

Green Energy Park

Final Master Plan



WithersRavenel
Our People. Your Success.

7 May, 2019



Joe Wilkey Rd

Landfill

Recycling Center

Art Center

Greenhouses

Event Space

Kilns

Haywood Rd

Harmony Hill Rd

Tunnel Mountain Pk

1514

Dellwood Dr

Western Ln

Moody Rd

Proposed Park Program

- Animal Recue Center
- Innovation Center (approx **13,000** sf)
- Event Space
- Walking Trails
- Dog Run / Park
- Open Space
- Parking
- Relocate Recycling Center **off-site**



Existing Conditions

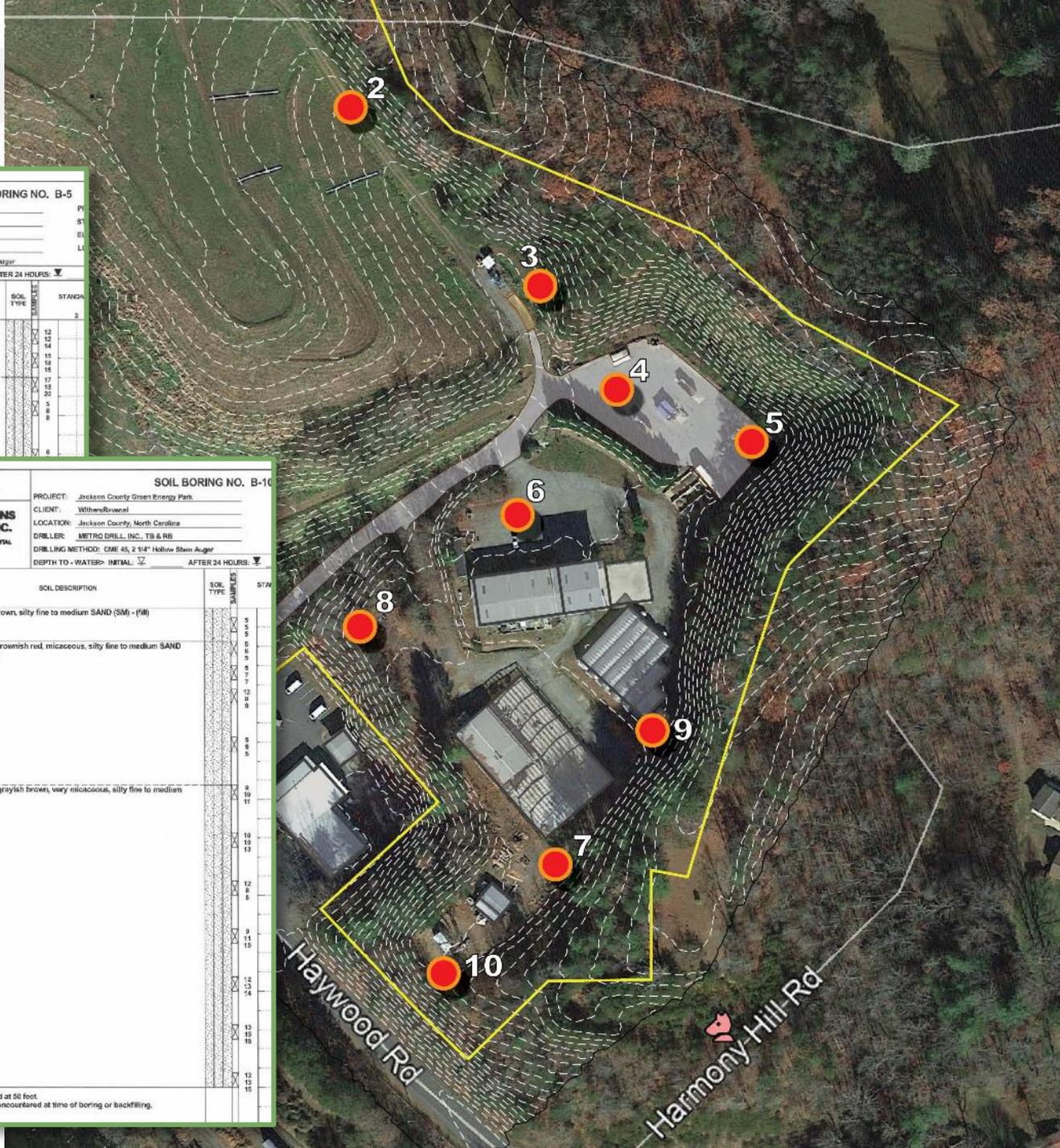




Topography



Geotechnical



SOIL BORING NO. B-3	
IBLE INC. SUNNELL-LAMMONS ENGINEERING, INC. GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS	
PROJECT: Jackson County Green Energy Park CLIENT: WithersRavenel LOCATION: Jackson County, North Carolina DRILLER: METRO DRILL, INC., TB & RB DRILLING METHOD: CME 45, 2 1/4" Hollow Stem Auger DEPTH TO - WATER - INITIAL: <input type="checkbox"/> AFTER 24 HOURS: <input type="checkbox"/>	PROJE: Jackson County Green Energy Park SEAR: WithersRavenel ELEV: Jackson County, North Carolina LOGG: METRO DRILL, INC., TB & RB CME 45, 2 1/4" Hollow Stem Auger AFTER 24 HOURS: <input type="checkbox"/>
DEPTH (FT)	SOIL DESCRIPTION
5	Very dense, grayish brown, micaceous, silty fine to medium SAND (SM) - (residuum)
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SOIL BORING NO. B-5	
IBLE INC. SUNNELL-LAMMONS ENGINEERING, INC. GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS	
PROJECT: Jackson County Green Energy Park CLIENT: WithersRavenel LOCATION: Jackson County, North Carolina DRILLER: METRO DRILL, INC., TB & RB DRILLING METHOD: CME 45, 2 1/4" Hollow Stem Auger DEPTH TO - WATER - INITIAL: <input type="checkbox"/> AFTER 24 HOURS: <input type="checkbox"/>	PROJE: Jackson County Green Energy Park SEAR: WithersRavenel ELEV: Jackson County, North Carolina LOGG: METRO DRILL, INC., TB & RB CME 45, 2 1/4" Hollow Stem Auger AFTER 24 HOURS: <input type="checkbox"/>
DEPTH (FT)	SOIL DESCRIPTION
5	Very firm to dense, grayish brown, micaceous, silty fine to medium SAND (SM) - (residuum)
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SOIL BORING NO. B-7	
IBLE INC. SUNNELL-LAMMONS ENGINEERING, INC. GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS	
PROJECT: Jackson County Green Energy Park CLIENT: WithersRavenel LOCATION: Jackson County, North Carolina DRILLER: METRO DRILL, INC., TB & RB DRILLING METHOD: CME 45, 2 1/4" Hollow Stem Auger DEPTH TO - WATER - INITIAL: <input type="checkbox"/> AFTER 24 HOURS: <input type="checkbox"/>	PROJE: Jackson County Green Energy Park SEAR: WithersRavenel ELEV: Jackson County, North Carolina LOGG: METRO DRILL, INC., TB & RB CME 45, 2 1/4" Hollow Stem Auger AFTER 24 HOURS: <input type="checkbox"/>
DEPTH (FT)	SOIL DESCRIPTION
5	Firm, reddish brown, micaceous, silty fine to medium SAND (SM) - (fill)
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SOIL BORING NO. B-8	
IBLE INC. SUNNELL-LAMMONS ENGINEERING, INC. GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS	
PROJECT: Jackson County Green Energy Park CLIENT: WithersRavenel LOCATION: Jackson County, North Carolina DRILLER: METRO DRILL, INC., TB & RB DRILLING METHOD: CME 45, 2 1/4" Hollow Stem Auger DEPTH TO - WATER - INITIAL: <input type="checkbox"/> AFTER 24 HOURS: <input type="checkbox"/>	PROJE: Jackson County Green Energy Park SEAR: WithersRavenel ELEV: Jackson County, North Carolina LOGG: METRO DRILL, INC., TB & RB CME 45, 2 1/4" Hollow Stem Auger AFTER 24 HOURS: <input type="checkbox"/>
DEPTH (FT)	SOIL DESCRIPTION
5	Loose to firm, reddish brown, slightly micaceous, silty fine to medium SAND (SM) - (fill)
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SOIL BORING NO. B-10	
IBLE INC. SUNNELL-LAMMONS ENGINEERING, INC. GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS	
PROJECT: Jackson County Green Energy Park CLIENT: WithersRavenel LOCATION: Jackson County, North Carolina DRILLER: METRO DRILL, INC., TB & RB DRILLING METHOD: CME 45, 2 1/4" Hollow Stem Auger DEPTH TO - WATER - INITIAL: <input type="checkbox"/> AFTER 24 HOURS: <input type="checkbox"/>	PROJE: Jackson County Green Energy Park SEAR: WithersRavenel ELEV: Jackson County, North Carolina LOGG: METRO DRILL, INC., TB & RB CME 45, 2 1/4" Hollow Stem Auger AFTER 24 HOURS: <input type="checkbox"/>
DEPTH (FT)	SOIL DESCRIPTION
5	Loose, reddish brown, silty fine to medium SAND (SM) - (fill)
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Haywood Rd

Harmony Hill Rd

Green Energy Park Final Master Plan



Final Master Plan

Art Walk Detail



Final Master Plan

Campus Detail



Final Master Plan *Implementation*



Final Master Plan

Phase 1

Phase 1
Relocate Kilns, Demo & Site Work for Animal Shelter

\$79,656



Final Master Plan

Phase 2

Phase 1	
Relocate Kilns, Demo & Site Work for Animal Shelter	\$79,656
Phase 2	
Remove SRC, Site Work for Event Space & Innovation Center	\$473,415
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Subtotal	\$553,071



Final Master Plan

Phase 3

Phase 1	
Relocate Kilns, Demo & Site Work for Animal Shelter	\$79,656
Phase 2	
Remove SRC, Site Work for Event Space & Innovation Center	\$473,415
Phase 3	
Animal Shelter, Event Plaza, Drives, Demo Greenhouses	\$4,336,524
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Subtotal	\$4,889,595



Final Master Plan

Phase 4

Phase 1	Relocate Kilns, Demo & Site Work for Animal Shelter	\$79,656
Phase 2	Remove SRC, Site Work for Event Space & Innovation Center	\$473,415
Phase 3	Animal Shelter, Event Plaza, Drives, Demo Greenhouses	\$4,336,524
Phase 4	Walking Trails, Dog Run, Plantings and Gardens	\$157,320
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Subtotal		\$5,046,915



Final Master Plan

Phase 5



Phase 1	Relocate Kilns, Demo & Site Work for Animal Shelter	\$79,656
Phase 2	Remove SRC, Site Work for Event Space & Innovation Center	\$473,415
Phase 3	Animal Shelter, Event Plaza, Drives, Demo Greenhouses	\$4,336,524
Phase 4	Walking Trails, Dog Run, Plantings and Gardens	\$157,320
Phase 5	Innovation Center, Entry Drives & Parking	\$2,514,627
TOTAL		\$7,561,542

Green Energy Park Final Master Plan



Haywood Rd

Harmony Hill Rd