____ Flow Amount _____ (gpm)

VALVE#	LINE #	DESIGN PRESSURE	OBSERVED PRESSURE	ADJUSTED PRESSURE
		N/A		

RECOMMENDATIONS TO OWNER: Everything looks good.

COMPLIANCE STATUS: **COMPLIANT** ✓ **NON-COMPLIANT** _____

SIGNATURE OF "ORC": Michael Goodnight

41586 141-202-91

N.C. DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

INSPECTION OF ENGINEERED SUBSURFACE SEWAGE SYSTEM

Mecklenburg County	Compost Central	WQ 0005617
Health Department	Name of Establishment	Permit/Project No.
5631 Paul Brown Blvd	Composting Facility	275 gpd
Location	Type of Establishment	Design Flow
Mecklenburg County	700 N. Tryon St.	
Owner/Agent	Address	Phone
N/A		
Operator	Address	Phone

Remarks

	Yes	No	REMARKS
1. ESTABLISHMENT:			
Type, size, and sewage flow in accordance with permit?	☑	☐	
2. COLLECTION SYSTEM:			
No evidence of leaks into or out from sewer lines/manholes?	☐	☐	
Free of blockages/solids buildup in lines or manholes?	☐	☐	
3. TANKAGE (Grease Traps/Lift Stations/Septic/Dosing Tanks):			
Tank risers accessible and surface water diverted?	☑	☐	
Tanks and access manholes structurally sound, watertight?	☑	☐	
Sanitary tee(s) in good working condition?	☐	☐	
Tanks pumped, cleaned out as needed?	☐	☐	- Supervisor is going to uncover septic tank so that we can check this.
4. RAW SEWAGE LIFT STATION (If Present):			
Required pumps present, operating, and cycling properly?	☐	☐	
High-water alarm present and operating properly?	☐	☐	
Floats/pipe/valves/disconnects in good working condition?	☐	☐	
Control panel enclosure/components in good condition?	☐	☐	
5. EFFLUENT DOSING SYSTEM:			
Effluent appears clear, free of excess solids?	☑	☐	
PUMP SYSTEMS:			
Required pumps present, operating, and cycling properly?	☐	☑	- Pumps do not appear to be operating properly - David Morton is going to have an electrician take a look at it.
High-water alarm present and operating properly?	☐	☐	
Floats/pipe/valves/disconnects in good working condition?	☑	☐	- Pumps not submerged - will call when they have someone to meet me in order to adjust floats
Control panel enclosure/components in good condition?	☑	☐	
Elapsed time readings: _____ _____ _____ _____			
SIPHON SYSTEMS:			
No evidence of overflow or siphon leakage?	☐	☐	
Siphon(s) appear to be working/alternating properly?	☐	☐	
Bells and vents free of debris and in good condition?	☐	☐	
6. GROUND ABSORPTION FIELDS:			
No evidence of effluent surfacing/reaching surface waters?	☑	☐	
Minimal ponding in subsurface trenches?	☑	☐	
Surface water being effectively diverted away?	☑	☐	
Diversions/ditches/swales/tile drains properly maintained?	☑	☐	
Line cover/vegetation adequate/maintained as needed?	☑	☐	Somewhat. Power line has been trenched through drainfield area. Power line does not appear to be installed within gravel portion of trenches - removing may create more problems?
Protected from traffic, destructive uses?	☐	☑	
Distribution devices in good condition, working properly?	☐	☐	
Repair area properly reserved, maintained?	☑	☐	
LOW-PRESSURE PIPE DRAIN FIELDS:			
Turnups/cleanouts/valves intact and accessible?	☐	☐	
No effluent standing in lower laterals?	☐	☐	
Laterals free of excess solids, cleaned out as needed?	☐	☐	
Pressure head is properly adjusted?	☐	☐	

OVERALL CONDITION AND OPERATION OF SYSTEM: System appears to be working good.

SUMMARY OF IMPROVEMENTS NEEDED:

Improvement	Repair Within (Days)
- Adjust float switches	
- Check pump wiring	

DATE: 8-10-98 SIGNED: Larry B. Thompson Jr., R.S. AGENT
Division of Environmental Health

DEHNR 3702 (Revised 9/91)
Environmental Health Services Section (Review 9/95)

SUMMARY OF IMPROVEMENTS NEEDED (*Continued*)

Improvement	Repair Within (Days)

INTENT TO SUSPEND OR REVOKE PERMIT

This is to notify you of intent to suspend/revoke (*circle one*) your operation permit/certificate of completion (*circle one*) 60 days from this date for the following violations:

_____
[Law or Rule(s)]

If suspended, the operation permit or certificate of completion remains suspended until violations are corrected. A hearing will be held prior to suspension or revocation if you file a petition for a hearing with the Office of Administrative Hearings, P. O. Drawer 27447, Raleigh, NC 27611-7447, in writing within the number of days specified above of your intent to attend the hearing. If you do not petition the Office of Administrative Hearings, the operation permit or certificate of completion will be suspended or revoked.

IMMEDIATE SUSPENSION OR REVOCATION OF PERMIT

This is to notify you of immediate suspension/revocation (*circle one*) of your operation permit/certificate of completion (*circle one*) for the following violations: _____
[Law or Rule(s)]

If suspended, the permit or certificate remains suspended until the violations are corrected. You will be notified of the day and location of a hearing on this suspension or revocation by a hearing officer from the Office of Administrative Hearings.

This the _____ day of _____, 19 ____.

_____ Agent
DIVISION OF ENVIRONMENTAL HEALTH

INSTRUCTIONS

Purpose: Article 11 of Chapter 130A requires the Commission for Health Services to adopt rules governing the design, construction, and operation of sanitary sewage systems. 15A NCAC 18A .1937 specifies that the local health department shall determine whether systems with an Operation Permit are operating properly at a frequency specified in Rule .1961, Table V(a), and that systems which exceed 3,000 gallons per day and other systems which are required to be designed by a professional engineer shall be reinspected annually. This form is developed to be used in making inspections of engineered subsurface sewage systems.

Preparation: Local environmental health specialists shall complete the form every time they conduct an inspection. Prepare an original and two copies for:

1. Original to be left with the responsible person.
2. Copy for the local health department.
3. Copy for the Environmental Health Services Section, Division of Environmental Health.

In the event the permit is suspended or revoked, complete the portion above.

Disposition: This form may be destroyed in accordance with Standard 7, Inspection Records, of the *Records Disposition Schedule* published by the N. C. Division of Archives and History.

Additional forms may be ordered from:
Environmental Health Services Section
Division of Environmental Health
P. O. Box 27687
Raleigh, NC 27611-7687
(Courier 52-01-00)

INSPECTION AND MAINTENANCE AGREEMENT

STATE OF NORTH CAROLINA
COUNTY OF MECKLENBURG

THIS AGREEMENT is made and entered into this 1st day of November, 1999, by and between Mecklenburg County Engineering Department (hereinafter the "Owner") and Tri-County Wastewater Management (hereinafter the "Contractor").

WITNESSETH

WHEREAS, the Owner owns or controls the property upon which a ground absorption sewage treatment system (hereinafter "system") is installed, such system being designated a Type IV system under the Rules for Sanitary Sewage Collection, Treatment and Disposal found at 15A N.C. Admin. Code 18A.1900 et seq.; and

WHEREAS, 15A N.C. Admin. Code 18A.1961 requires a contract to be executed between the system owner and a management entity prior to the issuance of an Operation Permit for said system; and

WHEREAS, 15A N.C. Admin. Code 18A.1961 requires that a condition of the Operation Permit for said system be that a properly executed contract between the system owner and a management entity shall be in effect for as long as the system is in use; and

WHEREAS, the Contractor is a management entity of a type authorized by 15A N.C. Admin. Code 18A.1961 to manage a Type IV system.

NOW THEREFORE, in consideration of the premises and of the mutual covenants and promises contained in this Agreement, it is hereby agreed by and between the Owner and the Contractor as stipulated below.

1. The Contractor's Obligations. The Contractor shall have performed the following services on the Owner's system located at Compost Central, Charlotte, NC.

a. The Contractor shall have an inspection of the system performed twice a year in accordance with Table V(b) of 15A N.C. Admin. Code 18A.1961(b) for a Type IV System.

b. The Contractor shall have performed the following routine maintenance procedures in accordance with the conditions of the Operation Permit:

(1) [see attachments]

c. The Contractor shall report the results of its inspections to the local health department at the frequency specified in Table V(b) of 15A N.C. Admin. Code 18A.1961(b) for a Type IV System.

d. If an inspection indicates the need for system repairs, the Contractor shall notify the local health department within 48 hours of the inspection.

e. The Contractor shall notify the Owner of needed repairs which are outside of the scope of routine maintenance described in subparagraph (b) above. The Contractor shall perform necessary repairs to the system at the request of the Owner and shall be entitled to payment therefor at the Contractor's normal charge for services and materials.

f. If the Contract is terminated by the Contractor prior to both inspections being completed during a year the annual fee will be pro rated and refunded to the Owner. If any monies are owed to the Contractor by the Owner for any work performed to the system, the refund for cancellation will be deducted.

g. The Contractor shall employ or contract with a Certified Operator to perform the maintenance procedures if required by table V(b) of 15A N.C. Admin. Code 18A.1961(b) for a Type IV System.

h. If the Contractor makes a change in Certified Operators, the Contractor shall notify the local health department within 48 hours of the change and will have a replacement within thirty (30) days.

2. The Owner's Obligations.

a. The Owner shall pay to the Contractor the sum of $300.00 per year for periodic inspections, routine maintenance procedures and periodic reports. The initial annual fee is payable upon the execution of the contract. Annual billings will be made thereafter and payable within fifteen (15) days of billing. The annual fee may be amended upon sixty (60) days advance notice to the Owner. The Owner shall pay to the Contractor his normal and customary fees for any work performed on the system as a result of nonscheduled service or maintenance calls. These fees are due and payable within fifteen (15) days of billing. Payments due to the Contractor and unpaid by the Owner after fifteen (15) days shall accrue interest from the due date until paid at a rate of 1.5 percent per month.

b. Within thirty (30) days of receipt of notice of needed repairs pursuant to paragraph 1.e. above, the Owner shall request the Contractor to complete needed repairs or shall provide to the Contractor evidence that the needed repairs were satisfactorily completed by another entity.

c. The Owner shall provide the Contractor with such access to the system as is reasonably necessary for the Contractor to comply with the terms of this Agreement.

3. Term. This Agreement shall remain in effect until terminated.

a. Automatic Termination.
This agreement shall automatically terminate if the Operation Permit for the system is revoked and all appeals of the revocation are exhausted or time for taking an appeal has passed.

b. Automatic Termination for Cause.
This agreement shall automatically terminate if the Owner fails to pay any fees or charges to the Contractor within the terms specified in paragraph 2.a.

c. Termination by Mutual Consent.
The Parties may mutually agree to terminate this Agreement by giving written notice of termination by mutual consent to the local health department thirty (30) days in advance of the date of termination.

d. Termination by the Owner.
The Owner may terminate this Agreement by giving written notice to the Contractor and to the local health department thirty (30) days in advance of the date of termination.

e. Termination by the Contractor.
The Contractor may terminate this Agreement by giving written notice to the Owner and to the local health department thirty (30) days in advance of the date of termination.

4. Assignment.

a. Assignment by the Owner. The Owner shall notify the Contractor of the name and address of any purchaser of the property on which the system is located. The Owner shall also notify any purchaser of the property on which the system is located of the existence of this Agreement and shall assign all rights and duties under this Agreement to said purchaser.

b. Assignment by the Contractor. The Contractor may assign its rights and duties under this Agreement to another management entity which is qualified pursuant to 15A N.C. Admin. Code 18A.1961 to manage a Type IV system upon thirty (30) days written notice to the Owner and to the local health department.

5. Use of Subcontractors. The Contractor may subcontract with such manufacturers, suppliers and contractors as it deems desirable to perform any of the Contractor's duties under this Agreement. The Contractor shall at all times remain responsible for the performance of and payment for all work performed by all subcontractors.

6. Representations. The Parties represent to each other that each has the power, authority and legal right to enter into and perform its obligations as set forth in this Agreement.

7. Regulatory Amendments. References in this Agreement to sections of the Administrative Code shall include such rules as they may be amended in the future.

8. No Implied Waiver. The waiver by either Party of a default of a breach by the other Party of any provision of this Agreement shall not operate or be construed to operate as a waiver of any subsequent default or breach. The failure at any time of either Party to enforce any provision of this Agreement (a) shall not be construed to be a waiver of such provisions, or of any other provision; and (b) shall not in any way affect the validity of this Agreement, or any part of this Agreement, or the right of either Party thereafter to enforce each and every provision of this Agreement.

9. Notice. Every notice required under this Agreement shall be in writing and shall be deemed sufficiently given if delivered in person or sent by certified or registered mail, return receipt requested, postage prepaid to the Party to be notified and addressed as follows:

To the Owner:
Joe Hack
Mecklenburg County Engineering Department
700 North Tryon Street
Charlotte,NC 28202

To the Owner:
Compost Central
Mecklenburg County Engineering Department
700 North Tryon Street
Charlotte, NC 28202

To the Contractor:
Tri-County Wastewater Management
8037 Fairview Road, Suite G, Charlotte, NC 28227

To the Local Health Department:
Mecklenburg County Environmental Health Department
700 N. Tryon St., Suite 211, Charlotte, NC 28202

The date of any Notice shall be the date of personal delivery or the date shown on the return receipt as the date of delivery or attempted delivery, as the case may be. Changes in the respective addresses to which notice may be directed may be made from time to time by either Party by notice to the other party.

10. Place of Agreement. This Agreement and any questions concerning its validity, construction or performance shall be governed by the laws of the State of North Carolina, notwithstanding the place of execution, or the order in which the signatures of the Parties are affixed.

11. Effective Date / Unoccupied Property. If the property is unoccupied at the time of the execution of this agreement, the effective date of this agreement may be changed to the date of occupancy with the mutual consent between all parties. This change resets the annual billing structure and the calender for periodic inspections. Fees that are paid upon the execution of this agreement will be held by the Contractor and applied at the date of the change. An attachment showing proof of the occupancy date must be provided by the Owner to the Contractor and the local health department at the time the change is to be made.

12. Entire Agreement and Amendment. This Agreement supersedes all prior negotiations, agreements and understandings between the Parties with respect to the subject matter hereof and constitutes the entire Agreement between the Parties with respect to the subject matter hereof. To be effective, any amendment or modification to this Agreement must be in writing and must be signed by the Parties.

13. Severability. In the event that any provision of this Agreement shall, for any reason, be determined to be invalid, illegal or unenforceable in any respect, the Parties shall negotiate in good faith and agree to such amendments, modifications or supplements of or to this Agreement or such other appropriate actions as shall, to the maximum extent practicable in light of such determination, implement and give effect to the intentions of the Parties as reflected in this Agreement, and the other provisions of this Agreement shall, as so amended, modified, supplemented or otherwise affected by such action, remain in full force and effect.

IN TESTIMONY WHEREOF, the Parties hereto have executed this Agreement in duplicate originals, one of which is retained by each of the Parties, the day and year first above written.

Carry Saul for Bobbie Sides
(Owner)

Attest:

Tim Banta
(Contractor)

Attest: Vicki Davis

Tim Banta
(Certified Operator)

Attest: Vicki Davis

(Office use only)

Change of effective date for unoccupied property:_____
(If applicable; refer to paragraph 11.)

(LPPCRNTC-05694)

MAINTENANCE PROCEDURES

1. Inspect ground cover and landscaping to insure proper water runoff over system.

2. SEPTIC TANK
   a. Check sludge depths yearly (if applicable). Recommendation will be made to have tank pumped when sludge depth comes within 8 inches of the bottom of the outlet tee.

3. PUMP TANK
   a. Inspect riser connection and conduit connections to make sure they are not allowing surface water into the pump tank.
   b. Activate the pump to insure that it is functional.
   c. Inspect and test all float switches to insure that they are functional.
   d. Activate and test all components of the alarm system including high water alarm float, control box, audible and visible alarms.
   e. Add water if necessary to test pumping controls, pump, piping, and all components of the pumping system. Measure and record draw down and calculate dosing volume and running time of the pump. Adjust float controls, if necessary, to achieve specified gallons/dose.
   f. Inspect pump tank for sludge. Pump tank shall be pumped out if 6 inches of sludge are present.

4. DISTRIBUTION SYSTEM
   a. Activate system and check for any breaks or cracks in supply manifold, distribution manifold, pipe connections, valves or valve connections, lateral piping, and turn-ups.
   b. Check lines for correct pressure head.
   c. Check caps on clean-out connections and stand pipes.
   d. Inspect all valve boxes and protective sleeves of turn-ups.
   e. Cut off and cap turn-ups after initial six weeks of use as prescribed in permit (if applicable).

5. Inspect all required curtain, interceptor, or french drains to insure that they are functioning as designed to insure proper water runoff around system.

6. SPECIAL CONDITIONS:
No special conditions noted.

BW.



MECK COUNTY DEPARTMENT OF
RECEIVED
NOV 26 1991
ENVIRONMENTAL PROTECTION

State of North Carolina
Department of Environment, Health, and Natural Resources
Mooresville Regional Office

James G. Martin, Governor
William W. Cobey, Jr., Secretary

Albert F. Hilton, Regional Manager

DIVISION OF ENVIRONMENTAL MANAGEMENT

November 19, 1991

Mr. Bobbie Shields, Director of Engineering
Mecklenburg County
700 North Tryon Street
Charlotte, North Carolina 28202

Subject: Permit No. WQ0005617
Central Yard Waste Processing
Subsurface Disposal
Mecklenburg County

Dear Mr. Shields:

This letter is to inform you that Mr. Allen Hardy with this Office performed an as-built inspection on November 18, 1991 of the subject facility.

The facilities appear to have been properly constructed in accordance with the approved plans and specifications with the exception of some minor changes which should be submitted on as-built plans. Therefore, use of these facilities can begin under the terms and conditions of the Permit.

If you have any questions, please contact Mr. Allen Hardy or me at this Office.

Sincerely,

for D. Rex Gleason, P. E.
Water Quality Regional Supervisor

cc: Mecklenburg County Health Department

WAH:wah

919 North Main Street, Mooresville, N.C. 28115 • Telephone 704-663-1699 • FAX 704-663-6040

An Equal Opportunity Affirmative Action Employer

File

State of North Carolina
Department of Environment, Health, and Natural Resources
Mooresville Regional Office

James G. Martin, Governor
William W. Cobey, Jr., Secretary

Albert F. Hilton, Regional Manager

DIVISION OF ENVIRONMENTAL MANAGEMENT

November 19, 1991

Mr. Bobbie Shields, Director of Engineering
Mecklenburg County
700 North Tryon Street
Charlotte, North Carolina 28202

Subject: Permit No. WQ0005617
Central Yard Waste Processing
Subsurface Disposal
Mecklenburg County

Dear Mr. Shields:

This letter is to inform you that Mr. Allen Hardy with this Office performed an as-built inspection on November 18, 1991 of the subject facility.

The facilities appear to have been properly constructed in accordance with the approved plans and specifications with the exception of some minor changes which should be submitted on as-built plans. Therefore, use of these facilities can begin under the terms and conditions of the Permit.

If you have any questions, please contact Mr. Allen Hardy or me at this Office.

Sincerely,

for D. Rex Gleason, P. E.
Water Quality Regional Supervisor

cc: Mecklenburg County Health Department

WAH:wah

919 North Main Street, Mooresville, N.C. 28115 • Telephone 704-663-1699 • FAX 704-663-6040

An Equal Opportunity Affirmative Action Employer

Post-It™ brand fax transmittal memo 7671	# of pages ▸ 1
To STEVE KELNER	From REX GLEASON
Co. MECK. Co. ENG.	Co. DEM/MRO
Dept.	Phone #
Fax # 704/336-3846	Fax # 704/663-6040

Faxed to Steve Kelner 10/16/91 DRG

DIVISION OF ENVIRONMENTAL MANAGEMENT

October 16, 1991

MEMORANDUM TO: Steve Kelner

FROM: D. Rex Gleason DRG

SUBJECT: Central Yard Waste Processing Facility
Permit Application No. WQ0005617
Mecklenburg County

This Office is aware that the Building Permits Section of Mecklenburg County will not allow a mobile unit to be placed on the subject site until after the issuance of the subject Permit. This Office has recommended that the Permit be issued and efforts are being made by this Office to expedite its issuance. In the interim, this Office has no objections to placement of the mobile unit on the site along with appropriate appurtenances. Please be advised that construction of wastewater treatment facilities shall not begin until the subject Permit has been issued.

If this Office may be of further assistance, please advise.

WAH:se

N. C. DEPT. OF NATURAL
RESOURCES AND
COMMUNITY DEVELOPMENT

NOV 2 5 1991

DIVISION OF ENVIRONMENTAL MANAGEMENT
MOORESVILLE REGIONAL OFFICE

State of North Carolina
Department of Environment, Health and Natural Resources
Division of Environmental Management
512 North Salisbury Street • Raleigh, North Carolina 27611

James G. Martin, Governor
William W. Cobey, Jr., Secretary

George T. Everett, Ph.D
Director

November 12, 1991

Mr. Bobbie Shields, Director of Engineering
Mecklenburg County
700 North Tryon Street
Charlotte, North Carolina 28202

RECEIVED
NOV 15 1991
GROUNDWATER SECTION
RALEIGH, NC

Subject: Permit No. WQ0005617
Mecklenburg County
Central Yard Waste Processing
Subsurface Disposal System
Mecklenburg County

Dear Mr. Shields:

In accordance with your application received September 16, 1991, we are forwarding herewith Permit No. WQ0005617, dated November 12, 1991, to Mecklenburg County for the construction and operation of a 275 GPD subsurface wastewater disposal system.

This permit shall be effective from the date of issuance until rescinded, and shall be subject to the conditions and limitations as specified therein. Please pay particular attention to the monitoring requirements in this permit. Failure to establish an adequate system for collecting and maintaining the required operational information will result in future compliance problems.

If any parts, requirements, or limitations contained in this permit are unacceptable to you, you have the right to request an adjudicatory hearing upon written request within 30 days following receipt of this permit. This request must be in the form of a written petition, conforming to Chapter 150B of North Carolina General Statutes, and filed with the Office of Administrative Hearings, P.O. Drawer 27447, Raleigh, NC 27611-7447. Unless such demands are made this permit shall be final and binding.

One set of approved plans and specifications is being forwarded to you. If you need additional information concerning this matter, please contact Ms. Angela Y. Griffin at 919/ 733-5083.

Sincerely,

George T. Everett

cc: Mecklenburg County Health Department
Mooresville Regional Office
Groundwater Section
Training and Certification
Mecklenburg County Engineering Department

NORTH CAROLINA

ENVIRONMENTAL MANAGEMENT COMMISSION

DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES

RALEIGH

SUBSURFACE DISPOSAL SYSTEM PERMIT

In accordance with the provisions of Article 21 of Chapter 143, General Statutes of North Carolina as amended, and other applicable Laws, Rules, and Regulations

PERMISSION IS HEREBY GRANTED TO

Mecklenburg County
Mecklenburg County

FOR THE

construction and operation of a 275 GPD subsurface wastewater disposal system consisting of a 1,500 gallon septic tank, 1,000 gallon pump tank, distribution box and 360 linear feet of 4-inch nitrification line to serve the employees of the Mecklenburg County Central Yard Waste Processing Facility with no discharge of wastes to the surface waters, pursuant to the application received September 16, 1991 and in conformity with the project plan, specifications, and other supporting data subsequently filed and approved by the Department of Environment, Health and Natural Resources and considered a part of this permit.

This permit shall be effective from the date of issuance until rescinded, and shall be subject to the following specified conditions and limitations:

I. PERFORMANCE STANDARDS

1. Upon completion of construction and prior to operation of this permitted facility, a certification must be received from a professional engineer certifying that the permitted facility has been installed in accordance with this permit, the approved plans and specifications. Mail the Certification to the Permits and Engineering Unit, P.O. Box 29535, Raleigh, NC 27626-0535.

2. The Mooresville Regional Office, phone no. (704) 663-1699, shall be notified at least forty-eight (48) hours in advance of backfilling of the installed facilities so that an in-place inspection can be made. Such notification to the regional supervisor shall be made during the normal office hours from 8:00 a.m. until 5:00 p.m. on Monday through Friday, excluding State Holidays.

3. In the event that the facilities fail to perform satisfactorily, including the creation of nuisance conditions, the Permittee shall take immediate corrective action, including those as may be required by this Division, such as construction of additional or replacement wastewater treatment or disposal facilities.

4. The issuance of this permit shall not relieve the Permittee of the responsibility for damages to surface or groundwaters resulting from the operation of this facility.

5. This permit shall become voidable if the soils fail to adequately absorb the wastes and may be rescinded unless the facilities are installed, maintained, and operated in a manner which will protect the assigned water quality standards of the surface waters and ground waters.

6. Adequate measures shall be taken to divert stormwater from the disposal area and prevent wastewater runoff from the subsurface disposal field.

7. The sludge generated from these treatment facilities must be disposed of in accordance with General Statute 143-215.1 and in a manner approved by the North Carolina Division of Environmental Management.

8. A usable reserve area shall be maintained for wastewater disposal. The reserve area shall have the capability of accommodating the average daily flow of the facility being served without exceeding the loading rates of the reserve area while meeting all required buffer requirements.

9. Diversion or bypassing of the untreated wastewater from the treatment facilities is prohibited.

10. The following buffers shall be maintained:

    a) 100 feet between disposal area and any public or private water supply including wells
    b) 100 feet between disposal area and "SA and SB" classified surface waters
    c) 50 feet between disposal area and any stream, lake, river or natural drainageway
    d) 50 feet between disposal area and property lines
    e) 10 feet between disposal area and surface water interceptor drains or diversions (upslope)
    f) 25 feet between disposal area and surface water interceptor drains or diversions (downslope) and groundwater drainage systems.

11. A leakage test shall be performed on the septic tank and dosing tank to insure that any exfiltration occurs at a rate which does not exceed twenty (20) gallons per twenty-four (24) hour per 1,000 gallons of tank capacity. The engineer's certification will serve as proof of compliance with this condition.

II. OPERATION AND MAINTENANCE REQUIREMENTS

1. The facilities shall be properly maintained and operated at all times.

2. The application rates to the disposal field shall not exceed 0.3 GPD/FT^2.

3. The facilities shall be effectively maintained and operated as a non-discharge system to prevent the discharge of any wastewater resulting from the operation of this facility.

4. No traffic or equipment shall be allowed on the disposal area except while installation occurs or while normal maintenance is being performed.

5. A suitable cover shall be maintained on the disposal area and the disposal area shall be routinely mowed. The clippings shall be periodically removed to prevent the build-up of thatch.

III. MONITORING AND REPORTING REQUIREMENTS

1. Any monitoring deemed necessary by the Division of Environmental Management to insure surface and ground water protection will be established and an acceptable sampling reporting schedule shall be followed.

2. The nitrification lines shall be maintained as necessary (including purging of the lines) in order to ensure that they remain free of obstructing materials. Adequate records showing all maintenance shall be maintained by the Permittee.

3. A record shall be maintained of all residuals removed from this facility. This record shall include the name of the hauler, permit authorizing the disposal or a letter from a municipality agreeing to accept the residuals, date the residuals were hauled, and volume of residuals removed.

4. Noncompliance Notification:

The Permittee shall report by telephone to the Mooresville Regional Office, telephone no. (704) 663-1699, as soon as possible, but in no case more than 24 hours or on the next working day following the occurrence or first knowledge of the occurrence of any of the following:

a. Any occurrence at the wastewater treatment facility which results in the treatment of significant amounts of wastes which are abnormal in quantity or characteristic, such as the dumping of the contents of a basin or tank; the known passage of a slug of hazardous substance through the facility; or any other unusual circumstances.

b. Any process unit failure, due to known or unknown reasons, that render the facility incapable of adequate wastewater treatment such as mechanical or electrical failures of pumps, aerators, compressors, etc.

c. Any failure of a pumping station, sewer line, or treatment facility resulting in a by-pass of all or any portion of the influent to such station or facility.

d. Any time that self-monitoring information indicates that the facility has gone out of compliance with its permit limitations.

Persons reporting such occurrences by telephone shall also file a written report in letter form within 15 days following first knowledge of the occurrence. This report must outline the actions taken or proposed to be taken to ensure that the problem does not recur.

IV. GROUNDWATER REQUIREMENTS

1. Any groundwater quality monitoring as deemed necessary by the Division of Environmental Management shall be provided.

V. INSPECTIONS

1. Adequate inspection, maintenance, and cleaning shall be provided by the Permittee to insure proper operation of the subject facilities.

2. The Permittee or his designee shall inspect the wastewater treatment and disposal facilities to prevent malfunctions and deterioration, operator errors and discharges which may cause or lead to the release of wastes to the environment, a threat to human health, or a nuisance. The Permittee shall keep an inspection log or summary including at least the date and time of inspection, observations made, and any maintenance, repairs, or corrective actions taken by the Permittee. This log of inspections shall be maintained by the Permittee for a period of three years from the date of the inspection and shall be made available upon request to the Division of Environmental Management or other permitting authority.

3. Any duly authorized officer, employee, or representative of the Division of Environmental Management may, upon presentation of credentials, enter and inspect any property, premises or place on or related to the disposal site and facility at any reasonable time for the purpose of determining compliance with this permit; may inspect or copy any records that must be kept under the terms and conditions of this permit; or may obtain samples of groundwater, surface water, or leachate.

VI. GENERAL CONDITIONS

1. This permit shall become voidable unless the facilities are constructed in accordance with the conditions of this permit, the approved plans, specifications and other supporting data.

2. This permit is effective only with respect to the nature and volume of wastes described in the application and other supporting data.

3. This permit is not transferable. In the event there is desire for the facilities to change ownership, or there is a name change of the Permittee, a formal permit request must be submitted to the Division of Environmental Management accompanied by an application fee, documentation from the parties involved, and other supporting materials as may be appropriate. The approval of this request will be considered on its merits and may or may not be approved.

4. Prior to any transfer of this land, a notice shall be given to the new owner that gives full details of the materials applied or incorporated at this site.

5. A set of approved plans and specifications for the subject project must be retained by the applicant for the life of the project.

6. Failure to abide by the conditions and limitations contained in this permit may subject the Permittee to an enforcement action by the Division of Environmental Management in accordance with North Carolina General Statute 143-215.6A to 143-215.6C.

7. The subject wastewater treatment and disposal facilities shall be connected to an operational publicly owned wastewater collection system within 180 days of its availability to the subject facilities, if the subject wastewater treatment or disposal facilities are in noncompliance with the terms and conditions of this non-discharge permit or the governing statutes or regulations.

   Prior to the initiation of these connection activities, appropriate approval must be received from this Division.

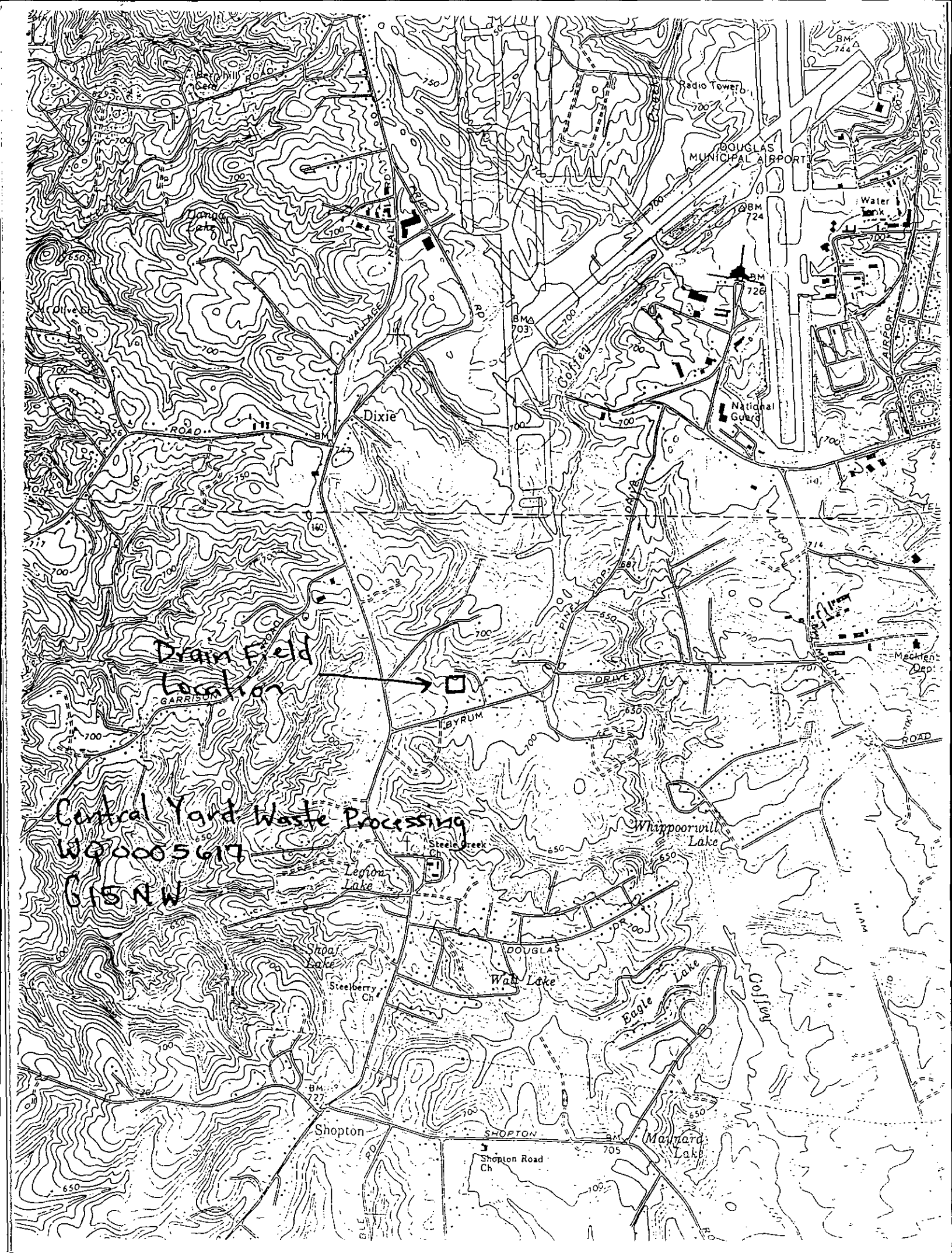
8. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances which may be imposed by other government agencies (local, state, and federal) which have jurisdiction.

Permit issued this the 12th day of November, 1991

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

George T. Everett, Director
Division of Environmental Management
By Authority of the Environmental Management Commission

Permit No. WQ0005617


Drain Field
Location
Central Yard Waste Processing
WQ0005617
G15NW
Dixie
Douglas Municipal Airport
Radio Tower
Water Tank
National Guard
Steele Creek Ch
Legion Lake
Whippoorwill Lake
Shoal Lake
Steelberry Ch
Watt Lake
Eagle Lake
Maynard Lake
Shopton
Shopton Road Ch
Pinky Top
Coffey
Garrison Road
Byrum Drive
Douglas Dr
Shopton Rd
Airport
Mecklenburg Dep

N. C. DEPT. OF NATURAL
RESOURCES AND
COMMUNITY DEVELOPMENT

NOV 1 4 1991

DIVISION OF ENVIRONMENTAL MANAGEMENT
MOORESVILLE REGIONAL OFFICE

State of North Carolina
Department of Environment, Health and Natural Resources
Division of Environmental Management
512 North Salisbury Street • Raleigh, North Carolina 27611

James G. Martin, Governor
William W. Cobey, Jr., Secretary

George T. Everett, Ph.D
Director

November 12, 1991

Mr. Bobbie Shields, Director of Engineering
Mecklenburg County
700 North Tryon Street
Charlotte, North Carolina 28202

Subject: Permit No. WQ0005617
Mecklenburg County
Central Yard Waste Processing
Subsurface Disposal System
Mecklenburg County

Dear Mr. Shields:

In accordance with your application received September 16, 1991, we are forwarding herewith Permit No. WQ0005617, dated November 12, 1991, to Mecklenburg County for the construction and operation of a 275 GPD subsurface wastewater disposal system.

This permit shall be effective from the date of issuance until rescinded, and shall be subject to the conditions and limitations as specified therein. Please pay particular attention to the monitoring requirements in this permit. Failure to establish an adequate system for collecting and maintaining the required operational information will result in future compliance problems.

If any parts, requirements, or limitations contained in this permit are unacceptable to you, you have the right to request an adjudicatory hearing upon written request within 30 days following receipt of this permit. This request must be in the form of a written petition, conforming to Chapter 150B of North Carolina General Statutes, and filed with the Office of Administrative Hearings, P.O. Drawer 27447, Raleigh, NC 27611-7447. Unless such demands are made this permit shall be final and binding.

One set of approved plans and specifications is being forwarded to you. If you need additional information concerning this matter, please contact Ms. Angela Y. Griffin at 919/ 733-5083.

Sincerely,

George T. Everett

cc: Mecklenburg County Health Department
Mooresville Regional Office
Groundwater Section
Training and Certification
Mecklenburg County Engineering Department

NORTH CAROLINA

ENVIRONMENTAL MANAGEMENT COMMISSION

DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES

RALEIGH

SUBSURFACE DISPOSAL SYSTEM PERMIT

In accordance with the provisions of Article 21 of Chapter 143, General Statutes of North Carolina as amended, and other applicable Laws, Rules, and Regulations

PERMISSION IS HEREBY GRANTED TO

Mecklenburg County
Mecklenburg County

FOR THE

construction and operation of a 275 GPD subsurface wastewater disposal system consisting of a 1,500 gallon septic tank, 1,000 gallon pump tank, distribution box and 360 linear feet of 4-inch nitrification line to serve the employees of the Mecklenburg County Central Yard Waste Processing Facility with no discharge of wastes to the surface waters, pursuant to the application received September 16, 1991 and in conformity with the project plan, specifications, and other supporting data subsequently filed and approved by the Department of Environment, Health and Natural Resources and considered a part of this permit.

This permit shall be effective from the date of issuance until rescinded, and shall be subject to the following specified conditions and limitations:

I. PERFORMANCE STANDARDS

1. Upon completion of construction and prior to operation of this permitted facility, a certification must be received from a professional engineer certifying that the permitted facility has been installed in accordance with this permit, the approved plans and specifications. Mail the Certification to the Permits and Engineering Unit, P.O. Box 29535, Raleigh, NC 27626-0535.

2. The Mooresville Regional Office, phone no. (704) 663-1699, shall be notified at least forty-eight (48) hours in advance of backfilling of the installed facilities so that an in-place inspection can be made. Such notification to the regional supervisor shall be made during the normal office hours from 8:00 a.m. until 5:00 p.m. on Monday through Friday, excluding State Holidays.

3. In the event that the facilities fail to perform satisfactorily, including the creation of nuisance conditions, the Permittee shall take immediate corrective action, including those as may be required by this Division, such as construction of additional or replacement wastewater treatment or disposal facilities.

4. The issuance of this permit shall not relieve the Permittee of the responsibility for damages to surface or groundwaters resulting from the operation of this facility.

5. This permit shall become voidable if the soils fail to adequately absorb the wastes and may be rescinded unless the facilities are installed, maintained, and operated in a manner which will protect the assigned water quality standards of the surface waters and ground waters.

6. Adequate measures shall be taken to divert stormwater from the disposal area and prevent wastewater runoff from the subsurface disposal field.

7. The sludge generated from these treatment facilities must be disposed of in accordance with General Statute 143-215.1 and in a manner approved by the North Carolina Division of Environmental Management.

8. A usable reserve area shall be maintained for wastewater disposal. The reserve area shall have the capability of accommodating the average daily flow of the facility being served without exceeding the loading rates of the reserve area while meeting all required buffer requirements.

9. Diversion or bypassing of the untreated wastewater from the treatment facilities is prohibited.

10. The following buffers shall be maintained:

    a) 100 feet between disposal area and any public or private water supply including wells
    b) 100 feet between disposal area and "SA and SB" classified surface waters
    c) 50 feet between disposal area and any stream, lake, river or natural drainageway
    d) 50 feet between disposal area and property lines
    e) 10 feet between disposal area and surface water interceptor drains or diversions (upslope)
    f) 25 feet between disposal area and surface water interceptor drains or diversions (downslope) and groundwater drainage systems.

11. A leakage test shall be performed on the septic tank and dosing tank to insure that any exfiltration occurs at a rate which does not exceed twenty (20) gallons per twenty-four (24) hour per 1,000 gallons of tank capacity. The engineer's certification will serve as proof of compliance with this condition.

II. OPERATION AND MAINTENANCE REQUIREMENTS

1. The facilities shall be properly maintained and operated at all times.

2. The application rates to the disposal field shall not exceed 0.3 GPD/FT^2.

3. The facilities shall be effectively maintained and operated as a non-discharge system to prevent the discharge of any wastewater resulting from the operation of this facility.

4. No traffic or equipment shall be allowed on the disposal area except while installation occurs or while normal maintenance is being performed.

5. A suitable cover shall be maintained on the disposal area and the disposal area shall be routinely mowed. The clippings shall be periodically removed to prevent the build-up of thatch.

III. MONITORING AND REPORTING REQUIREMENTS

1. Any monitoring deemed necessary by the Division of Environmental Management to insure surface and ground water protection will be established and an acceptable sampling reporting schedule shall be followed.

2. The nitrification lines shall be maintained as necessary (including purging of the lines) in order to ensure that they remain free of obstructing materials. Adequate records showing all maintenance shall be maintained by the Permittee.

3. A record shall be maintained of all residuals removed from this facility. This record shall include the name of the hauler, permit authorizing the disposal or a letter from a municipality agreeing to accept the residuals, date the residuals were hauled, and volume of residuals removed.

4. Noncompliance Notification:

The Permittee shall report by telephone to the Mooresville Regional Office, telephone no. (704) 663-1699, as soon as possible, but in no case more than 24 hours or on the next working day following the occurrence or first knowledge of the occurrence of any of the following:

a. Any occurrence at the wastewater treatment facility which results in the treatment of significant amounts of wastes which are abnormal in quantity or characteristic, such as the dumping of the contents of a basin or tank; the known passage of a slug of hazardous substance through the facility; or any other unusual circumstances.

b. Any process unit failure, due to known or unknown reasons, that render the facility incapable of adequate wastewater treatment such as mechanical or electrical failures of pumps, aerators, compressors, etc.

c. Any failure of a pumping station, sewer line, or treatment facility resulting in a by-pass of all or any portion of the influent to such station or facility.

d. Any time that self-monitoring information indicates that the facility has gone out of compliance with its permit limitations.

Persons reporting such occurrences by telephone shall also file a written report in letter form within 15 days following first knowledge of the occurrence. This report must outline the actions taken or proposed to be taken to ensure that the problem does not recur.

IV. GROUNDWATER REQUIREMENTS

1. Any groundwater quality monitoring as deemed necessary by the Division of Environmental Management shall be provided.

V. INSPECTIONS

1. Adequate inspection, maintenance, and cleaning shall be provided by the Permittee to insure proper operation of the subject facilities.

2. The Permittee or his designee shall inspect the wastewater treatment and disposal facilities to prevent malfunctions and deterioration, operator errors and discharges which may cause or lead to the release of wastes to the environment, a threat to human health, or a nuisance. The Permittee shall keep an inspection log or summary including at least the date and time of inspection, observations made, and any maintenance, repairs, or corrective actions taken by the Permittee. This log of inspections shall be maintained by the Permittee for a period of three years from the date of the inspection and shall be made available upon request to the Division of Environmental Management or other permitting authority.

3. Any duly authorized officer, employee, or representative of the Division of Environmental Management may, upon presentation of credentials, enter and inspect any property, premises or place on or related to the disposal site and facility at any reasonable time for the purpose of determining compliance with this permit; may inspect or copy any records that must be kept under the terms and conditions of this permit; or may obtain samples of groundwater, surface water, or leachate.

VI. GENERAL CONDITIONS

1. This permit shall become voidable unless the facilities are constructed in accordance with the conditions of this permit, the approved plans, specifications and other supporting data.

2. This permit is effective only with respect to the nature and volume of wastes described in the application and other supporting data.

3. This permit is not transferable. In the event there is desire for the facilities to change ownership, or there is a name change of the Permittee, a formal permit request must be submitted to the Division of Environmental Management accompanied by an application fee, documentation from the parties involved, and other supporting materials as may be appropriate. The approval of this request will be considered on its merits and may or may not be approved.

4. Prior to any transfer of this land, a notice shall be given to the new owner that gives full details of the materials applied or incorporated at this site.

5. A set of approved plans and specifications for the subject project must be retained by the applicant for the life of the project.

6. Failure to abide by the conditions and limitations contained in this permit may subject the Permittee to an enforcement action by the Division of Environmental Management in accordance with North Carolina General Statute 143-215.6A to 143-215.6C.

7. The subject wastewater treatment and disposal facilities shall be connected to an operational publicly owned wastewater collection system within 180 days of its availability to the subject facilities, if the subject wastewater treatment or disposal facilities are in noncompliance with the terms and conditions of this non-discharge permit or the governing statutes or regulations.

   Prior to the initiation of these connection activities, appropriate approval must be received from this Division.

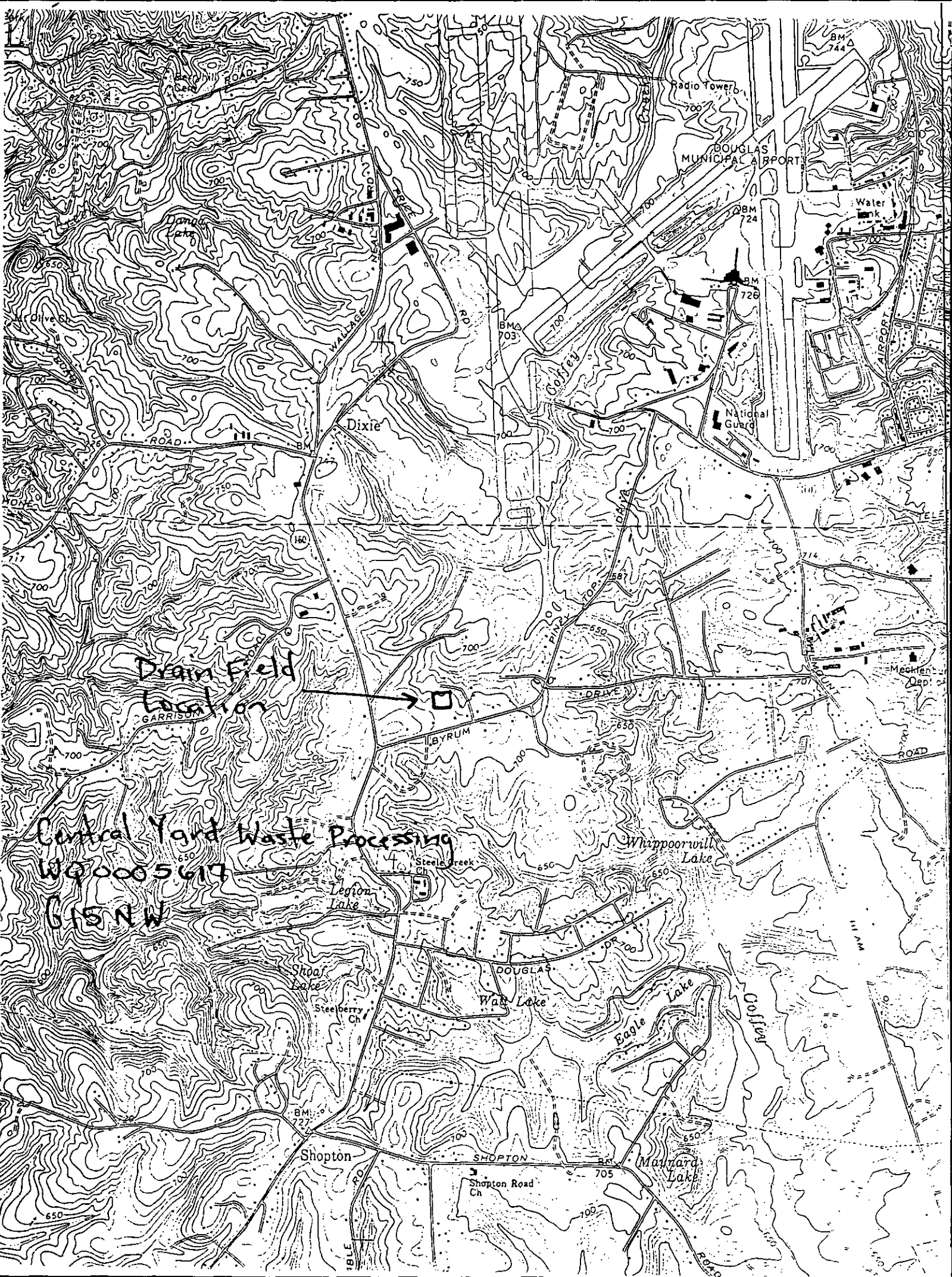
8. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances which may be imposed by other government agencies (local, state, and federal) which have jurisdiction.

Permit issued this the 12th day of November, 1991

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

George T. Everett, Director
Division of Environmental Management
By Authority of the Environmental Management Commission

Permit No. WQ0005617


Drain Field
Location
Central Yard Waste Processing
WQ0005617
GISNW
Dixie
Shopton
Steele Creek Ch
Steelberry Ch
Shopton Road Ch
Legion Lake
Shoal Lake
Wall Lake
Eagle Lake
Maynard Lake
Whippoorwill Lake
Coffey
DOUGLAS MUNICIPAL AIRPORT
Radio Tower
Water Tank
National Guard
Meckl Dept
BM 744
BM 724
BM 726
BM 703
BM 727
BM 705
ROAD
DRIVE
TRAIL
AIRPORT

State of North Carolina
Department of Environment, Health and Natural Resources
Division of Environmental Management
512 North Salisbury Street • Raleigh, North Carolina 27604

James G. Martin, Governor
William W. Cobey, Jr., Secretary

A. Preston Howard, Jr., P.E.
Acting Director

Regional Offices

Asheville
704/251-6208

Fayetteville
919/486-1541

Mooresville
704/663-1699

Raleigh
919/571-4700

Washington
919/946-6481

Wilmington
919/395-3900

Winston-Salem
919/896-7007

November 6, 1992

BOBBIE SHIELDS
MECKLENBURG CO-CENTRAL YARD
700 N. TRYON ST.
CHARLOTTE, NC 28202

SUBJECT: PERMIT NO. WQ0005617
Subsurface Wastewater Treatment
& Disposal System
MECKLENBURG CO-CENTRAL YARD
MECKLENBURG COUNTY

Dear Permittee:

The Division of Environmental Management issued the subject permit on 11/12/91 for the construction and/or operation of a subsurface wastewater treatment and disposal system. This Division processed a nondischarge permit under the jurisdiction of North Carolina General Statutes 143-215.1 and 130A-335 and North Carolina Administrative Code Section 15 NCAC 2H .0200; "Waste Not Discharged to Surface Waters" which was issued until rescinded.

On July 14, 1992, House Bill 1545 was ratified in the North Carolina General Assembly which transferred the authority for the plan review, permit issuance and compliance monitoring of most Environmental Management Commission subsurface wastewater treatment and disposal systems, whose staff body is the Division of Environmental Management, to the Commission for Health Services through the local health departments and the Division of Environmental Health. Under this new authority, the nondischarge permit for the wastewater treatment and disposal system under Permit No WQ0005617 is now under the jurisdiction of the MECKLENBURG County Health Department and the Division of Environmental Health. Under this new authority, any renewal requests, or requests for modifications, upgrades or repairs of this system will now be reviewed and processed by the MECKLENBURG County Health Department.

If you have any questions concerning this matter, please contact Ms. Carolyn McCaskill, Supervisor, State Engineering Review Group with the Division of Environmental Management at (919) 733-5083, Mr. Steven Berkowitz, P.E., On Site Wastewater Engineering Branch with the Division of Environmental Health at (919) 733-2895 or the MECKLENBURG County Health Department.

Sincerely,

Carolyn D. McCaskill for

A. Preston Howard, Jr., P.E.

cc: MECKLENBURG County Health Department
Mooresville Regional Office, Water Quality Section
Mooresville Regional Office, Groundwater Section
Groundwater Section, Jack Floyd
Mr. Steven Berkowitz, P.E., Division of Environmental Health
Ms. Carolyn McCaskill, Division of Environmental Management

File

State of North Carolina
Department of Environment, Health, and Natural Resources
Mooresville Regional Office

James G. Martin, Governor
William W. Cobey, Jr., Secretary

Albert F. Hilton, Regional Manager

DIVISION OF ENVIRONMENTAL MANAGEMENT

November 18, 1991

Mr. Bobbie Shields, Director of Engineering
Mecklenburg County
700 North Tryon Street
Charlotte, North Carolina 28202

Subject: Permit No. WQ0005617
Central Yard Waste Processing
Subsurface Disposal System
Mecklenburg County

Dear Mr. Shields:

Our records show that Permit No. WQ0005617 was issued on November 12, 1991 for your non-discharge wastewater treatment facility. The purpose of this letter is to advise you of the importance of the Permit and the liabilities in the event of failure to comply with the terms and conditions of the Permit. If you have not already done so, it is requested that you and other appropriate employees thoroughly read the Permit.

The Permit sets forth specific performance standards, operation and maintenance requirements, monitoring requirements, plus general conditions applicable to non-discharge permits. Failure to comply with the terms and conditions of the Permit subjects the Permittee to enforcement action pursuant to Section 143-215.6 of the North Carolina General Statutes in the form of civil or criminal penalties.

Please note that the subject Permit is effective from the date of issuance until rescinded. Also the Permit is non-transferable until such time that the Permittee has requested a name change to the new Permittee.

As mentioned previously, the purpose of this letter is to advise you of the importance of your Permit. Please read the Permit and contact this Office at 704/663-1699 in

Mooresville if you have any questions or need clarification. We look forward to providing any assistance.

Sincerely,

D. Rex Gleason

D. Rex Gleason, P. E.
Water Quality Regional Supervisor

State of North Carolina
Department of Environment, Health and Natural Resources
Division of Environmental Management
512 North Salisbury Street • Raleigh, North Carolina 27611
James G. Martin, Governor
William W. Cobey, Jr., Secretary
George T. Everett,Ph.D.
Director

September 20, 1991

MR BOBBIE SHIELDS
MECKLENBURG COUNTY
700 N. TRYON ST.
CHARLOTTE, NORTH CAROLINA 28202

N. C. DEPT. OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
SEP 25 1991
DIVISION OF ENVIRONMENTAL MANAGEMENT
MOORESVILLE REGIONAL OFFICE

Subject: Application No. WQOOO5617
Central Yard Waste Processing
Subsurface Disposal
Mecklenburg County

Dear MR SHIELDS:

The Division's Permits and Engineering Unit acknowledges receipt of your permit application and supporting materials on September 16, 1991. This application has been assigned the number shown above. Please refer to this number when making inquiries on this project.

Your project has been assigned to Angela Griffin for a detailed engineering review. A technical acknowledgement will be forthcoming. If this acknowledgement is not received within thirty (30) days, please contact the engineer listed above.

Be aware that the Division's regional office, copied below, must provide recommendations from the Regional Supervisor or a Procedure Four Evaluation for this project, prior to final action by the Division.

If you have any questions, please contact Angela Griffin at (919) 733-5083.

Sincerely,

Donald Safrit, P.E.
Supervisor, Permits and Engineering Unit

cc: Mooresville Regional Office
Mecklenburg Co. Engineering Dept.

N. C. DEPT. OF NATURAL
RESOURCES AND
COMMUNITY DEVELOPMENT

SEP 1 1 1991

DIVISION OF ENVIRONMENTAL MANAGEMENT
MOORESVILLE REGIONAL OFFICE

State of North Carolina
Department of Environment, Health and Natural Resources
Division of Environmental Management
512 North Salisbury Street • Raleigh, North Carolina 27611

James G. Martin, Governor
William W. Cobey, Jr., Secretary

George T. Everett, Ph.D.
Director

September 9, 1991

Mr. David Morton, Project Mgr.
Mecklenburg County
700 North Tryon Street
Chrlotte, North Carolina 28202

Subject: Return of Incomplete Application
Central Yard
Mecklenburg County

Dear Mr. Morton:

In accordance with Division policy, we must hereby return as incomplete the attached applications materials received _____, 1991. It lacks the following items:

- ___ Three sets of all copies and specifications signed and sealed by a professional engineer.
- ✓ Completed and signed application form. Pg. 7 must be completed by Regional Office prior to submittal.
- ___ Gravity sewer or pump station checklist (copy enclosed).
- ___ Letter of flow acceptance.
- ___ Operational Agreement for private sewers serving multi-family dwellings.
- ___ Permit application fee of _____.
- ✓ Subsurface evaluation/soil scientist's report for surface and subsurface waste disposal permits, including loading rate calculations.
- ___ Waste Analyses and EP Toxicity Analysis.
- ___ Land Owner's Agreement for sludge disposal applications.
- ___ Other items:

After you have obtained the checked items, you may resubmit your application for review. Please submit all the items returned to you and the checked items together. Should you have any questions, please contact Mr. Randy Jones or myself at (919) 733-5083.

Sincerely,

Randy Jones

for Carolyn D. McCaskill, Supervisor
State Engineering Review Group

cc: Mooresville Regional Office
SERG File

MECKLENBURG COUNTY

Engineering Department

N. C. DEPT. OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT

OCT 1 8 1991

DIVISION OF ENVIRONMENTAL MANAGEMENT
MOORESVILLE REGIONAL OFFICE

October 17, 1991

Mr. Rex Gleason, Regional Supervisor
North Carolina Natural
Resources Department
Water Quality Section
Post Office Box 950
Mooresville, North Carolina 28115

Dear Rex:

On behalf on Mecklenburg County and our engineering department, please accept my sincere thanks in expediting the permit for our Central Yard Waste Facility.

It was a key element in bringing on line in a timely manner, a major facility in the county's intensive commitments to recycling.

Sincerely yours,

Steve Kelner, Division Manager
Environmental Services & Maintenance

SK/vlt

cc: Bobbie Shields, Director of Engineering
Cary Saul, Deputy Director

File

To: Permits and Engineering Unit
Water Quality Section

Date: October 4, 1991

NON-DISCHARGE STAFF REPORT AND RECOMMENDATION
County: Mecklenburg
Permit No. WQ0005617

PART I - GENERAL INFORMATION

1. Facility and Address: Central Yard Waste Processing
Mecklenburg County
700 North Tryon Street
Charlotte, NC 28202

2. Date of Investigation: October 3, 1991

3. Report Prepared By: W. Allen Hardy, Environmental Engineer I

4. Persons Contacted and Telephone Number: David Morton, Project Manager, Mecklenburg County Engineering, (704) 336-2713

5. Directions to Site: From the intersection of Byrum Drive and Highway 160 (Steele Creek Rd) just south of the Charlotte-Douglas Airport, proceed east on Byrum Drive. Approximately 300 yards prior to the intersection of Byrum Drive and Piney Top Drive the site will be on the left approximately 200 yards off the road.

6. Disposal Site(s), List for all disposal sites:

Latitude: 35° 11' 32"
Longitude: 80° 57' 15"

Attach a USGS Map Extract and indicate treatment plant site and discharge point on map.

USGS Quad No.: G15NW USGS Quad Name: Charlotte West, NC

7. Size (land available for expansion and upgrading): The land available for expansion or upgrading of the treatment system appeared to be limited. The soil scientist for the Mecklenburg County Health Department reviewed the site and only found provisionally suitable soils in several small areas.

8. Topography (location map or topographic indicating relationship to 100 year flood plain included): The topography is gently rolling with slopes from 2-8%. The site did not appear to be in or near the flood plain.

9. Location of Nearest Dwelling and Water Supply Well: There were no dwellings or water supply wells within 500 feet of the proposed disposal field.

10. Watershed Stream Basin Information:

    a. Watershed Classification: Class C
    b. River Basin and Subbasin No.: Catawba 03-08-34
    c. Distance to surface water from disposal system: The disposal system was greater than 500 feet from surface waters.

PART II - DESCRIPTION OF DISCHARGE AND TREATMENT WORKS

1. Type of wastewater, sludge or contaminated soil:

    100% Domestic
    0% Industrial

    a. Volume: 0.000275 MGD (Design Capacity)
    b. Types and quantities of industrial wastewater: N/A
    c. Prevalent toxic constituents in wastewater: N/A
    d. Pretreatment Program (POTWs only): N/A

    in development — approved
    should be required — not needed

2. Production Rates (industrial discharges only) in Pounds Per Day: N/A

3. Description of Industrial Process (for industries only) and Applicable CFR Part and Subpart: N/A

4. Type of Treatment (specify whether proposed or existing): The proposed treatment consists of a 1500 gallon septic tank, 1000 gallon pump tank, distribution box and 360 linear feet of nitrification line.

5. Sludge Handling and Disposal Scheme: The county will hire a licensed septage hauler that has an agreement with the Charlotte Mecklenburg Utility Department to dispose of sludge in their sewer system.

6. Treatment Plant Classification: Less Than 5 Points; No Rating (include rating sheet). N/A

7. SIC Code(s): N/A
   Wastewater Code(s):

    Primary: 02
    Secondary:

PART III - OTHER PERTINENT INFORMATION

1. Is this facility being constructed with Construction Grant Funds (municipals only)? No

2. Special monitoring requests: No

3. Air Quality and/or Groundwater concerns or hazardous waste utilized at this facility that may impact water quality, air quality, or groundwater? No air or groundwater concerns are expected from this project, nor is hazardous waste utilized at this facility.

4. Other: N/A

PART IV - EVALUATION AND RECOMMENDATIONS

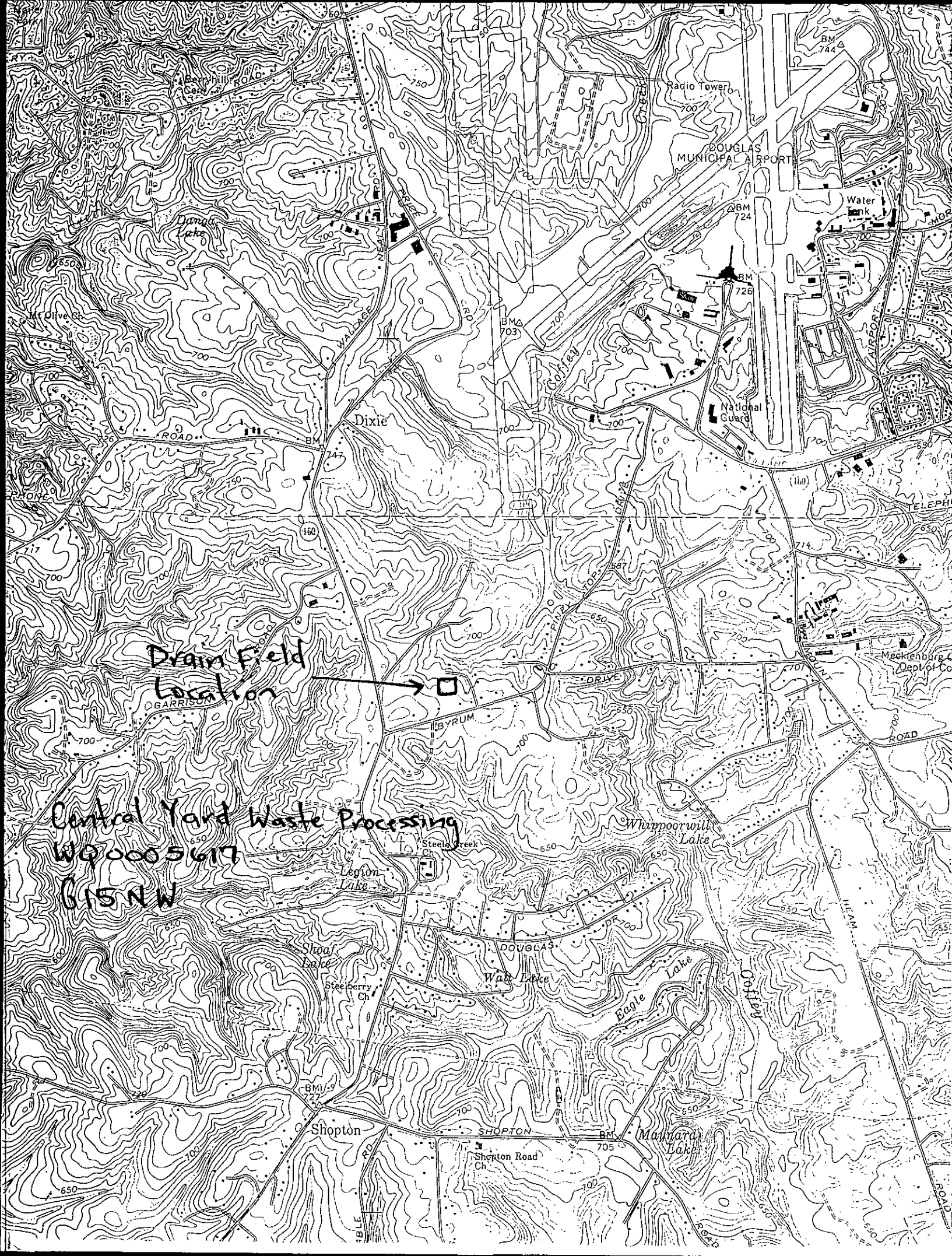
The applicant, Mecklenburg County, has applied for a permit which will allow them to treat domestic waste produced from employees at a solid waste recycle yard. The county sanitarian has completed a soils evaulation and has stated the soils are provisionally suitable with a loading rate of 0.3 GPD/ft^2.

An on site inspection did not reveal any site specific problems that would hender the issuance of the permit or the performance of the treatment system.

It is recommended that the permit be issued.

W. Allen Hardy 10/4/91
Signature of Report Preparer Date

D. Ray Mann 10/4/91
Water Quality Regional Supervisor Date


Drain Field Location
Central Yard Waste Processing
WQ0005617
615 NW
Dixie
Shopton
Steele Creek Ch
Steelberry Ch
Shopton Road Ch
Legion Lake
Shoaf Lake
Wall Lake
Eagle Lake
Whippoorwill Lake
Maynard Lake
Coffey Creek
DOUGLAS MUNICIPAL AIRPORT
Radio Tower
Water Tank
National Guard
Mt Olive Ch
Beech Cem
Dawes Lake
BM 744
BM 724
BM 726
BM 703
BM 747
BM 727
BM 705
GARRISON ROAD
BYRUM DRIVE
SHOPTON ROAD
DOUGLAS AIRPORT
WALLACE NEAL RD
PRICE RD
MOORE RD
TELEPHONE
Mecklenburg Co Dept of Co

State of North Carolina
Department of Environment, Health, and Natural Resources
Division of Environmental Management
Non-Discharge Permit Application
(THIS FORM MAY BE PHOTOCOPIED FOR USE AS AN ORIGINAL)

91 SEP -6 AM 11:24

SEPTIC TANK / LOW PRESSURE PIPE / GRAVITY SUBSURFACE DISPOSAL SYSTEMS

[FOR MECHANICAL TREATMENT SYSTEMS WITH SUBSURFACE DISPOSAL USE FORM MTDS]

(THE DIVISION OF ENVIRONMENTAL MANAGEMENT HAS JURISDICTION IF THE SYSTEM TREATS INDUSTRIAL WASTEWATER OR IF THE SYSTEM IS OWNED BY A SANITARY DISTRICT, A METROPOLITAN SEWAGE DISTRICT, A WATER & SEWER AUTHORITY, A COUNTY, A MUNICIPALITY, OR A PUBLIC UTILITY. THE DIVISION OF ENVIRONMENTAL HEALTH HAS JURISDICTION FOR OTHER DOMESTIC SUBSURFACE SYSTEMS)

I. GENERAL INFORMATION:

1. Applicant (corporation, individual, or other): Mecklenburg County

2. Print Owners or Signing Official's Name and Title (the person who is legally responsible for the facility and its compliance): Bobbie Shields,
Director of Engineering

3. Mailing Address: 700 North Tryon Street
City: Charlotte State: NC Zip: 28202
Telephone No.: (704) 336-2713

4. Project Name (subdivision, facility, or establishment name - should be consistent with project name on plans/specs., letters of flow acceptance, Operational Agreements, etc.):
Central Yard Waste Processing Facility

5. Application Date: August 30, 1991 6. Fee Submitted: $ 240.00

7. County where project is located: Mecklenburg County

8. Address of treatment and subsurface facility: 5631 Paul Brown Boulevard
Charlotte, NC 28208

9. Latitude: N 530,450 ; Longitude: E 1,416,050 of subsurface fields

II. PERMIT INFORMATION:

1. **Permit No. (will be completed by DEM):** WQ0005617

2. Specify whether project is: X new; _____ renewal*; _____ modification.
   *If renewal, complete only sections I, II, III and applicant signature (on pg.9). Submit only pgs. 1, 2, 9 (original and 3 copies of each). Engineer signature not required for renewal.

3. If this application is being submitted as a result of a renewal or modification to an existing permit, list the existing permit number N/A and issue date N/A

4. Specify whether the applicant is X public or _____ private.

5. Specify whether applicant is: _____ sanitary district; _____ metropolitan sewage district; _____ water & sewer authority; X county; _____ municipality; _____ public utility; _____ other (explain) _____

III. INFORMATION ON WASTEWATER:

1. Nature of Wastewater: 100 % Domestic; _____ % Commercial; _____ % Industrial; _____ % Other waste (specify): _____

2. Please provide a one or two word description specifying the origin of the wastewater, such as school, subdivision, hospital, commercial, industrial, apartments, etc.:
   Modular Office Facility

3. If wastewater is not domestic in nature, what level of pretreatment has been provided to ensure protection of the receiving treatment system: N/A

4. Volume of wastewater generated by this project: 275 gallons per day

5. Explanation of how wastewater volume was determined: Based on an average daily flow of 25 gal/person for the maximum of 11 employees at the site.

6. Brief project description: Personnel Office Building for Yard Waste Processing Facility

There may be questions on this application that are not applicable to the subject project, such as questions aimed at low pressure systems vs. gravity systems. In those instances state not applicable or N/A; however, be certain that all pertinent questions have been answered or the application package will be returned as incomplete.

IV. DESIGN INFORMATION:

1. Specify the type of system that is being installed: _____ low pressure; _____ gravity; X other Conventional with Lift Station

2. Provide a brief listing of the components of this treatment and disposal system (if not covered by specific questions below), including dimensions, capacities, loading rates, and detention times of tanks, pumping facilities (duplex pumps), high water alarms, filters (specify type), ponds, lagoons, disinfection facilities, subsurface fields, etc.:
Wastewater from a Modular Office Facility goes to a 1500 gallon septic tank where the liquid is drained to a 1000 gallon pump tank, where it is pumped to a distribution box and the absorption field.

3. Specify the loading rate recommendation, as determined by the soils scientist, for the subsurface disposal field: .3 GPD per square foot
4. Specify the loading rate recommendation, as determined by the soils scientist, for the repair area (100% replacement) subsurface disposal field: .3 GPD per square ft.
5. Specify design loading rate that will occur in disposal field: .3 GPD / ft^2 (In coastal areas the maximum is 1.5 GPD / square foot for gravity systems and 1.0 GPD per square foot for low pressure systems).
6. Specify the number of subsurface fields: 1; The dimensions of the fields: 23' x 120';
Supply line dia.: 4"°; Manifold dia.: 2"°; Distribution lateral dia.: 4"°; Hole dia.: .25"°; Number of laterals: 3; Lateral length (typically 70 ft. max. for LPP & 100 ft. max. for gravity): 120'; Trench width: 3'; Trench depth: 2'; Minimum pressure head: 40'; Maximum pressure head: 50'; Minimum vertical separation between trench bottoms and mean seasonal high water table: 48"+; Distance on centers (for LPP not less than 5 ft.): 9'; Maximum slope of trenches (should be less than 0.2% for gravity systems): 0.2%; **Details must be provided in plans/specs which demonstrate that the ends of lines are plugged, that turn-ups are provided for LPP, and that measures will be taken (grade boards, etc.) to ensure that laterals are properly installed.**

7. The following criteria should be used for the sizing of residential septic tanks:
   a. three bedrooms or less , use minimum 900 gallons;
   b. four bedrooms , use minimum 1000 gallons;
   c. five bedrooms , use minimum 1250 gallons.
8. For businesses with a design flow less than 600 GPD, the minimum tank capacity shall be twice the flow.

9. The following criteria should be used for the sizing of septic tanks for residences with more than five bedrooms, multiple family residences, tanks serving two or more residences*, or establishments with a flow between 600 GPD and 1500 GPD:

   Septic Tank Volume = (1.17) (daily sewage flow) + 500 gallons

   *Minimum septic tank capacity shall be 1500 gallons

10. For design flows between 1500 GPD and 4500 GPD, the following criteria shall be used: Septic Tank Volume = (0.75) (daily sewage flow) + 1125 gallons

11. For design flows which exceed 4500 GPD, use a septic tank capacity equal to the flow.

12. Specify the septic tank volume: 1500 gallons

13. Specify the pump tank volume: 1000 gallons

14. Specify the number of pumps and their capacity: 2 pumps at 5 GPM

15. Specify the high water alarms: X audible & visual; _____ auto dialer

16. Name of closest downstlope surface waters: Coffey Creek

17. Classification of closest downslope surface waters: C (as established by the Environmental Management Commission and specified on page 7 of this application).

18. If a power failure at the facility could impact waters classified as WS, SA, B, or SB, describe which of the measures are being implemented to prevent such impact, as required in 15 NCAC 2H .0200: N/A

19. The different disposal fields, laterals, or groups of laterals in a subsurface system are typically designed to be dosed at different rates or volumes from one another. Explain the method that will be used to ensure that the proper dosing rates and volumes occur:
Laterals dosed at equal volumes by distribution box.

20. The project must conform to the following buffers:
   a) 100 feet between the disposal area and any public or private water supply including wells;
   b) 50 feet between disposal area and waters classified as WS-I, WS-II, WS-III or B; and 100 feet between the disposal area and the normal high water level of waters classified as SA or SB;
   c) 50 feet between any the disposal area and any stream, lake, river, or natural drainage way;
   d) 50 feet between the treatment/disposal systems and property lines;

e) 10 feet between the disposal area and any surface water interceptor drains or diversions (upslope);

f) 25 feet between the disposal area and any surface water interceptor drains or diversions (downslope) and any groundwater drainage systems;

g) 20 feet between disposal area and any other subsurface disposal area except the repair area.

21. If any of the applicable buffers are are not being met, please explain how the proposed buffers will provide equal or better protection of the Waters of the State with no increased potential for nuisance conditions: N/A

THIS APPLICATION PACKAGE WILL NOT BE ACCEPTED BY THE DIVISION OF ENVIRONMENTAL MANAGEMENT UNLESS ALL OF THE APPLICABLE ITEMS ARE INCLUDED WITH THE SUBMITTAL

Required Items

a. One original and three copies of the completed and appropriately executed application form.

b. The appropriate permit processing fee, in accordance with 15A NCAC 2H .0205(c)(5).

c. Five sets of detailed plans and specifications signed and sealed by a North Carolina Professional Engineer. The plans must include a general location map, a topographic map, a site map which indicates where borings or hand auger samples were taken, a map showing the treatment/disposal facilities, buffers, structures, and property lines; along with all wells, surface waters (100-year flood elevation), and surface drainage features within 500 feet of the treatment/disposal facilities. Each sheet of the plans and the first page of the specifications must be signed and sealed.

d. Five copies of an Operational Agreement (original and 4 copies) must be submitted if the wastewater treatment and disposal facilities will be serving single family residences, condominiums, mobile homes, or town houses and if the subject facilities will be owned by the individual residents, a homeowners association, or a developer.

e. Five copies of all reports, evaluations, agreements, supporting calculations, etc., must be submitted as a part of the supporting documents which are signed and sealed by the North Carolina Professional Engineer. Although certain portions of this required submittal must be developed by other professionals, inclusion of these materials under the signature and seal of a North Carolina Professional Engineer signifies that he has reviewed this material and has judged it to be consistent with his proposed design.

f. Five copies of the existing permit if a renewal or modification.

g. A soils scientist report which includes texture, color, and structure of soils down to a depth of seven feet, depth, thickness and type of any restrictive horizons, hydraulic conductivity in the most restrictive horizon, cation exchange capacity (CEC), depth of seasonal high water table, soil pH, soils map (if available), and recommended loading rates. This report must be signed by the soils scientist..

h. For systems treating industrial waste or any system with a design flow greater than 25,000 GPD a hydrogeologic and soils description of the subsurface to a depth of twenty feet or bedrock, whichever is less. The number of borings shall be sufficient to determine significant changes in lithology, the vertical permeability of the unsaturated zone and the hydraulic conductivity of the saturated zone, depth to the mean seasonal high water table, and a determination of transmissivity and specific yield of the unconfined aquifer.

i. Proposal for groundwater monitoring.

j. Information on the location, construction details, and primary usage of all wells within 500 feet of the treatment/disposal facilities.

k. For industrial waste a complete chemical analysis of the typical wastewater to include, but not be limited to Total Organic Carbon, BOD, COD, Chlorides, Phosphorus, Ammonia, Nitrates, Phenol, Total Trihalomethanes, Toxicity Test Parameters, Total Halogenated Compounds, Total Coliforms, and Total Dissolved Solids.

TO: REGIONAL WATER QUALITY SUPERVISOR

Please provide me with the classification of the surface waters identified in number 5 below and on the attached map segment:

Name of surface waters: COFFEY CREEK

Classification (as established by the Environmental Management Commission): C

Proposed Classification, if applicable: N/A

Signature of regional office personnel: K H Coleman Date: 9/13/91

INSTRUCTIONS TO ENGINEER

In order to determine whether provisions for dual or standby power may be required for the subject facility, the classification of the closest downslope surface waters (the surface waters that any overflow from the facility would flow toward) must be determined. You are required to submit this form, with items 1 through 10 completed, to the appropriate Division of Environmental Management Regional Water Quality Supervisor (see attached listing). At a minimum, you must include an 8.5" by 11" copy of the portion of a 7.5 minute USGS Topographic Map which shows the subject surface waters. You must identify the location of the facility and the closest downslope surface waters (waters for which you are requesting the classification) on the submitted map copy. The application may not be submitted until this form is completed and included with the submittal.

1. Applicant (corporation, individual, or other): Mecklenburg County
2. Name and Complete Address of Engineering Firm: Meck. Co. Engineering Department
   700 North Tryon Street
   City: Charlotte State: NC Zip: 28202
   Telephone No. (704) 336-3871
3. Project Name: Central Yard Waste Processing Facility
4. Facility design flow: 275 GPD
5. Name of closest downslope surface waters: Coffey Creek
6. County(s) where project and surface waters are located: Mecklenburg
7. Map name and date: Charlotte West NC, 1968
8. North Carolina Professional Engineer's Registration No. 7941
9. Print Name of Engineer DAVID K MORTON
10. Seal and Signature (specify date):

AUGUST 30, 1991

NORTH CAROLINA PROFESSIONAL SEAL 7941 ENGINEER DAVID K. MORTON

D K Morton

DIVISION OF ENVIRONMENTAL MANAGEMENT REGIONAL OFFICES (4/91)

Asheville Regional WQ Super.
59 Woodfin Place
Asheville, NC 28802
704/251-6208

Avery	Macon
Buncombe	Madison
Burke	McDowell
Caldwell	Mitchell
Cherokee	Polk
Clay	Rutherford
Graham	Swain
Haywood	Transylvania
Henderson	Yancy
Jackson	

Washington Regional WQ Super.
P O Box 1507
Washington, NC 27889
919/946-6481

Beaufort	Jones
Bertie	Lenoir
Camden	Martin
Chowan	Pamlico
Craven	Pasquotank
Currituck	Perquimans
Dare	Pitt
Gates	Tyrell
Greene	Washington
Hertford	Wayne
Hyde	

Raleigh Regional WQ Super.
3800 Barrett Dr., Suite 101
Raleigh, NC 27609
919/733-2314

Chatham	Nash
Durham	Northampton
Edgecombe	Orange
Franklin	Person
Granville	Vance
Halifax	Wake
Johnston	Warren
Lee	Wilson

Fayetteville Regional WQ Super.
Wachovia Building, Suite 714
Fayetteville, NC 28301
919/486-1541

Anson	Moore
Bladen	Robeson
Cumberland	Richmond
Harnett	Sampson
Hoke	Scotland
Montgomery	

Mooresville Regional WQ Super.
919 North Main Street
Mooresville, NC 28115
704/663-1699

Alexander	Mecklenburg
Cabarrus	Rowan
Catawba	Stanly
Gaston	Union
Iredell	Cleveland
Lincoln	

Wilmington Region. WQ Super.
127 Cardinal Drive Extension
Wilmington, NC 28405-3845
919/395-3900

Brunswick	New Hanover
Carteret	Onslow
Columbus	Pender
Duplin	

Winston-Salem Regional WQ Super.
8025 North Point Boulevard, Suite 100
Winston-Salem, NC 27106
919/761-2351

Alamance	Rockingham
Alleghany	Randolph
Ashe	Stokes
Caswell	Surry
Davidson	Watauga
Davie	Wilkes
Forsyth	Yadkin
Guilford	

Name and Complete Address of Engineering Firm: Mecklenburg County Engineering Dept.
700 North Tryon Street

City: Charlotte State: NC Zip: 28202

Telephone No. (704) 336-3871

Professional Engineer's Certification:

I, DAVID K. MORTON, attest that this application for CENTRAL YARD WASTE SEPTIC TANK PERMIT APPLICATION has been reviewed by me and is accurate and complete to the best of my knowledge. I further attest that to the best of my knowledge the proposed design has been prepared in accordance with the applicable regulations. Although certain portions of this submittal package may have been developed by other professionals, inclusion of these materials under my signature and seal signifies that I have reviewed this material and have judged it to be consistent with the proposed design.

North Carolina Professional Engineer's Registration No. 7941

Print Name of Engineer DAVID K. MORTON

Seal and Signature (specify date):

AUGUST 30, 1991

NORTH CAROLINA PROFESSIONAL SEAL 7941 ENGINEER DAVID K. MORTON

Applicant's Certification:

I, JOHN W. WARREN, JR., attest that this application for CENTRAL YARD WASTE SEPTIC TANK PERMIT APPLICATION has been reviewed by me and is accurate and complete to the best of my knowledge. I understand that if all required parts of this application are not completed and that if all required supporting information and attachments are not included, this application package will be returned as incomplete.

Signature _____ Date 8-30-91

THE COMPLETED APPLICATION PACKAGE, INCLUDING ALL SUPPORTING INFORMATION AND MATERIALS, SHOULD BE SENT TO THE FOLLOWING ADDRESS:

NORTH CAROLINA DIVISION OF ENVIRONMENTAL MANAGEMENT
WATER QUALITY SECTION
PERMITS AND ENGINEERING UNIT
POST OFFICE BOX 29535
512 NORTH SALISBURY STREET
RALEIGH, NORTH CAROLINA 27626-0535
TELEPHONE NUMBER: 919/733-5083

PERMIT APPLICATION PROCESSING FEES

(effective October 1, 1990)

CATEGORY	NEW APPLICATIONS/ MODIFICATIONS	RENEWALS WITHOUT MODIFICATIONS
> 1,000,000 GPD		
Industrial	$400	$300
Domestic/Cooling Water	$400	$300
10,001 - 1,000,000 GPD		
Industrial	$400	$250
Domestic/Cooling Water	$400	$250
1,001 - 10,000 GPD		
Industrial	$400	$200
Domestic/Cooling Water	$400	$200
< or = 1,000 GPD and Single Family Dwelling	$240	$120
Sludge < or = 300 Acres	$400	$250
Sludge > 300 Acres	$400	$250
Sewer Extensions (nondelegated)	$400	0
Sewer Extensions (delegated)	$200	0
Closed-Loop Recycle or Evaporative	$400	$200

NOTE: The Fees for Soil Remediation Projects are the same as for Sludges.

Under the Sewer Extension Fee, "delegated to municipalities" applies only to those governmental jurisdictions that have specific delegation review authority, as granted by the Division of Environmental Management.

CENTRAL YARD WASTE PROCESSING FACILITY

WATER AND SEWER LINE INSTALLATION

BID DOCUMENTS AND SPECIFICATIONS

JULY, 1991

NORTH CAROLINA PROFESSIONAL SEAL 1941 ENGINEER DAVID K. MORTON

91 SEP 16 AM 10:20

91 SEP -6 AM 11:24

PREPARED BY

MECKLENBURG COUNTY
ENGINEERING DEPARTMENT

Central Yard Waste Processing Facility
Water and Sewer Line Installation
Bid Documents and Specifications
July, 1991

1.0 General

This work shall consist of furnishing all materials, performing required excavation, installing water and sewer lines, placing compacted backfill and installing lift station pumps and valves in accordance with this specification and the associated contract documents. This work will also include the connection of the water and sewer lines with an existing modular office facility; connection of the sewer line to the septic tank, pump tank and valve box; as well as any coordination and/or interaction with the Charlotte-Mecklenburg Utility Department (CMUD) for obtaining any permits, approvals or anything else which may be required in order to connect the water line with the CMUD system including the payment of any installation or connection fees.

2.0 Time Period

After the owner (Mecklenburg County) notifies the Contractor to begin work, the project shall be completed as soon as possible. The Contractor shall bid the total number of calendar days anticipated to complete the project, and shall give the Owner five (5) working days notice prior to the start of construction.

3.0 Owners Responsibility

A. The Owner shall provide the Contractor with the County Building Permit for this project. Any additional permits, applications or applicable fees which are necessary to complete the project will be the responsibility of the Contractor.

B. The Owner shall provide a construction plan for this project, and shall set construction stakes establishing water and sewer line alignment which shall be maintained by the Contractor. The Owner will provide an inspector to assure compliance with the contract documents and to assure that all work is performed in accordance with Mecklenburg County Standards.

C. The Owner shall provide and install the septic tank, pump tank and valve box as shown and detailed on the design drawings. Following the installation and connection of the sewer line, sewer pumps and valves by the Contractor, the Owner will place compacted backfill around the facilities and shall arrange for the electrical connection of the sewer pumps.

D. The Owner shall provide all necessary clearing and grading at the site for the installation of the water and sewer lines.

4.0 Contractors Responsibility

A. The Contractor shall provide all necessary labor, materials and equipment to install and connect the water and sewer lines as specified by the plans and specifications. The Contractor shall remove all equipment and perform any site clean-up for work attributable to his contract.

B. The Contractor shall coordinate with the Charlotte-Mecklenburg Utility Department for connecting the water line with the CMUD system. This will include any applications, permits or installation costs associated with connection to the CMUD system.

C. The water and sewer lines are connected to a Modular Office Facility which will be used by site personnel at the Central Yard Waste Processing Facility. The Modular Office Facility has a water supply line consisting of 3/4 inch diameter polybutylene and a waste discharge line consisting of 3 inch diameter PVC. Both of these lines protrude approximately 3 inches from the facility.

D. The Contractor shall be responsible for connection of the sewer line to the septic tank; furnishing and installing the sewer line associated with the pump tank and valve box; and the furnishing and installation of the sewer pumps and associated valves. The Contractor shall extend the sewer line approximately 2 feet from the valve box.

5.0 Material and Construction Specifications

A. General

1. Water and Sewer line installation will include: Excavation of trenches; furnishing all materials; water and sewer line installation; connection to modular office facility; connection of sewer line to septic tank, pump tank and valve box; installation of sewer pumps and valves; placing compacted backfill as required; and coordination with the Charlotte-Mecklenburg Utility Department concerning the connection of the water line with the CMUD system.

2. Verify dimensions and requirements set forth herein and shown on the drawings.

B. Preparation

1. Protection of Persons and Property: Furnish, install and remove temporary safeguards such as barricades, signs, lights, and flares as required by State and local codes and ordinances.

Take precautions and provide necessary bracing and shoring to guard against movement or settlement of existing improvements or new construction. Contractor is entirely responsible for strength and adequacy of bracing and shoring, and for safety and

support of construction from damage or injury caused by the lack thereof or by movement or settlement.

2. Shoring and Bracing: Provide materials for shoring and bracing, such as sheet piling, uprights, stringers and crossbraces, in order to retain excavations and prevent cave-ins.

Establish requirements for trench shoring and bracing to comply with local codes and authorities having jurisdiction.

Maintain shoring and bracing in excavations regardless of time period excavation will be open. As backfilling proceeds, remove sheeting, shoring and bracing.

C. Excavation

1. Dimensions and Tolerances: Excavate trenches to the depth indicated or required. Carry the depth of trenches for piping to establish the indicated flow lines and invert elevations. Grade bottom of trenches accurately to provide uniform bearing for each section of pipe. Excavate locally to provide 2" clearance under and around joints. Keep width of trench below the top of pipe to a minimum, allowing adequate space for laying pipe, construction of underground structures and inspection.

The bottom of the trench shall be of solid, undisturbed earth. If trench is inadvertently cut too deep, or soft spots are encountered, bring the bottom of the trench to grade by using loose dirt thoroughly compacted.

Where rock is encountered, carry the excavation 6" below the required elevation and backfill with loose dirt thoroughly compacted prior to installing pipe.

2. Removing Materials: Excavate earth and remove all obstructions. Excavation shall be by open cut method.

3. Suitable Bearing Material: Where unsuitable material is exposed at completion of planned excavation, perform further excavation as directed by the Engineer until suitable bearing material is exposed and approved by the Engineer.

4. Material Storage and Disposal: Stockpile excavated material which is suitable for backfilling at a sufficient distance from edges of the trench to avoid slides and cave-ins due to overloading.

Dispose of unsuitable and excess soil material as directed by the Engineer.

5. Dewatering: Prevent surface water and subsurface or ground water from flowing into excavations.

Do not allow water to accumulate in excavations. Remove water to prevent softening of foundation bottoms. Provide and maintain pumps, sumps, suction and discharge lines, and other dewatering system components necessary to convey water away from excavations.

Convey water removed from excavations and rain water to collection or runoff areas. Establish and maintain temporary drainage ditches and other diversions outside excavation limits. Do not use trench excavations as temporary drainage ditches.

6. Earth Excavation: Consists of removal and disposal of material which is not classified as rock excavation or unauthorized excavation.

7. Rock Excavation: Consists of removal and disposal of material encountered that cannot be excavated without continuous and systematic drilling and blasting or continuous use of a ripper or other special equipment, except such materials that are classified as earth excavation. Typical materials classified as rock are boulders 1/2 cu. yd. or more in volume, solid rock, rock in ledges, and rockhard cementitious aggregate deposits.

It is assumed that materials at the job site for trench excavation can be excavated by hand labor or with normal equipment, such as power shovel or backhoe. If rock is encountered, notify the Engineer for his consideration before proceeding with further excavating.

8. Unauthorized excavation consists of removal of materials beyond indicated subgrade elevations or dimensions without specific direction of the Engineer. Unauthorized excavation, as well as remedial work directed by the Engineer, shall be at the Contractor's expense.

D. Water and Sewer Line Installation

1. All materials and work for the water and sewer line installation as detailed on the attached plans shall be in accordance with the N.C. State Building Code, Volume II - Plumbing, latest edition.

2. Material stored outdoors shall be kept on blocking to prevent contact with the ground.

3. Water piping shall be buried below the frost line at a minimum depth of 36"

Sewer line piping shall be installed with a uniform slope of 1/4 inch per foot with a minimum depth of 36 inches. Make all changes in pipe size with reducing fittings or regular reducers. All changes in direction shall be made with fittings of less than 90 degree bends where possible. Where 1/4 bends are required, they shall be the long sweep type.

4. Bottoms of trenches shall be rounded so that the pipe rests on undisturbed soil. If rock is encountered, excavation shall be carried 6 inches below bottom of pipe. Excess excavation shall be filled with loose dirt and thoroughly compacted.

5. Pipe Materials

Water Line

a.	Pipe Material	ASTM D-2241 Polyvinyl Chloride (PVC) Schedule 80
	Fittings	ASTM D-2467 Polyvinyl Chloride (PVC) Schedule 80
	Joints	Solvent weld by Solvent Cement per ASTM D2564
b.	Pipe Material	ASTM D-2662 Polybutylene (PB 2110)

Installation of Polybutylene (PB 2110) pipe shall be in accordance with installation instructions of Appendix C of N.C. State Building Code, Volume II - Plumbing, latest edition.

Joints and connections shall be either of spun weld type or flared insert type assembled in accordance with the manufacturers assembly instructions.

c.	Pipe Material	ASTM A-120 Hot-Dipped Zinc-Coated Galvanized Pipe, Schedule 40

Sewer Line

a.	Pipe Material	ASTM D-2665 Polyvinyl Chloride (PVC-DWV) Schedule 40
	Fittings	ASTM D-2665 Polyvinyl Chloride (PVC-DMV) Schedule 40
	Joints	Solvent weld by Solvent Cement per ASTM D-2564

6. Insulation: Contractor shall be responsible for insulation of all piping which is not buried.

All insulating material, related adhesives and coatings shall have a flame spread rating and smoke developed rating in accordance with NFPA Codes and local ordinances.

All piping systems shall be pressure tested and made leak tight prior to insulating.

Insulation material shall be Arma-Flex or approved equal and shall be applied per manufacturers' instructions. Fittings shall be insulated with same material and thickness as pipe.

7. Valves: Domestic water valves shall be all bronze joint type designed for 125 lb. water pressure.

8. Water Hydrants: Water hydrants shall be Woodfor, anti-contamination wall faucets (Model No. 24P) with backflow prevention devices and drain plugs for freeze protection.

9. Sewer Line Cleanouts: One cleanout shall be provided within 10 feet of the Modular Office Facility with other cleanouts spaced not more than 50 feet apart in horizontal drainage lines. Cleanouts will also be provided at all risers and changes in direction of piping greater than 45 degrees.

Cleanouts shall be Zurn Figure Z-1460-15 cast iron cleanout housing with secured cover, or approved equal, installed in 36" X 36" X 4" concrete slab.

10. Water Line Back Flow Protection: The water distribution system shall have back flow protection behind meter. Back flow protection shall consist of double check in approved meter box.

11. Tests: All piping shall be tested by the contractor and be approved by the plumbing inspector before acceptance or backfilling of pipe.

Test sewer line by plugging all necessary openings and filling with water. Not less than 10 feet of water pressure will be acceptable. Water line piping shall be tested and proven tight at the prevailing water pressure.

Where any leaks are discovered at joints, a new joint will be made. No caulking of any faulty joints will be permitted. Test for the entire system will be repeated after the new joints are made.

E. Backfilling

1. General: Backfill when pipe installations have been completed, tested, inspected, and approved by the Engineer. Before proceeding, trenches shall be free of forms, debris and other foreign material.

Use care in backfilling to avoid damage or displacement of pipe systems.

2. Backfill Materials: Satisfactory soil materials free of clay, rock or gravel larger than 2" in any dimension, debris, waste, frozen materials, vegetable and other deleterious matter.

3. Placement and compaction: In backfilling pipe trenches, approved fill shall first be compacted firmly and evenly on both sides of pipe in 3" layers to a depth of 12" over the top of the pipe. Remainder of trench shall be backfilled to established grade in 6" layers. Compact between each layer with a high-frequency vibrator tamper.

Do not place backfill materials on surfaces that are muddy, frozen or contain frost or ice.

All pipe backfill areas shall be graded and maintained in such a condition that erosion or saturation will not damage the pipe bed or backfill.

Pipe which becomes misaligned, shows excessive settlement, or has been otherwise damaged by construction operations shall be replaced at no cost to the Owner.

F. Lift Station

1. Piping: The discharge piping from the pumps shall be 2" PVC mounted in the pump tank and extended through the wall of the pump tank and joined by flanged connections to the piping, valves and fittings contained in the integral valve box.

The individual pump discharge lines shall be joined within the integral valve box to a common discharge line extending horizontally from the valve box and terminating in a 2" PVC pipe which shall be extended approximately 2 feet from the valve box.

Where the piping passes through the wall of the valve box or pump tank a flexible link-type seal within an integral sleeve shall be furnished, to provide a gas and watertight seal. A drain with a check valve seal to prevent water from remaining in the valve box shall be furnished in the valve box and piped to the pump tank.

Fittings in the valve box shall include a plug valve and swing check valve for each pump.

2. Submersible Pumps: A duplex set of submersible pumps shall be furnished. Pumps shall be capable of handling raw, unscreened, sewage. Each pump shall be equipped with a hermetically sealed, Class "F" insulated motor, installed in a heavy, ribbed cast iron shell.

The motor shell, pump volute and impeller shall be made of close-grained cast iron (ASTM A48-C30). Pump shaft shall be 316 S.S. and all fastening hardware shall be stainless steel.

The pump impeller shall be two-vane, non-clog type, accurately machined to the proper diameter and dynamically balanced prior to installation in pump.

The pump unit shall be furnished with "Y" guides, stainless steel

lifting cable, a removable discharge elbow and all necessary hardware.

Pump and motor unit to receive a coat of red chromate primer and a finish coat of water resistant enamel.

Pumps shall be sized to pump 5 gpm at a 40 ft. head for a distance of 1500 feet.

3. Quick Removal System: A quick removal system consisting of a separate steel base plate, incorporating a stationary discharge elbow with flexible connector for pump discharge line and bottom guide rail supports for proper alignment shall be furnished. System shall include galvanized guide rails terminating into guide rail supports at the main cover. A gasket shall be furnished between the mating faces of the pump elbow and the fixed discharge elbow to facilitate removal and prevent corrosive bridging, no portion of the pump shall touch the floor of the basin.

Individual pump access covers shall be furnished, made of steel, and equipped with a locking clasp.

4. Electrical Control Panel: The control panel furnished shall be U.L. listed NEMA 3R, dead front with blank gasketed weather door and an internal dead front safety door. Panel shall contain a motor disconnect switch and a magnetic starter with 3-coil overload protection for each pump. An alternating relay, to alternate duty pump, shall be provided. Panel to have a "Test-Off-Auto" selector switch and a pilot "Run" light for each pump. A terminal strip shall be included for connection of all necessary wires.

Panel shall also include an audible and visual alarm signal with provision for silencing and audible alarm. When the control panel is to be remotely mounted, a NEMA 6 junction box either mounted on the main cover or in the valve box chamber, is to be furnished. The junction box will be provided with a terminal strip to accommodate all necessary power and control wiring and have suitable watertight sealing means for all cables. Junction box and cable entrance fittings to meet NEMA 6 waterproof requirements.

5. Basin Level Controls: Mercury float type liquid level control shall be furnished for proper pump and alarm operation. Four two-pole mercury switches, each sealed in a corrosion-resistant polypropelene float shall be provided. Each switch to have a PVC coated U.L. listed cable and to be attached to a corrosion-resistant bracket to a galvanized suspension rod. The switch bracket to be provided with a reinforcing sleeve to prevent sharp bending and damage to cable.

6. Operation of System: On liquid level rise to the pump basin,

the lowest level mercury switch will energize, the next level switch will energize, starting the duty pump. Duty pump will operate until the lowest level switch is de-energized.

Should liquid level continue to rise when one pump is operating, the standby (or second switch) will be energized, starting the idle, or standby pump. Both pumps will continue to operate until the lowest level switch is de-energized.

Should liquid level continue to rise after both pumps are operating, the alarm (or third) switch will be energized, operating the visual and audible alarms.

6.0 Bidding

Each Bidder must submit a proposal on the blank form herewith provided. The bidder shall sign his proposal correctly on the signature page, and proposals may be rejected if they show any omissions, alterations of form, additions not called for, conditional bid, or any irregularities of any kind. Completed proposals shall be mailed to:

City-County Purchasing Department
City-County Government Center
600 East Fourth Street
Charlotte, North Carolina 28202
Attention: Marian Lyon

Each proposal must show Base Bids which are specifically based on the technical specifications as they are written with no exceptions or alterations. Any and all exceptions to the specifications included in the Request for Bids must be fully detailed and explained on a separate sheet and attached to the bid package. Any alteration or deviation in price from the base bids, which result from exceptions, must also be noted on this separate sheet.

Base Bids shall contain:
- Lump sum for Water Line Installation based on 2500 feet of excavation, installation of water line, backfilling and connecting the water line to the Modular Office Facility and the CMUD System.

- Lump sum for Sewer Line Installation based on 130 feet of excavation, installation of sewer line, backfilling and connection of the sewer line to the septic tank and the Modular Office Facility.

- Lump sum for furnishing and installation of pumps, valves and associated piping for the Lift Station pump tank and valve box.

Also bid a price per linear foot of water line installation, a price per linear foot of sewer line installation, a price per cubic yard for unsuitable material excavation, and a price per cubic yard of rock excavation. These prices will be used to adjust the contract if the actual construction features of the project differ from that indicated herein.

All bids must specify time required to complete the project.

7.0 Award

The award of the contract will be made to the lowest responsible bidder taking into consideration quality, performance, total cost, and the time specified in the proposals for the performance of the Contract. The Owner reserves the right to reject all bids or accept such bids as appear in its own best interest, and to waive technicalities.

8.0 Payment

The Contractor shall be paid the total amount of his lump sum bid for this work for both the Water and Sewer Line Installation and the Installation of Pumps, Valves and Piping for the Lift Station. Invoices, containing the total amount due for each item, shall be sent to:

Mecklenburg County Engineering Department
700 North Tryon Street
Charlotte, North Carolina 28202
Attention: David Morton

The Owner is subject to the 5% N.C. Sales or Use Tax. Tax will not be shown on proposals; however, invoices will so indicate all applicable Sales Tax.

9.0 List of contacts Available to the Contractor

Any questions concerning this proposal may be directed to:

Marian Lyon - Purchasing Agent
Phone: (704) 336-2256

David Morton - Engineer
Phone: (704) 336-3871

10.0 Pre-Bid Inspection

The Bidder is encouraged to inspect the site to ascertain the location and extent of work to be done as well as to assess the site conditions prior to submittal of his bid. Please call David Morton at (704) 336-3871 to arrange a pre-bid inspection.

PROPOSAL
CENTRAL YARD WASTE PROCESSING FACILITY
WATER AND SEWER LINE INSTALLATION

The undersigned, as Bidder, hereby declares that this proposal is made without connection with any other person, company, or parties making a similar bid or proposal, and that it is in all respects fair and in good faith without collusion or fraud.

The Bidder has carefully examined the Specifications, design drawings and other contract documents and hereby declares that he will furnish the following in a manner prescribed in the Specifications, design drawings, and contract documents for the following installed price:

Water Line Installation, as specified $ _____

Sewer Line Installation, as specified $ _____

Water Line Installation, per linear foot $ _____

Sewer Line Installation, per linear foot $ _____

Rock Excavation, per cubic yard $ _____

Unsuitable Material Excavation, per cubic yard $ _____

Installation of Pumps, Valves, and Piping for the Lift Station $ _____

Number of calendar days required to complete project: _____

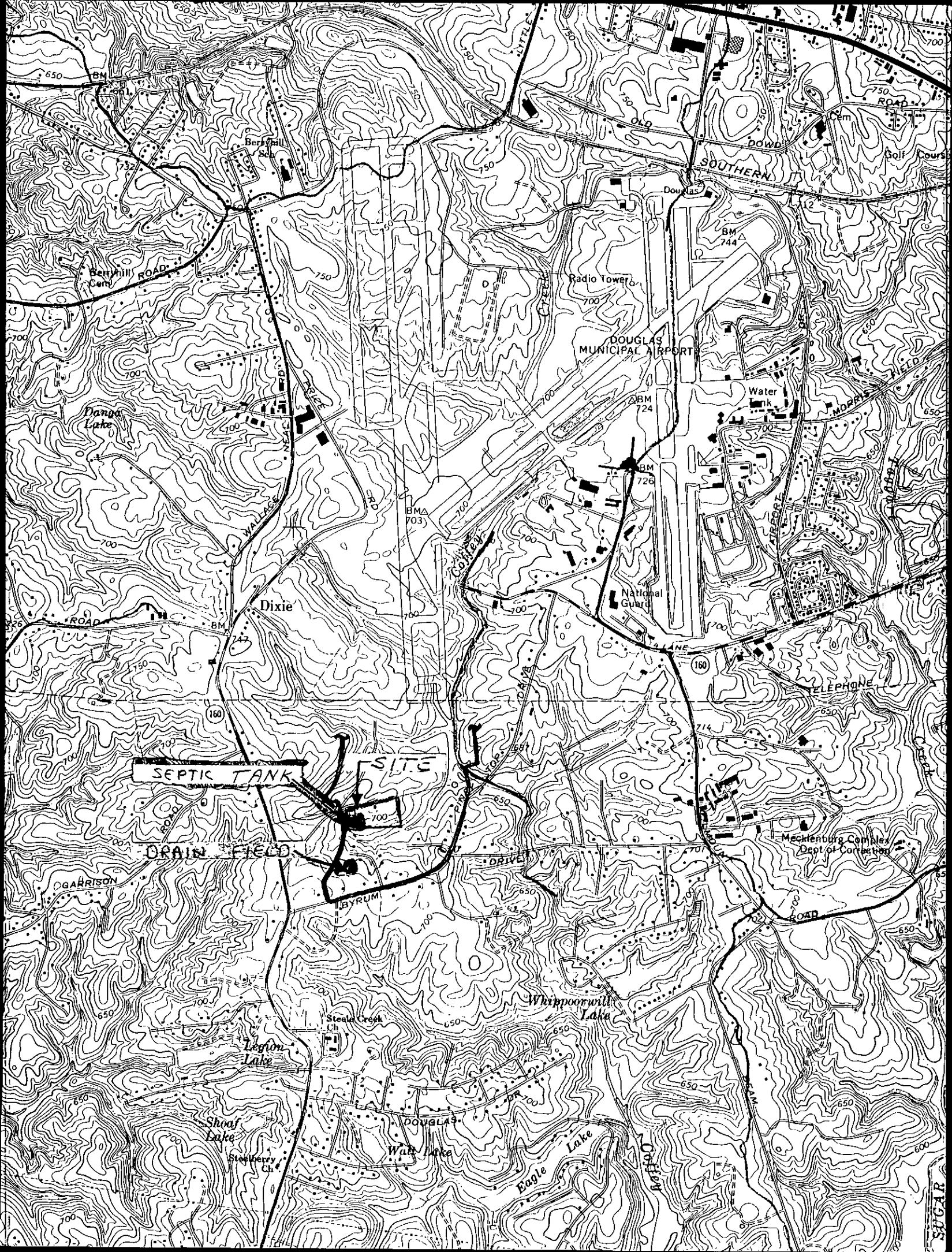
_____
Name of Firm

_____
Signature of Bidder & Title

_____
Address of Firm

_____
Telephone Number

_____
Date


SEPTIC TANK
SITE
DRAIN FIELD
Dixie
DOUGLAS MUNICIPAL AIRPORT
Radio Tower
Water Tank
National Guard
Mecklenburg Complex Dept of Correction
Berryhill Sch
Berryhill Cem
Steele Creek Ch
Steelberry Ch
Danga Lake
Legion Lake
Shoaf Lake
Wall Lake
Whippoorwill Lake
Eagle Lake
Golf Course
Douglas
Cem
BM 744
BM 724
BM 726
BM 703
BM 747
BM 661
BM 732
SOUTHERN
OLD DOWD ROAD
BERRYHILL ROAD
WALLACE
PRICE
GARRISON
BYRUM
DOUGLAS
TELEPHONE
AIRPORT
MORRIS FIELD
DRIVE
LANE
ROAD
160
Creek

MECKLENBURG COUNTY

Engineering Department

91 SEP 16 AM 10:20

September 13, 1991

Mr. Randy Jones
North Carolina Division of
Environmental Management
Water Quality Section
Permits and Engineering Unit
512 Salisbury Street
Raleigh, North Carolina 27626-5083

Subject: Central Yard Waste Processing Facility Septic Tank Permit Application

Dear Mr. Jones:

Enclosed is a revised septic tank permit application package which has been modified per your September 9, 1991, letter as follows:

(1) All copies of the plans and specifications have been signed and sealed by a professional engineer.

(2) Page 7 of the application form has been completed by the Mooresville Regional Office.

(3) A memo from the Mecklenburg County Health Department has been included which specifics the disposal field loading rate.

We request your assistance in expediting this permit, as this project is critical for Mecklenburg County's Recycling Program.

If you have any questions or need additional information, please call me at (704) 336-3871.

Sincerely,

David Morton

David Morton,
Project Manager

DM/vlt

Enclosure

N. C. DEPT. OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
SEP 25 1991
DIVISION OF ENVIRONMENTAL MANAGEMENT
MOORESVILLE REGIONAL OFFICE

All-America City

MECKLENBURG COUNTY

Engineering Department

August 30, 1991

North Carolina Division of
Environmental Management
Water Quality Section
Permits and Engineering Unit
P. O. Box 29535
Raleigh, North Carolina 27626-0535

91 SEP 16 AM 10:20

Dear Sir:

Enclosed is an application form along with detailed plan and specifications for the Central Yard Waste Processing Facility Septic Tank Permit Application. The Mecklenburg County Health Department has performed the soil investigation for the site and their report is included.

Please note that this project has been submitted for a Building Permit and your assistance in facilitating this permit application is appreciated.

Please call me at 704/336-3871 if you have any questions or comments.

Very truly yours,

David Morton/LAG

David Morton
Project Manager

DM:sr

Enclosures

91 SEP -6 AM 11:23

Mecklenburg County
Health Department

August 23rd, 1991

Mecklenburg County Engineering
700 North Tryon Street
Charlotte, NC 28202

RE: Property located at 5632 Paul Brown Boulevard
FILE: 7641A
PARCEL: 141-022-01

Dear Sir:

At your request, a field investigation was conducted on the property designated above for the purpose of determining site suitability for the installation of a ground absorption sewage disposal system. The property was found to contain a limited area of soils which were classified as PROVISIONALLY SUITABLE for such an installation. A copy of the Site Evaluation Report (Serial Number 19668) is enclosed for your information.

Should you desire to file for permission to install a ground absorption sewage disposal system, please submit an Application For An Improvement Permit with an ACCURATELY dimensioned plot plan detailing the location of current and/or proposed buildings, wells and sewage disposal systems to this office. The plan will be reviewed and if it is found that the area of provisionally suitable soils is adequate for the proposed construction, an Improvement Permit will be issued by this Department.

If there are any questions concerning this matter, do not hesitate to contact me.

Sincerely,

Gene Vaughan, R.S., Supervisor
Individual Water and Wastewater Systems

Enclosure

MECKLENBURG COUNTY HEALTH DEPARTMENT
SITE EVALUATION REPORT
SERIAL NUMBER 19668

File: 7641-A Action 1

Parcel: 141-022-01 ☐ PC

Location: 5632 PAUL BROWN BV.

Subdivision:

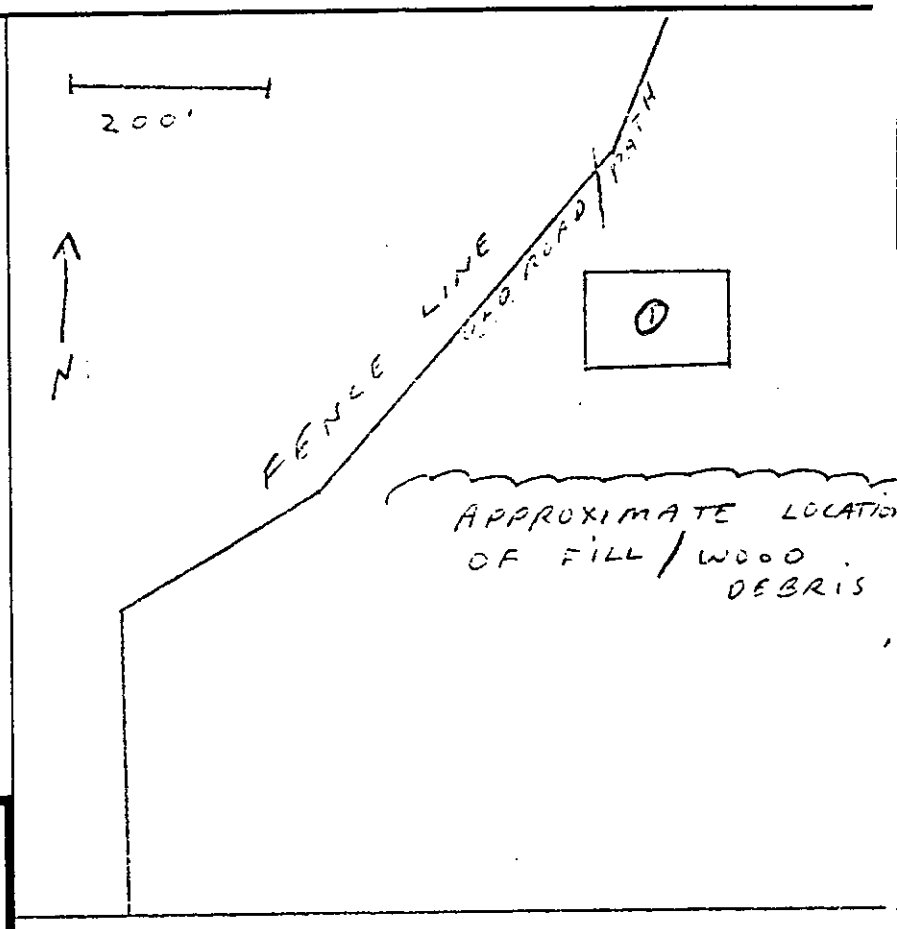
Lot: Block: Acres: .120

Owner: Mecklenburg County
Address: 700 N Tryon St
Charlotte NC 28202
Attn: David Morton

Comments: WILL REQUIRE LIFT PUMP

Described by: Kelly Randall

Date: 8-19-91



***** EVALUATION KEY *****

S = Suitable U = Unsuitable
PS = Provisionally Suitable
The "Area Classification" below indicates the suitability of areas in the diagram.

FACTORS	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6
Topography	(S) PS U 2-5%	S PS U	S PS U	S PS U	S PS U	S PS U
Texture	S (PS) U CLAY	S PS U	S PS U	S PS U	S PS U	S PS U
Structure	S (PS) U SUB ANG. BLOCK	S PS U	S PS U	S PS U	S PS U	S PS U
Drainage	S (PS) U > 36"	S PS U	S PS U	S PS U	S PS U	S PS U
Depth	S (PS) U > 36"	S PS U	S PS U	S PS U	S PS U	S PS U
Restrictive Horizons	S PS U NONE	S PS U	S PS U	S PS U	S PS U	S PS U
Available Space	S (PS) U LIMITED	S PS U	S PS U	S PS U	S PS U	S PS U
Other (specify)	S PS U —	S PS U	S PS U	S PS U	S PS U	S PS U
Soil Group/Series	CECIL LIKE					
Area Classification	S PS U	S PS U	S PS U	S PS U	S PS U	S PS U

Mecklenburg County
Health Department

M E M O R A N D U M

September 13, 1991

To: Carolyn D. McCaskill
Supervisor, State Engineering Review Group

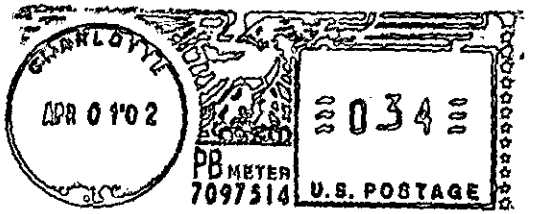
From: Kelly H. Randall KRH
Soil Scientist
Mecklenburg County Health Department

Re: Central Yard Waste Processing Facility
Paul Brown Boulevard, Mecklenburg County

On August 19, 1991, I conducted a soil investigation for the above referenced property. In accordance with .1955, design criteria for conventional sewage systems. I have assigned a .3 gpd/Square foot long term acceptance rate for the site. If you have any further questions, please call me at 704-336-5573.

Environmental Health Division
1200 Blythe Boulevard • Charlotte, North Carolina 28203 • (704) 376-4603

Mecklenburg County
Health Department
700 North Tryon Street
Suite 211
Charlotte, North Carolina 28202-2236



Compost Central
5631 W. Blvd.
Charlotte, NC 28203

A
C
S
☐ INSUFFICIENT ADDRESS
☐ ATTEMPTED NOT KNOWN
☐ OTHER
☒ NO SUCH NUMBER/ STREET
☐ NOT DELIVERABLE AS ADDRESSED - UNABLE TO FORWARD

RTS
RETURN TO SENDER

INSPECTION STATEMENT
MECKLENBURG COUNTY HEALTH DEPARTMENT

Compost Central
5631 W. Blvd.
Charlotte, NC 28203

Please Make Check Payable To:

Mecklenburg County Health Department
700 N. Tryon Street Suite 211
Charlotte, NC 28202

Note: THIS COMPLETED FORM MUST ACCOMPANY PAYMENT!

DESCRIPTION OF PROPERTY

Name	Site Address	Tax Parcel	File Number	System Type
Compost Central	5631 W. Blvd.		4158B	IVa
				Total Amount Due: $85.00

Please use the following space below, to make any corrections to property information.

Name _____

Site Address _____

_____

# of Bedrooms _____

BILL INFORMATION

Billing Date: 4/1/02

Payment Due Date: 5/1/02

Direct Questions Concerning This Bill to .....(704) 336-5571

☐ *Please check if you have a well.*

Make Check Payable To Mecklenburg County Health Department
Your Cancelled Check Is Your Receipt

DO NOT SEND CASH

Mecklenburg County
Health Department

April 1, 2002

Compost Central
5631 W. Blvd.
Charlotte, NC 28203

Dear Mr. Hack:

The North Carolina Administrative Code requires routine maintenance and inspections of certain septic tank systems that utilize pumps. Our records indicate that the required inspection of the Type IVa septic system, which serves as the wastewater treatment and disposal system for the residence located at 5631 W. Blvd., Charlotte, NC is due.

In accordance with Section .1900 of the North Carolina Administrative Code, North Carolina Department of Environment and Natural Resources, Division of Environmental Health, On-Site Wastewater Section, Subchapter 10A, Sanitation, states in part: " System management in accordance with Tables V(a) and V(b) of this Rule shall be required for all systems installed or repaired after July 1, 1992."

This department will be making inspections on all systems that fall under this requirement. The fee for this service is $85.00. In addition, if you have a well, a bacterial sample will be collected to help assess the quality of your water supply source. The water analysis will be performed at no additional cost.

The inspection program and the water analysis are very important initiatives intended to protect the public's health while improving and preserving our groundwater resources. We highly recommend and prefer that you contact our office to make an appointment for the inspection of your system. If we have not heard from you by April 15, 2002 we will proceed with our inspection activities on your property. You will be apprised of our assessments and recommendations for the continued efficient operation of your septic tank system.

To set up an appointment for an inspection, or if you should have any questions regarding this matter, please feel free to contact me at (704) 336-5571.

Sincerely,

David Cornelius, R.S.I., Coordinator
Managed Systems Program
Individual Water and Wastewater Systems

MECKLENBURG COUNTY

07/19/2011

Debit Total	200.00
Credit Total	200.00

JOURNAL VOUCHER # : JV LUE FIN008521

PREPARED BY: Crystal Skidmore **Signature:** Crystal Skidmore **Phone:** 704-432-0908

APPROVED BY: Mitchell Hooks **Signature:** Mitchell Hooks **Phone:** 704-336-6189

LINE DESCRIPTION	FUND	DEPT	UNIT	ACTV	FUNC	DEPT OBJ	LOC	PROG	EXP OBJ	REV	BS ACCT	AMOUNT	DR CR	POSTING CODE
Permit fee for Septic tank	7001	LUE	3102	3010	SC4320				5404			100.00	DR	D025
Cash	7001										1000	100.00	CR	A001
Permit fee for Septic tank	0001	LUE	3620	3010	SC4340					3723		100.00	CR	R024
Cash	0001										1000	100.00	DR	A001
											TOTAL:	400.00		

SCANNED

Document Description: We are constructing a new building and to connect the old septic to the new septic you need to be permitted to do so.

The funds are In Balance
The cash accounts are In Balance

Groundwater & Wastewater Services
Septic Project File & Data Review Worksheet

GWS File #: 4158B WASPS App #: _____

Primary ES assigned to project: P Walker

Secondary ES assigned to project: —

Project Type: New System ☐ Alteration ☐ Repair ☐ Modified Plot Plan ☐ UES ✓

I. File Review:

Rule or Law	Permit Application			
.1937(d)	Is the Application complete	Yes ☑	No ☐	N/A ☐
.1937(d)	Is there a Site plan/Plat with application	Yes ☑	No ☐	N/A ☐
.1937(d)	Is the Facility shown?	Yes ☑	No ☐	N/A ☐
.1937(d)	Are appurtenances shown	Yes ☑	No ☐	N/A ☐
	Site Evaluation Information			
.1939 (a)(1)	Topography and Landscape Position Recorded?	Yes ☐	No ☐	N/A ☐
.1940 (a-g)	Slope % Recorded?	Yes ☐	No ☐	N/A ☐
.1939 (a)(2)	Texture Class Recorded?	Yes ☐	No ☐	N/A ☐
.1939 (a)(2)	Structure type Recorded?	Yes ☐	No ☐	N/A ☐
.1939 (a)(2)	Consistence Recorded?	Yes ☐	No ☐	N/A ☐
.1939 (a)(2)	Mineralogy Recorded?	Yes ☐	No ☐	N/A ☐
.1939 (a)(3)	Soil Wetness Condition Recorded?	Yes ☐	No ☐	N/A ☐
.1939 (a)(4)	Soil Depth to Rock or Parent Material Recorded When Encountered	Yes ☐	No ☐	N/A ☐
.1939 (a)(5)	Depth to Restrictive Horizons Recorded When Encountered?	Yes ☐	No ☐	N/A ☐
.1939 (a)(6)	Sufficient Available Space Recorded?	Yes ☐	No ☐	N/A ☐
.1937(m)	Are the Profile Locations Shown?			
.1939(a)	Are the S/PS Profiles in system & in repair area?	Yes ☐	No ☐	N/A ☐
& .1945(b)	Number of auger borings made: _____ Were sufficient auger borings made?	Yes ☐	No ☐	N/A ☐
.1939(d), .1955, .1956, .1957	LTAR	Yes ☐	No ☐	N/A ☐
	Improvement Permit/Construction Authorization			
.1937(g) 130A-336(a)	Proposed System Type stated-Initial	Yes ☐	No ☐	N/A ☐
.1945(b)	Proposed System Type stated-Repair	Yes ☐	No ☐	N/A ☐
130A-336 (a)(3)	System location identifiable by setbacks - Initial	Yes ☐	No ☐	N/A ☐
.1937(g) .1945(b)	System components shown – Initial	Yes ☐	No ☐	N/A ☐
.1945(b)	Repair area shown	Yes ☐	No ☐	N/A ☐
.1937 (f)(g)	Does System design match facility, flow & WWcharacteristics?	Yes ☐	No ☐	N/A ☐
.1937 (f)(g)	Is System design consistent with soil/site conditions?	Yes ☐	No ☐	N/A ☐
.1937 (f)(g)	Is the System located in the approved area?	Yes ☐	No ☐	N/A ☐
130A-336(a)	Is the Design flow (gpd) indicated?	Yes ☐	No ☐	N/A ☐

130A-336(a)	Number of Bedrooms, employees, seats, etc. indicated?	Yes ☐	No ☐	N/A ☐
.1937(g)	Trench depth indicated?	Yes ☐	No ☐	N/A ☐
.1937(g)	Trench width indicated?	Yes ☐	No ☐	N/A ☐
.1937(g)	Trench length indicated?	Yes ☐	No ☐	N/A ☐
130A-336(a)(1)	Proposed/existing well shown?	Yes ☐	No ☐	N/A ☐
130A-336(a)(1)	Property line lengths shown?	Yes ☐	No ☐	N/A ☐
130A-336(a)	Facility/appurtenance setbacks shown from fixed points?	Yes ☐	No ☐	N/A ☐
	Operation Permit			
.1937(i)	System type as described in table V(a) of rule .1961	Yes ☐	No ☐	N/A ☐
.1937(i)	Conditions for system performance, operation, maintenance, monitoring and reporting.	Yes ☐	No ☐	N/A ☐

II. WASPS Review:

Construction authorization issued	Yes ☐	No ☐	N/A ☐
Installation approval issued	Yes ☐	No ☐	N/A ☐
Operation permit issued	Yes ☐	No ☐	N/A ☐
Other related documentation	Yes ☐	No ☐	N/A ☐

Items requiring correction/modification: _____

Comments: Adding new building, no occupancy increase

IA issued date: _____

OP issued date: _____

Review performed by: J Walker RS Date performed: 7/26/11

4158B

MECKLENBURG COUNTY
HEALTH DEPARTMENT

APPLICATION FOR APPROVAL TO USE AN EXISTING ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM / WATER SUPPLY WELL

APPLICATION TYPE: (●) SEPTIC ONLY ( ) WELL ONLY ( ) SEPTIC & WELL
( ) ADDITION OR RENOVATION WITH OCCUPANCY INCREASE
(●) ADDITION OR RENOVATION WITH NO OCCUPANCY INCREASE
( ) EXCHANGE MOBILE HOME (SAME # BEDROOMS)
( ) COMMERCIAL OR INDUSTRIAL

PERSON FILING APPLICATION:
NAME: Darren J. Steinhilber
ADDRESS: 700 North Tryon Street
CITY: Charlotte
STATE: NC ZIP: 28202
PHONE: (704) 336-4447
ALTERNATE PHONE: (704) 579-1537
E-MAIL: Darren.Steinhilber@mecklenburgcountync.gov

PROPERTY OWNER: ☐ SAME AS PERSON FILING APPLICATION
NAME: Mecklenburg County
ADDRESS: 700 North Tryon St
CITY: Charlotte
STATE: NC ZIP: 28202
PHONE:
ALTERNATE PHONE:
E-MAIL:

JOB LOCATION INFORMATION
TAX PARCEL #: 141-202-01
STREET ADDRESS:
CITY:
STATE: NC **ZIP:**

SUBDIVISION OR MOBILE HOME PARK NAME:
LOT #:

WATER SUPPLY:
(●) MUNICIPAL ( ) PRIVATE WELL ( ) PUBLIC WELL ( ) SHARED WELL ( ) OTHER

RESIDENTIAL PROPERTY TYPE: (●) N/A
( ) HOUSE ( ) MODULAR HOME ( ) MULTIPLE FAMILY
( ) SINGLE MOBILE HOME ( ) DOUBLE WIDE
( ) OTHER

OCCUPANCY (both fields are required):
NUMBER OF BEDROOMS:
NUMBER OF OCCUPANTS:

COMMERCIAL / INDUSTRIAL PROPERTY TYPE: ☐ N/A
TYPE OF BUSINESS: Compost/Yard Waste Facility
EMPLOYEES PER SHIFT: 10
OF SHIFTS: 1.0

INDUSTRIAL WASTES? ( ) YES (●) NO
UNDERGROUND STORAGE TANKS? ( ) YES (●) NO

ADDITION/RENOVATION TYPE ATTACHED TO EXISTING STRUCTURE:
☐ BEDROOM ☐ BATHROOM ☐ KITCHEN ☐ DINING ROOM ☐ LIVING ROOM ☐ DEN
☐ GARAGE ☐ SUNROOM ☐ PORCH ☐ DECK ☒ OTHER New Buildings

ADDITION/RENOVATION TYPE DETACHED FROM EXISTING STRUCTURE:
☐ DETACHED GARAGE ☐ DETACHED GARAGE WITH PLUMBING ☐ POOL HOUSE ☐ SHOP ☐ BARN
☐ STORAGE SHED ☐ DETACHED PORCH / DECK ☐ OTHER

*The undersigned, owner, or legal agent for the owner, of the property described above as the "Job Location" has read the foregoing application, acknowledges that the contents of same are true, and authorizes the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

Owner's/Agent's Signature — Date: 7/15/11

A PROPOSED PLOT PLAN (see page 2) is required to be submitted with each application.

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

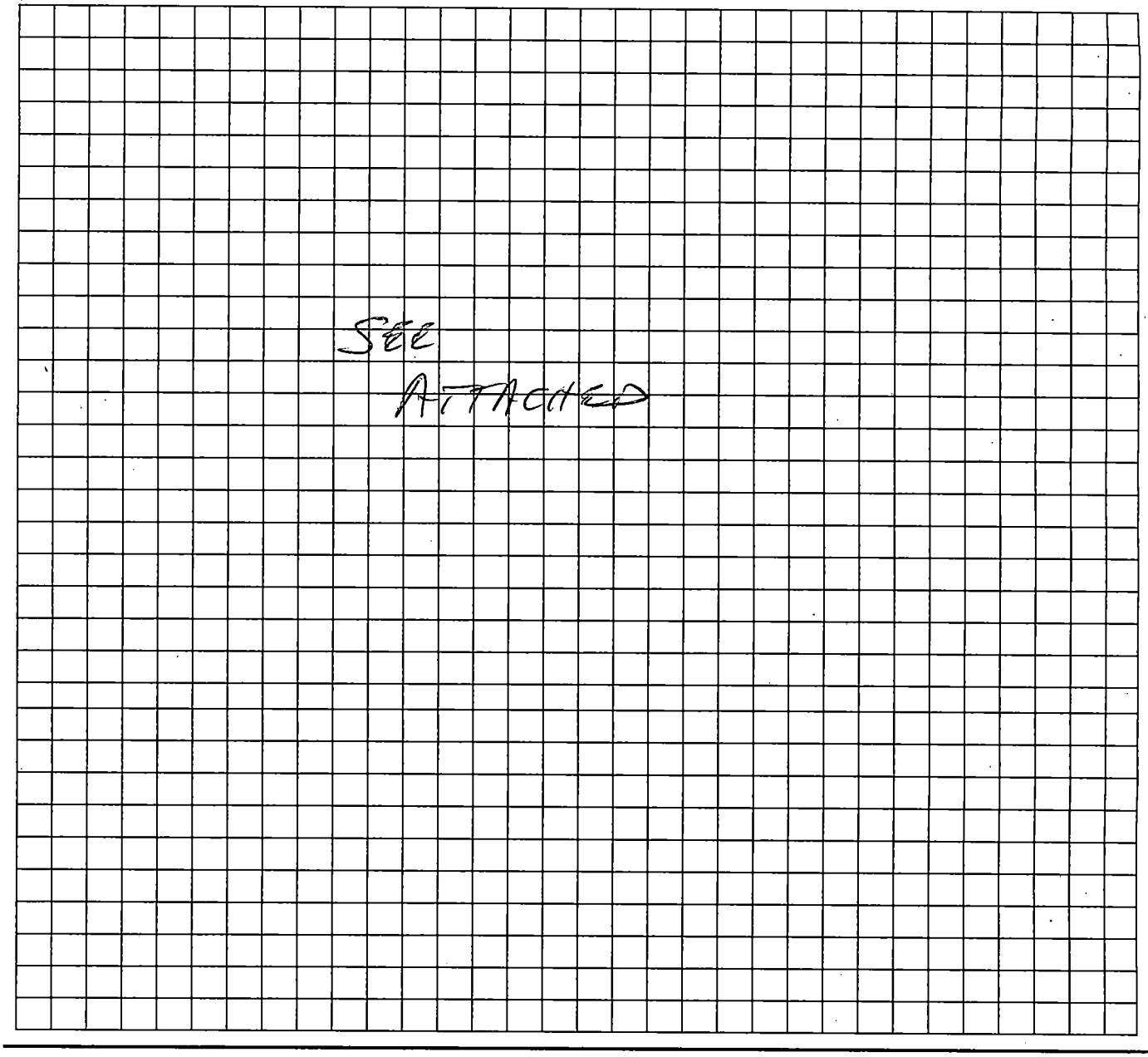
Revised on: 01/03/11

File #: 4158B

PROPOSED PLOT PLAN

A drawing showing the locations of the following items is required: existing and proposed property lines with dimensions, easements or right-of-ways, proposed building pad(s) or existing building footprint(s), all appurtenances (garage, driveway, deck, pool, etc.), location of existing or proposed well(s), location of existing or proposed sewer lines and sewage disposal systems, surface water bodies, and any aboveground or underground storage tanks. Provide names for all roads that adjoin the property.

Street Address: 5631 West Boulevard, Charlotte, NC 28208 Tax Parcel #: 14120201



*The undersigned, an authorized agent of the Mecklenburg County Health Department, certifies that the Department has approved the Request for the "Job Location" contained in this document. This approval is granted in accordance with the provisions of Laws and Rules for Sanitary Sewage Collection, Treatment, and Disposal and Water Supply Wells in effect at the time of issuance of the permit and is subject to the following provisions:

- No work shall be conducted on the septic tank system until an installation, construction, alteration and/or repair approval is granted by this Department.
- This permit is not transferable.
- Addition/Renovation approval valid 1 year from issuance date
- Mobile home exchange approval valid 6 months from issuance date

Approval granted for new buildings use existing system

Philo Walker RS — REHS Signature

7/26/11 — Date

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

Revised on: 01/03/11