



ECS FLORIDA, LLC

"Setting the Standard for Service"

Geotechnical • Construction Materials • Environmental • Facilities

December 29, 2025

Mr. Chris Murdock
Jax Dirtworks, Inc.
310 Mealy Drive
Atlantic Beach, FL 32233

ECS Project No. 35:36135

Reference: Closeout Package
Rookery Phase 2B – Townhomes Section
Green Cove Springs, Clay County FL

Dear Mr. Murdock:

As requested, representatives of ECS Florida, LLC (ECS) have been periodically dispatched to the above referenced site to perform construction materials testing services.

The work performed included laboratory testing of subgrade material; and in-place density testing of lot fill, backfill, subgrade and base material. The test results indicated the tested materials have met the project requirements.

Asphalt paving inspections were performed directly by Duval Asphalt and submitted separately to Jax Dirtworks.

Thank you again for allowing ECS the opportunity to provide testing services for this project. Should you have any questions and/or comments regarding this report or its contents, please contact us.

Respectfully submitted,

ECS FLORIDA, LLC

Christopher M. Egan, State of Florida, Professional Engineer, License No. 10088
This document is electronically signed and sealed by Christopher M. Egan on 12/29/2025.
Signatures must be verified on any electronic copies.

2025.12.29
14:37:30-05'00'

Chris M. Egan, P.E.
Assistant Office Manager, Principal
Licensed, Florida No. 79645

Chance Leonard
Subsidiary Asst. Regional Manager

Enclosure: Closeout Package



ECS Florida, LLC
11554 Davis Creek Court
Jacksonville, FL 32256
T 904.880.0960
F 904.880.0970

FIELD REPORT

Project No. **35:36135**
Report No. **16**
Day & Date **Friday 2/21/2025**
Weather **50 °/ Partly Cloudy**

Project **Rookery Phase 2B**
Location **Green Cove Springs, FL**
Client **Jax Dirtworks, Inc**
Contractor **Jax Dirtworks, Inc**

Remarks

* Travel time and mileage will be billed in accordance with the contract.

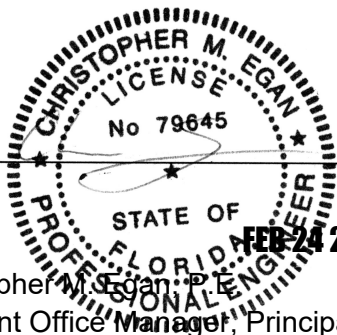
Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

As requested, we arrived on site to perform in-place density testing to determine the percent compaction of soils for lift station backfill.

Utilizing the Nuclear Density Test Method (ASTM D6938) to check the compaction of soils; test results indicated that the compacted soils, at the areas and depths tested, met the project requirements of 98% of the maximum dry density as obtained in our laboratory using the Modified Proctor Method (ASTM D1557).

These results are based upon selected locations and may not be representative of the soils in areas not tested. Should site conditions change or not be consistent with test results (e.g., pumping, rutting, standing water, etc.), ECS should be contacted immediately.

Thank you for allowing ECS Florida, LLC the opportunity to provide construction materials testing services for this project. Should you have any questions and/or comments, please contact our office.



Christopher M. Egan, P.E.
Assistant Office Manager, Principal

Chance A. Leonard
Subsidiary Assistant Regional Manager

By **Jeremy C. Risher**

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 2/21/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Jeremy C. Risher

Test Method ASTM D6938			
Nuclear Gauge No. 41			
Make	Troxler	Density Std	1615
Model	3430	Moisture Std	610
Ser. No.	33710		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-01				Brown Fine Sand with Silt			ASTM D1557-12e1-method C					108.5			14.2
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	12	Lift Station	1st Lift	D4S-01	0.01	108.5	14.2	119.2	107.0	11.4	98.6	P	
2		DT	12	Lift Station	2nd Lift	D4S-01	0.01	108.5	14.2	119.9	106.5	12.6	98.2	P	
3		DT	12	Lift Station	3rd Lift	D4S-01	0.01	108.5	14.2	117.8	106.8	10.3	98.4	P	
4		DT	12	Lift Station	4th Lift	D4S-01	0.01	108.5	14.2	118.8	106.3	11.8	98.0	P	
5		DT	12	Lift Station	5th Lift	D4S-01	0.01	108.5	14.2	119.6	107.4	11.4	99.0	P	
6		DT	12	Lift Station	6th Lift	D4S-01	0.01	108.5	14.2	119.9	107.3	11.7	98.9	P	
7		DT	12	Lift Station	7th Lift	D4S-01	0.01	108.5	14.2	118.5	106.8	11.0	98.4	P	
8		DT	12	Lift Station	8th Lift	D4S-01	0.01	108.5	14.2	119.5	106.1	12.6	97.8	P	
9		DT	12	Lift Station	9th Lift	D4S-01	0.01	108.5	14.2	120.1	106.9	12.4	98.5	P	
10		DT	12	Lift Station	10th Lift	D4S-01	0.01	108.5	14.2	120.7	108.0	11.8	99.5	P	
11		DT	12	Lift Station	11th Lift	D4S-01	0.01	108.5	14.2	119.3	107.2	11.3	98.8	P	

**Field Compaction Summary, ASTM D6938****ECS Florida, LLC**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 2/21/2025

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Jeremy C. Risher

Test Method ASTM D6938			
Nuclear Gauge No. 41			
Make	Troxler	Density Std	1615
Model	3430	Moisture Std	610
Ser. No.	33710		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
12		DT	12	Lift Station	12th Lift	D4S-01	0.01	108.5	14.2	119.7	106.8	12.1	98.4	P	
13		DT	12	Lift Station	13th Lift	D4S-01	0.01	108.5	14.2	119.7	107.4	11.5	99.0	P	
14		DT	12	Lift Station	14th Lift	D4S-01	0.01	108.5	14.2	117.8	106.5	10.6	98.2	P	
15		DT	12	Lift Station	15th Lift	D4S-01	0.01	108.5	14.2	119.4	107.7	10.9	99.3	P	



ECS Florida, LLC
11554 Davis Creek Court
Jacksonville, FL 32256
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FIELD REPORT

Project No. **35:36135**
Report No. **20**
Day & Date **Thursday 3/27/2025**
Weather **°/**

Project **Rookery Phase 2B**
Location **Green Cove Springs, FL**
Client **Jax Dirtworks, Inc**
Contractor **Jax Dirtworks, Inc**

Remarks

* Travel time and mileage will be billed in accordance with the contract.

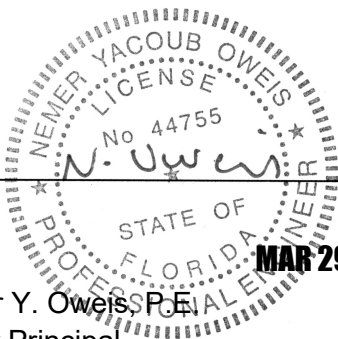
Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

As requested, we arrived on site to perform in-place density testing to determine the percent compaction of soils for sewer pipe backfill.

Utilizing the Nuclear Density Test Method (ASTM D6938) to check the compaction of soils; test results indicated that the compacted soils, at the areas and depths tested, met the project requirements of 98% of the maximum dry density as obtained in our laboratory using the Modified Proctor Method (ASTM D1557).

These results are based upon selected locations and may not be representative of the soils in areas not tested. Should site conditions change or not be consistent with test results (e.g., pumping, rutting, standing water, etc.), ECS should be contacted immediately.

Thank you for allowing ECS Florida, LLC the opportunity to provide construction materials testing services for this project. Should you have any questions and/or comments, please contact our office.



Nemer Y. Oweis, P.E.
Senior Principal

Kathleen Gaal
CMT Senior Project Manager

By Robert Hicks

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 3/27/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3440	Moisture Std	0
Ser. No.	21913		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-01				Brown Fine Sand with Silt			ASTM D1557					108.5			14.2
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	12	8" Sewer between Lift Station & MH-245	2' Above	D4S-01	0.00	108.5	14.2	123.1	106.7	15.4	98.3	P	2' Above denotes 2' above top of pipe
2		DT	12	8" Sewer between Lift Station & MH-245	3' Above	D4S-01	0.00	108.5	14.2	122.6	107.0	14.6	98.6	P	
3		DT	12	8" Sewer between Lift Station & MH-245	4' Above	D4S-01	0.00	108.5	14.2	122.7	106.6	15.1	98.2	P	
4		DT	12	8" Sewer between Lift Station & MH-245	5' Above	D4S-01	0.00	108.5	14.2	122.0	107.2	13.8	98.8	P	
5		DT	12	8" Sewer between Lift Station & MH-245	6' Above	D4S-01	0.00	108.5	14.2	121.3	107.0	13.4	98.6	P	
6		DT	12	8" Sewer between Lift Station & MH-245	7' Above	D4S-01	0.00	108.5	14.2	122.8	107.7	14.0	99.3	P	
7		DT	12	8" Sewer between Lift Station & MH-245	8' Above	D4S-01	0.00	108.5	14.2	121.4	107.5	12.9	99.1	P	
8		DT	12	8" Sewer between Lift Station & MH-245	9' Above	D4S-01	0.00	108.5	14.2	121.2	106.9	13.4	98.5	P	
9		DT	12	8" Sewer between Lift Station & MH-245	10' Above	D4S-01	0.00	108.5	14.2	122.5	106.8	14.7	98.4	P	
10		DT	12	8" Sewer between Lift Station & MH-245	11' Above	D4S-01	0.00	108.5	14.2	120.5	107.4	12.2	99.0	P	
11		DT	12	8" Sewer between Lift Station & MH-245	12' Above	D4S-01	0.00	108.5	14.2	121.7	107.9	12.8	99.4	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 3/27/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3440	Moisture Std	0
Ser. No.	21913		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
12		DT	12	8" Sewer between Lift Station & MH-245	13' Above	D4S-01	0.00	108.5	14.2	119.6	107.0	11.8	98.6	P	
13		DT	12	8" Sewer between Lift Station & MH-245	14' Above	D4S-01	0.00	108.5	14.2	119.3	107.2	11.3	98.8	P	
14		DT	12	Around MH-245	1st Lift	D4S-01	0.00	108.5	14.2	123.6	106.4	16.2	98.1	P	
15		DT	12	Around MH-245	2nd Lift	D4S-01	0.00	108.5	14.2	124.0	106.9	16.0	98.5	P	
16		DT	12	Around MH-245	3rd Lift	D4S-01	0.00	108.5	14.2	124.1	107.6	15.3	99.2	P	
17		DT	12	Around MH-245	4th Lift	D4S-01	0.00	108.5	14.2	123.0	108.0	13.9	99.5	P	
18		DT	12	Around MH-245	5th Lift	D4S-01	0.00	108.5	14.2	122.2	107.6	13.6	99.2	P	
19		DT	12	Around MH-245	6th Lift	D4S-01	0.00	108.5	14.2	122.1	107.1	14.0	98.7	P	
20		DT	12	Around MH-245	7th Lift	D4S-01	0.00	108.5	14.2	120.9	106.8	13.2	98.4	P	
21		DT	12	Around MH-245	8th Lift	D4S-01	0.00	108.5	14.2	120.2	107.4	11.9	99.0	P	
22		DT	12	Around MH-245	9th Lift	D4S-01	0.00	108.5	14.2	121.1	107.7	12.4	99.3	P	
23		DT	12	Around MH-245	10th Lift	D4S-01	0.00	108.5	14.2	120.8	107.0	12.9	98.6	P	
24		DT	12	Around MH-245	11th Lift	D4S-01	0.00	108.5	14.2	121.7	107.6	13.1	99.2	P	

**Field Compaction Summary, ASTM D6938****ECS Florida, LLC**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 3/27/2025

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3440	Moisture Std	0
Ser. No.	21913		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
25		DT	12	Around MH-245	12th Lift	D4S-01	0.00	108.5	14.2	122.3	107.1	14.2	98.7	P	
26		DT	12	Around MH-245	13th Lift	D4S-01	0.00	108.5	14.2	121.4	107.8	12.6	99.4	P	
27		DT	12	Around MH-245	14th Lift	D4S-01	0.00	108.5	14.2	121.2	107.9	12.3	99.4	P	



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FIELD REPORT

Project No. **35:36135**
Report No. **21**
Day & Date **Friday 3/28/2025**
Weather **°/**

Project **Rookery Phase 2B**
Location **Green Cove Springs, FL**
Client **Jax Dirtworks, Inc**
Contractor **Jax Dirtworks, Inc**

Remarks

* Travel time and mileage will be billed in accordance with the contract.

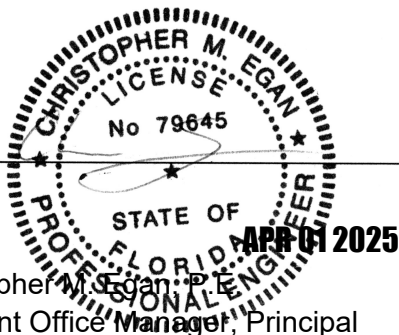
Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

As requested, we arrived on site to perform in-place density testing to determine the percent compaction of soils for sewer pipe backfill.

Utilizing the Nuclear Density Test Method (ASTM D6938) to check the compaction of soils; test results indicated that the compacted soils, at the areas and depths tested, met the project requirements of 98% of the maximum dry density as obtained in our laboratory using the Modified Proctor Method (ASTM D1557).

These results are based upon selected locations and may not be representative of the soils in areas not tested. Should site conditions change or not be consistent with test results (e.g., pumping, rutting, standing water, etc.), ECS should be contacted immediately.

Thank you for allowing ECS Florida, LLC the opportunity to provide construction materials testing services for this project. Should you have any questions and/or comments, please contact our office.



Christopher M. Egan, P.E.
Assistant Office Manager, Principal

Kathleen Gaal
CMT Senior Project Manager

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 3/28/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3440	Moisture Std	0
Ser. No.	21913		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-01				Brown Fine Sand with Silt			ASTM D1557					108.5			14.2
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	12	8" Sewer Pipe between MH-245 & MH-245A	2' Above	D4S-01	0.00	108.5	14.2	124.0	106.8	16.1	98.4	P	2' Above denotes 2' above top of pipe
2		DT	12	8" Sewer Pipe between MH-245 & MH-245A	3' Above	D4S-01	0.00	108.5	14.2	123.7	106.3	16.4	98.0	P	
3		DT	12	8" Sewer Pipe between MH-245 & MH-245A	4' Above	D4S-01	0.00	108.5	14.2	123.8	107.0	15.7	98.6	P	
4		DT	12	8" Sewer Pipe between MH-245 & MH-245A	5' Above	D4S-01	0.00	108.5	14.2	123.8	106.7	16.0	98.3	P	
5		DT	12	8" Sewer Pipe between MH-245 & MH-245A	6' Above	D4S-01	0.00	108.5	14.2	123.6	106.3	16.3	98.0	P	
6		DT	12	8" Sewer Pipe between MH-245 & MH-245A	7' Above	D4S-01	0.00	108.5	14.2	123.2	107.2	14.9	98.8	P	
7		DT	12	8" Sewer Pipe between MH-245 & MH-245A	8' Above	D4S-01	0.00	108.5	14.2	122.2	107.0	14.2	98.6	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 3/28/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3440	Moisture Std	0
Ser. No.	21913		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
8		DT	12	8" Sewer Pipe between MH-245 & MH-245A	9' Above	D4S-01	0.00	108.5	14.2	123.3	107.4	14.8	99.0	P	
9		DT	12	8" Sewer Pipe between MH-245 & MH-245A	10' Above	D4S-01	0.00	108.5	14.2	123.4	106.8	15.5	98.4	P	
10		DT	12	8" Sewer Pipe between MH-245 & MH-245A	11' Above	D4S-01	0.00	108.5	14.2	122.3	107.3	14.0	98.9	P	
11		DT	12	8" Sewer Pipe between MH-245 & MH-245A	12' Above	D4S-01	0.00	108.5	14.2	121.4	106.9	13.6	98.5	P	
12		DT	12	8" Sewer Pipe between MH-245 & MH-245A	13' Above	D4S-01	0.00	108.5	14.2	122.6	107.6	13.9	99.2	P	
13		DT	12	8" Sewer Pipe between MH-245 & MH-245A	14' Above	D4S-01	0.00	108.5	14.2	121.7	108.0	12.7	99.5	P	
14		DT	12	8" Sewer Pipe between MH-245 & MH-245A	15' Above	D4S-01	0.00	108.5	14.2	121.2	107.2	13.1	98.8	P	
15		DT	12	Around MH-245A	1st Lift	D4S-01	0.00	108.5	14.2	123.8	106.8	15.9	98.4	P	
16		DT	12	Around MH-245A	2nd Lift	D4S-01	0.00	108.5	14.2	123.9	106.3	16.6	98.0	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 3/28/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3440	Moisture Std	0
Ser. No.	21913		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
17		DT	12	Around MH-245A	3rd Lift	D4S-01	0.00	108.5	14.2	124.1	106.7	16.3	98.3	P	
18		DT	12	Around MH-245A	4th Lift	D4S-01	0.00	108.5	14.2	123.7	107.4	15.2	99.0	P	
19		DT	12	Around MH-245A	5th Lift	D4S-01	0.00	108.5	14.2	123.7	106.9	15.7	98.5	P	
20		DT	12	Around MH-245A	6th Lift	D4S-01	0.00	108.5	14.2	123.5	106.5	16.0	98.2	P	
21		DT	12	Around MH-245A	7th Lift	D4S-01	0.00	108.5	14.2	123.1	107.2	14.8	98.8	P	
22		DT	12	Around MH-245A	8th Lift	D4S-01	0.00	108.5	14.2	123.4	107.8	14.5	99.4	P	
23		DT	12	Around MH-245A	9th Lift	D4S-01	0.00	108.5	14.2	122.1	107.1	14.0	98.7	P	
24		DT	12	Around MH-245A	10th Lift	D4S-01	0.00	108.5	14.2	123.2	106.6	15.6	98.2	P	
25		DT	12	Around MH-245A	11th Lift	D4S-01	0.00	108.5	14.2	122.8	107.4	14.3	99.0	P	
26		DT	12	Around MH-245A	12th Lift	D4S-01	0.00	108.5	14.2	122.0	107.2	13.8	98.8	P	
27		DT	12	Around MH-245A	13th Lift	D4S-01	0.00	108.5	14.2	122.5	106.9	14.6	98.5	P	
28		DT	12	Around MH-245A	14th Lift	D4S-01	0.00	108.5	14.2	121.7	107.8	12.9	99.4	P	
29		DT	12	Around MH-245A	15th Lift	D4S-01	0.00	108.5	14.2	118.7	106.9	11.0	98.5	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 3/28/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3440	Moisture Std	0
Ser. No.	21913		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
30		DT	12	8" Sewer Pipe between MH-245A & MH-246	2' Above	D4S-01	0.00	108.5	14.2	124.0	106.4	16.5	98.1	P	
31		DT	12	8" Sewer Pipe between MH-245A & MH-246	3' Above	D4S-01	0.00	108.5	14.2	122.6	106.2	15.4	97.9	P	
32		DT	12	8" Sewer Pipe between MH-245A & MH-246	4' Above	D4S-01	0.00	108.5	14.2	123.7	106.7	15.9	98.3	P	
33		DT	12	8" Sewer Pipe between MH-245A & MH-246	5' Above	D4S-01	0.00	108.5	14.2	122.4	107.3	14.1	98.9	P	
34		DT	12	8" Sewer Pipe between MH-245A & MH-246	6' Above	D4S-01	0.00	108.5	14.2	122.3	106.6	14.7	98.2	P	
35		DT	12	8" Sewer Pipe between MH-245A & MH-246	7' Above	D4S-01	0.00	108.5	14.2	121.3	107.0	13.4	98.6	P	
36		DT	12	8" Sewer Pipe between MH-245A & MH-246	8' Above	D4S-01	0.00	108.5	14.2	122.3	107.5	13.8	99.1	P	
37		DT	12	8" Sewer Pipe between MH-245A & MH-246	9' Above	D4S-01	0.00	108.5	14.2	120.3	107.1	12.3	98.7	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 3/28/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3440	Moisture Std	0
Ser. No.	21913		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
38		DT	12	8" Sewer Pipe between MH-245A & MH-246	10' Above	D4S-01	0.00	108.5	14.2	118.5	106.8	11.0	98.4	P	
39		DT	12	Around MH-246	1st Lift	D4S-01	0.00	108.5	14.2	124.2	106.4	16.7	98.1	P	
40		DT	12	Around MH-246	2nd Lift	D4S-01	0.00	108.5	14.2	123.7	106.3	16.4	98.0	P	
41		DT	12	Around MH-246	3rd Lift	D4S-01	0.00	108.5	14.2	124.0	106.9	16.0	98.5	P	
42		DT	12	Around MH-246	4th Lift	D4S-01	0.00	108.5	14.2	122.8	107.1	14.7	98.7	P	
43		DT	12	Around MH-246	5th Lift	D4S-01	0.00	108.5	14.2	122.8	106.7	15.1	98.3	P	
44		DT	12	Around MH-246	6th Lift	D4S-01	0.00	108.5	14.2	122.2	107.0	14.2	98.6	P	
45		DT	12	Around MH-246	7th Lift	D4S-01	0.00	108.5	14.2	122.2	107.8	13.4	99.4	P	
46		DT	12	Around MH-246	8th Lift	D4S-01	0.00	108.5	14.2	122.0	107.3	13.7	98.9	P	
47		DT	12	Around MH-246	9th Lift	D4S-01	0.00	108.5	14.2	118.9	106.9	11.2	98.5	P	
48		DT	12	8" Sewer Pipe between MH-246 & MH-247	2' Above	D4S-01	0.00	108.5	14.2	123.5	106.3	16.2	98.0	P	



Field Compaction Summary, ASTM D6938

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 3/28/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3440	Moisture Std	0
Ser. No.	21913		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
49		DT	12	8" Sewer Pipe between MH-246 & MH-247	3' Above	D4S-01	0.00	108.5	14.2	123.4	106.6	15.8	98.2	P	
50		DT	12	8" Sewer Pipe between MH-246 & MH-247	4' Above	D4S-01	0.00	108.5	14.2	123.7	106.4	16.3	98.1	P	
51		DT	12	8" Sewer Pipe between MH-246 & MH-247	5' Above	D4S-01	0.00	108.5	14.2	123.1	107.1	14.9	98.7	P	
52		DT	12	8" Sewer Pipe between MH-246 & MH-247	6' Above	D4S-01	0.00	108.5	14.2	122.1	107.7	13.4	99.3	P	
53		DT	12	8" Sewer Pipe between MH-246 & MH-247	7' Above	D4S-01	0.00	108.5	14.2	120.9	107.4	12.6	99.0	P	
54		DT	12	Around MH-247	1st Lift	D4S-01	0.00	108.5	14.2	123.5	106.2	16.3	97.9	P	
55		DT	12	Around MH-247	2nd Lift	D4S-01	0.00	108.5	14.2	124.3	106.5	16.7	98.2	P	
56		DT	12	Around MH-247	3rd Lift	D4S-01	0.00	108.5	14.2	123.4	106.4	16.0	98.1	P	
57		DT	12	Around MH-247	4th Lift	D4S-01	0.00	108.5	14.2	123.7	106.8	15.8	98.4	P	
58		DT	12	Around MH-247	5th Lift	D4S-01	0.00	108.5	14.2	122.5	107.3	14.2	98.9	P	

**Field Compaction Summary, ASTM D6938****ECS Florida, LLC**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 3/28/2025

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3440	Moisture Std	0
Ser. No.	21913		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
59		DT	12	Around MH-247	6th Lift	D4S-01	0.00	108.5	14.2	122.7	107.9	13.7	99.4	P	
60		DT	12	Around MH-247	7th Lift	D4S-01	0.00	108.5	14.2	121.1	107.1	13.1	98.7	P	
61		DT	12	Around MH-247	8th Lift	D4S-01	0.00	108.5	14.2	120.7	107.6	12.2	99.2	P	



ECS Florida, LLC
11554 Davis Creek Court
Jacksonville, FL 32256
T 904.880.0960
F 904.880.0970

FIELD REPORT

Project No. **35:36135**
Report No. **22**
Day & Date **Thursday 4/3/2025**
Weather **°/**

Project **Rookery Phase 2B**
Location **Green Cove Springs, FL**
Client **Jax Dirtworks, Inc**
Contractor **Jax Dirtworks, Inc**

Remarks

* Travel time and mileage will be billed in accordance with the contract.

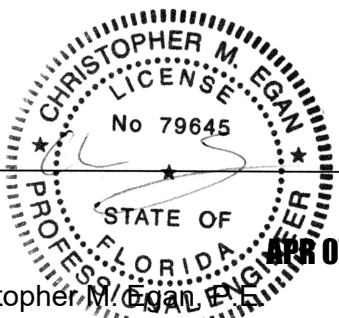
Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

As requested, we arrived on site to perform in-place density testing to determine the percent compaction of soils for sewer pipe backfill.

Utilizing the Nuclear Density Test Method (ASTM D6938) to check the compaction of soils; test results indicated that the compacted soils, at the areas and depths tested, met the project requirements of 98% of the maximum dry density as obtained in our laboratory using the Modified Proctor Method (ASTM D1557).

These results are based upon selected locations and may not be representative of the soils in areas not tested. Should site conditions change or not be consistent with test results (e.g., pumping, rutting, standing water, etc.), ECS should be contacted immediately.

Thank you for allowing ECS Florida, LLC the opportunity to provide construction materials testing services for this project. Should you have any questions and/or comments, please contact our office.



Christopher M. Egan, P.E.
Assistant Office Manager, Principal

Kathleen Gaal
CMT Senior Project Manager

By Robert Hicks

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 4/3/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3440	Moisture Std	0
Ser. No.	21913		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-01				Brown Fine Sand with Silt			ASTM D1557					108.5			14.2
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	12	8" Sewer Pipe between MH-247 & MH-248	2' Above	D4S-01	0.00	108.5	14.2	121.1	106.4	13.8	98.1	P	2' Above denotes 2' above top of pipe
2		DT	12	8" Sewer Pipe between MH-247 & MH-248	3' Above	D4S-01	0.00	108.5	14.2	121.9	106.8	14.1	98.4	P	
3		DT	12	8" Sewer Pipe between MH-247 & MH-248	4' Above	D4S-01	0.00	108.5	14.2	121.0	107.5	12.6	99.1	P	
4		DT	12	8" Sewer Pipe between MH-247 & MH-248	5' Above	D4S-01	0.00	108.5	14.2	121.7	106.9	13.8	98.5	P	
5		DT	12	Around MH-248	1st Lift	D4S-01	0.00	108.5	14.2	122.1	106.8	14.3	98.4	P	
6		DT	12	Around MH-248	2nd Lift	D4S-01	0.00	108.5	14.2	121.9	106.5	14.5	98.2	P	
7		DT	12	Around MH-248	3rd Lift	D4S-01	0.00	108.5	14.2	121.3	107.1	13.3	98.7	P	
8		DT	12	Around MH-248	4th Lift	D4S-01	0.00	108.5	14.2	122.6	107.8	13.7	99.4	P	
9		DT	12	Around MH-248	5th Lift	D4S-01	0.00	108.5	14.2	121.0	107.3	12.8	98.9	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 4/3/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3440	Moisture Std	0
Ser. No.	21913		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
10		DT	12	Around MH-248	6th Lift	D4S-01	0.00	108.5	14.2	121.1	106.6	13.6	98.2	P	
11		DT	12	8" Sewer Pipe between MH-248 & MH-249	2' Above	D4S-01	0.00	108.5	14.2	122.2	107.2	14.0	98.8	P	
12		DT	12	8" Sewer Pipe between MH-248 & MH-249	3' Above	D4S-01	0.00	108.5	14.2	122.4	106.9	14.5	98.5	P	
13		DT	12	8" Sewer Pipe between MH-248 & MH-249	4' Above	D4S-01	0.00	108.5	14.2	121.4	107.8	12.6	99.4	P	
14		DT	12	8" Sewer Pipe between MH-248 & MH-249	5' Above	D4S-01	0.00	108.5	14.2	120.9	107.1	12.9	98.7	P	
15		DT	12	Around MH-249	1st Lift	D4S-01	0.00	108.5	14.2	122.0	106.6	14.4	98.2	P	
16		DT	12	Around MH-249	2nd Lift	D4S-01	0.00	108.5	14.2	122.6	106.9	14.7	98.5	P	
17		DT	12	Around MH-249	3rd Lift	D4S-01	0.00	108.5	14.2	121.8	107.6	13.2	99.2	P	
18		DT	12	Around MH-249	4th Lift	D4S-01	0.00	108.5	14.2	121.4	108.0	12.4	99.5	P	
19		DT	12	Around MH-249	5th Lift	D4S-01	0.00	108.5	14.2	121.0	107.2	12.9	98.8	P	
20		DT	12	Around MH-249	6th Lift	D4S-01	0.00	108.5	14.2	121.2	106.7	13.6	98.3	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 4/3/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3440	Moisture Std	0
Ser. No.	21913		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
21		DT	12	8" Sewer Pipe between MH-245 & MH-250	2' Above	D4S-01	0.00	108.5	14.2	120.7	107.0	12.8	98.6	P	
22		DT	12	8" Sewer Pipe between MH-245 & MH-250	3' Above	D4S-01	0.00	108.5	14.2	122.5	106.6	14.9	98.2	P	
23		DT	12	8" Sewer Pipe between MH-245 & MH-250	4' Above	D4S-01	0.00	108.5	14.2	122.5	106.9	14.6	98.5	P	
24		DT	12	8" Sewer Pipe between MH-245 & MH-250	5' Above	D4S-01	0.00	108.5	14.2	121.9	107.4	13.5	99.0	P	
25		DT	12	8" Sewer Pipe between MH-245 & MH-250	6' Above	D4S-01	0.00	108.5	14.2	122.8	107.9	13.8	99.4	P	
26		DT	12	8" Sewer Pipe between MH-245 & MH-250	7' Above	D4S-01	0.00	108.5	14.2	121.1	107.0	13.2	98.6	P	
27		DT	12	8" Sewer Pipe between MH-245 & MH-250	8' Above	D4S-01	0.00	108.5	14.2	122.2	106.7	14.5	98.3	P	
28		DT	12	8" Sewer Pipe between MH-245 & MH-250	9' Above	D4S-01	0.00	108.5	14.2	122.1	106.3	14.9	98.0	P	

**Field Compaction Summary, ASTM D6938****ECS Florida, LLC**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 4/3/2025

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3440	Moisture Std	0
Ser. No.	21913		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
29		DT	12	8" Sewer Pipe between MH-245 & MH-250	10' Above	D4S-01	0.00	108.5	14.2	121.9	106.8	14.1	98.4	P	



ECS Florida, LLC
11554 Davis Creek Court
Jacksonville, FL 32256
T 904.880.0960
F 904.880.0970

FIELD REPORT

Project No. **35:36135**
Report No. **23**
Day & Date **Friday 4/4/2025**
Weather **°/**

Project **Rookery Phase 2B**
Location **Green Cove Springs, FL**
Client **Jax Dirtworks, Inc**
Contractor **Jax Dirtworks, Inc**

Remarks

* Travel time and mileage will be billed in accordance with the contract.

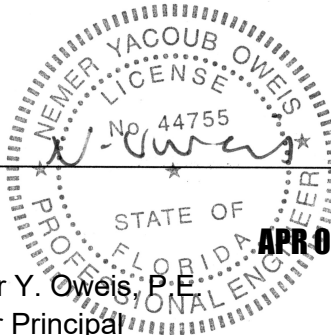
Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

As requested, we arrived on site to perform in-place density testing to determine the percent compaction of soils for sewer pipe backfill.

Utilizing the Nuclear Density Test Method (ASTM D6938) to check the compaction of soils; test results indicated that the compacted soils, at the areas and depths tested, met the project requirements of 98% of the maximum dry density as obtained in our laboratory using the Modified Proctor Method (ASTM D1557).

These results are based upon selected locations and may not be representative of the soils in areas not tested. Should site conditions change or not be consistent with test results (e.g., pumping, rutting, standing water, etc.), ECS should be contacted immediately.

Thank you for allowing ECS Florida, LLC the opportunity to provide construction materials testing services for this project. Should you have any questions and/or comments, please contact our office.



Nemer Y. Oweis, P.E.
Senior Principal

Kathleen Gaal
CMT Senior Project Manager

By Robert Hicks

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 4/4/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3440	Moisture Std	0
Ser. No.	21913		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-01				Brown Fine Sand with Silt			ASTM D1557					108.5			14.2
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	12	Around MH-250	1st Lift	D4S-01	0.00	108.5	14.2	122.4	107.1	14.3	98.7	P	
2		DT	12	Around MH-250	2nd Lift	D4S-01	0.00	108.5	14.2	122.6	106.6	15.0	98.2	P	
3		DT	12	Around MH-250	3rd Lift	D4S-01	0.00	108.5	14.2	122.6	106.9	14.7	98.5	P	
4		DT	12	Around MH-250	4th Lift	D4S-01	0.00	108.5	14.2	122.3	107.4	13.9	99.0	P	
5		DT	12	Around MH-250	5th Lift	D4S-01	0.00	108.5	14.2	119.9	107.0	12.1	98.6	P	
6		DT	12	Around MH-250	6th Lift	D4S-01	0.00	108.5	14.2	118.2	106.6	10.9	98.2	P	
7		DT	12	8" Sewer between MH-250 & MH-251	2' Above	D4S-01	0.00	108.5	14.2	122.9	106.7	15.2	98.3	P	2' Above denotes 2' above top of pipe
8		DT	12	8" Sewer between MH-250 & MH-251	3' Above	D4S-01	0.00	108.5	14.2	121.9	107.1	13.8	98.7	P	
9		DT	12	8" Sewer between MH-250 & MH-251	4' Above	D4S-01	0.00	108.5	14.2	122.0	106.8	14.2	98.4	P	
10		DT	12	8" Sewer between MH-250 & MH-251	5' Above	D4S-01	0.00	108.5	14.2	118.0	107.2	10.1	98.8	P	
11		DT	12	Around MH-251	1st Lift	D4S-01	0.00	108.5	14.2	121.5	107.8	12.7	99.4	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 4/4/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3440	Moisture Std	0
Ser. No.	21913		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
12		DT	12	Around MH-251	2nd Lift	D4S-01	0.00	108.5	14.2	121.1	107.1	13.1	98.7	P	
13		DT	12	Around MH-251	3rd Lift	D4S-01	0.00	108.5	14.2	119.6	108.2	10.5	99.7	P	
14		DT	12	Around MH-251	4th Lift	D4S-01	0.00	108.5	14.2	119.7	107.8	11.0	99.4	P	
15		DT	12	Around MH-251	5th Lift	D4S-01	0.00	108.5	14.2	117.7	106.7	10.3	98.3	P	
16		DT	12	8" Sewer between MH-251 & MH-252	2' Above	D4S-01	0.00	108.5	14.2	123.2	107.9	14.2	99.4	P	
17		DT	12	8" Sewer between MH-251 & MH-252	3' Above	D4S-01	0.00	108.5	14.2	120.7	107.6	12.2	99.2	P	
18		DT	12	8" Sewer between MH-251 & MH-252	4' Above	D4S-01	0.00	108.5	14.2	118.9	107.1	11.0	98.7	P	
19		DT	12	Around MH-252	1st Lift	D4S-01	0.00	108.5	14.2	122.6	106.8	14.8	98.4	P	
20		DT	12	Around MH-252	2nd Lift	D4S-01	0.00	108.5	14.2	121.6	107.3	13.3	98.9	P	
21		DT	12	Around MH-252	3rd Lift	D4S-01	0.00	108.5	14.2	120.8	107.0	12.9	98.6	P	
22		DT	12	Around MH-252	4th Lift	D4S-01	0.00	108.5	14.2	118.3	106.7	10.9	98.3	P	
23		DT	12	8" Sewer between MH-251 & MH-253	2' Above	D4S-01	0.00	108.5	14.2	123.0	107.4	14.5	99.0	P	
24		DT	12	8" Sewer between MH-251 & MH-253	3' Above	D4S-01	0.00	108.5	14.2	121.3	108.2	12.1	99.7	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 4/4/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3440	Moisture Std	0
Ser. No.	21913		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
25		DT	12	8" Sewer between MH-251 & MH-253	4' Above	D4S-01	0.00	108.5	14.2	118.0	107.3	10.0	98.9	P	
26		DT	12	Around MH-253	1st Lift	D4S-01	0.00	108.5	14.2	122.6	106.9	14.7	98.5	P	
27		DT	12	Around MH-253	2nd Lift	D4S-01	0.00	108.5	14.2	121.5	107.6	12.9	99.2	P	
28		DT	12	Around MH-253	3rd Lift	D4S-01	0.00	108.5	14.2	120.7	106.7	13.1	98.3	P	
29		DT	12	Around MH-253	4th Lift	D4S-01	0.00	108.5	14.2	120.0	107.9	11.2	99.4	P	



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FIELD REPORT

Project No. **35:36135**
Report No. **25**
Day & Date **Thursday 4/10/2025**
Weather **°/**

Project **Rookery Phase 2B**
Location **Green Cove Springs, FL**
Client **Jax Dirtworks, Inc**
Contractor **Jax Dirtworks, Inc**

Remarks

* Travel time and mileage will be billed in accordance with the contract.

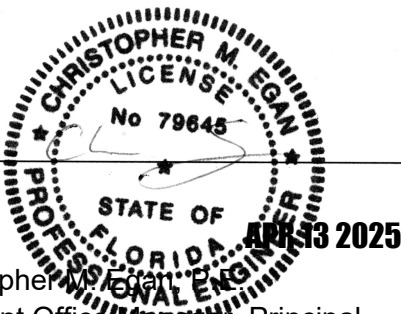
Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

As requested, we arrived on site to perform in-place density testing to determine the percent compaction of soils for sewer pipe backfill.

Utilizing the Nuclear Density Test Method (ASTM D6938) to check the compaction of soils; test results indicated that the compacted soils, at the areas and depths tested, met the project requirements of 98% of the maximum dry density as obtained in our laboratory using the Modified Proctor Method (ASTM D1557).

These results are based upon selected locations and may not be representative of the soils in areas not tested. Should site conditions change or not be consistent with test results (e.g., pumping, rutting, standing water, etc.), ECS should be contacted immediately.

Thank you for allowing ECS Florida, LLC the opportunity to provide construction materials testing services for this project. Should you have any questions and/or comments, please contact our office.



Christopher M. Egan
Assistant Office Manager, Principal

Kathleen Gaal
CMT Senior Project Manager

By Robert Hicks

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 4/10/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3440	Moisture Std	0
Ser. No.	21913		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-01				Brown Fine Sand with Silt			ASTM D1557					108.5			14.2
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	12	8" Sewer Pipe between MH-250 & MH-254	2' Above	D4S-01	0.00	108.5	14.2	122.0	106.8	14.2	98.4	P	2' Above denotes 2' above top of pipe
2		DT	12	8" Sewer Pipe between MH-250 & MH-254	3' Above	D4S-01	0.00	108.5	14.2	121.1	106.4	13.8	98.1	P	
3		DT	12	8" Sewer Pipe between MH-250 & MH-254	4' Above	D4S-01	0.00	108.5	14.2	120.1	107.1	12.1	98.7	P	
4		DT	12	8" Sewer Pipe between MH-250 & MH-254	5' Above	D4S-01	0.00	108.5	14.2	121.1	107.6	12.5	99.2	P	
5		DT	12	8" Sewer Pipe between MH-250 & MH-254	6' Above	D4S-01	0.00	108.5	14.2	121.3	106.6	13.8	98.2	P	
6		DT	12	8" Sewer Pipe between MH-250 & MH-254	7' Above	D4S-01	0.00	108.5	14.2	120.1	107.3	11.9	98.9	P	
7		DT	12	8" Sewer Pipe between MH-250 & MH-254	8' Above	D4S-01	0.00	108.5	14.2	120.3	108.1	11.3	99.6	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 4/10/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3440	Moisture Std	0
Ser. No.	21913		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
8		DT	12	8" Sewer Pipe between MH-250 & MH-254	9' Above	D4S-01	0.00	108.5	14.2	120.5	107.2	12.4	98.8	P	
9		DT	12	8" Sewer Pipe between MH-250 & MH-254	10' Above	D4S-01	0.00	108.5	14.2	119.7	106.9	12.0	98.5	P	
10		DT	12	Around MH-254	1st Lift	D4S-01	0.00	108.5	14.2	122.0	106.4	14.7	98.1	P	
11		DT	12	Around MH-254	2nd Lift	D4S-01	0.00	108.5	14.2	121.1	107.0	13.2	98.6	P	
12		DT	12	Around MH-254	3rd Lift	D4S-01	0.00	108.5	14.2	121.7	106.7	14.1	98.3	P	
13		DT	12	Around MH-254	4th Lift	D4S-01	0.00	108.5	14.2	121.3	107.5	12.8	99.1	P	
14		DT	12	Around MH-254	5th Lift	D4S-01	0.00	108.5	14.2	120.2	107.0	12.3	98.6	P	
15		DT	12	Around MH-254	6th Lift	D4S-01	0.00	108.5	14.2	120.9	107.4	12.6	99.0	P	
16		DT	12	Around MH-254	7th Lift	D4S-01	0.00	108.5	14.2	120.0	107.1	12.0	98.7	P	
17		DT	12	Around MH-254	8th Lift	D4S-01	0.00	108.5	14.2	120.2	107.9	11.4	99.4	P	
18		DT	12	Around MH-254	9th Lift	D4S-01	0.00	108.5	14.2	120.0	107.2	11.9	98.8	P	
19		DT	12	Around MH-254	10th Lift	D4S-01	0.00	108.5	14.2	120.1	108.4	10.8	99.9	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 4/10/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3440	Moisture Std	0
Ser. No.	21913		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
20		DT	12	Around MH-254	11th Lift	D4S-01	0.00	108.5	14.2	119.8	107.8	11.1	99.4	P	
21		DT	12	8" Sewer Pipe between MH-254 & MH-255	2' Above	D4S-01	0.00	108.5	14.2	121.7	107.1	13.6	98.7	P	
22		DT	12	8" Sewer Pipe between MH-254 & MH-255	3' Above	D4S-01	0.00	108.5	14.2	122.3	106.9	14.4	98.5	P	
23		DT	12	8" Sewer Pipe between MH-254 & MH-255	4' Above	D4S-01	0.00	108.5	14.2	122.2	106.5	14.7	98.2	P	
24		DT	12	8" Sewer Pipe between MH-254 & MH-255	5' Above	D4S-01	0.00	108.5	14.2	121.3	107.1	13.3	98.7	P	
25		DT	12	8" Sewer Pipe between MH-254 & MH-255	6' Above	D4S-01	0.00	108.5	14.2	122.8	107.9	13.8	99.4	P	
26		DT	12	8" Sewer Pipe between MH-254 & MH-255	7' Above	D4S-01	0.00	108.5	14.2	121.6	107.6	13.0	99.2	P	
27		DT	12	8" Sewer Pipe between MH-254 & MH-255	8' Above	D4S-01	0.00	108.5	14.2	121.2	108.3	11.9	99.8	P	
28		DT	12	Around MH-255	1st Lift	D4S-01	0.00	108.5	14.2	122.7	106.6	15.1	98.2	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 4/10/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3440	Moisture Std	0
Ser. No.	21913		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
29		DT	12	Around MH-255	2nd Lift	D4S-01	0.00	108.5	14.2	121.8	107.1	13.7	98.7	P	
30		DT	12	Around MH-255	3rd Lift	D4S-01	0.00	108.5	14.2	121.9	107.7	13.2	99.3	P	
31		DT	12	Around MH-255	4th Lift	D4S-01	0.00	108.5	14.2	120.9	107.2	12.8	98.8	P	
32		DT	12	Around MH-255	5th Lift	D4S-01	0.00	108.5	14.2	120.0	108.0	11.1	99.5	P	
33		DT	12	Around MH-255	6th Lift	D4S-01	0.00	108.5	14.2	120.0	106.7	12.5	98.3	P	
34		DT	12	Around MH-255	7th Lift	D4S-01	0.00	108.5	14.2	120.8	107.1	12.8	98.7	P	
35		DT	12	Around MH-255	8th Lift	D4S-01	0.00	108.5	14.2	120.4	107.9	11.6	99.4	P	
36		DT	12	Around MH-255	9th Lift	D4S-01	0.00	108.5	14.2	120.1	106.4	12.9	98.1	P	



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FIELD REPORT

Project No. **35:36135**
Report No. **26**
Day & Date **Friday 4/11/2025**
Weather **°/**

Project **Rookery Phase 2B**
Location **Green Cove Springs, FL**
Client **Jax Dirtworks, Inc**
Contractor **Jax Dirtworks, Inc**

Remarks

* Travel time and mileage will be billed in accordance with the contract.

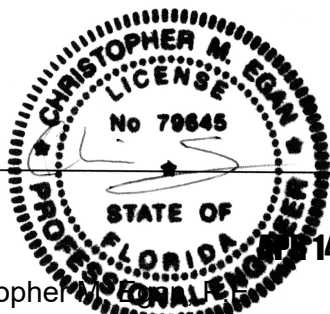
Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

As requested, we arrived on site to perform in-place density testing to determine the percent compaction of soils for sewer pipe backfill.

Utilizing the Nuclear Density Test Method (ASTM D6938) to check the compaction of soils; test results indicated that the compacted soils, at the areas and depths tested, met the project requirements of 98% of the maximum dry density as obtained in our laboratory using the Modified Proctor Method (ASTM D1557).

These results are based upon selected locations and may not be representative of the soils in areas not tested. Should site conditions change or not be consistent with test results (e.g., pumping, rutting, standing water, etc.), ECS should be contacted immediately.

Thank you for allowing ECS Florida, LLC the opportunity to provide construction materials testing services for this project. Should you have any questions and/or comments, please contact our office.



Christopher Egan
Assistant Office Manager, Principal

Kathleen Gaal
CMT Senior Project Manager

By Robert Hicks

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 4/11/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	21913		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-01				Brown Fine Sand with Silt			ASTM D1557					108.5			14.2
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	12	8" Sewer Pipe between MH-255 & MH-257A	2' Above	D4S-01	0.00	108.5	14.2	122.9	106.9	15.0	98.5	P	2' Above denotes 2' above top of pipe
2		DT	12	8" Sewer Pipe between MH-255 & MH-257A	3' Above	D4S-01	0.00	108.5	14.2	122.0	107.4	13.6	99.0	P	
3		DT	12	8" Sewer Pipe between MH-255 & MH-257A	4' Above	D4S-01	0.00	108.5	14.2	121.4	106.4	14.1	98.1	P	
4		DT	12	8" Sewer Pipe between MH-255 & MH-257A	5' Above	D4S-01	0.00	108.5	14.2	119.4	106.6	12.0	98.2	P	
5		DT	12	Around MH-257A	1st Lift	D4S-01	0.00	108.5	14.2	122.1	106.7	14.4	98.3	P	
6		DT	12	Around MH-257A	2nd Lift	D4S-01	0.00	108.5	14.2	121.2	106.5	13.8	98.2	P	
7		DT	12	Around MH-257A	3rd Lift	D4S-01	0.00	108.5	14.2	120.2	107.7	11.6	99.3	P	
8		DT	12	Around MH-257A	4th Lift	D4S-01	0.00	108.5	14.2	120.1	107.2	12.0	98.8	P	
9		DT	12	Around MH-257A	5th Lift	D4S-01	0.00	108.5	14.2	120.6	106.6	13.1	98.2	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 4/11/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	21913		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
10		DT	12	Around MH-257A	6th Lift	D4S-01	0.00	108.5	14.2	119.7	107.1	11.8	98.7	P	
11		DT	12	8" Sewer Pipe between MH-257A & MH-258	2' Above	D4S-01	0.00	108.5	14.2	121.5	107.9	12.6	99.4	P	
12		DT	12	8" Sewer Pipe between MH-257A & MH-258	3' Above	D4S-01	0.00	108.5	14.2	118.9	107.0	11.1	98.6	P	
13		DT	12	Around MH-258	1st Lift	D4S-01	0.00	108.5	14.2	121.3	106.6	13.8	98.2	P	
14		DT	12	Around MH-258	2nd Lift	D4S-01	0.00	108.5	14.2	120.2	107.3	12.0	98.9	P	
15		DT	12	Around MH-258	3rd Lift	D4S-01	0.00	108.5	14.2	120.2	106.5	12.9	98.2	P	
16		DT	12	Around MH-258	4th Lift	D4S-01	0.00	108.5	14.2	119.9	106.8	12.3	98.4	P	



ECS Florida, LLC
11554 Davis Creek Court
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FIELD REPORT

Project No. **35:36135**
Report No. **27**
Day & Date **Monday 4/14/2025**
Weather **°/**

Project **Rookery Phase 2B**
Location **Green Cove Springs, FL**
Client **Jax Dirtworks, Inc**
Contractor **Jax Dirtworks, Inc**

Remarks

* Travel time and mileage will be billed in accordance with the contract.

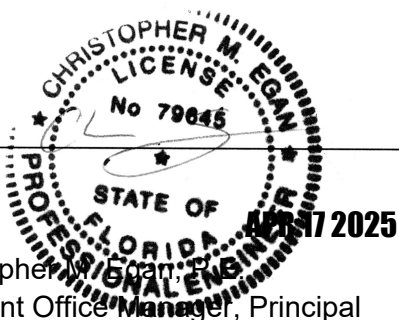
Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

As requested, we arrived on site to perform in-place density testing to determine the percent compaction of soils for sewer pipe backfill.

Utilizing the Nuclear Density Test Method (ASTM D6938) to check the compaction of soils; test results indicated that the compacted soils, at the areas and depths tested, met the project requirements of 98% of the maximum dry density as obtained in our laboratory using the Modified Proctor Method (ASTM D1557).

These results are based upon selected locations and may not be representative of the soils in areas not tested. Should site conditions change or not be consistent with test results (e.g., pumping, rutting, standing water, etc.), ECS should be contacted immediately.

Thank you for allowing ECS Florida, LLC the opportunity to provide construction materials testing services for this project. Should you have any questions and/or comments, please contact our office.



Christopher M. Egan, P.E.
Assistant Office Manager, Principal

Kathleen Gaal
CMT Senior Project Manager

By Robert Hicks

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 4/14/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	21913		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-01				Brown Fine Sand with Silt			ASTM D1557					108.5			14.2
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	12	8" Sewer Pipe between MH-258 & MH-259	2' Above	D4S-01	0.00	108.5	14.2	121.4	107.2	13.2	98.8	P	2' Above denotes 2' above top of pipe
2		DT	12	8" Sewer Pipe between MH-258 & MH-259	3' Above	D4S-01	0.00	108.5	14.2	119.9	106.6	12.5	98.2	P	
3		DT	12	8" Sewer Pipe between MH-258 & MH-259	4' Above	D4S-01	0.00	108.5	14.2	118.8	106.9	11.1	98.5	P	
4		DT	12	Around MH-259	1st Lift	D4S-01	0.00	108.5	14.2	121.3	106.6	13.8	98.2	P	
5		DT	12	Around MH-259	2nd Lift	D4S-01	0.00	108.5	14.2	120.1	107.0	12.2	98.6	P	
6		DT	12	Around MH-259	3rd Lift	D4S-01	0.00	108.5	14.2	120.4	107.7	11.8	99.3	P	
7		DT	12	Around MH-259	4th Lift	D4S-01	0.00	108.5	14.2	118.7	107.2	10.7	98.8	P	
8		DT	12	8" Sewer Pipe between MH-258 & MH-260	2' Above	D4S-01	0.00	108.5	14.2	120.9	106.4	13.6	98.1	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 4/14/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	21913		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
9		DT	12	8" Sewer Pipe between MH-258 & MH-260	3' Above	D4S-01	0.00	108.5	14.2	119.8	107.5	11.4	99.1	P	
10		DT	12	8" Sewer Pipe between MH-258 & MH-260	4' Above	D4S-01	0.00	108.5	14.2	119.6	107.1	11.7	98.7	P	
11		DT	12	Around MH-260	1st Lift	D4S-01	0.00	108.5	14.2	121.5	106.8	13.8	98.4	P	
12		DT	12	Around MH-260	2nd Lift	D4S-01	0.00	108.5	14.2	120.1	107.6	11.6	99.2	P	
13		DT	12	Around MH-260	3rd Lift	D4S-01	0.00	108.5	14.2	119.0	107.1	11.1	98.7	P	
14		DT	12	Around MH-260	4th Lift	D4S-01	0.00	108.5	14.2	119.9	106.8	12.3	98.4	P	
15		DT	12	8" Sewer Pipe between MH-255 & MH-257	2' Above	D4S-01	0.00	108.5	14.2	120.7	106.9	12.9	98.5	P	
16		DT	12	8" Sewer Pipe between MH-255 & MH-257	3' Above	D4S-01	0.00	108.5	14.2	120.1	107.4	11.8	99.0	P	
17		DT	12	8" Sewer Pipe between MH-255 & MH-257	4' Above	D4S-01	0.00	108.5	14.2	119.7	106.4	12.5	98.1	P	
18		DT	12	Around MH-257	1st Lift	D4S-01	0.00	108.5	14.2	121.2	106.9	13.4	98.5	P	

**Field Compaction Summary, ASTM D6938****ECS Florida, LLC**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 4/14/2025

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	21913		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
19		DT	12	Around MH-257	2nd Lift	D4S-01	0.00	108.5	14.2	121.2	106.6	13.7	98.2	P	
20		DT	12	Around MH-257	3rd Lift	D4S-01	0.00	108.5	14.2	120.0	107.2	11.9	98.8	P	
21		DT	12	Around MH-257	4th Lift	D4S-01	0.00	108.5	14.2	121.0	107.9	12.1	99.4	P	
22		DT	12	Around MH-257	5th Lift	D4S-01	0.00	108.5	14.2	119.1	107.1	11.2	98.7	P	



ECS Florida, LLC
11554 Davis Creek Court
Jacksonville, FL 32256
T 904.880.0960
F 904.880.0970

FIELD REPORT

Project No. **35:36135**
Report No. **29**
Day & Date **Monday 5/5/2025**
Weather **°/**

Project **Rookery Phase 2B**
Location **Green Cove Springs, FL**
Client **Jax Dirtworks, Inc**
Contractor **Jax Dirtworks, Inc**

Remarks

* Travel time and mileage will be billed in accordance with the contract.

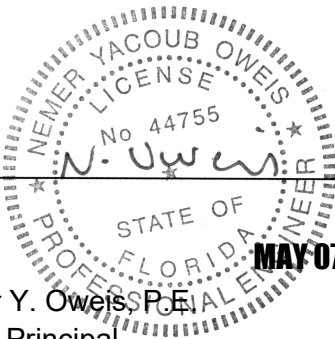
Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

As requested, we arrived on site to perform in-place density testing to determine the percent compaction of soils for pipe backfill.

Utilizing the Nuclear Density Test Method (ASTM D6938) to check the compaction of soils; test results indicated that the compacted soils, at the areas and depths tested, met the project requirements of 98% of the maximum dry density as obtained in our laboratory using the Modified Proctor Method (ASTM D1557).

These results are based upon selected locations and may not be representative of the soils in areas not tested. Should site conditions change or not be consistent with test results (e.g., pumping, rutting, standing water, etc.), ECS should be contacted immediately.

Thank you for allowing ECS Florida, LLC the opportunity to provide construction materials testing services for this project. Should you have any questions and/or comments, please contact our office.



Nemer Y. Oweis, P.E.
Senior Principal

Kathleen Gaal
CMT Senior Project Manager

By Johnny A Tubberville II

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 5/5/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Johnny A Tubberville II

Test Method ASTM D6938			
Nuclear Gauge No. 45			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	34217		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-01				Brown Fine Sand with Silt			ASTM D1557					108.5			14.2
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	12	Around S-238	1st Lift	D4S-01	0.00	108.5	14.2	116.4	106.6	9.2	98.2	P	
2		DT	12	Around S-238	2nd Lift	D4S-01	0.00	108.5	14.2	116.7	107.4	8.7	99.0	P	
3		DT	12	Around S-238	3rd Lift	D4S-01	0.00	108.5	14.2	116.3	106.9	8.8	98.5	P	
4		DT	12	15" HDPE between S-238 & S-239	SL	D4S-01	0.00	108.5	14.2	118.9	106.8	11.4	98.4	P	SL denotes springline of pipe
5		DT	12	15" HDPE between S-238 & S-239	Top Pipe	D4S-01	0.00	108.5	14.2	118.0	107.4	9.9	99.0	P	
6		DT	12	15" HDPE between S-238 & S-239	1' Above	D4S-01	0.00	108.5	14.2	120.3	108.8	10.6	100.3	P	1' Above denotes 1' above top of pipe
7		DT	12	15" HDPE between S-238 & S-239	2' Above	D4S-01	0.00	108.5	14.2	116.5	107.9	8.0	99.4	P	
8		DT	12	Around S-239	1st Lift	D4S-01	0.00	108.5	14.2	114.9	107.0	7.4	98.6	P	
9		DT	12	Around S-239	2nd Lift	D4S-01	0.00	108.5	14.2	118.5	107.5	10.3	99.1	P	
10		DT	12	Around S-239	3rd Lift	D4S-01	0.00	108.5	14.2	118.6	106.8	11.1	98.4	P	
11		DT	12	Around S-239	4th Lift	D4S-01	0.00	108.5	14.2	118.9	108.2	9.9	99.7	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 5/5/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Johnny A Tubberville II

Test Method ASTM D6938			
Nuclear Gauge No. 45			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	34217		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
12		DT	12	15" HDPE between S-239 & S-237	SL	D4S-01	0.00	108.5	14.2	116.5	107.4	8.5	99.0	P	
13		DT	12	15" HDPE between S-239 & S-237	Top Pipe	D4S-01	0.00	108.5	14.2	114.5	106.5	7.6	98.2	P	
14		DT	12	15" HDPE between S-239 & S-237	1' Above	D4S-01	0.00	108.5	14.2	118.2	107.3	10.2	98.9	P	
15		DT	12	15" HDPE between S-239 & S-237	2nd Lift	D4S-01	0.00	108.5	14.2	120.2	108.0	11.3	99.5	P	
16		DT	12	15" HDPE between S-239 & S-237	3' Above	D4S-01	0.00	108.5	14.2	119.9	108.1	11.0	99.6	P	
17		DT	12	Around S-237	1st Lift	D4S-01	0.00	108.5	14.2	119.8	107.7	11.3	99.3	P	
18		DT	12	Around S-237	2nd Lift	D4S-01	0.00	108.5	14.2	120.2	107.4	12.0	99.0	P	
19		DT	12	Around S-237	3rd Lift	D4S-01	0.00	108.5	14.2	119.0	106.6	11.7	98.2	P	
20		DT	12	Around S-242	1st Lift	D4S-01	0.00	108.5	14.2	119.9	108.1	11.0	99.6	P	
21		DT	12	Around S-242	2nd Lift	D4S-01	0.00	108.5	14.2	120.3	108.8	10.6	100.3	P	
22		DT	12	Around S-242	3rd Lift	D4S-01	0.00	108.5	14.2	117.7	107.5	9.5	99.1	P	
23		DT	12	Around S-242	4th Lift	D4S-01	0.00	108.5	14.2	115.2	106.4	8.3	98.1	P	
24		DT	12	15" HDPE between S-242 & S-243A	SL	D4S-01	0.00	108.5	14.2	115.7	106.6	8.6	98.2	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 5/5/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Johnny A Tubberville II

Test Method ASTM D6938			
Nuclear Gauge No. 45			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	34217		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
25		DT	12	15" HDPE between S-242 & S-243A	Top Pipe	D4S-01	0.00	108.5	14.2	114.5	107.0	7.1	98.6	P	
26		DT	12	15" HDPE between S-242 & S-243A	1' Above	D4S-01	0.00	108.5	14.2	117.8	106.9	10.2	98.5	P	
27		DT	12	15" HDPE between S-242 & S-243A	2' Above	D4S-01	0.00	108.5	14.2	118.4	107.3	10.4	98.9	P	
28		DT	12	15" HDPE between S-242 & S-243A	3' Above	D4S-01	0.00	108.5	14.2	118.2	107.7	9.9	99.3	P	
29		DT	12	15" HDPE between S-242 & S-243A	4' Above	D4S-01	0.00	108.5	14.2	118.8	108.5	9.5	100.0	P	
30		DT	12	Around S-243A	1st Lift	D4S-01	0.00	108.5	14.2	117.6	108.3	8.6	99.8	P	
31		DT	12	Around S-243A	2nd Lift	D4S-01	0.00	108.5	14.2	116.9	108.0	8.3	99.5	P	
32		DT	12	Around S-243A	3rd Lift	D4S-01	0.00	108.5	14.2	117.2	107.2	9.4	98.8	P	
33		DT	12	Around S-243A	4th Lift	D4S-01	0.00	108.5	14.2	117.5	108.0	8.8	99.5	P	
34		DT	12	Around S-243A	5th Lift	D4S-01	0.00	108.5	14.2	116.9	108.4	7.9	99.9	P	
35		DT	12	Around S-243A	6th Lift	D4S-01	0.00	108.5	14.2	119.3	109.3	9.2	100.7	P	
36		DT	12	Around S-256	1st Lift	D4S-01	0.00	108.5	14.2	119.4	107.2	11.4	98.8	P	
37		DT	12	Around S-256	2nd Lift	D4S-01	0.00	108.5	14.2	120.8	107.7	12.2	99.3	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 5/5/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Johnny A Tubberville II

Test Method ASTM D6938			
Nuclear Gauge No. 45			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	34217		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
38		DT	12	Around S-256	3rd Lift	D4S-01	0.00	108.5	14.2	119.5	108.4	10.3	99.9	P	
39		DT	12	Around S-256	4th Lift	D4S-01	0.00	108.5	14.2	118.6	106.9	11.0	98.5	P	
40		DT	12	Around S-256	5th Lift	D4S-01	0.00	108.5	14.2	116.5	107.3	8.6	98.9	P	
41		DT	12	Around S-256	6th Lift	D4S-01	0.00	108.5	14.2	118.1	108.2	9.2	99.7	P	
42		DT	12	15" HDPE between S-256 & S-255	SL	D4S-01	0.00	108.5	14.2	119.8	106.4	12.6	98.1	P	
43		DT	12	15" HDPE between S-256 & S-255	Top Pipe	D4S-01	0.00	108.5	14.2	122.5	107.1	14.4	98.7	P	
44		DT	12	15" HDPE between S-256 & S-255	1' Above	D4S-01	0.00	108.5	14.2	121.5	106.9	13.7	98.5	P	
45		DT	12	15" HDPE between S-256 & S-255	2' Above	D4S-01	0.00	108.5	14.2	120.8	107.6	12.3	99.2	P	
46		DT	12	15" HDPE between S-256 & S-255	3' Above	D4S-01	0.00	108.5	14.2	121.4	108.4	12.0	99.9	P	
47		DT	12	15" HDPE between S-256 & S-255	4' Above	D4S-01	0.00	108.5	14.2	120.0	107.7	11.5	99.3	P	
48		DT	12	15" HDPE between S-256 & S-255	5' Above	D4S-01	0.00	108.5	14.2	122.5	108.8	12.6	100.3	P	
49		DT	12	Around S-255	1st Lift	D4S-01	0.00	108.5	14.2	120.4	107.1	12.6	98.7	P	
50		DT	12	Around S-255	2nd Lift	D4S-01	0.00	108.5	14.2	120.7	106.8	13.1	98.4	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 5/5/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Johnny A Tubberville II

Test Method ASTM D6938			
Nuclear Gauge No. 45			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	34217		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
51		DT	12	Around S-255	3rd Lift	D4S-01	0.00	108.5	14.2	120.1	106.5	12.8	98.2	P	
52		DT	12	Around S-255	4th Lift	D4S-01	0.00	108.5	14.2	119.4	107.9	10.7	99.4	P	
53		DT	12	24" HDPE between S-256 & S-254	SL	D4S-01	0.00	108.5	14.2	120.7	108.4	11.4	99.9	P	
54		DT	12	24" HDPE between S-256 & S-254	Top Pipe	D4S-01	0.00	108.5	14.2	120.7	109.2	10.6	100.6	P	
55		DT	12	24" HDPE between S-256 & S-254	1' Above	D4S-01	0.00	108.5	14.2	119.3	108.4	10.1	99.9	P	
56		DT	12	24" HDPE between S-256 & S-254	2' Above	D4S-01	0.00	108.5	14.2	118.6	108.0	9.9	99.5	P	
57		DT	12	Around S-254	1st Lift	D4S-01	0.00	108.5	14.2	119.4	107.7	10.9	99.3	P	
58		DT	12	Around S-254	2nd Lift	D4S-01	0.00	108.5	14.2	115.5	106.6	8.4	98.2	P	
59		DT	12	Around S-254	3rd Lift	D4S-01	0.00	108.5	14.2	117.7	107.3	9.7	98.9	P	
60		DT	12	Around S-254	4th Lift	D4S-01	0.00	108.5	14.2	117.3	108.4	8.3	99.9	P	
61		DT	12	Around S-254	5th Lift	D4S-01	0.00	108.5	14.2	116.7	109.0	7.1	100.5	P	
62		DT	12	24" HDPE between S-254 & S-253	SL	D4S-01	0.00	108.5	14.2	115.7	106.8	8.4	98.4	P	
63		DT	12	24" HDPE between S-254 & S-253	Top Pipe	D4S-01	0.00	108.5	14.2	115.4	107.2	7.7	98.8	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 5/5/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Johnny A Tubberville II

Test Method ASTM D6938			
Nuclear Gauge No. 45			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	34217		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
64		d	12	24" HDPE between S-254 & S-253	1' Above	D4S-01	0.00	108.5	14.2	114.4	107.0	7.0	98.6	P	
65		DT	12	24" HDPE between S-254 & S-253	2' Above	D4S-01	0.00	108.5	14.2	116.1	107.7	7.8	99.3	P	
66		DT	12	24" HDPE between S-254 & S-253	3' Above	D4S-01	0.00	108.5	14.2	116.2	108.1	7.5	99.6	P	
67		DT	12	24" HDPE between S-254 & S-253	4' Above	D4S-01	0.00	108.5	14.2	118.9	108.5	9.6	100.0	P	
68		DT	12	Around S-253	1st Lift	D4S-01	0.00	108.5	14.2	117.9	107.3	9.9	98.9	P	
69		DT	12	Around S-253	2nd Lift	D4S-01	0.00	108.5	14.2	118.7	107.7	10.3	99.3	P	
70		DT	12	Around S-253	3rd Lift	D4S-01	0.00	108.5	14.2	119.3	107.1	11.4	98.7	P	
71		DT	12	Around S-253	4th Lift	D4S-01	0.00	108.5	14.2	116.2	106.9	8.7	98.5	P	
72		DT	12	Around S-253	5th Lift	D4S-01	0.00	108.5	14.2	119.1	108.2	10.1	99.7	P	
73		DT	12	Around S-253	6th Lift	D4S-01	0.00	108.5	14.2	118.6	107.9	10.0	99.4	P	



ECS Florida, LLC
11554 Davis Creek Court
Jacksonville, FL 32256
T 904.880.0960
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FIELD REPORT

Project No. **35:36135**
Report No. **30**
Day & Date **Tuesday 5/6/2025**
Weather **°/**

Project **Rookery Phase 2B**
Location **Green Cove Springs, FL**
Client **Jax Dirtworks, Inc**
Contractor **Jax Dirtworks, Inc**

Remarks

* Travel time and mileage will be billed in accordance with the contract.

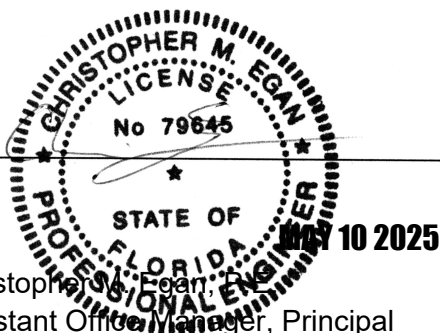
Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

As requested, we arrived on site to perform in-place density testing to determine the percent compaction of soils for pipe backfill.

Utilizing the Nuclear Density Test Method (ASTM D6938) to check the compaction of soils; test results indicated that the compacted soils, at the areas and depths tested, met the project requirements of 98% of the maximum dry density as obtained in our laboratory using the Modified Proctor Method (AASHTO T-180).

These results are based upon selected locations and may not be representative of the soils in areas not tested. Should site conditions change or not be consistent with test results (e.g., pumping, rutting, standing water, etc.), ECS should be contacted immediately.

Thank you for allowing ECS Florida, LLC the opportunity to provide construction materials testing services for this project. Should you have any questions and/or comments, please contact our office.



Kathleen Gaal
CMT Senior Project Manager

By Robert Hicks

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 5/6/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3440	Moisture Std	0
Ser. No.	21913		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-01				Brown Fine Sand with Silt			AASHTO T-180					108.5			14.2
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	12	18" HDPE between S-253 & S-252	SL	D4S-01	0.00	108.5	14.2	122.0	106.8	14.2	98.4	P	SL denotes springline of pipe
2		DT	12	18" HDPE between S-253 & S-252	Top Pipe	D4S-01	0.00	108.5	14.2	121.7	107.0	13.7	98.6	P	
3		DT	12	18" HDPE between S-253 & S-252	1' Above	D4S-01	0.00	108.5	14.2	119.9	107.9	11.1	99.4	P	1' Above denotes 1' above top of pipe
4		DT	12	18" HDPE between S-253 & S-252	2' Above	D4S-01	0.00	108.5	14.2	118.5	108.3	9.4	99.8	P	
5		DT	12	Around S-252	1st Lift	D4S-01	0.00	108.5	14.2	122.8	106.6	15.2	98.2	P	
6		DT	12	Around S-252	2nd Lift	D4S-01	0.00	108.5	14.2	121.3	107.4	12.9	99.0	P	
7		DT	12	Around S-252	3rd Lift	D4S-01	0.00	108.5	14.2	120.7	106.7	13.1	98.3	P	
8		DT	12	Around S-252	4th Lift	D4S-01	0.00	108.5	14.2	118.9	107.2	10.9	98.8	P	
9		DT	12	15" HDPE between S-252 & S-250	SL	D4S-01	0.00	108.5	14.2	122.0	107.4	13.6	99.0	P	
10		DT	12	15" HDPE between S-252 & S-250	Top Pipe	D4S-01	0.00	108.5	14.2	120.4	108.1	11.4	99.6	P	
11		DT	12	15" HDPE between S-252 & S-250	1' Above	D4S-01	0.00	108.5	14.2	120.0	106.9	12.3	98.5	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 5/6/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3440	Moisture Std	0
Ser. No.	21913		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
12		DT	12	15" HDPE between S-252 & S-250	2' Above	D4S-01	0.00	108.5	14.2	117.9	107.7	9.5	99.3	P	
13		DT	12	Around S-250	1st Lift	D4S-01	0.00	108.5	14.2	120.6	106.9	12.8	98.5	P	
14		DT	12	Around S-250	2nd Lift	D4S-01	0.00	108.5	14.2	117.3	106.5	10.1	98.2	P	
15		DT	12	Around S-250	3rd Lift	D4S-01	0.00	108.5	14.2	118.5	107.2	10.5	98.8	P	
16		DT	12	Around S-250	4th Lift	D4S-01	0.00	108.5	14.2	117.5	107.6	9.2	99.2	P	



ECS Florida, LLC
11554 Davis Creek Court
Jacksonville, FL 32256
T 904.880.0960
F 904.880.0970

FIELD REPORT

Project **Rookery Phase 2B**
Location **Green Cove Springs, FL**
Client **Jax Dirtworks, Inc**
Contractor **Jax Dirtworks, Inc**

Project No. **35:36135**
Report No. **31**
Day & Date **Wednesday 5/7/2025**
Weather **°/**

Remarks

* Travel time and mileage will be billed in accordance with the contract.

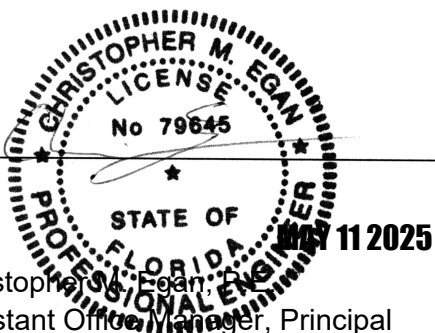
Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

As requested, we arrived on site to perform in-place density testing to determine the percent compaction of soils for pipe backfill.

Utilizing the Nuclear Density Test Method (ASTM D6938) to check the compaction of soils; test results indicated that the compacted soils, at the areas and depths tested, met the project requirements of 98% of the maximum dry density as obtained in our laboratory using the Modified Proctor Method (ASTM D1557).

These results are based upon selected locations and may not be representative of the soils in areas not tested. Should site conditions change or not be consistent with test results (e.g., pumping, rutting, standing water, etc.), ECS should be contacted immediately.

Thank you for allowing ECS Florida, LLC the opportunity to provide construction materials testing services for this project. Should you have any questions and/or comments, please contact our office.



Kathleen Gaal
CMT Senior Project Manager

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 5/7/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Johnny A Tubberville II

Test Method ASTM D6938			
Nuclear Gauge No. 45			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	34217		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-01				Brown Fine Sand with Silt			ASTM D1557					108.5			14.2
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	12	18" HDPE between S-231 & MES-232	SL	D4S-01	0.00	108.5	14.2	117.6	106.8	10.2	98.4	P	SL denotes springline of pipe
2		DT	12	18" HDPE between S-231 & MES-232	Top Pipe	D4S-01	0.00	108.5	14.2	118.5	106.5	11.3	98.2	P	
3		DT	12	18" HDPE between S-231 & MES-232	1' Above	D4S-01	0.00	108.5	14.2	118.3	107.0	10.6	98.6	P	1' Above denotes 1' above top of pipe
4		DT	12	18" HDPE between S-231 & MES-232	2' Above	D4S-01	0.00	108.5	14.2	119.5	107.2	11.5	98.8	P	
5		DT	12	18" HDPE between S-231 & MES-232	3' Above	D4S-01	0.00	108.5	14.2	118.6	106.9	11.0	98.5	P	
6		DT	12	18" HDPE between S-231 & MES-232	4' Above	D4S-01	0.00	108.5	14.2	121.4	107.7	12.8	99.3	P	
7		DT	12	48" HDPE between S-233A & MES-233	SL	D4S-01	0.00	108.5	14.2	118.5	107.2	10.6	98.8	P	
8		DT	12	48" HDPE between S-233A & MES-233	Top Pipe	D4S-01	0.00	108.5	14.2	118.1	106.6	10.8	98.2	P	
9		DT	12	48" HDPE between S-233A & MES-233	1' Above	D4S-01	0.00	108.5	14.2	119.6	107.5	11.3	99.1	P	
10		DT	12	48" HDPE between S-233A & MES-233	2' Above	D4S-01	0.00	108.5	14.2	120.4	108.0	11.5	99.5	P	
11		DT	12	48" HDPE between S-233A & MES-233	3' Above	D4S-01	0.00	108.5	14.2	120.6	107.7	12.0	99.3	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 5/7/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Johnny A Tubberville II

Test Method ASTM D6938			
Nuclear Gauge No. 45			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	34217		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
12		DT	12	48" HDPE between S-233A & MES-233	4' Above	D4S-01	0.00	108.5	14.2	122.4	108.3	13.1	99.8	P	
13		DT	12	48" HDPE between S-233A & MES-233	5' Above	D4S-01	0.00	108.5	14.2	121.7	108.0	12.7	99.5	P	
14		DT	12	48" HDPE between S-233A & MES-233	6' Above	D4S-01	0.00	108.5	14.2	120.5	108.8	10.8	100.3	P	
15		DT	12	48" HDPE between S-233A & MES-233	7' Above	D4S-01	0.00	108.5	14.2	120.0	107.9	11.3	99.4	P	
16		DT	12	48" HDPE between S-233A & MES-233	8' Above	D4S-01	0.00	108.5	14.2	119.2	107.4	11.0	99.0	P	
17		DT	12	Around S-233A	1st Lift	D4S-01	0.00	108.5	14.2	119.0	107.0	11.3	98.6	P	
18		DT	12	Around S-233A	2nd Lift	D4S-01	0.00	108.5	14.2	118.4	106.9	10.8	98.5	P	
19		DT	12	Around S-233A	3rd Lift	D4S-01	0.00	108.5	14.2	118.6	107.3	10.6	98.9	P	
20		DT	12	Around S-233A	4th Lift	D4S-01	0.00	108.5	14.2	120.5	107.7	11.9	99.3	P	
21		DT	12	Around S-233A	5th Lift	D4S-01	0.00	108.5	14.2	121.2	108.2	12.1	99.7	P	
22		DT	12	Around S-233A	6th Lift	D4S-01	0.00	108.5	14.2	122.6	108.5	13.0	100.0	P	
23		DT	12	Around S-233A	7th Lift	D4S-01	0.00	108.5	14.2	118.5	107.0	10.8	98.6	P	
24		DT	12	Around S-233A	8th Lift	D4S-01	0.00	108.5	14.2	119.9	107.6	11.5	99.2	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 5/7/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Johnny A Tubberville II

Test Method ASTM D6938			
Nuclear Gauge No. 45			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	34217		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
25		DT	12	Around S-233A	9th Lift	D4S-01	0.00	108.5	14.2	119.6	107.9	10.9	99.4	P	
26		DT	12	24" HDPE between S-235 & MES-113	SL	D4S-01	0.00	108.5	14.2	117.1	107.0	9.5	98.6	P	
27		DT	12	24" HDPE between S-235 & MES-113	Top Pipe	D4S-01	0.00	108.5	14.2	119.0	108.2	10.0	99.7	P	
28		DT	12	24" HDPE between S-235 & MES-113	1' Above	D4S-01	0.00	108.5	14.2	117.2	106.4	10.2	98.1	P	
29		DT	12	24" HDPE between S-235 & MES-113	2' Above	D4S-01	0.00	108.5	14.2	117.0	106.6	9.8	98.2	P	
30		DT	12	24" HDPE between S-235 & MES-113	3' Above	D4S-01	0.00	108.5	14.2	116.3	107.3	8.4	98.9	P	
31		DT	12	Around S-235	1st Lift	D4S-01	0.00	108.5	14.2	118.5	106.3	11.5	98.0	P	
32		DT	12	Around S-235	2nd Lift	D4S-01	0.00	108.5	14.2	118.3	106.6	11.0	98.2	P	
33		DT	12	Around S-235	3rd Lift	D4S-01	0.00	108.5	14.2	120.2	107.1	12.3	98.7	P	
34		DT	12	Around S-235	4th Lift	D4S-01	0.00	108.5	14.2	118.2	106.9	10.6	98.5	P	
35		DT	12	Around S-235	5th Lift	D4S-01	0.00	108.5	14.2	117.9	107.4	9.8	99.0	P	
36		DT	12	Around S-231	1st Lift	D4S-01	0.00	108.5	14.2	116.4	107.1	8.7	98.7	P	
37		DT	12	Around S-231	2nd Lift	D4S-01	0.00	108.5	14.2	118.0	108.5	8.8	100.0	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 5/7/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Johnny A Tubberville II

Test Method ASTM D6938			
Nuclear Gauge No. 45			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	34217		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
38		DT	12	Around S-231	3rd Lift	D4S-01	0.00	108.5	14.2	117.8	108.1	9.0	99.6	P	
39		DT	12	Around S-231	4th Lift	D4S-01	0.00	108.5	14.2	118.5	107.7	10.1	99.3	P	
40		DT	12	Around S-231	5th Lift	D4S-01	0.00	108.5	14.2	119.2	107.8	10.6	99.4	P	
41		DT	12	Around S-231	6th Lift	D4S-01	0.00	108.5	14.2	119.3	108.7	9.8	100.2	P	
42		DT	12	Around S-250	1st Lift	D4S-01	0.00	108.5	14.2	119.8	107.2	11.8	98.8	P	
43		DT	12	Around S-250	2nd Lift	D4S-01	0.00	108.5	14.2	119.8	106.9	12.1	98.5	P	
44		DT	12	Around S-250	3rd Lift	D4S-01	0.00	108.5	14.2	120.4	107.5	12.0	99.1	P	
45		DT	12	15" HDPE between S-250 & S-249	SL	D4S-01	0.00	108.5	14.2	118.9	106.6	11.6	98.2	P	
46		DT	12	15" HDPE between S-250 & S-249	Top Pipe	D4S-01	0.00	108.5	14.2	119.0	107.4	10.8	99.0	P	
47		DT	12	15" HDPE between S-250 & S-249	1' Above	D4S-01	0.00	108.5	14.2	118.3	107.9	9.7	99.4	P	
48		DT	12	15" HDPE between S-250 & S-249	2' Above	D4S-01	0.00	108.5	14.2	118.6	107.7	10.2	99.3	P	
49		DT	12	Around S-249	1st Lift	D4S-01	0.00	108.5	14.2	120.4	108.1	11.4	99.6	P	
50		DT	12	Around S-249	2nd Lift	D4S-01	0.00	108.5	14.2	120.2	108.3	11.0	99.8	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 5/7/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Johnny A Tubberville II

Test Method ASTM D6938			
Nuclear Gauge No. 45			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	34217		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
51		DT	12	Around S-249	3rd Lift	D4S-01	0.00	108.5	14.2	118.4	107.6	10.1	99.2	P	
52		DT	12	15" HDPE between S-252 & S-251	SL	D4S-01	0.00	108.5	14.2	116.5	106.5	9.4	98.2	P	
53		DT	12	15" HDPE between S-252 & S-251	Top Pipe	D4S-01	0.00	108.5	14.2	116.3	107.0	8.7	98.6	P	
54		DT	12	15" HDPE between S-252 & S-251	1' Above	D4S-01	0.00	108.5	14.2	117.3	106.4	10.3	98.1	P	
55		DT	12	15" HDPE between S-252 & S-251	2' Above	D4S-01	0.00	108.5	14.2	118.2	106.9	10.6	98.5	P	
56		DT	12	15" HDPE between S-252 & S-251	3' Above	D4S-01	0.00	108.5	14.2	120.1	107.2	12.1	98.8	P	
57		DT	12	15" HDPE between S-252 & S-251	4' Above	D4S-01	0.00	108.5	14.2	120.1	107.8	11.5	99.4	P	
58		DT	12	Around S-252	1st Lift	D4S-01	0.00	108.5	14.2	119.0	106.5	11.8	98.2	P	
59		DT	12	Around S-252	2nd Lift	D4S-01	0.00	108.5	14.2	117.9	107.2	10.0	98.8	P	
60		DT	12	Around S-252	3rd Lift	D4S-01	0.00	108.5	14.2	120.0	107.7	11.5	99.3	P	
61		DT	12	Around S-252	4th Lift	D4S-01	0.00	108.5	14.2	121.1	108.0	12.2	99.5	P	
62		DT	12	Around S-251	1st Lift	D4S-01	0.00	108.5	14.2	120.0	106.7	12.5	98.3	P	
63		DT	12	Around S-251	2nd Lift	D4S-01	0.00	108.5	14.2	118.7	106.9	11.1	98.5	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 5/7/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Johnny A Tubberville II

Test Method ASTM D6938			
Nuclear Gauge No. 45			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	34217		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
64		DT	12	Around S-251	3rd Lift	D4S-01	0.00	108.5	14.2	118.8	107.5	10.6	99.1	P	
65		DT	12	Around S-243B	1st Lift	D4S-01	0.00	108.5	14.2	121.1	107.4	12.8	99.0	P	
66		DT	12	Around S-243B	2nd Lift	D4S-01	0.00	108.5	14.2	120.9	106.9	13.1	98.5	P	
67		DT	12	Around S-243B	3rd Lift	D4S-01	0.00	108.5	14.2	120.2	106.4	13.0	98.1	P	
68		DT	12	Around S-243B	4th Lift	D4S-01	0.00	108.5	14.2	119.8	107.2	11.8	98.8	P	
69		DT	12	Around S-243B	5th Lift	D4S-01	0.00	108.5	14.2	119.7	108.3	10.6	99.8	P	
70		DT	12	Around S-243B	6th Lift	D4S-01	0.00	108.5	14.2	120.3	109.0	10.4	100.5	P	
71		DT	12	Around S-243B	7th Lift	D4S-01	0.00	108.5	14.2	118.5	108.7	9.1	100.2	P	
72		DT	12	Around S-243B	8th Lift	D4S-01	0.00	108.5	14.2	120.9	108.8	11.2	100.3	P	
73		DT	12	Around S-243B	9th Lift	D4S-01	0.00	108.5	14.2	119.7	108.2	10.7	99.7	P	
74		DT	12	Around S-248	1st Lift	D4S-01	0.00	108.5	14.2	117.7	107.2	9.8	98.8	P	
75		DT	12	Around S-248	2nd Lift	D4S-01	0.00	108.5	14.2	119.4	108.0	10.6	99.5	P	
76		DT	12	Around S-248	3rd Lift	D4S-01	0.00	108.5	14.2	119.6	107.6	11.2	99.2	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 5/7/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Johnny A Tubberville II

Test Method ASTM D6938			
Nuclear Gauge No. 45			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	34217		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
77		DT	12	Around S-248	4th Lift	D4S-01	0.00	108.5	14.2	119.1	107.3	11.0	98.9	P	
78		DT	12	Around S-248	5th Lift	D4S-01	0.00	108.5	14.2	119.9	108.4	10.7	99.9	P	
79		DT	12	Around S-247	1st Lift	D4S-01	0.00	108.5	14.2	117.8	106.8	10.3	98.4	P	
80		DT	12	Around S-247	2nd Lift	D4S-01	0.00	108.5	14.2	116.7	106.6	9.5	98.2	P	
81		DT	12	Around S-247	3rd Lift	D4S-01	0.00	108.5	14.2	115.8	107.2	8.1	98.8	P	
82		DT	12	Around S-247	4th Lift	D4S-01	0.00	108.5	14.2	117.6	108.3	8.6	99.8	P	
83		DT	12	Around S-247	5th Lift	D4S-01	0.00	108.5	14.2	116.3	107.9	7.8	99.4	P	
84		DT	12	15" HDPE between S-247 & S-248	SL	D4S-01	0.00	108.5	14.2	117.2	107.2	9.4	98.8	P	
85		DT	12	15" HDPE between S-247 & S-248	Top Pipe	D4S-01	0.00	108.5	14.2	117.9	107.5	9.7	99.1	P	
86		DT	12	15" HDPE between S-247 & S-248	1' Above	D4S-01	0.00	108.5	14.2	117.1	106.9	9.6	98.5	P	
87		DT	12	15" HDPE between S-247 & S-248	2' Above	D4S-01	0.00	108.5	14.2	116.7	107.8	8.3	99.4	P	
88		DT	12	15" HDPE between S-247 & S-248	3' Above	D4S-01	0.00	108.5	14.2	118.9	108.0	10.1	99.5	P	
89		DT	12	15" HDPE between S-247 & S-248	4' Above	D4S-01	0.00	108.5	14.2	120.0	109.1	10.0	100.6	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 5/7/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Johnny A Tubberville II

Test Method ASTM D6938			
Nuclear Gauge No. 45			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	34217		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
90		DT	12	36" HDPE between S-243A & S-243B	SL	D4S-01	0.00	108.5	14.2	118.8	107.1	11.0	98.7	P	
91		DT	12	36" HDPE between S-243A & S-243B	Top Pipe	D4S-01	0.00	108.5	14.2	118.0	106.8	10.5	98.4	P	
92		DT	12	36" HDPE between S-243A & S-243B	1' Above	D4S-01	0.00	108.5	14.2	120.1	107.5	11.8	99.1	P	
93		DT	12	36" HDPE between S-243A & S-243B	2' Above	D4S-01	0.00	108.5	14.2	120.3	107.2	12.3	98.8	P	
94		DT	12	36" HDPE between S-243A & S-243B	3' Above	D4S-01	0.00	108.5	14.2	119.8	108.3	10.7	99.8	P	
95		DT	12	36" HDPE between S-243A & S-243B	4' Above	D4S-01	0.00	108.5	14.2	118.1	107.9	9.5	99.4	P	
96		DT	12	36" HDPE between S-243A & S-243B	5' Above	D4S-01	0.00	108.5	14.2	116.8	108.0	8.2	99.5	P	
97		DT	12	Around S-234	1st Lift	D4S-01	0.00	108.5	14.2	115.6	106.3	8.8	98.0	P	
98		DT	12	Around S-234	2nd Lift	D4S-01	0.00	108.5	14.2	118.8	106.7	11.4	98.3	P	
99		DT	12	Around S-234	3rd Lift	D4S-01	0.00	108.5	14.2	117.8	106.6	10.6	98.2	P	
100		DT	12	Around S-234	4th Lift	D4S-01	0.00	108.5	14.2	117.6	107.4	9.5	99.0	P	
101		DT	12	18" HDPE between S-234 & S-235	SL	D4S-01	0.00	108.5	14.2	117.6	107.9	9.0	99.4	P	
102		DT	12	18" HDPE between S-234 & S-235	Top Pipe	D4S-01	0.00	108.5	14.2	117.1	108.2	8.3	99.7	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 5/7/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Johnny A Tubberville II

Test Method ASTM D6938			
Nuclear Gauge No. 45			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	34217		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
103		DT	12	18" HDPE between S-234 & S-235	1' Above	D4S-01	0.00	108.5	14.2	117.8	108.5	8.6	100.0	P	
104		DT	12	18" HDPE between S-234 & S-235	2' Above	D4S-01	0.00	108.5	14.2	117.6	108.8	8.1	100.3	P	
105		DT	12	18" HDPE between S-234 & S-235	3' Above	D4S-01	0.00	108.5	14.2	117.8	109.1	8.0	100.6	P	



ECS Florida, LLC
11554 Davis Creek Court
Jacksonville, FL 32256
T 904.880.0960
F 904.880.0970

LETTER OF TRANSMITTAL

May 20, 2025
Jax Dirtworks, Inc
310 Mealy Drive
Atlantic Beach, FL 32233
ATTN: Mr. Nick Kausch

RE: **Rookery Phase 2B**
ECS Job # **35:36135**

Permits:
Location: **Various**
Green Cove Springs, FL 32043

We are enclosing: ☒ Field Reports ☒ For your use ☒ As requested

CC: Jax Dirtworks, Inc - Mo Gamal

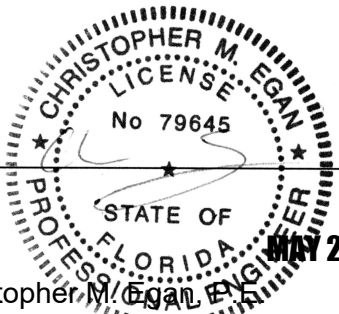
Jax Dirtworks, Inc - Shane Fleming

ENCL:

Please find attached the results of the Limerock Bearing Ratio (LBR) test per FM 5-515 performed on soil samples obtained from the following roadway locations:

- 1) Darter Chase Street, Sta. 15+00: LBR=62
- 2) Darter Chase Street, Sta. 20+00: LBR=46
- 3) Freshwater Place, Sta. 11+50: LBR=58
- 4) Freshwater Place, Sta. 13+75: LBR=51
- 5) Hollow Branch Way, Sta. 11+00: LBR=49
- 6) Migration Way, Sta. 5+00: LBR=63
- 7) Migration Way, Sta. 9+00: LBR=64
- 8) Quiet Roost Place, Sta. 12+00: LBR=51
- 9) Quiet Roost Place, Sta. 17+00: LBR=63

Thank you for allowing ECS Florida, LLC the opportunity to provide construction materials testing services for this project. Should you have any questions and/or comments, please contact our office.



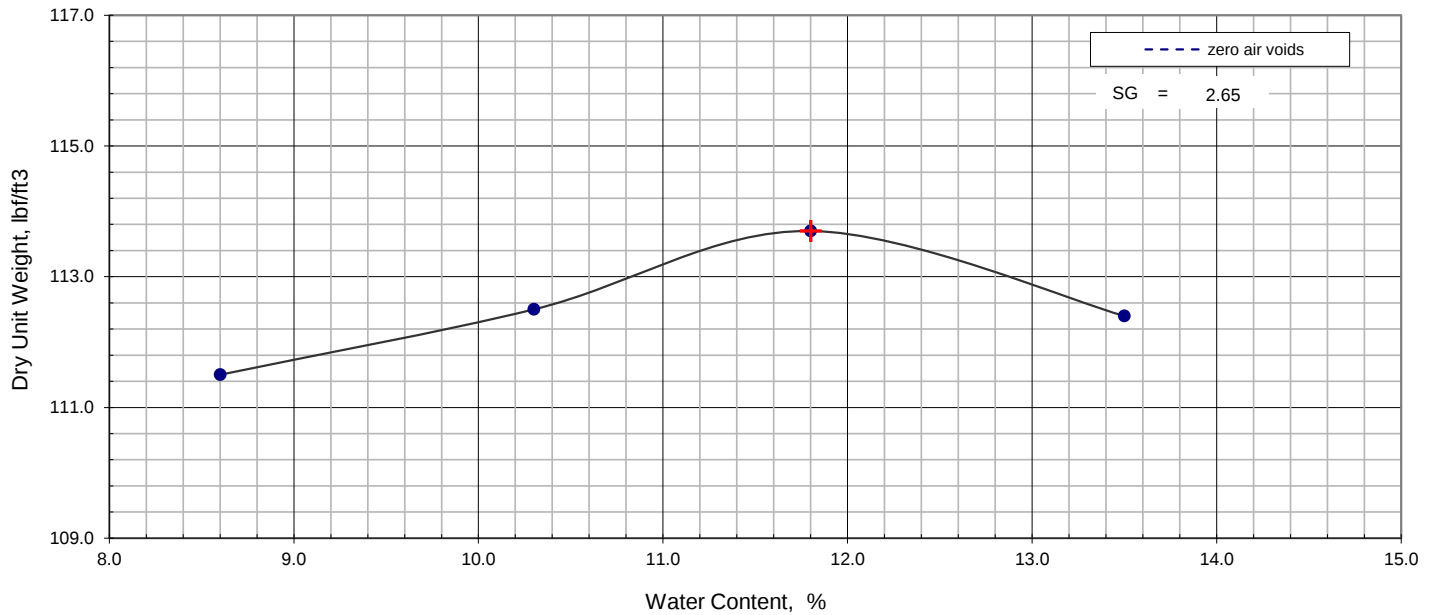
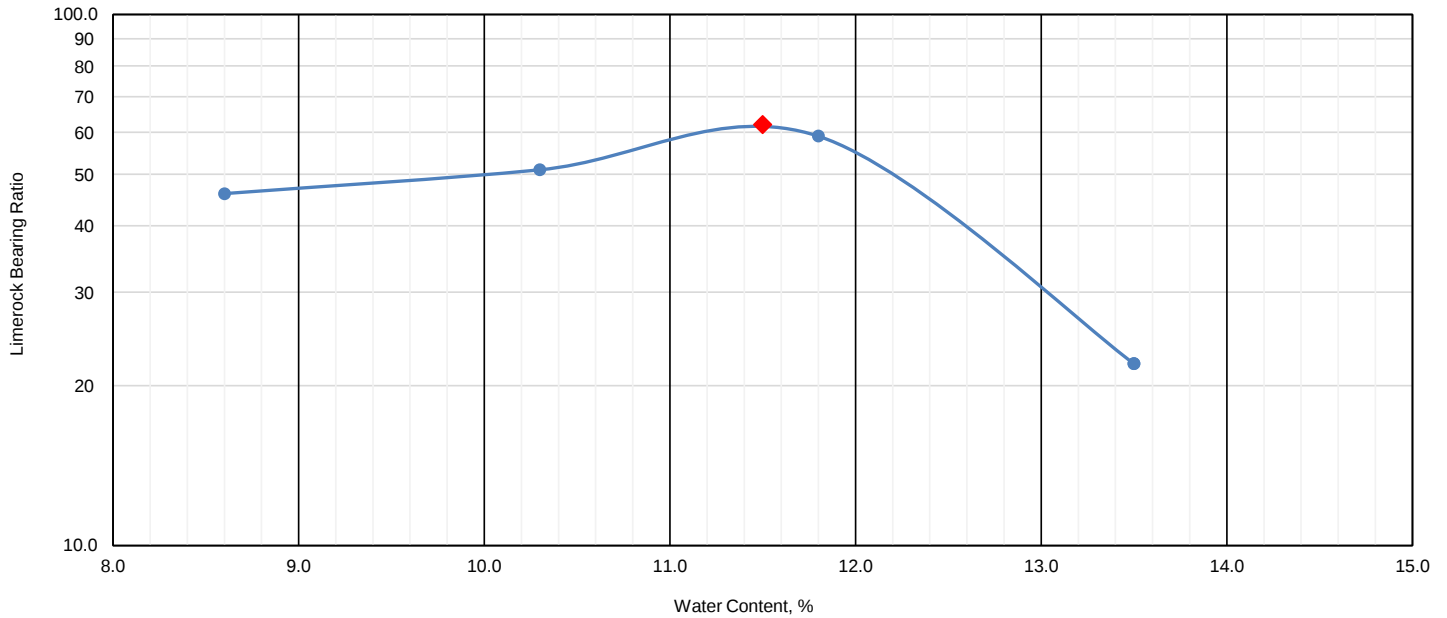
Christopher M. Egan, P.E.
Assistant Office Manager, Principal

Kathleen Gaal
CMT Senior Project Manager

Disclaimer

1. This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.
2. The information in this report relates only to the activities performed on the report date.
3. Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.
4. Incomplete or non-conforming work will be reported for future resolution.
5. The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.

Limerock Bearing Ratio (LBR)



TEST RESULTS (FM 5-515)

Max. Dry Density (pcf)	Optimum Moisture Content (%)	Max. LBR	Fines Content (%)
113.7	11.8	62	14.0
Material Description		USCS	AASHTO
Gray Silty Fine Sand (SM)			

Project: Rookery Phase 2B

Client: Jax Dirtworks, Inc

Sample / Source: Darter Chase Sta. 15+00

Project No.: 35:36135

Depth (ft): 0 - 1

Sample No.: D4S-9

Date Reported: 5/19/2025



Office / Lab

Address

Office Number / Fax

ECS Florida LLC - Jacksonville

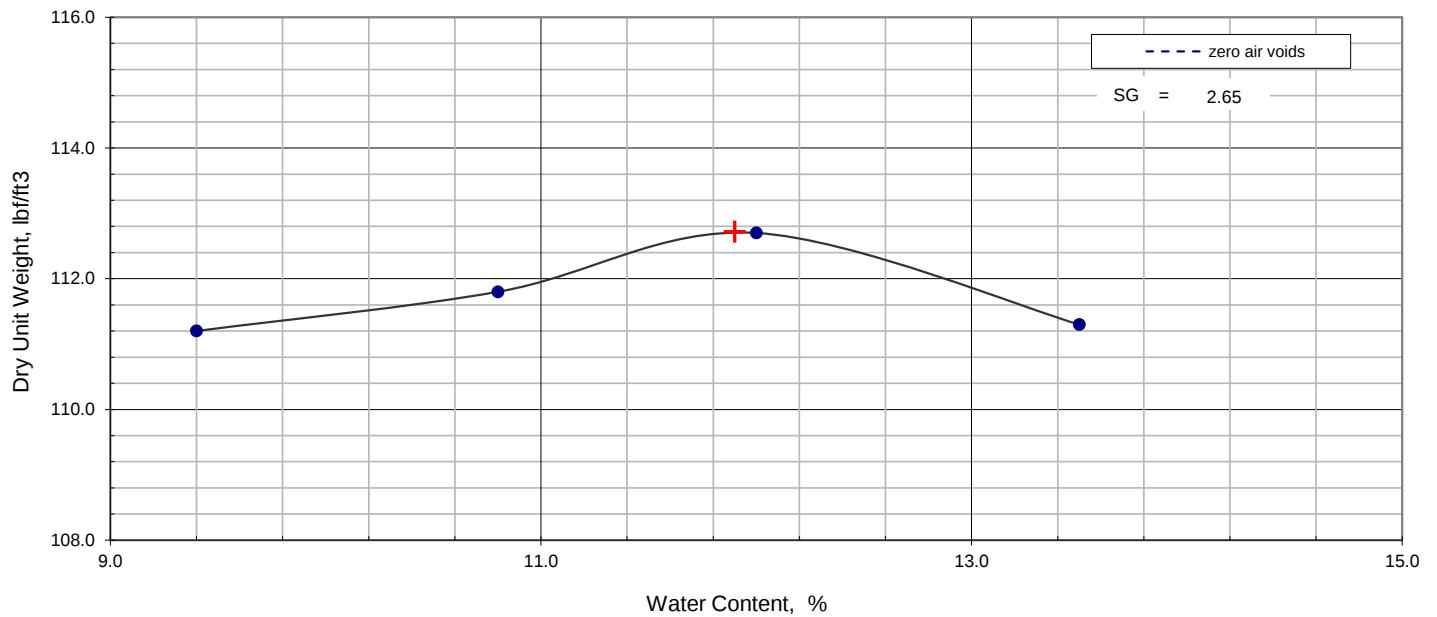
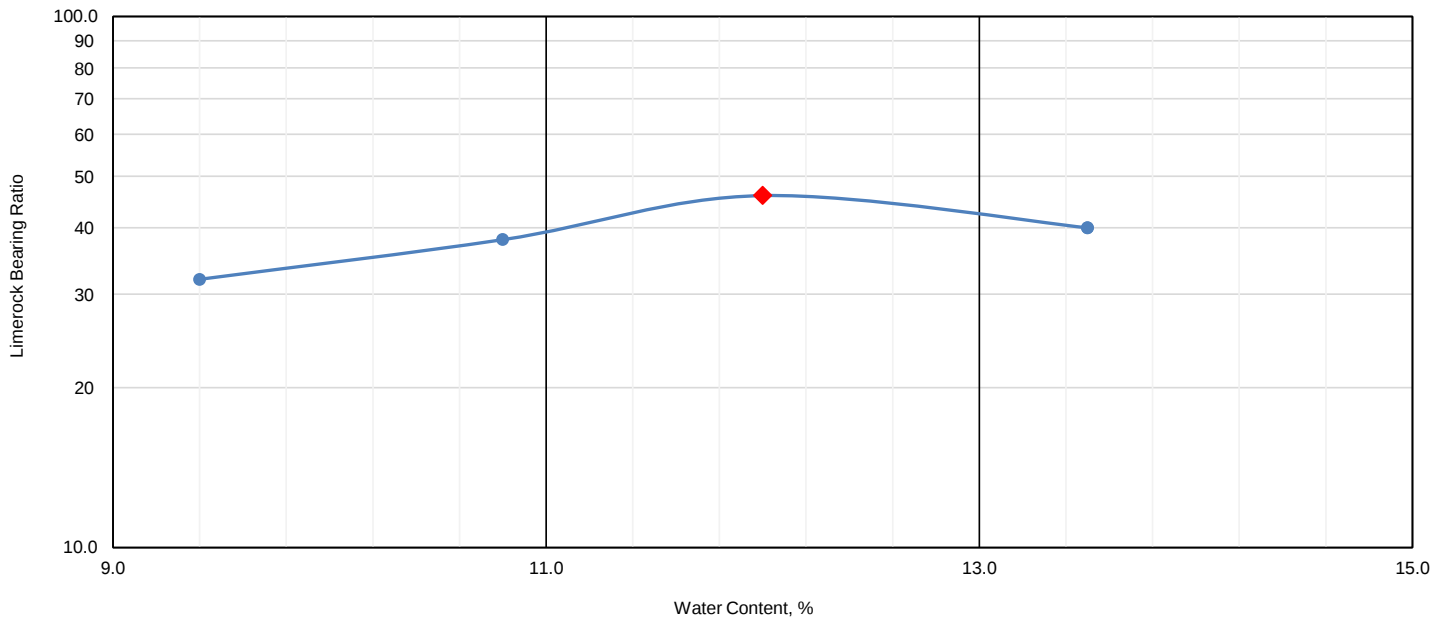
11554 Davis Creek Court
Jacksonville, FL 32256

(904)880-0960

(904)880-0970

Tested by	Checked by	Approved by	Date Received
JMercado-Taronji	jstarling	jstarling	

Limerock Bearing Ratio (LBR)



TEST RESULTS (FM 5-515)

Max. Dry Density (pcf)	Optimum Moisture Content (%)	Max. LBR	Fines Content (%)
112.7	11.9	46	13.8
Material Description		USCS	AASHTO
Gray Silty Fine Sand (SM)			

Project: Rookery Phase 2B

Client: Jax Dirtworks, Inc

Sample / Source: Darter Chase Sta. 20+00

Project No.: 35:36135

Depth (ft): 0 - 1

Sample No.: D4S-10

Date Reported: 5/19/2025



Office / Lab

Address

Office Number / Fax

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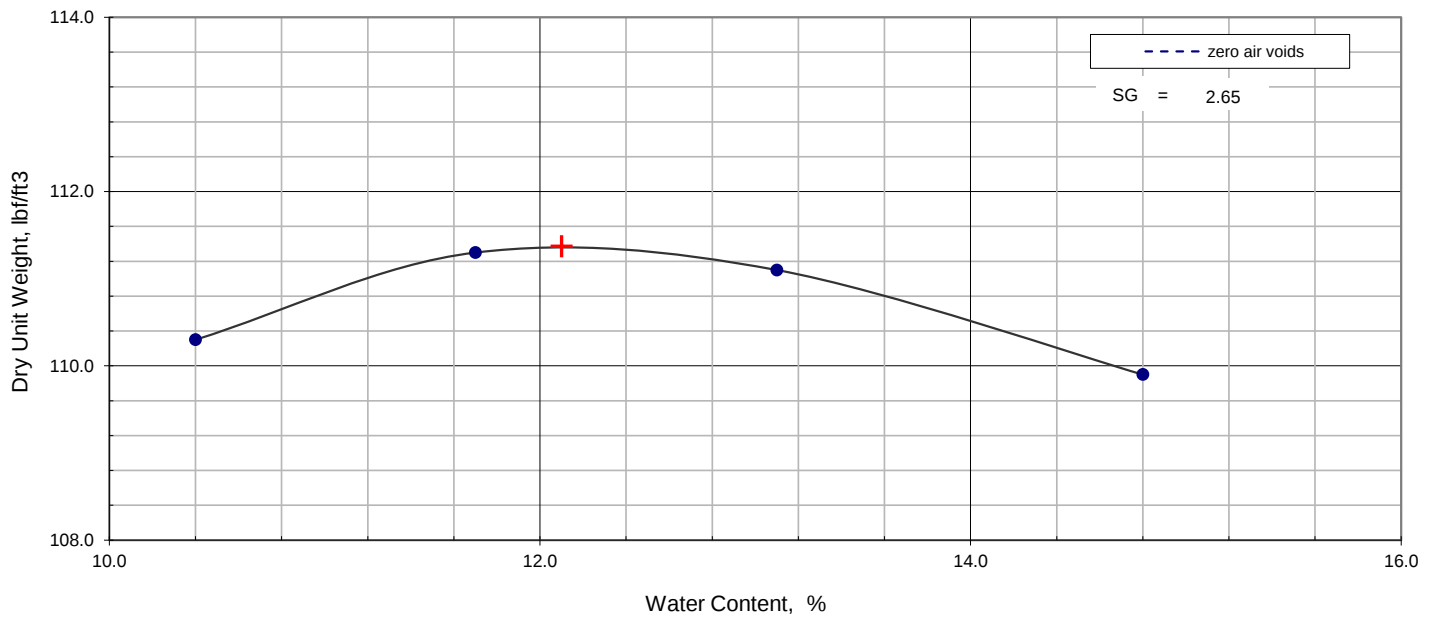
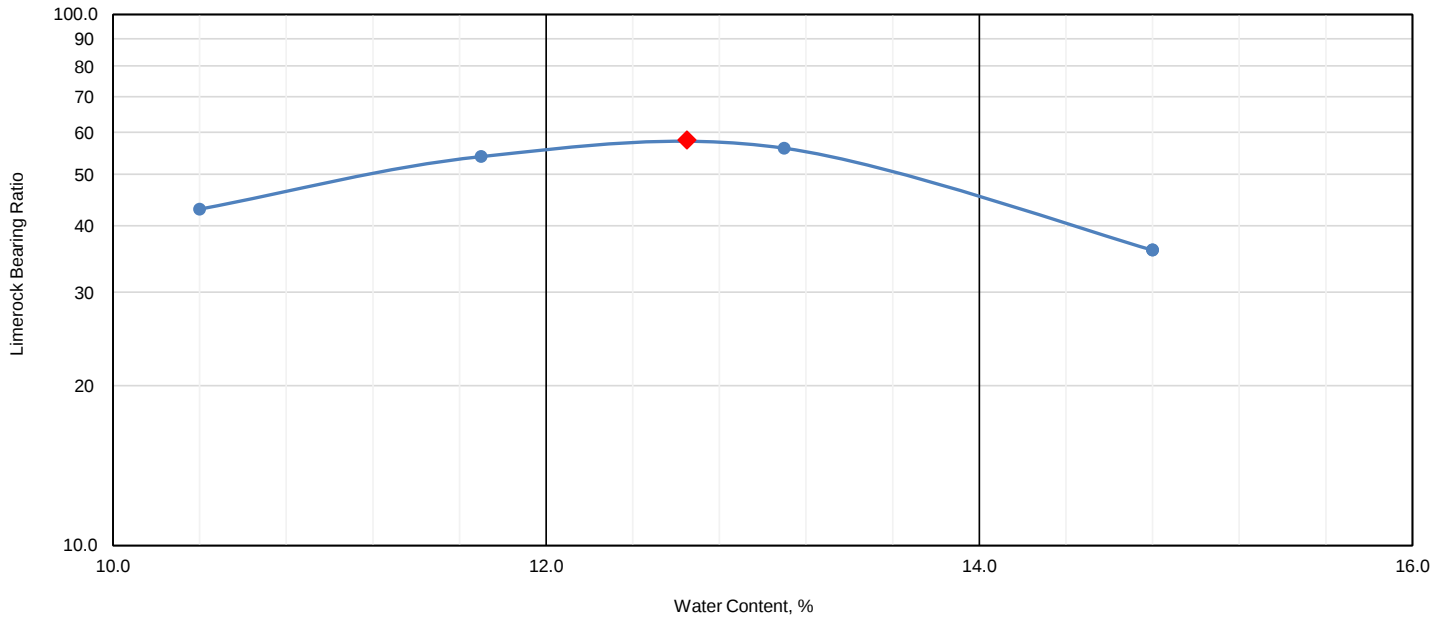
11554 Davis Creek Court
Jacksonville, FL 32256

(904)880-0960

(904)880-0970

Tested by	Checked by	Approved by	Date Received
jstarling	jstarling	jstarling	

Limerock Bearing Ratio (LBR)



TEST RESULTS (FM 5-515)

Max. Dry Density (pcf)	Optimum Moisture Content (%)	Max. LBR	Fines Content (%)
111.4	12.1	58	13.4
Material Description		USCS	AASHTO
Gray Silty Fine Sand (SM)			

Project: Rookery Phase 2B

Client: Jax Dirtworks, Inc

Sample / Source: Freshwater Place Sta. 11+50

Project No.: 35:36135

Depth (ft): 0 - 1

Sample No.: D4S-11

Date Reported: 5/19/2025



Office / Lab

Address

Office Number / Fax

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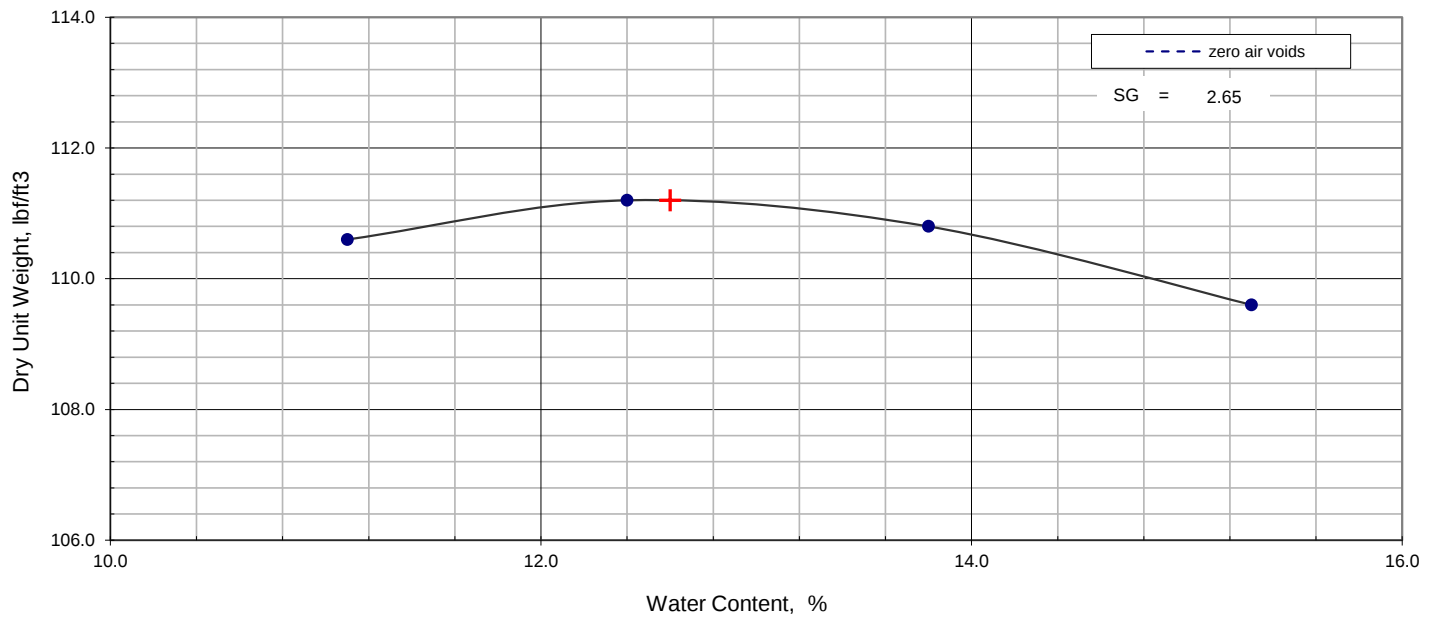
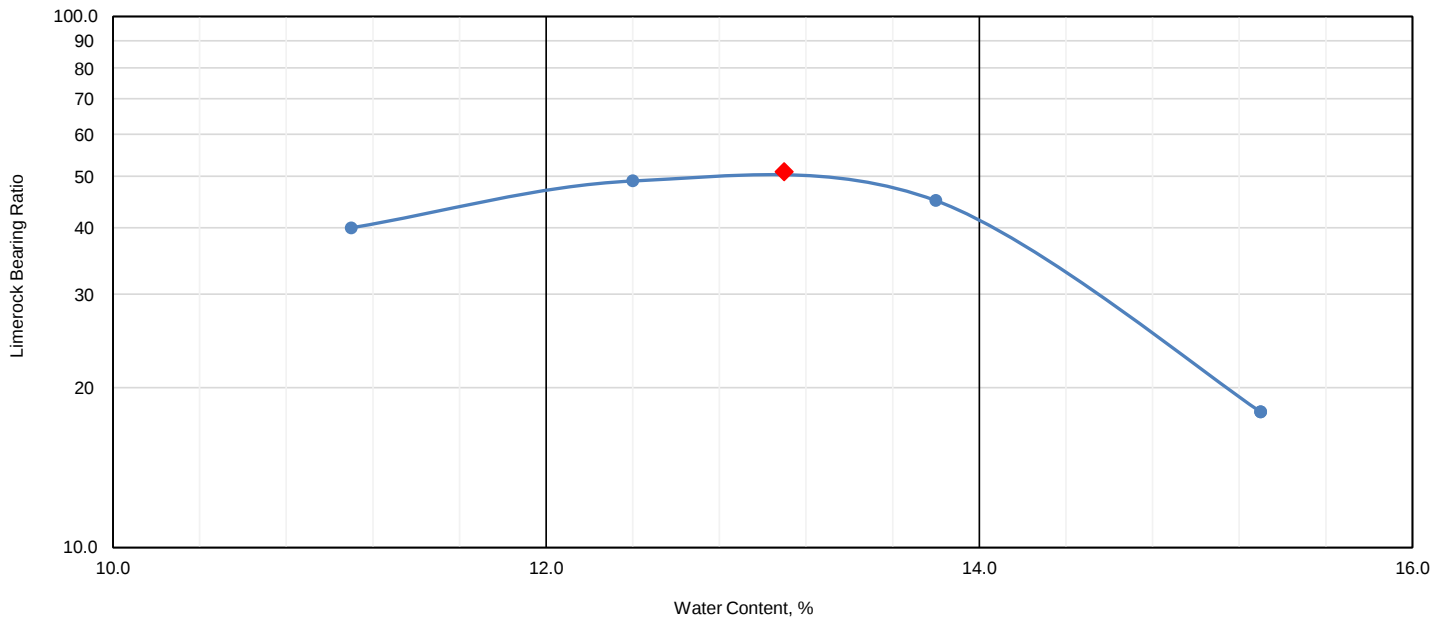
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(904)880-0970

Tested by	Checked by	Approved by	Date Received
jstarling	jstarling	jstarling	

Limerock Bearing Ratio (LBR)



TEST RESULTS (FM 5-515)

Max. Dry Density (pcf)	Optimum Moisture Content (%)	Max. LBR	Fines Content (%)
111.2	12.6	51	12.3
Material Description		USCS	AASHTO
Gray Silty Fine Sand (SM)			

Project: Rookery Phase 2B

Client: Jax Dirtworks, Inc

Sample / Source: Freshwater Place Sta. 13+75

Project No.: 35:36135

Depth (ft): 0 - 1

Sample No.: D4S-12

Date Reported: 5/19/2025



Office / Lab

Address

Office Number / Fax

ECS Florida LLC - Jacksonville

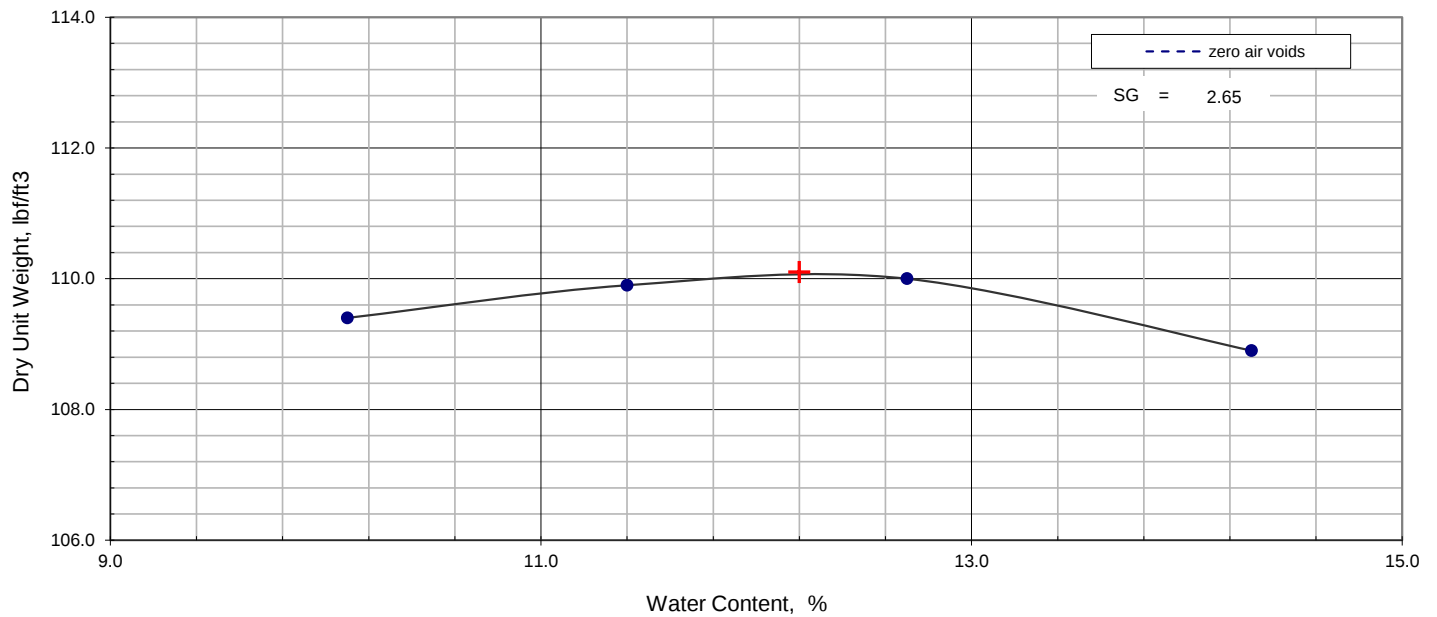
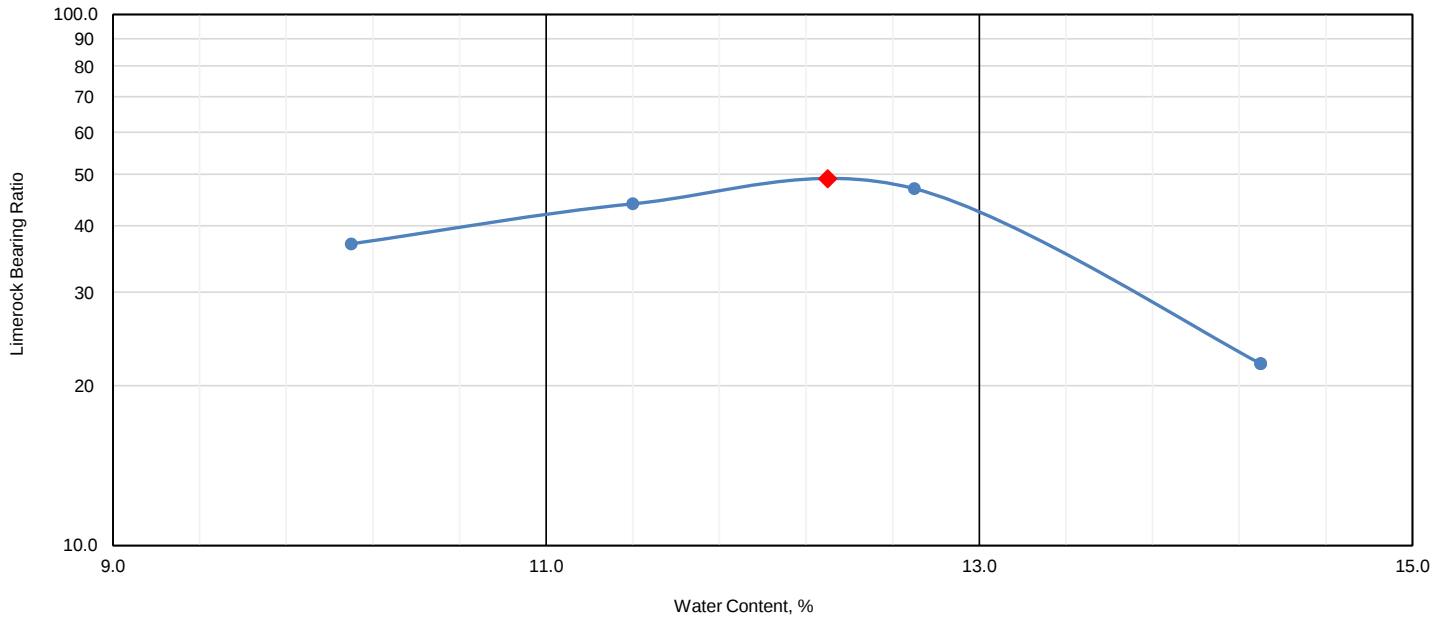
11554 Davis Creek Court
Jacksonville, FL 32256

(904)880-0960

(904)880-0970

Tested by	Checked by	Approved by	Date Received
jstarling	jstarling	jstarling	

Limerock Bearing Ratio (LBR)



TEST RESULTS (FM 5-515)

Max. Dry Density (pcf)	Optimum Moisture Content (%)	Max. LBR	Fines Content (%)
110.1	12.2	49	14.0
Material Description		USCS	AASHTO
Gray Silty Fine Sand (SM)			

Project: Rookery Phase 2B

Client: Jax Dirtworks, Inc

Sample / Source: Hollow Branch Way Sta. 11+00

Project No.: 35:36135

Depth (ft): 0 - 1

Sample No.: D4S-13

Date Reported: 5/19/2025



Office / Lab

Address

Office Number / Fax

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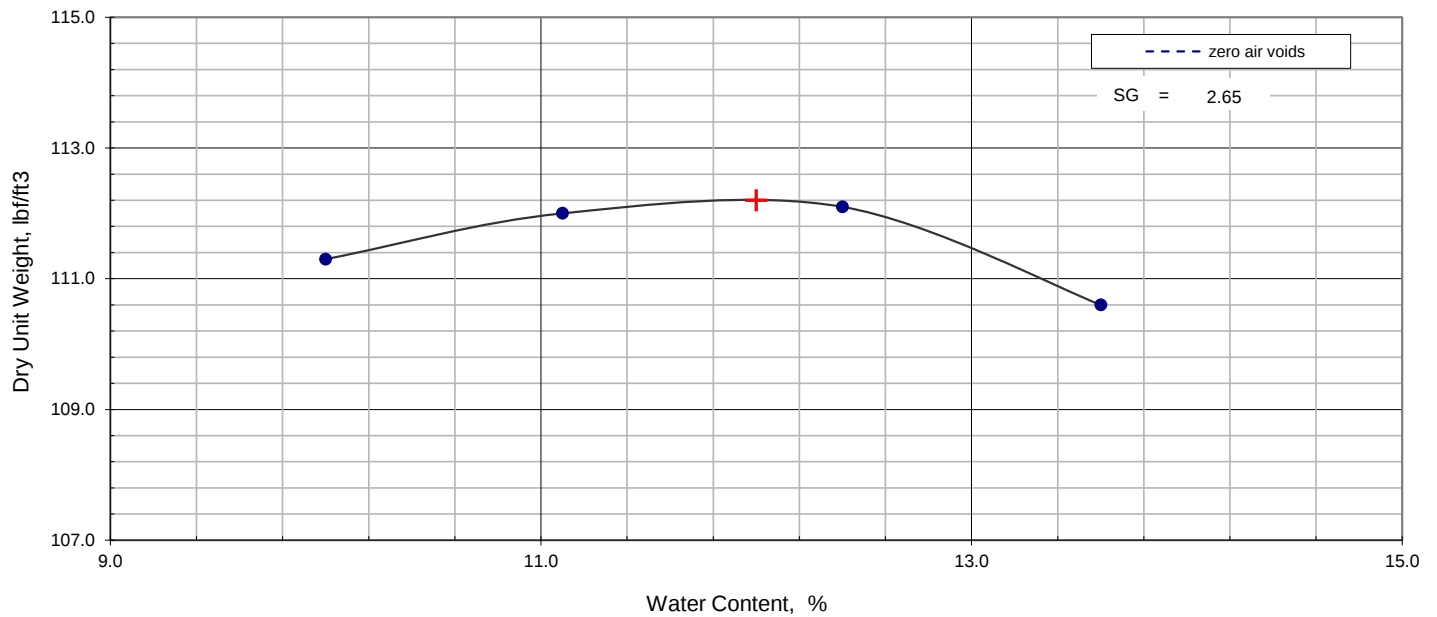
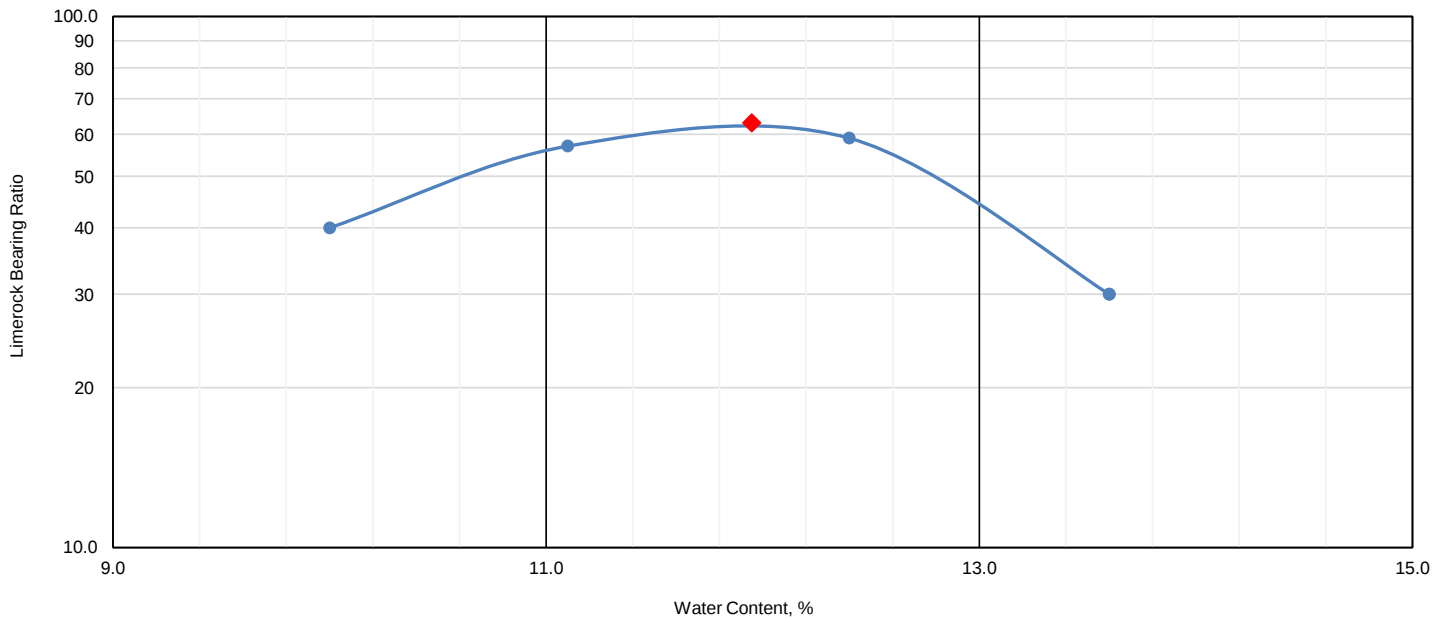
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Jacksonville, FL 32256

(904)880-0960

(904)880-0970

Tested by	Checked by	Approved by	Date Received
JMercado-Taronji	jstarling	jstarling	

Limerock Bearing Ratio (LBR)



TEST RESULTS (FM 5-515)

Max. Dry Density (pcf)	Optimum Moisture Content (%)	Max. LBR	Fines Content (%)
112.2	12.0	63	13.8
Material Description		USCS	AASHTO
Gray Silty Fine Sand (SM)			

Project: Rookery Phase 2B

Client: Jax Dirtworks, Inc

Sample / Source: Migration Way Sta. 5+00

Project No.: 35:36135

Depth (ft): 0 - 1

Sample No.: D4S-16

Date Reported: 5/19/2025



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Office Number / Fax

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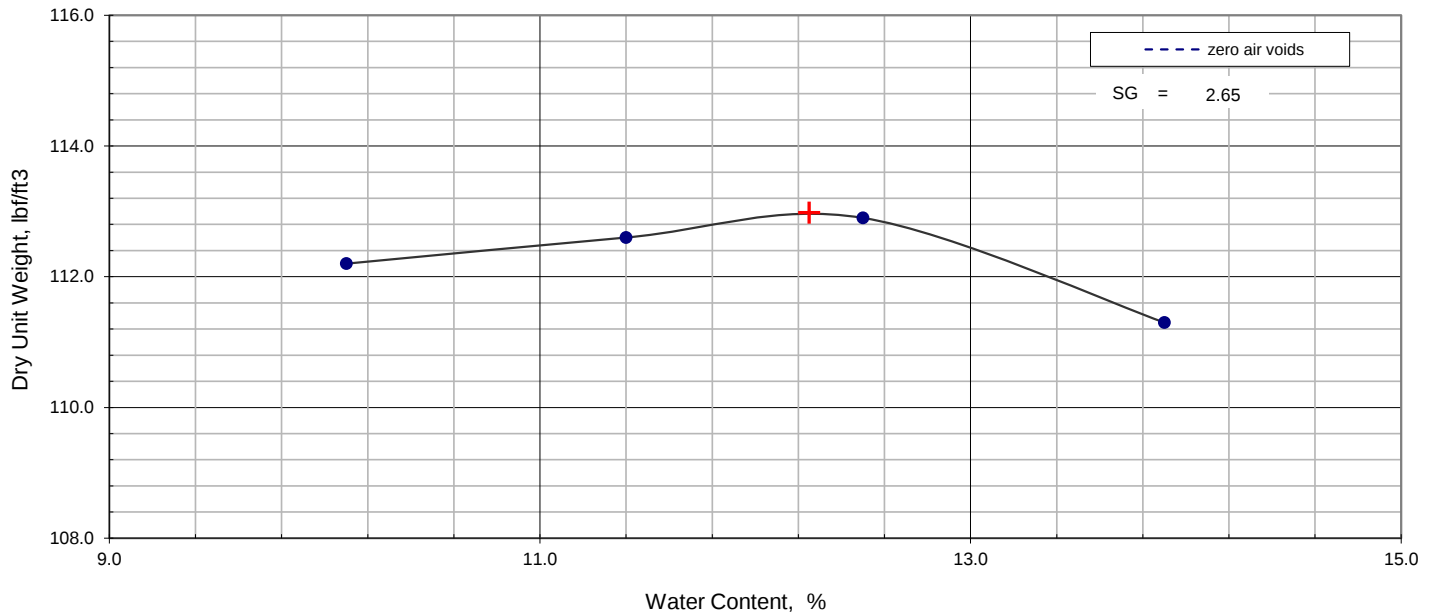
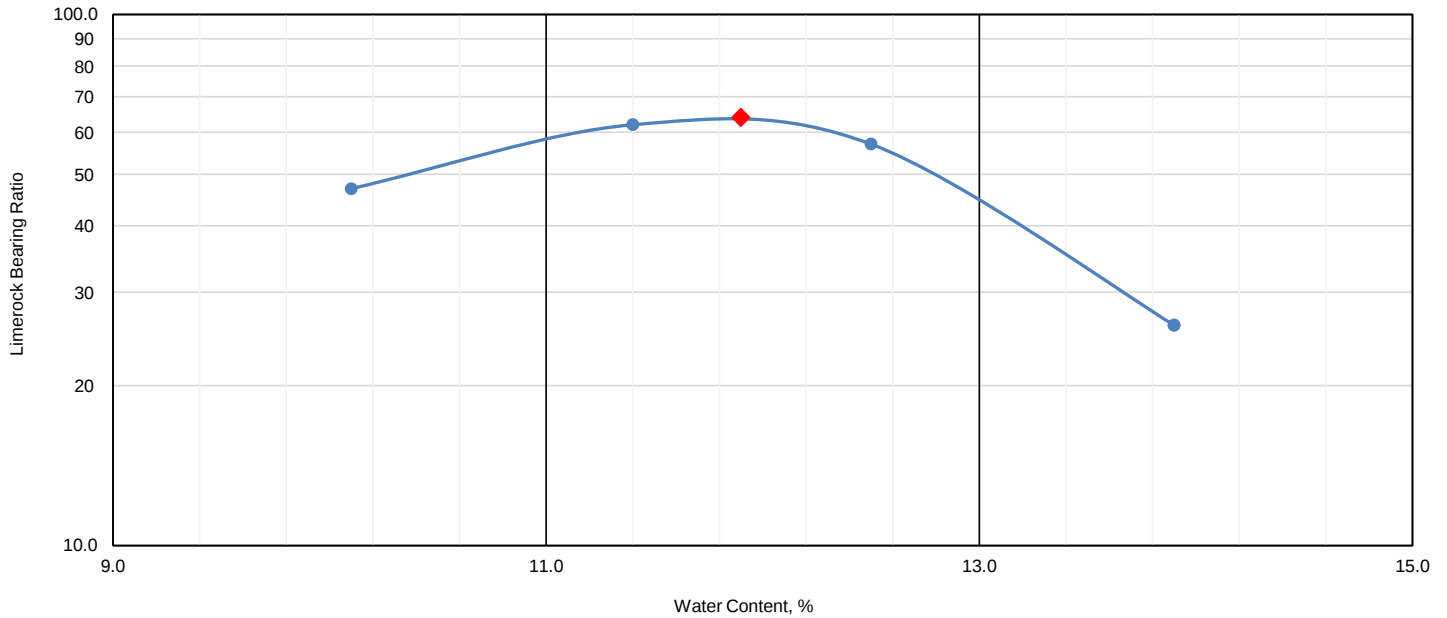
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Jacksonville, FL 32256

(904)880-0960

(904)880-0970

Tested by	Checked by	Approved by	Date Received
jstarling	jstarling	jstarling	

Limerock Bearing Ratio (LBR)



TEST RESULTS (FM 5-515)

Max. Dry Density (pcf)	Optimum Moisture Content (%)	Max. LBR	Fines Content (%)
113.0	12.3	64	14.3
Material Description		USCS	AASHTO
Gray Silty Fine Sand (SM)			

Project: Rookery Phase 2B

Client: Jax Dirtworks, Inc

Sample / Source: Migration Way Sta. 9+00

Project No.: 35:36135

Depth (ft): 0 - 1

Sample No.: D4S-17

Date Reported: 5/19/2025



Office / Lab

Address

Office Number / Fax

ECS Florida LLC - Jacksonville

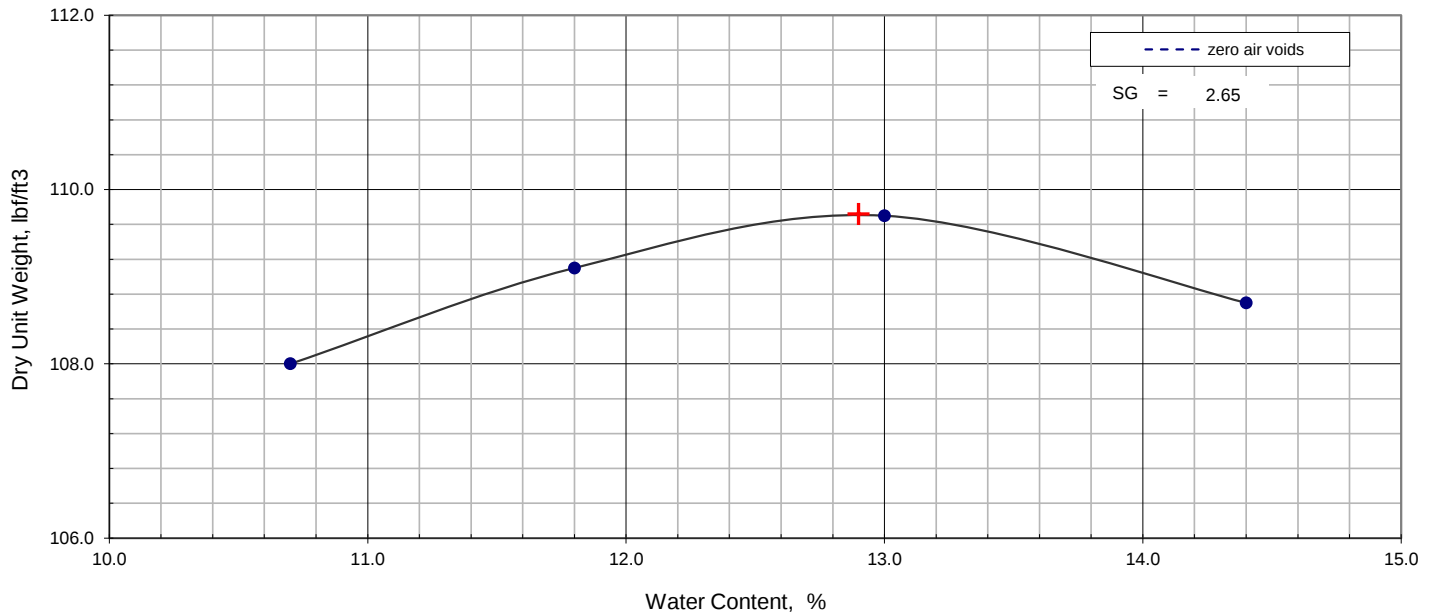
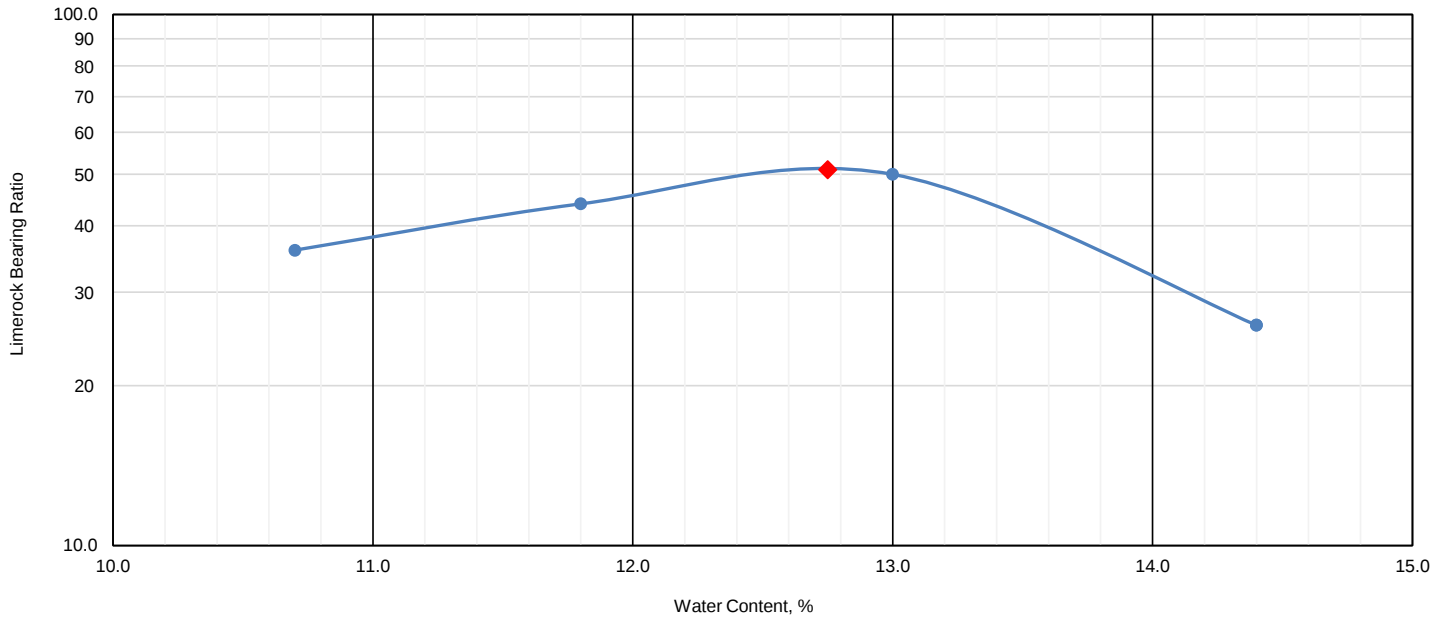
11554 Davis Creek Court
Jacksonville, FL 32256

(904)880-0960

(904)880-0970

Tested by	Checked by	Approved by	Date Received
jstarling	jstarling	jstarling	

Limerock Bearing Ratio (LBR)



TEST RESULTS (FM 5-515)

Max. Dry Density (pcf)	Optimum Moisture Content (%)	Max. LBR	Fines Content (%)
109.7	12.9	51	13.6
Material Description		USCS	AASHTO
Gray Silty Fine Sand (SM)			

Project: Rookery Phase 2B

Client: Jax Dirtworks, Inc

Sample / Source: Quiet Roost Place Sta. 12+00

Project No.: 35:36135

Depth (ft): 0 - 1

Sample No.: D4S-15

Date Reported: 5/19/2025



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Office Number / Fax

ECS Florida LLC - Jacksonville

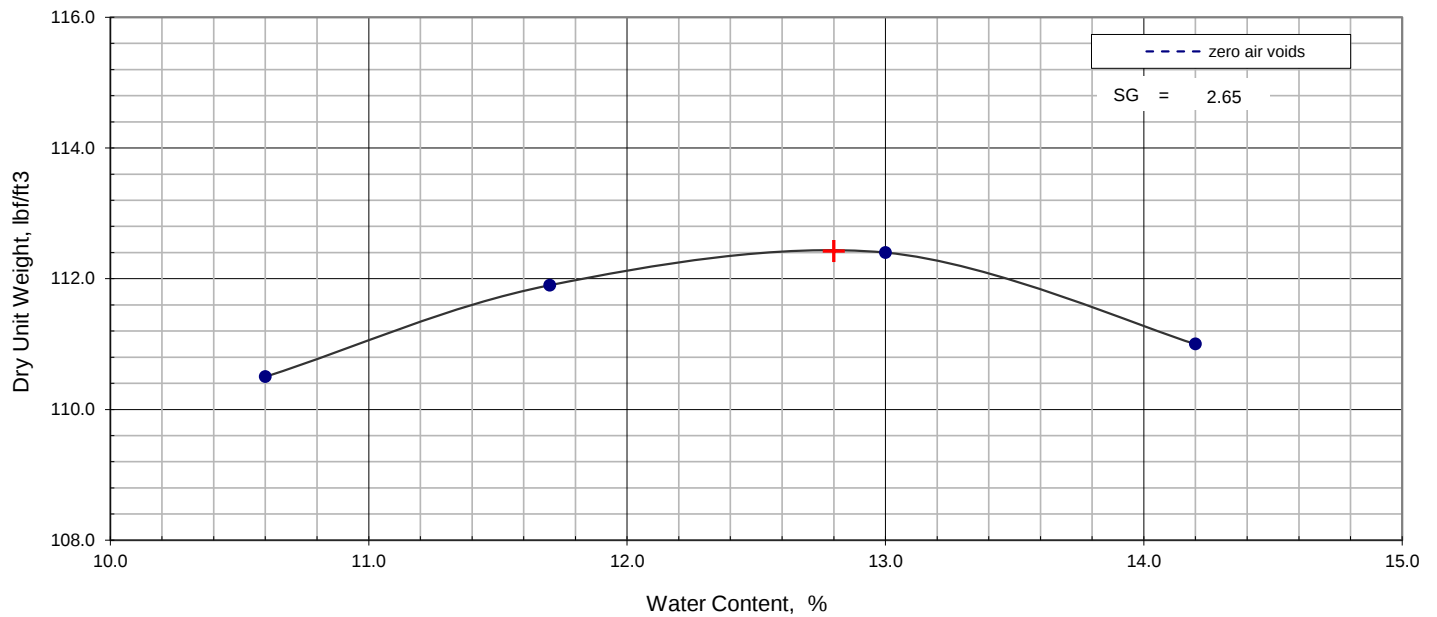
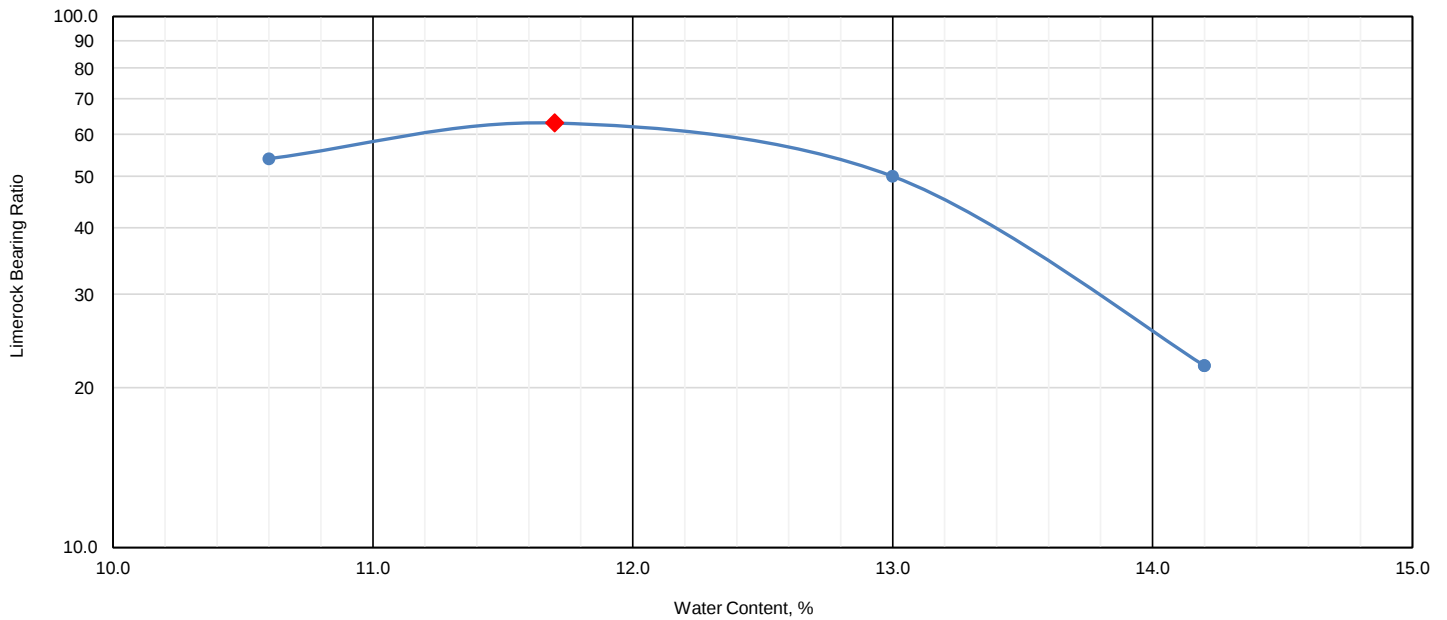
11554 Davis Creek Court
Jacksonville, FL 32256

(904)880-0960

(904)880-0970

Tested by	Checked by	Approved by	Date Received
JMercado-Taronji	jstarling	jstarling	

Limerock Bearing Ratio (LBR)



TEST RESULTS (FM 5-515)

Max. Dry Density (pcf)	Optimum Moisture Content (%)	Max. LBR	Fines Content (%)
112.4	12.8	63	13.6
Material Description		USCS	AASHTO
Gray Silty Fine Sand (SM)			

Project: Rookery Phase 2B

Client: Jax Dirtworks, Inc

Sample / Source: Quiet Roost Place Sta. 17+00

Project No.: 35:36135

Depth (ft): 0 - 1

Sample No.: D4S-14

Date Reported: 5/19/2025



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Address

Office Number / Fax

ECS Florida LLC - Jacksonville

11554 Davis Creek Court
Jacksonville, FL 32256

(904)880-0960

(904)880-0970

Tested by	Checked by	Approved by	Date Received
JMercado-Taronji	jstarling	jstarling	



ECS Florida, LLC
11554 Davis Creek Court
Jacksonville, FL 32256
T 904.880.0960
F 904.880.0970

FIELD REPORT

Project No. **35:36135**
Report No. **32A**
Day & Date **Thursday 5/22/2025**
Weather **°/**

Project **Rookery Phase 2B**
Location **Green Cove Springs, FL**
Client **Jax Dirtworks, Inc**
Contractor **Jax Dirtworks, Inc**

Remarks

* Travel time and mileage will be billed in accordance with the contract.

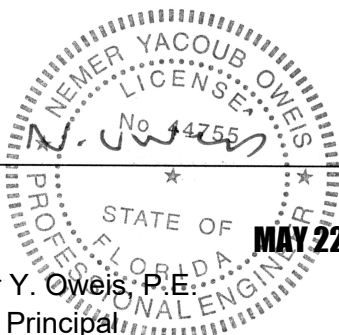
Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

As requested, on 5/09/25 we arrived on site to perform in-place density testing to determine the percent compaction of soils for curb pad.

Utilizing the Nuclear Density Test Method (ASTM D6938) to check the compaction of soils; test results indicated that the compacted soils, at the areas and depths tested, met the project requirements of 98% of the maximum dry density as obtained in our laboratory using the Limerock Bearing Ratio Method (FM 5-515).

These results are based upon selected locations and may not be representative of the soils in areas not tested. Should site conditions change or not be consistent with test results (e.g., pumping, rutting, standing water, etc.), ECS should be contacted immediately.

Thank you for allowing ECS Florida, LLC the opportunity to provide construction materials testing services for this project. Should you have any questions and/or comments, please contact our office.



Nemer Y. Oweis, P.E.
Senior Principal

Kathleen Gaal
CMT Senior Project Manager

By Robert Hicks

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 5/22/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3440	Moisture Std	0
Ser. No.	21913		

Sample No.				Description			Proctor Method					Uncorrected Max. Density		Uncorrected Optimum Moisture Content	
D4S-15				Gray Silty Fine Sand, LBR=51			FM 5-515					109.7		12.9	
D4S-17				Gray Silty Fine Sand, LBR=64			FM 5-515					113.0		12.3	
D4S-16				Gray Silty Fine Sand, LBR=63			FM 5-515					112.2		12.0	
D4S-11				Gray Silty Fine Sand, LBR=58			FM 5-515					111.4		12.1	
D4S-12				Gray Silty Fine Sand, LBR=51			FM 5-515					111.2		12.6	
D4S-13				Gray Silty Fine Sand, LBR=49			FM 5-515					110.1		12.2	
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	12	Quiet Roost Place, Sta. 11+00 LT	Curb Pad	D4S-15	0.00	109.7	12.9	124.9	107.9	15.8	98.4	P	
2		DT	12	Quiet Roost Place, Sta. 12+50 RT	Curb Pad	D4S-15	0.00	109.7	12.9	125.1	107.6	16.3	98.1	P	
3		DT	12	Quiet Roost Place, Sta. 14+00 LT	Curb Pad	D4S-15	0.00	109.7	12.9	124.2	108.0	15.0	98.5	P	
4		DT	12	Migration Way, Sta. 9+00 LT	Curb Pad	D4S-17	0.00	113.0	12.3	127.2	111.4	14.2	98.6	P	
5		DT	12	Migration Way, Sta. 7+50 RT	Curb Pad	D4S-17	0.00	113.0	12.3	127.6	112.1	13.8	99.2	P	
6		DT	12	Migration Way, Sta. 6+00 LT	Curb Pad	D4S-16	0.00	112.2	12.0	125.3	110.8	13.1	98.8	P	
7		DT	12	Migration Way, Sta. 4+50 RT	Curb Pad	D4S-16	0.00	112.2	12.0	125.9	110.4	14.0	98.4	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 5/22/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3440	Moisture Std	0
Ser. No.	21913		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
8		DT	12	Freshwater Place, Sta. 12+00 RT	Curb Pad	D4S-11	0.00	111.4	12.1	126.3	109.6	15.2	98.4	P	
9		DT	12	Freshwater Place, Sta. 13+50 RT	Curb Pad	D4S-12	0.00	111.2	12.6	127.4	109.9	15.9	98.8	P	
10		DT	12	Freshwater Place, Sta. 15+00 RT	Curb Pad	D4S-12	0.00	111.2	12.6	127.3	109.4	16.4	98.4	P	
11		DT	12	Hollow Branch Way, Sta. 14+00 LT	Curb Pad	D4S-13	0.00	110.1	12.2	125.2	108.7	15.2	98.7	P	
12		DT	12	Hollow Branch Way, Sta. 12+50 RT	Curb Pad	D4S-13	0.00	110.1	12.2	125.1	108.1	15.7	98.2	P	
13		DT	12	Hollow Branch Way, Sta. 11+00 LT	Curb Pad	D4S-13	0.00	110.1	12.2	124.8	109.2	14.3	99.2	P	



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FIELD REPORT

Project No. **35:36135**
Report No. **33**
Day & Date **Monday 5/19/2025**
Weather **°/**

Project **Rookery Phase 2B**
Location **Green Cove Springs, FL**
Client **Jax Dirtworks, Inc**
Contractor **Jax Dirtworks, Inc**

Remarks

* Travel time and mileage will be billed in accordance with the contract.

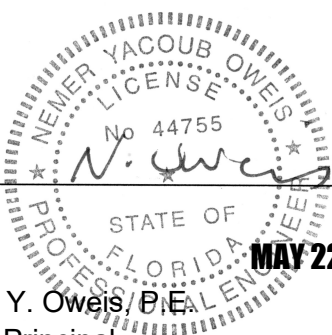
Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

As requested, we arrived on site to perform in-place density testing to determine the percent compaction of soils for curb pad.

Utilizing the Nuclear Density Test Method (ASTM D6938) to check the compaction of soils; test results indicated that the compacted soils, at the areas and depths tested, met the project requirements of 98% of the maximum dry density as obtained in our laboratory using the Limerock Bearing Ratio Method (FM 5-515).

These results are based upon selected locations and may not be representative of the soils in areas not tested. Should site conditions change or not be consistent with test results (e.g., pumping, rutting, standing water, etc.), ECS should be contacted immediately.

Thank you for allowing ECS Florida, LLC the opportunity to provide construction materials testing services for this project. Should you have any questions and/or comments, please contact our office.



Nemer Y. Oweis, P.E.
Senior Principal

Kathleen Gaal
CMT Senior Project Manager

By Robert Hicks

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 5/19/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3440	Moisture Std	0
Ser. No.	21913		

Sample No.				Description			Proctor Method					Uncorrected Max. Density		Uncorrected Optimum Moisture Content	
D4S-15				Gray Silty Fine Sand, LBR=51			FM 5-515					109.7		12.9	
D4S-09				Gray Silty Fine Sand, LBR=62			FM 5-515					113.7		11.8	
D4S-10				Gray Silty Fine Sand, LBR=46			FM 5-515					112.7		11.9	
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	12	Stork Court, Sta. 11+00 LT	Curb Pad	D4S-15	0.00	109.7	12.9	120.3	109.3	10.1	99.6	P	
2		DT	12	Darter Chase Street, Sta. 14+00 LT	Curb Pad	D4S-09	0.00	113.7	11.8	122.1	112.0	9.0	98.5	P	
3		DT	12	Darter Chase Street, Sta. 15+50 RT	Curb Pad	D4S-09	0.00	113.7	11.8	122.6	112.9	8.6	99.3	P	
4		DT	12	Darter Chase Street, Sta. 17+00 LT	Curb Pad	D4S-09	0.00	113.7	11.8	123.1	112.2	9.7	98.7	P	
5		DT	12	Darter Chase Street, Sta. 18+50 RT	Curb Pad	D4S-10	0.00	112.7	11.9	121.4	111.3	9.1	98.8	P	
6		DT	12	Darter Chase Street, Sta. 20+00 LT	Curb Pad	D4S-10	0.00	112.7	11.9	121.4	112.0	8.4	99.4	P	



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FIELD REPORT

Project **Rookery Phase 2B**
Location **Green Cove Springs, FL**
Client **Jax Dirtworks, Inc**
Contractor **Jax Dirtworks, Inc**

Project No. **35:36135**
Report No. **34**
Day & Date **Tuesday 6/3/2025**
Weather **°/**

Remarks

* Travel time and mileage will be billed in accordance with the contract.

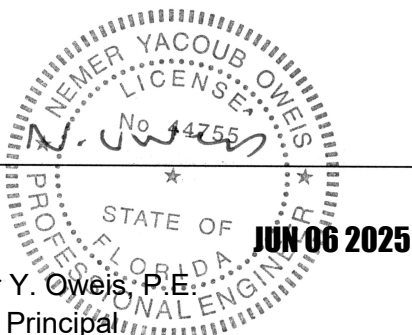
Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

As requested, we arrived on site to perform in-place density testing to determine the percent compaction of soils for roadway.

Utilizing the Nuclear Density Test Method (ASTM D6938) to check the compaction of soils; test results indicated that the compacted soils, at the areas and depths tested, met the project requirements of 98% of the maximum dry density as obtained in our laboratory using the Limerock Bearing Ratio Method (FM 5-515).

These results are based upon selected locations and may not be representative of the soils in areas not tested. Should site conditions change or not be consistent with test results (e.g., pumping, rutting, standing water, etc.), ECS should be contacted immediately.

Thank you for allowing ECS Florida, LLC the opportunity to provide construction materials testing services for this project. Should you have any questions and/or comments, please contact our office.



Nemer Y. Oweis, P.E.
Senior Principal

Kathleen Gaal
CMT Senior Project Manager

By Robert Hicks

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 6/3/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3440	Moisture Std	0
Ser. No.	21913		

Sample No.				Description			Proctor Method					Uncorrected Max. Density		Uncorrected Optimum Moisture Content	
D4S-11				Gray Silty Fine Sand, LBR=58			FM 5-515					111.4		12.1	
D4S-12				Gray Silty Fine Sand, LBR=51			FM 5-515					111.2		12.6	
D4S-13				Gray Silty Fine Sand, LBR=49			FM 5-515					110.1		12.2	
D4S-14				Gray Silty Fine Sand, LBR=63			FM 5-515					112.4		12.8	
D4S-15				Gray Silty Fine Sand, LBR=51			FM 5-515					109.7		12.9	
D4S-16				Gray Silty Fine Sand, LBR=63			FM 5-515					112.2		12.0	
D4S-17				Gray Silty Fine Sand, LBR=64			FM 5-515					113.0		12.3	
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	12	Migration Way, Sta. 9+00 LT	SG	D4S-17	0.00	113.0	12.3	128.9	111.3	15.8	98.5	P	SG denotes stabilized subgrade
2		DT	12	Migration Way, Sta. 6+00 CTR	SG	D4S-16	0.00	112.2	12.0	126.4	110.6	14.3	98.6	P	
3		DT	12	Freshwater Place, Sta. 11+00 LT	SG	D4S-11	0.00	111.4	12.1	127.4	109.8	16.0	98.6	P	
4		DT	12	Freshwater Place, Sta. 14+00 CTR	SG	D4S-12	0.00	111.2	12.6	125.6	110.3	13.9	99.2	P	
5		DT	12	Hollow Branch Way, Sta. 11+00 RT	SG	D4S-13	0.00	110.1	12.2	125.0	109.0	14.7	99.0	P	
6		DT	12	Hollow Branch Way, Sta. 14+00 LT	SG	D4S-13	0.00	110.1	12.2	125.1	108.4	15.4	98.5	P	

**Field Compaction Summary, ASTM D6938****ECS Florida, LLC**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 6/3/2025

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3440	Moisture Std	0
Ser. No.	21913		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
7		DT	12	Quiet Roost Place, Sta. 11+00 LT	SG	D4S-15	0.00	109.7	12.9	125.5	108.0	16.2	98.5	P	
8		DT	12	Quiet Roost Place, Sta. 14+00 CTR	SG	D4S-15	0.00	109.7	12.9	123.9	108.6	14.1	99.0	P	
9		DT	12	Quiet Roost Place, Sta. 17+00 RT	SG	D4S-14	0.00	112.4	12.8	127.3	111.1	14.6	98.8	P	



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FIELD REPORT

Project No. **35:36135**
Report No. **35**
Day & Date **Monday 6/9/2025**
Weather **°/**

Project **Rookery Phase 2B**
Location **Green Cove Springs, FL**
Client **Jax Dirtworks, Inc**
Contractor **Jax Dirtworks, Inc**

Remarks

* Travel time and mileage will be billed in accordance with the contract.

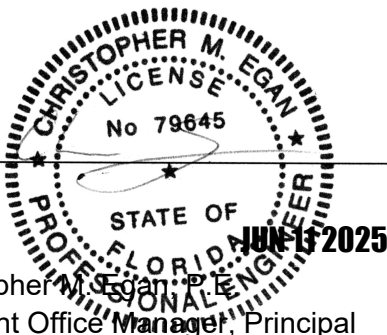
Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

As requested, we arrived on site to perform in-place density testing to determine the percent compaction of soils for roadway.

Utilizing the Nuclear Density Test Method (ASTM D6938) to check the compaction of soils; test results indicated that the compacted soils, at the areas and depths tested, met the project requirements of 98% of the maximum dry density as obtained in our laboratory using the Limerock Bearing Ratio Method (FM 5-515).

These results are based upon selected locations and may not be representative of the soils in areas not tested. Should site conditions change or not be consistent with test results (e.g., pumping, rutting, standing water, etc.), ECS should be contacted immediately.

Thank you for allowing ECS Florida, LLC the opportunity to provide construction materials testing services for this project. Should you have any questions and/or comments, please contact our office.



Christopher M. Egan, P.E.
Assistant Office Manager, Principal

Kathleen Gaal
CMT Senior Project Manager

By Robert Hicks

**Field Compaction Summary, ASTM D6938****ECS Florida, LLC**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 6/9/2025

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 3			
Make	Troxler	Density Std	0
Model	3440	Moisture Std	0
Ser. No.	21913		

Sample No.				Description			Proctor Method					Uncorrected Max. Density		Uncorrected Optimum Moisture Content	
D4S-09				Gray Silty Fine Sand, LBR=62			FM 5-515					113.7		11.8	
D4S--10				Gray Silty Fine Sand, LBR=46			FM 5-515					112.7		11.9	
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	12	Darter Chase Street, Sta. 14+00 LT	SG	D4S-09	0.00	113.7	11.8	128.5	112.4	14.3	98.9	P	SG denotes stabilized subgrade
2		DT	12	Darter Chase Street, Sta. 17+00 CTR	SG	D4S-09	0.00	113.7	11.8	126.2	111.9	12.8	98.4	P	
3		DT	12	Darter Chase Street, Sta. 20+00 RT	SG	D4S--10	0.00	112.7	11.9	126.7	113.0	12.1	100.3	P	



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FIELD REPORT

Project No. **35:36135**
Report No. **44**
Day & Date **Tuesday 12/2/2025**
Weather **°/**

Project **Rookery Phase 2B**
Location **Green Cove Springs, FL**
Client **Jax Dirtworks, Inc**
Contractor **Jax Dirtworks, Inc**

Remarks

* Travel time and mileage will be billed in accordance with the contract.

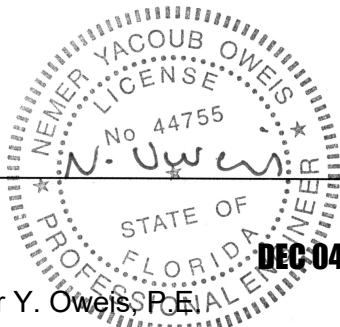
Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

As requested, we arrived on site to perform in-place density testing to determine the percent compaction of base material for roadway.

Utilizing the Nuclear Density Test Method (ASTM D6938) to check the compaction of base material; test results indicated that the compacted material, at the areas and depths tested, met the project requirements of 100% of the maximum dry density as obtained in our laboratory using the Limerock Bearing Ratio Method (FM 5-515).

These results are based upon selected locations and may not be representative of the soils in areas not tested. Should site conditions change or not be consistent with test results (e.g., pumping, rutting, standing water, etc.), ECS should be contacted immediately.

Thank you for allowing ECS Florida, LLC the opportunity to provide construction materials testing services for this project. Should you have any questions and/or comments, please contact our office.



Nemer Y. Oweis, P.E.
Senior Principal

Kathleen Gaal
CMT Senior Project Manager

By Robert Hicks

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/2/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-07				Reclaimed Concrete Aggregate Base (RCAB) LBR=192			FM 5-515					115.0			11.7
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	6	Stork Court, Sta. 11+00 CTR	Base	D4S-07	0.00	115.0	11.7	123.9	115.7	7.1	100.6	P	Thickness=6.50"
2		DT	6	Quiet Roost Place, Sta. 11+00 LT	Base	D4S-07	0.00	115.0	11.7	123.6	116.1	6.5	101.0	P	Thickness=6.25"
3		DT	6	Quiet Roost Place, Sta. 14+00 CTR	Base	D4S-07	0.00	115.0	11.7	124.9	115.4	8.2	100.3	P	Thickness=6.50"
4		DT	6	Quiet Roost Place, Sta. 17+00 RT	Base	D4S-07	0.00	115.0	11.7	125.5	116.3	7.9	101.1	P	Thickness=6.75"
5		DT	6	Migration Way, Sta. 4+00 LT	Base	D4S-07	0.00	115.0	11.7	123.7	115.9	6.7	100.8	P	Thickness=6.50"
6		DT	6	Migration Way, Sta. 6+00 CTR	Base	D4S-07	0.00	115.0	11.7	124.8	115.1	8.4	100.1	P	Thickness=6.25"
7		DT	6	Migration Way, Sta. 9+00 RT	Base	D4S-07	0.00	115.0	11.7	124.9	116.3	7.4	101.1	P	Thickness=6.50"
8		DT	6	Freshwater Place, Sta. 11+00 LT	Base	D4S-07	0.00	115.0	11.7	122.7	115.6	6.1	100.5	P	Thickness=6.25"
9		DT	6	Freshwater Place, Sta. 14+00 RT	Base	D4S-07	0.00	115.0	11.7	125.4	116.0	8.1	100.9	P	Thickness=6.75"
10		DT	6	Hollow Branch Way, Sta. 11+00 LT	Base	D4S-07	0.00	115.0	11.7	124.2	115.4	7.6	100.3	P	Thickness=6.75"
11		DT	6	Hollow Branch Way, Sta. 14+00 RT	Base	D4S-07	0.00	115.0	11.7	124.2	116.2	6.9	101.0	P	Thickness=6.50"

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/2/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
12		DT	6	Darter Chase Street, Sta. 14+00 LT	Base	D4S-07	0.00	115.0	11.7	125.8	115.8	8.6	100.7	P	Thickness=6.75"
13		DT	6	Darter Chase Street, Sta. 17+00 CTR	Base	D4S-07	0.00	115.0	11.7	124.8	116.4	7.2	101.2	P	Thickness=6.50"
14		DT	6	Darter Chase Street, Sta. 20+00 RT	Base	D4S-07	0.00	115.0	11.7	123.9	115.9	6.9	100.8	P	Thickness=6.75"
15		DT	6	Banyon Tree Point, Sta. 11+00 LT	Base	D4S-07	0.00	115.0	11.7	125.0	115.1	8.6	100.1	P	Thickness=6.50"
16		DT	6	Banyon Tree Point, Sta. 14+00 CTR	Base	D4S-07	0.00	115.0	11.7	124.4	116.3	7.0	101.1	P	Thickness=6.50"



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FIELD REPORT

Project **Rookery Phase 2B**
Location **Green Cove Springs, FL**
Client **Jax Dirtworks, Inc**
Contractor **Jax Dirtworks, Inc**

Project No. **35:36135**
Report No. **47**
Day & Date **Thursday 12/11/2025**
Weather **°/**

Remarks

* Travel time and mileage will be billed in accordance with the contract.

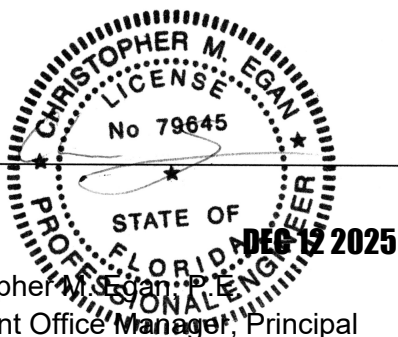
Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

As requested on 11/19/25, we arrived on site to perform in-place density testing to determine the percent compaction of soils for pipe backfill.

Utilizing the Nuclear Density Test Method (ASTM D6938) to check the compaction of soils; test results indicated that the compacted soils, at the areas and depths tested, met the project requirements of 98% of the maximum dry density as obtained in our laboratory using the Modified Proctor Method (ASTM D1557).

These results are based upon selected locations and may not be representative of the soils in areas not tested. Should site conditions change or not be consistent with test results (e.g., pumping, rutting, standing water, etc.), ECS should be contacted immediately.

Thank you for allowing ECS Florida, LLC the opportunity to provide construction materials testing services for this project. Should you have any questions and/or comments, please contact our office.



Christopher M. Egan, P.E.
Assistant Office Manager, Principal

Chance A. Leonard
Subsidiary Assistant Regional Manager

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/11/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-01				Brown Fine Sand with Silt			ASTM D1557					108.5			14.2
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	12	Around S-258B	1st Lift	D4S-01	0.00	108.5	14.2	117.7	106.7	10.3	98.3	P	
2		DT	12	Around S-258B	2nd Lift	D4S-01	0.00	108.5	14.2	117.8	107.0	10.1	98.6	P	
3		DT	12	Around S-258B	3rd Lift	D4S-01	0.00	108.5	14.2	118.0	106.9	10.4	98.5	P	
4		DT	12	Around S-258B	4th Lift	D4S-01	0.00	108.5	14.2	119.2	108.6	9.8	100.1	P	
5		DT	12	Around S-258B	5th Lift	D4S-01	0.00	108.5	14.2	116.7	107.4	8.7	99.0	P	
6		DT	12	Around S-258B	6th Lift	D4S-01	0.00	108.5	14.2	118.6	108.3	9.5	99.8	P	
7		DT	12	36" HDPE between S-258B & S-258C	SL	D4S-01	0.00	108.5	14.2	118.1	107.0	10.4	98.6	P	SL denotes springline of pipe
8		DT	12	36" HDPE between S-258B & S-258C	Top Pipe	D4S-01	0.00	108.5	14.2	118.1	107.7	9.7	99.3	P	
9		DT	12	36" HDPE between S-258B & S-258C	1' Above	D4S-01	0.00	108.5	14.2	117.6	107.9	9.0	99.4	P	1' Above denotes 1' above top of pipe
10		DT	12	36" HDPE between S-258B & S-258C	2' Above	D4S-01	0.00	108.5	14.2	117.5	106.7	10.1	98.3	P	
11		DT	12	36" HDPE between S-258B & S-258C	3' Above	D4S-01	0.00	108.5	14.2	118.8	108.3	9.7	99.8	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/11/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
12		DT	12	Around S-258C	1st Lift	D4S-01	0.00	108.5	14.2	115.9	106.6	8.7	98.2	P	
13		DT	12	Around S-258C	2nd Lift	D4S-01	0.00	108.5	14.2	118.7	107.4	10.5	99.0	P	
14		DT	12	Around S-258C	3rd Lift	D4S-01	0.00	108.5	14.2	117.0	107.2	9.1	98.8	P	
15		DT	12	Around S-258C	4th Lift	D4S-01	0.00	108.5	14.2	119.3	108.5	10.0	100.0	P	
16		DT	12	Around S-258C	5th Lift	D4S-01	0.00	108.5	14.2	117.5	107.0	9.8	98.6	P	
17		DT	12	Around S-258C	6th Lift	D4S-01	0.00	108.5	14.2	116.9	107.8	8.4	99.4	P	
18		DT	12	Sewer Pipe between MH-255 & MH-256	2' Above	D4S-01	0.00	108.5	14.2	120.0	106.7	12.5	98.3	P	
19		DT	12	Sewer Pipe between MH-255 & MH-256	3' Above	D4S-01	0.00	108.5	14.2	119.4	107.8	10.8	99.4	P	
20		DT	12	Sewer Pipe between MH-255 & MH-256	4' Above	D4S-01	0.00	108.5	14.2	118.9	108.2	9.9	99.7	P	
21		DT	12	Sewer Pipe between MH-255 & MH-256	5' Above	D4S-01	0.00	108.5	14.2	118.1	107.1	10.3	98.7	P	
22		DT	12	Sewer Pipe between MH-255 & MH-256	6' Above	D4S-01	0.00	108.5	14.2	118.8	108.6	9.4	100.1	P	
23		DT	12	Sewer Pipe between MH-255 & MH-256	7' Above	D4S-01	0.00	108.5	14.2	117.9	107.6	9.6	99.2	P	
24		DT	12	Sewer Pipe between MH-255 & MH-256	8' Above	D4S-01	0.00	108.5	14.2	117.3	106.9	9.7	98.5	P	

**Field Compaction Summary, ASTM D6938****ECS Florida, LLC**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/11/2025

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
25		DT	12	Sewer Pipe between MH-255 & MH-256	9' Above	D4S-01	0.00	108.5	14.2	119.4	108.1	10.5	99.6	P	
26		DT	12	Sewer Pipe between MH-255 & MH-256	10' Above	D4S-01	0.00	108.5	14.2	117.4	107.3	9.4	98.9	P	



ECS Florida, LLC
11554 Davis Creek Court
Jacksonville, FL 32256
T 904.880.0960
F 904.880.0970

FIELD REPORT

Project No. **35:36135**
Report No. **48**
Day & Date **Friday 12/12/2025**
Weather **°/**

Project **Rookery Phase 2B**
Location **Green Cove Springs, FL**
Client **Jax Dirtworks, Inc**
Contractor **Jax Dirtworks, Inc**

Remarks

* Travel time and mileage will be billed in accordance with the contract.

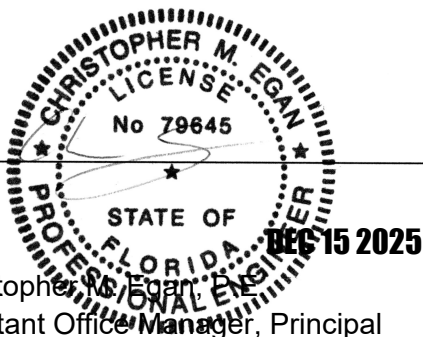
Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

As requested, we arrived on site to perform in-place density testing to determine the percent compaction of soils for pipe backfill in green areas.

Utilizing the Nuclear Density Test Method (ASTM D6938) to check the compaction of soils; test results indicated that the compacted soils, at the areas and depths tested, met the project requirements of 95% of the maximum dry density as obtained in our laboratory using the Modified Proctor Method (ASTM D1557).

These results are based upon selected locations and may not be representative of the soils in areas not tested. Should site conditions change or not be consistent with test results (e.g., pumping, rutting, standing water, etc.), ECS should be contacted immediately.

Thank you for allowing ECS Florida, LLC the opportunity to provide construction materials testing services for this project. Should you have any questions and/or comments, please contact our office.



Kathleen Gaal
CMT Senior Project Manager

By Robert Hicks

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/12/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-01				Brown Fine Sand with Silt			ASTM D1557					108.5			14.2
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	12	Around S-119A	1st Lift	D4S-01	0.00	108.5	14.2	119.5	107.8	10.9	99.4	P	
2		DT	12	Around S-119A	2nd Lift	D4S-01	0.00	108.5	14.2	119.7	107.0	11.9	98.6	P	
3		DT	12	Around S-119A	3rd Lift	D4S-01	0.00	108.5	14.2	118.6	108.2	9.6	99.7	P	
4		DT	12	Around S-119A	4th Lift	D4S-01	0.00	108.5	14.2	120.7	107.5	12.3	99.1	P	
5		DT	12	Around S-119A	5th Lift	D4S-01	0.00	108.5	14.2	117.7	106.6	10.4	98.2	P	
6		DT	12	15" HDPE between S-119A & EX-119B	SL	D4S-01	0.00	108.5	14.2	120.7	108.0	11.8	99.5	P	SL denotes springline of pipe
7		DT	12	15" HDPE between S-119A & EX-119B	Top Pipe	D4S-01	0.00	108.5	14.2	117.4	107.1	9.6	98.7	P	
8		DT	12	15" HDPE between S-119A & EX-119B	1' Above	D4S-01	0.00	108.5	14.2	121.7	108.6	12.1	100.1	P	1' Above denotes 1' above top of pipe
9		DT	12	15" HDPE between S-119A & EX-119B	2' Above	D4S-01	0.00	108.5	14.2	118.7	106.9	11.0	98.5	P	
10		DT	12	15" HDPE between S-119A & EX-119B	3' Above	D4S-01	0.00	108.5	14.2	120.2	107.7	11.6	99.3	P	
11		DT	12	Around S-236	1st Lift	D4S-01	0.00	108.5	14.2	119.0	108.3	9.9	99.8	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/12/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
12		DT	12	Around S-236	2nd Lift	D4S-01	0.00	108.5	14.2	119.8	106.5	12.5	98.2	P	
13		DT	12	Around S-236	3rd Lift	D4S-01	0.00	108.5	14.2	118.9	107.9	10.2	99.4	P	
14		DT	12	Around S-236	4th Lift	D4S-01	0.00	108.5	14.2	118.9	106.8	11.3	98.4	P	
15		DT	12	15" HDPE between S-236 & S-237	SL	D4S-01	0.00	108.5	14.2	118.7	108.2	9.7	99.7	P	
16		DT	12	15" HDPE between S-236 & S-237	Top Pipe	D4S-01	0.00	108.5	14.2	120.3	107.3	12.1	98.9	P	
17		DT	12	15" HDPE between S-236 & S-237	1' Above	D4S-01	0.00	108.5	14.2	117.8	106.4	10.7	98.1	P	
18		DT	12	15" HDPE between S-236 & S-237	2' Above	D4S-01	0.00	108.5	14.2	120.9	108.0	11.9	99.5	P	
19		DT	12	15" HDPE between S-236 & S-236A	SL	D4S-01	0.00	108.5	14.2	117.7	107.1	9.9	98.7	P	
20		DT	12	15" HDPE between S-236 & S-236A	Top Pipe	D4S-01	0.00	108.5	14.2	121.1	107.8	12.3	99.4	P	
21		DT	12	15" HDPE between S-236 & S-236A	1' Above	D4S-01	0.00	108.5	14.2	118.1	107.0	10.4	98.6	P	
22		DT	12	15" HDPE between S-236 & S-236A	2' Above	D4S-01	0.00	108.5	14.2	120.1	108.1	11.1	99.6	P	
23		DT	12	Around S-236A	1st Lift	D4S-01	0.00	108.5	14.2	118.0	107.6	9.7	99.2	P	
24		DT	12	Around S-236A	2nd Lift	D4S-01	0.00	108.5	14.2	120.2	106.9	12.4	98.5	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/12/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
25		DT	12	Around S-236A	3rd Lift	D4S-01	0.00	108.5	14.2	119.9	108.2	10.8	99.7	P	
26		DT	12	Around S-236A	4th Lift	D4S-01	0.00	108.5	14.2	119.8	107.4	11.5	99.0	P	
27		DT	12	Around S-246	1st Lift	D4S-01	0.00	108.5	14.2	117.4	106.9	9.8	98.5	P	
28		DT	12	Around S-246	2nd Lift	D4S-01	0.00	108.5	14.2	121.6	108.4	12.2	99.9	P	
29		DT	12	Around S-246	3rd Lift	D4S-01	0.00	108.5	14.2	118.3	107.0	10.6	98.6	P	
30		DT	12	Around S-246	4th Lift	D4S-01	0.00	108.5	14.2	120.8	107.9	12.0	99.4	P	
31		DT	12	Around S-246	5th Lift	D4S-01	0.00	108.5	14.2	116.7	106.6	9.5	98.2	P	
32		DT	12	15" HDPE between S-246 & S-247	SL	D4S-01	0.00	108.5	14.2	121.2	108.1	12.1	99.6	P	
33		DT	12	15" HDPE between S-246 & S-247	Top Pipe	D4S-01	0.00	108.5	14.2	118.7	107.4	10.5	99.0	P	
34		DT	12	15" HDPE between S-246 & S-247	1' Above	D4S-01	0.00	108.5	14.2	118.8	106.8	11.2	98.4	P	
35		DT	12	15" HDPE between S-246 & S-247	2' Above	D4S-01	0.00	108.5	14.2	119.1	108.5	9.8	100.0	P	
36		DT	12	15" HDPE between S-245 & S-246	SL	D4S-01	0.00	108.5	14.2	120.4	107.2	12.3	98.8	P	
37		DT	12	15" HDPE between S-245 & S-246	Top Pipe	D4S-01	0.00	108.5	14.2	118.0	106.4	10.9	98.1	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/12/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
38		DT	12	15" HDPE between S-245 & S-246	1' Above	D4S-01	0.00	108.5	14.2	120.9	108.3	11.6	99.8	P	
39		DT	12	15" HDPE between S-245 & S-246	2' Above	D4S-01	0.00	108.5	14.2	118.0	107.6	9.7	99.2	P	
40		DT	12	Around S-245	1st Lift	D4S-01	0.00	108.5	14.2	119.8	106.8	12.2	98.4	P	
41		DT	12	Around S-245	2nd Lift	D4S-01	0.00	108.5	14.2	119.6	108.1	10.6	99.6	P	
42		DT	12	Around S-245	3rd Lift	D4S-01	0.00	108.5	14.2	119.0	107.2	11.0	98.8	P	
43		DT	12	Around S-245	4th Lift	D4S-01	0.00	108.5	14.2	117.5	106.7	10.1	98.3	P	



ECS Florida, LLC
11554 Davis Creek Court
Jacksonville, FL 32256
T 904.880.0960
F 904.880.0970

FIELD REPORT

Project No. **35:36135**
Report No. **49**
Day & Date **Monday 12/15/2025**
Weather **°/**

Project **Rookery Phase 2B**
Location **Green Cove Springs, FL**
Client **Jax Dirtworks, Inc**
Contractor **Jax Dirtworks, Inc**

Remarks

* Travel time and mileage will be billed in accordance with the contract.

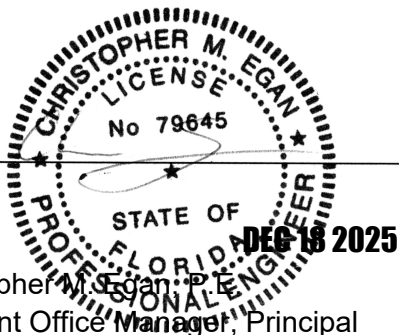
Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

As requested, we arrived on site to perform in-place density testing to determine the percent compaction of soils for pipe backfill in green areas.

Utilizing the Nuclear Density Test Method (ASTM D6938) to check the compaction of soils; test results indicated that the compacted soils, at the areas and depths tested, met the project requirements of 95% of the maximum dry density as obtained in our laboratory using the Modified Proctor Method (ASTM D1557).

These results are based upon selected locations and may not be representative of the soils in areas not tested. Should site conditions change or not be consistent with test results (e.g., pumping, rutting, standing water, etc.), ECS should be contacted immediately.

Thank you for allowing ECS Florida, LLC the opportunity to provide construction materials testing services for this project. Should you have any questions and/or comments, please contact our office.



Christopher M. Egan, P.E.
Assistant Office Manager, Principal

Kathleen Gaal
CMT Senior Project Manager

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/15/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-01				Brown Fine Sand with Silt			ASTM D1557					108.5			14.2
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	12	15" HDPE between S-253 & S-253B	SL	D4S-01	0.00	108.5	14.2	116.8	104.1	12.2	95.9	P	SL denotes springline of pipe
2		DT	12	15" HDPE between S-253 & S-253B	Top Pipe	D4S-01	0.00	108.5	14.2	117.2	104.9	11.7	96.7	P	
3		DT	12	15" HDPE between S-253 & S-253B	1' Above	D4S-01	0.00	108.5	14.2	116.1	105.3	10.3	97.1	P	1' Above denotes 1' above top of pipe
4		DT	12	15" HDPE between S-253 & S-253B	2' Above	D4S-01	0.00	108.5	14.2	117.4	106.9	9.8	98.5	P	
5		DT	12	Around S-253B	1st Lift	D4S-01	0.00	108.5	14.2	118.8	104.4	13.8	96.2	P	
6		DT	12	Around S-253B	2nd Lift	D4S-01	0.00	108.5	14.2	117.3	105.2	11.5	97.0	P	
7		DT	12	Around S-253B	3rd Lift	D4S-01	0.00	108.5	14.2	118.2	106.6	10.9	98.2	P	
8		DT	12	Around S-253B	4th Lift	D4S-01	0.00	108.5	14.2	117.2	107.0	9.5	98.6	P	
9		DT	12	15" HDPE between S-253A & S-253B	SL	D4S-01	0.00	108.5	14.2	120.1	106.4	12.9	98.1	P	
10		DT	12	15" HDPE between S-253A & S-253B	Top Pipe	D4S-01	0.00	108.5	14.2	118.7	107.8	10.1	99.4	P	
11		DT	12	15" HDPE between S-253A & S-253B	1' Above	D4S-01	0.00	108.5	14.2	120.7	108.4	11.3	99.9	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/15/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
12		DT	12	15" HDPE between S-253A & S-253B	2' Above	D4S-01	0.00	108.5	14.2	116.9	105.7	10.6	97.4	P	
13		DT	12	Around S-253A	1st Lift	D4S-01	0.00	108.5	14.2	117.3	105.2	11.5	97.0	P	
14		DT	12	Around S-253A	2nd Lift	D4S-01	0.00	108.5	14.2	119.4	106.8	11.8	98.4	P	
15		DT	12	Around S-253A	3rd Lift	D4S-01	0.00	108.5	14.2	118.0	107.1	10.2	98.7	P	
16		DT	12	Around S-253A	4th Lift	D4S-01	0.00	108.5	14.2	118.5	108.0	9.7	99.5	P	
17		DT	12	15" HDPE between S-255 & S-255A	SL	D4S-01	0.00	108.5	14.2	119.1	104.9	13.5	96.7	P	
18		DT	12	15" HDPE between S-255 & S-255A	Top Pipe	D4S-01	0.00	108.5	14.2	117.0	105.7	10.7	97.4	P	
19		DT	12	15" HDPE between S-255 & S-255A	1' Above	D4S-01	0.00	108.5	14.2	118.8	106.1	12.0	97.8	P	
20		DT	12	15" HDPE between S-255 & S-255A	2' Above	D4S-01	0.00	108.5	14.2	119.9	107.9	11.1	99.4	P	
21		DT	12	15" HDPE between S-255 & S-255A	3' Above	D4S-01	0.00	108.5	14.2	119.6	108.3	10.4	99.8	P	
22		DT	12	18" HDPE between S-248 & MES-122	SL	D4S-01	0.00	108.5	14.2	116.9	104.4	12.0	96.2	P	
23		DT	12	18" HDPE between S-248 & MES-122	Top Pipe	D4S-01	0.00	108.5	14.2	117.9	105.9	11.3	97.6	P	
24		DT	12	18" HDPE between S-248 & MES-122	1' Above	D4S-01	0.00	108.5	14.2	118.1	106.6	10.8	98.2	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/15/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
25		DT	12	18" HDPE between S-248 & MES-122	2' Above	D4S-01	0.00	108.5	14.2	119.3	107.9	10.6	99.4	P	
26		DT	12	18" HDPE between S-248 & MES-122	3' Above	D4S-01	0.00	108.5	14.2	118.9	108.2	9.9	99.7	P	
27		DT	12	18" HDPE between S-116 & S-239	SL	D4S-01	0.00	108.5	14.2	117.4	104.6	12.2	96.4	P	
28		DT	12	18" HDPE between S-116 & S-239	Top Pipe	D4S-01	0.00	108.5	14.2	117.9	105.4	11.9	97.1	P	
29		DT	12	18" HDPE between S-116 & S-239	1' Above	D4S-01	0.00	108.5	14.2	119.3	106.9	11.6	98.5	P	
30		DT	12	18" HDPE between S-116 & S-239	2' Above	D4S-01	0.00	108.5	14.2	118.8	107.3	10.7	98.9	P	
31		DT	12	18" HDPE between S-116 & S-239	3' Above	D4S-01	0.00	108.5	14.2	119.3	108.5	10.0	100.0	P	
32		DT	12	Around S-116	1st Lift	D4S-01	0.00	108.5	14.2	118.5	104.8	13.1	96.6	P	
33		DT	12	Around S-116	2nd Lift	D4S-01	0.00	108.5	14.2	118.3	105.1	12.6	96.9	P	
34		DT	12	Around S-116	3rd Lift	D4S-01	0.00	108.5	14.2	118.8	106.6	11.4	98.2	P	
35		DT	12	Around S-116	4th Lift	D4S-01	0.00	108.5	14.2	118.0	107.2	10.1	98.8	P	
36		DT	12	Around S-116	5th Lift	D4S-01	0.00	108.5	14.2	118.7	108.1	9.8	99.6	P	



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FIELD REPORT

Project No. **35:36135**
Report No. **51R**
Day & Date **Friday 12/19/2025**
Weather **°/**

Project **Rookery Phase 2B**
Location **Green Cove Springs, FL**
Client **Jax Dirtworks, Inc**
Contractor **Jax Dirtworks, Inc**

Remarks

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

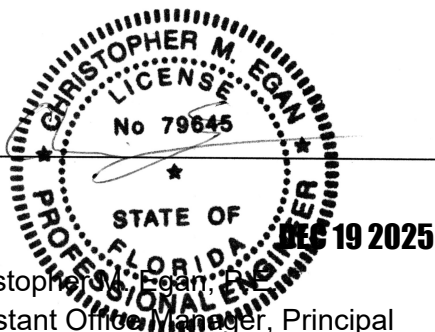
****This report pertains to a site visit conducted on 12/17/25 – REVISED REPORT****

As requested, we arrived on site to perform in-place density testing to determine the percent compaction of soils for pipe backfill in green areas.

Utilizing the Nuclear Density Test Method (ASTM D6938) to check the compaction of soils; test results indicated that the compacted soils, at the areas and depths tested, met the project requirements of 95% of the maximum dry density as obtained in our laboratory using the Modified Proctor Method (ASTM D1557).

These results are based upon selected locations and may not be representative of the soils in areas not tested. Should site conditions change or not be consistent with test results (e.g., pumping, rutting, standing water, etc.), ECS should be contacted immediately.

Thank you for allowing ECS Florida, LLC the opportunity to provide construction materials testing services for this project. Should you have any questions and/or comments, please contact our office.



Kathleen Gaal
CMT Senior Project Manager

By Robert Hicks



Field Compaction Summary, ASTM D2922, D3017

Project No: 35:36135

Project Name: Rookery Phase 2B

Client: Jax Dirtworks, Inc

Contractor: 36135

Report 51 (12/17/2025)

Tech. Num.	Gauge No.	Lot No.	Test No.	Test Mode	Probe Depth	Lift / Elev	Station / Location	Sample No.	% Oversize	Corrected Maximum Dry Density (pcf)	Corrected Maximum Moisture Content (%)	Test Data				P / F	Comments
												Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)		
32095	49		1	DT	12	SL	36" HDPE between S-258A & S-258B	D4S-01	0.00	108.5	14.2	118.5	104.1	13.8	95.9	P	SL denotes springline of pipe
32095	49		2	DT	12	Top Pipe	36" HDPE between S-258A & S-258B	D4S-01	0.00	108.5	14.2	119.0	105.8	12.5	97.5	P	
32095	49		3	DT	12	1' Above	36" HDPE between S-258A & S-258B	D4S-01	0.00	108.5	14.2	116.6	105.4	10.6	97.1	P	1' Above denotes 1' above top of pipe
32095	49		4	DT	12	2' Above	36" HDPE between S-258A & S-258B	D4S-01	0.00	108.5	14.2	119.7	107.0	11.9	98.6	P	
32095	49		5	DT	12	3' Above	36" HDPE between S-258A & S-258B	D4S-01	0.00	108.5	14.2	117.6	107.7	9.2	99.3	P	
32095	49		6	DT	12	SL	36" HDPE between S-258C & S-258D	D4S-01	0.00	108.5	14.2	117.9	104.2	13.1	96.0	P	
32095	49		7	DT	12	Top Pipe	36" HDPE between S-258C & S-258D	D4S-01	0.00	108.5	14.2	117.9	104.9	12.4	96.7	P	

Test Mode: DT = Direct Transmission BS = Back Scatter

**Field Compaction Summary, ASTM D2922, D3017**Project No: 35:36135Project Name: Rookery Phase 2BClient: Jax Dirtworks, IncContractor: 36135

32095	49		8	DT	12	1' Above	36" HDPE between S-258C & S-258D	D4S-01	0.00	108.5	14.2	118.2	105.8	11.7	97.5	P	
32095	49		9	DT	12	2' Above	36" HDPE between S-258C & S-258D	D4S-01	0.00	108.5	14.2	120.9	107.1	12.9	98.7	P	
32095	49		10	DT	12	3' Above	36" HDPE between S-258C & S-258D	D4S-01	0.00	108.5	14.2	116.7	106.3	9.8	98.0	P	
32095	49		11	DT	12	1st Lift	Around S-255A	D4S-01	0.00	108.5	14.2	119.2	104.6	14.0	96.4	P	
32095	49		12	DT	12	2nd Lift	Around S-255A	D4S-01	0.00	108.5	14.2	118.3	106.0	11.6	97.7	P	
32095	49		13	DT	12	3rd Lift	Around S-255A	D4S-01	0.00	108.5	14.2	115.0	105.0	9.5	96.8	P	
32095	49		14	DT	12	4th Lift	Around S-255A	D4S-01	0.00	108.5	14.2	119.7	106.7	12.2	98.3	P	
32095	49		15	DT	12	5th Lift	Around S-255A	D4S-01	0.00	108.5	14.2	114.5	104.0	10.1	95.9	P	
32095	49		16	DT	12	6th Lift	Around S-255A	D4S-01	0.00	108.5	14.2	119.2	107.6	10.8	99.2	P	
32095	49		17	DT	12	7th Lift	Around S-255A	D4S-01	0.00	108.5	14.2	120.1	108.5	10.7	100.0	P	
32095	49		18	DT	12	1st Lift	Around S-258D	D4S-01	0.00	108.5	14.2	119.9	104.3	15.0	96.1	P	
32095	49		19	DT	12	2nd Lift	Around S-258D	D4S-01	0.00	108.5	14.2	120.5	105.9	13.8	97.6	P	
32095	49		20	DT	12	3rd Lift	Around S-258D	D4S-01	0.00	108.5	14.2	118.4	106.1	11.6	97.8	P	
32095	49		21	DT	12	4th Lift	Around S-258D	D4S-01	0.00	108.5	14.2	117.5	104.6	12.3	96.4	P	
32095	49		22	DT	12	5th Lift	Around S-258D	D4S-01	0.00	108.5	14.2	118.9	107.9	10.2	99.4	P	
32095	49		23	DT	12	6th Lift	Around S-258D	D4S-01	0.00	108.5	14.2	116.1	105.0	10.6	96.8	P	

Test Mode: DT = Direct Transmission BS = Back Scatter



Field Compaction Summary, ASTM D2922, D3017

Project No: 35:36135

Project Name: Rookery Phase 2B

Client: Jax Dirtworks, Inc

Contractor: 36135

32095	49		24	DT	12	7th Lift	Around S-258D	D4S-01	0.00	108.5	14.2	119.3	106.6	11.9	98.2	P	
32095	49		25	DT	12	8th Lift	Around S-258D	D4S-01	0.00	108.5	14.2	115.8	105.3	10.0	97.1	P	

Test Mode: DT = Direct Transmission BS = Back Scatter



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FIELD REPORT

Project **Rookery Phase 2B**
Location **Green Cove Springs, FL**
Client **Jax Dirtworks, Inc**
Contractor **Jax Dirtworks, Inc**

Project No. **35:36135**
Report No. **52**
Day & Date **Wednesday 12/17/2025**
Weather **65 °/ Sunny**

Remarks

* Travel time and mileage will be billed in accordance with the contract.

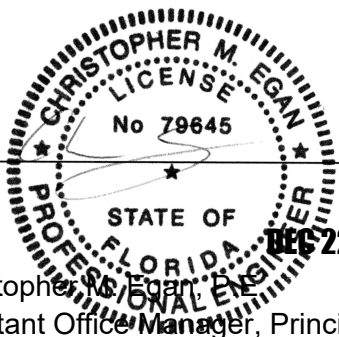
Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

As requested, we arrived on site to perform in-place density testing to determine the percent compaction of soils for mass fill at Lots 480-495.

Utilizing the Nuclear Density Test Method (ASTM D6938) to check the compaction of soils; test results indicated that the compacted soils, at the areas and depths tested, met the project requirements of 95% of the maximum dry density as obtained in our laboratory using the Modified Proctor Method (ASTM D1557).

These results are based upon selected locations and may not be representative of the soils in areas not tested. Should site conditions change or not be consistent with test results (e.g., pumping, rutting, standing water, etc.), ECS should be contacted immediately.

Thank you for allowing ECS Florida, LLC the opportunity to provide construction materials testing services for this project. Should you have any questions and/or comments, please contact our office.



Christopher M. Egan, P.E.
Assistant Office Manager, Principal

Kathleen Gaal
CMT Senior Project Manager

By Jessie M Liptrot

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/17/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Jessie M Liptrot

Test Method ASTM D6938			
Nuclear Gauge No. 40			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	32683		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-01				Brown Fine Sand with Silt			ASTM D1557					108.5			14.2
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	12	Lot 480	1st Lift	D4S-01	0.00	108.5	14.2	117.3	105.4	11.3	97.1	P	
2		DT	12	Lot 480	2nd Lift	D4S-01	0.00	108.5	14.2	117.7	106.2	10.8	97.9	P	
3		DT	12	Lot 481	1st Lift	D4S-01	0.00	108.5	14.2	116.6	105.1	10.9	96.9	P	
4		DT	12	Lot 481	2nd Lift	D4S-01	0.00	108.5	14.2	117.4	105.3	11.5	97.1	P	
5		DT	12	Lot 482	1st Lift	D4S-01	0.00	108.5	14.2	116.8	105.0	11.2	96.8	P	
6		DT	12	Lot 482	2nd Lift	D4S-01	0.00	108.5	14.2	117.3	105.7	11.0	97.4	P	
7		DT	12	Lot 483	1st Lift	D4S-01	0.00	108.5	14.2	116.5	105.2	10.7	97.0	P	
8		DT	12	Lot 483	2nd Lift	D4S-01	0.00	108.5	14.2	117.4	106.2	10.5	97.9	P	
9		DT	12	Lot 484	1st Lift	D4S-01	0.00	108.5	14.2	117.0	105.8	10.6	97.5	P	
10		DT	12	Lot 484	2nd Lift	D4S-01	0.00	108.5	14.2	116.9	105.2	11.2	97.0	P	
11		DT	12	Lot 485	1st Lift	D4S-01	0.00	108.5	14.2	117.0	105.5	10.9	97.2	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/17/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Jessie M Liptrot

Test Method ASTM D6938			
Nuclear Gauge No. 40			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	32683		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
12		DT	12	Lot 485	2nd Lift	D4S-01	0.00	108.5	14.2	117.6	106.2	10.7	97.9	P	
13		DT	12	Lot 486	1st Lift	D4S-01	0.00	108.5	14.2	117.1	105.3	11.2	97.1	P	
14		DT	12	Lot 486	2nd Lift	D4S-01	0.00	108.5	14.2	117.3	105.8	10.9	97.5	P	
15		DT	12	Lot 487	1st Lift	D4S-01	0.00	108.5	14.2	117.8	106.3	10.8	98.0	P	
16		DT	12	Lot 487	2nd Lift	D4S-01	0.00	108.5	14.2	117.1	106.2	10.3	97.9	P	
17		DT	12	Lot 488	1st Lift	D4S-01	0.00	108.5	14.2	116.7	105.5	10.6	97.2	P	
18		DT	12	Lot 488	2nd Lift	D4S-01	0.00	108.5	14.2	117.1	106.2	10.3	97.9	P	
19		DT	12	Lot 489	1st Lift	D4S-01	0.00	108.5	14.2	116.2	105.2	10.5	97.0	P	
20		DT	12	Lot 489	2nd Lift	D4S-01	0.00	108.5	14.2	117.0	105.1	11.3	96.9	P	
21		DT	12	Lot 490	1st Lift	D4S-01	0.00	108.5	14.2	116.3	104.8	11.0	96.6	P	
22		DT	12	Lot 490	2nd Lift	D4S-01	0.00	108.5	14.2	116.5	105.2	10.7	97.0	P	
23		DT	12	Lot 491	1st Lift	D4S-01	0.00	108.5	14.2	117.2	105.7	10.9	97.4	P	
24		DT	12	Lot 491	2nd Lift	D4S-01	0.00	108.5	14.2	116.3	105.0	10.8	96.8	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/17/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Jessie M Liptrot

Test Method ASTM D6938			
Nuclear Gauge No. 40			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	32683		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
25		DT	12	Lot 492	1st Lift	D4S-01	0.00	108.5	14.2	116.6	104.6	11.5	96.4	P	
26		DT	12	Lot 492	2nd Lift	D4S-01	0.00	108.5	14.2	116.3	104.9	10.9	96.7	P	
27		DT	12	Lot 493	1st Lift	D4S-01	0.00	108.5	14.2	116.6	105.3	10.7	97.1	P	
28		DT	12	Lot 493	2nd Lift	D4S-01	0.00	108.5	14.2	117.0	105.3	11.2	97.1	P	
29		DT	12	Lot 494	1st Lift	D4S-01	0.00	108.5	14.2	116.5	104.8	11.2	96.6	P	
30		DT	12	Lot 494	2nd Lift	D4S-01	0.00	108.5	14.2	117.0	105.6	10.8	97.3	P	
31		DT	12	Lot 495	1st Lift	D4S-01	0.00	108.5	14.2	116.5	105.2	10.7	97.0	P	
32		DT	12	Lot 495	2nd Lift	D4S-01	0.00	108.5	14.2	117.0	106.1	10.3	97.8	P	



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FIELD REPORT

Project No. **35:36135**
Report No. **53**
Day & Date **Thursday 12/18/2025**
Weather **°/**

Project **Rookery Phase 2B**
Location **Green Cove Springs, FL**
Client **Jax Dirtworks, Inc**
Contractor **Jax Dirtworks, Inc**

Remarks

* Travel time and mileage will be billed in accordance with the contract.

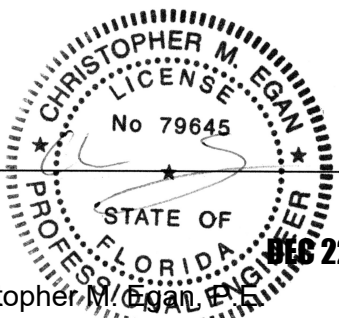
Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

As requested, we arrived on site to perform in-place density testing to determine the percent compaction of soils for pipe backfill in green areas.

Utilizing the Nuclear Density Test Method (ASTM D6938) to check the compaction of soils; test results indicated that the compacted soils, at the areas and depths tested, met the project requirements of 95% of the maximum dry density as obtained in our laboratory using the Modified Proctor Method (ASTM D1557).

These results are based upon selected locations and may not be representative of the soils in areas not tested. Should site conditions change or not be consistent with test results (e.g., pumping, rutting, standing water, etc.), ECS should be contacted immediately.

Thank you for allowing ECS Florida, LLC the opportunity to provide construction materials testing services for this project. Should you have any questions and/or comments, please contact our office.



Christopher M. Egan, P.E.
Assistant Office Manager, Principal

Kathleen Gaal
CMT Senior Project Manager

By Robert Hicks

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/18/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-01				Brown Fine Sand with Silt			ASTM D1557					108.5			14.2
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	12	36" HDPE between MES-244 & HW-244A (Green Area)	SL	D4S-01	0.00	108.5	14.2	115.7	103.7	11.6	95.6	P	SL denotes springline of pipe
2		DT	12	36" HDPE between MES-244 & HW-244A (Green Area)	Top Pipe	D4S-01	0.00	108.5	14.2	117.2	104.2	12.5	96.0	P	
3		DT	12	36" HDPE between MES-244 & HW-244A (Green Area)	1' Above	D4S-01	0.00	108.5	14.2	121.4	105.8	14.7	97.5	P	1' Above denotes 1' above top f pipe
4		DT	12	36" HDPE between MES-244 & HW-244A (Green Area)	2' Above	D4S-01	0.00	108.5	14.2	120.2	106.3	13.1	98.0	P	
5		DT	12	36" HDPE between S-243C & MES-243D (Green Area)	SL	D4S-01	0.00	108.5	14.2	116.4	104.0	11.9	95.9	P	
6		DT	12	36" HDPE between S-243C & MES-243D (Green Area)	Top Pipe	D4S-01	0.00	108.5	14.2	120.6	104.9	15.0	96.7	P	
7		DT	12	36" HDPE between S-243C & MES-243D (Green Area)	1' Above	D4S-01	0.00	108.5	14.2	119.7	105.4	13.6	97.1	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/18/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
8		DT	12	36" HDPE between S-243C & MES-243D (Green Area)	2' Above	D4S-01	0.00	108.5	14.2	119.8	106.1	12.9	97.8	P	
9		DT	12	36" HDPE between S-243C & MES-243D (Green Area)	3' Above	D4S-01	0.00	108.5	14.2	118.8	104.0	14.2	95.9	P	
10		DT	12	36" HDPE between S-243C & MES-243D (Green Area)	4' Above	D4S-01	0.00	108.5	14.2	116.9	104.6	11.8	96.4	P	
11		DT	12	36" HDPE between S-243A & MES-243 (Green Area)	SL	D4S-01	0.00	108.5	14.2	119.4	105.2	13.5	97.0	P	
12		DT	12	36" HDPE between S-243A & MES-243 (Green Area)	Top Pipe	D4S-01	0.00	108.5	14.2	119.7	106.7	12.2	98.3	P	
13		DT	12	36" HDPE between S-243A & MES-243 (Green Area)	1' Above	D4S-01	0.00	108.5	14.2	123.4	107.4	14.9	99.0	P	
14		DT	12	36" HDPE between S-243A & MES-243 (Green Area)	2' Above	D4S-01	0.00	108.5	14.2	118.3	103.8	14.0	95.7	P	
15		DT	12	36" HDPE between S-243B & S-243C (Green Area)	SL	D4S-01	0.00	108.5	14.2	116.1	104.1	11.5	95.9	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/18/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
16		DT	12	36" HDPE between S-243B & S-243C (Green Area)	Top Pipe	D4S-01	0.00	108.5	14.2	119.1	105.8	12.6	97.5	P	
17		DT	12	36" HDPE between S-243B & S-243C (Green Area)	1' Above	D4S-01	0.00	108.5	14.2	121.2	106.2	14.1	97.9	P	
18		DT	12	36" HDPE between S-243B & S-243C (Green Area)	2' Above	D4S-01	0.00	108.5	14.2	121.1	107.0	13.2	98.6	P	
19		DT	12	36" HDPE between S-243B & S-243C (Green Area)	3' Above	D4S-01	0.00	108.5	14.2	116.7	104.3	11.9	96.1	P	
20		DT	12	36" HDPE between S-243B & S-243C (Green Area)	4' Above	D4S-01	0.00	108.5	14.2	119.7	105.9	13.0	97.6	P	
21		DT	12	36" HDPE between S-243B & S-243C (Green Area)	5' Above	D4S-01	0.00	108.5	14.2	122.2	106.6	14.6	98.2	P	
22		DT	12	Around S-243C (Green Area)	1st Lift	D4S-01	0.00	108.5	14.2	117.7	103.5	13.7	95.4	P	
23		DT	12	Around S-243C (Green Area)	2nd Lift	D4S-01	0.00	108.5	14.2	116.9	104.7	11.7	96.5	P	
24		DT	12	Around S-243C (Green Area)	3rd Lift	D4S-01	0.00	108.5	14.2	117.9	105.0	12.3	96.8	P	
25		DT	12	Around S-243C (Green Area)	4th Lift	D4S-01	0.00	108.5	14.2	122.7	106.9	14.8	98.5	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/18/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
26		DT	12	Around S-243C (Green Area)	5th Lift	D4S-01	0.00	108.5	14.2	122.1	107.3	13.8	98.9	P	
27		DT	12	Around S-243C (Green Area)	6th Lift	D4S-01	0.00	108.5	14.2	116.4	104.4	11.5	96.2	P	
28		DT	12	Around S-243C (Green Area)	7th Lift	D4S-01	0.00	108.5	14.2	118.8	105.3	12.8	97.1	P	
29		DT	12	Around S-243C (Green Area)	8th Lift	D4S-01	0.00	108.5	14.2	123.4	107.4	14.9	99.0	P	
30		DT	12	Around S-243C (Green Area)	9th Lift	D4S-01	0.00	108.5	14.2	120.1	106.0	13.3	97.7	P	



ECS Florida, LLC
11554 Davis Creek Court
Jacksonville, FL 32256
T 904.880.0960
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FIELD REPORT

Project **Rookery Phase 2B**
Location **Green Cove Springs, FL**
Client **Jax Dirtworks, Inc**
Contractor **Jax Dirtworks, Inc**

Project No. **35:36135**
Report No. **55**
Day & Date **Friday 12/19/2025**
Weather **63 ° Sunny**

Remarks

* Travel time and mileage will be billed in accordance with the contract.

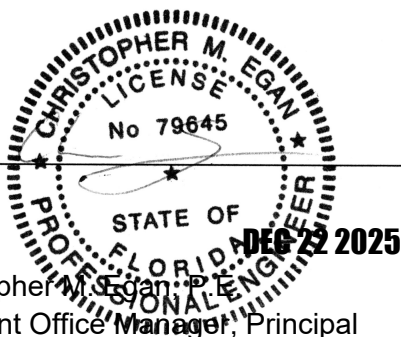
Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

As requested, we arrived on site to perform in-place density testing to determine the percent compaction of soils for mass fill at Lots 496-519.

Utilizing the Nuclear Density Test Method (ASTM D6938) to check the compaction of soils; test results indicated that the compacted soils, at the areas and depths tested, met the project requirements of 95% of the maximum dry density as obtained in our laboratory using the Modified Proctor Method (ASTM D1557).

These results are based upon selected locations and may not be representative of the soils in areas not tested. Should site conditions change or not be consistent with test results (e.g., pumping, rutting, standing water, etc.), ECS should be contacted immediately.

Thank you for allowing ECS Florida, LLC the opportunity to provide construction materials testing services for this project. Should you have any questions and/or comments, please contact our office.



Christopher M. Egan, P.E.
Assistant Office Manager, Principal

Kathleen Gaal
CMT Senior Project Manager

By Jessie M Liptrot

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/19/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Jessie M Liptrot

Test Method ASTM D6938			
Nuclear Gauge No. 40			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	32683		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-01				Brown Fine Sand with Silt			ASTM D1557					108.5			14.2
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	12	Lot 496	1st Lift	D4S-01	0.00	108.5	14.2	118.3	106.3	11.3	98.0	P	
2		DT	12	Lot 496	2nd Lift	D4S-01	0.00	108.5	14.2	118.2	105.7	11.8	97.4	P	
3		DT	12	Lot 497	1st Lift	D4S-01	0.00	108.5	14.2	118.1	105.8	11.6	97.5	P	
4		DT	12	Lot 497	2nd Lift	D4S-01	0.00	108.5	14.2	119.0	106.0	12.3	97.7	P	
5		DT	12	Lot 498	1st Lift	D4S-01	0.00	108.5	14.2	117.9	105.2	12.1	97.0	P	
6		DT	12	Lot 498	2nd Lift	D4S-01	0.00	108.5	14.2	118.6	105.6	12.3	97.3	P	
7		DT	12	Lot 499	1st Lift	D4S-01	0.00	108.5	14.2	118.1	104.9	12.6	96.7	P	
8		DT	12	Lot 499	2nd Lift	D4S-01	0.00	108.5	14.2	117.7	105.0	12.1	96.8	P	
9		DT	12	Lot 500	1st Lift	D4S-01	0.00	108.5	14.2	117.3	104.8	11.9	96.6	P	
10		DT	12	Lot 500	2nd Lift	D4S-01	0.00	108.5	14.2	117.6	105.5	11.5	97.2	P	
11		DT	12	Lot 501	1st Lift	D4S-01	0.00	108.5	14.2	117.4	105.2	11.6	97.0	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/19/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Jessie M Liptrot

Test Method ASTM D6938			
Nuclear Gauge No. 40			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	32683		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
12		DT	12	Lot 501	2nd Lift	D4S-01	0.00	108.5	14.2	117.4	104.8	12.0	96.6	P	
13		DT	12	Lot 502	1st Lift	D4S-01	0.00	108.5	14.2	118.0	105.3	12.1	97.1	P	
14		DT	12	Lot 502	2nd Lift	D4S-01	0.00	108.5	14.2	119.4	106.2	12.4	97.9	P	
15		DT	12	Lot 503	1st Lift	D4S-01	0.00	108.5	14.2	117.6	105.3	11.7	97.1	P	
16		DT	12	Lot 503	2nd Lift	D4S-01	0.00	108.5	14.2	118.2	105.5	12.0	97.2	P	
17		DT	12	Lot 504	1st Lift	D4S-01	0.00	108.5	14.2	118.5	105.4	12.4	97.1	P	
18		DT	12	Lot 504	2nd Lift	D4S-01	0.00	108.5	14.2	118.1	105.1	12.4	96.9	P	
19		DT	12	Lot 505	1st Lift	D4S-01	0.00	108.5	14.2	117.8	104.8	12.4	96.6	P	
20		DT	12	Lot 505	2nd Lift	D4S-01	0.00	108.5	14.2	117.9	105.6	11.7	97.3	P	
21		DT	12	Lot 506	1st Lift	D4S-01	0.00	108.5	14.2	118.1	105.5	11.9	97.2	P	
22		DT	12	Lot 506	2nd Lift	D4S-01	0.00	108.5	14.2	118.8	105.8	12.3	97.5	P	
23		DT	12	Lot 507	1st Lift	D4S-01	0.00	108.5	14.2	117.9	104.7	12.6	96.5	P	
24		DT	12	Lot 507	2nd Lift	D4S-01	0.00	108.5	14.2	118.0	105.2	12.2	97.0	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/19/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Jessie M Liptrot

Test Method ASTM D6938			
Nuclear Gauge No. 40			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	32683		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
25		DT	12	Lot 508	1st Lift	D4S-01	0.00	108.5	14.2	118.6	106.1	11.8	97.8	P	
26		DT	12	Lot 508	2nd Lift	D4S-01	0.00	108.5	14.2	117.9	105.4	11.9	97.1	P	
27		DT	12	Lot 509	1st Lift	D4S-01	0.00	108.5	14.2	119.2	106.2	12.2	97.9	P	
28		DT	12	Lot 509	2nd Lift	D4S-01	0.00	108.5	14.2	119.1	106.0	12.4	97.7	P	
29		DT	12	Lot 510	1st Lift	D4S-01	0.00	108.5	14.2	117.6	104.8	12.2	96.6	P	
30		DT	12	Lot 510	2nd Lift	D4S-01	0.00	108.5	14.2	118.4	105.3	12.4	97.1	P	
31		DT	12	Lot 511	1st Lift	D4S-01	0.00	108.5	14.2	118.7	105.5	12.5	97.2	P	
32		DT	12	Lot 511	2nd Lift	D4S-01	0.00	108.5	14.2	118.3	105.6	12.0	97.3	P	
33		DT	12	Lot 512	1st Lift	D4S-01	0.00	108.5	14.2	116.7	104.8	11.4	96.6	P	
34		DT	12	Lot 512	2nd Lift	D4S-01	0.00	108.5	14.2	117.0	105.4	11.0	97.1	P	
35		DT	12	Lot 513	1st Lift	D4S-01	0.00	108.5	14.2	117.5	105.1	11.8	96.9	P	
36		DT	12	Lot 513	2nd Lift	D4S-01	0.00	108.5	14.2	118.1	105.7	11.7	97.4	P	
37		DT	12	Lot 514	1st Lift	D4S-01	0.00	108.5	14.2	118.9	106.2	12.0	97.9	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/19/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Jessie M Liptrot

Test Method ASTM D6938			
Nuclear Gauge No. 40			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	32683		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
38		DT	12	Lot 514	2nd Lift	D4S-01	0.00	108.5	14.2	118.2	105.6	11.9	97.3	P	
39		DT	12	Lot 515	1st Lift	D4S-01	0.00	108.5	14.2	117.6	104.8	12.2	96.6	P	
40		DT	12	Lot 515	2nd Lift	D4S-01	0.00	108.5	14.2	117.5	105.4	11.5	97.1	P	
41		DT	12	Lot 516	1st Lift	D4S-01	0.00	108.5	14.2	118.5	105.7	12.1	97.4	P	
42		DT	12	Lot 516	2nd Lift	D4S-01	0.00	108.5	14.2	117.7	106.0	11.0	97.7	P	
43		DT	12	Lot 517	1st Lift	D4S-01	0.00	108.5	14.2	117.1	105.2	11.3	97.0	P	
44		DT	12	Lot 517	2nd Lift	D4S-01	0.00	108.5	14.2	118.3	105.8	11.8	97.5	P	
45		DT	12	Lot 518	1st Lift	D4S-01	0.00	108.5	14.2	117.4	105.2	11.6	97.0	P	
46		DT	12	Lot 518	2nd Lift	D4S-01	0.00	108.5	14.2	116.5	104.7	11.3	96.5	P	
47		DT	12	Lot 519	1st Lift	D4S-01	0.00	108.5	14.2	117.8	105.0	12.2	96.8	P	
48		DT	12	Lot 519	2nd Lift	D4S-01	0.00	108.5	14.2	117.6	105.5	11.5	97.2	P	



ECS Florida, LLC
11554 Davis Creek Court
Jacksonville, FL 32256
T 904.880.0960
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FIELD REPORT

Project No. **35:36135**
Report No. **56**
Day & Date **Friday 12/19/2025**
Weather **°/**

Project **Rookery Phase 2B**
Location **Green Cove Springs, FL**
Client **Jax Dirtworks, Inc**
Contractor **Jax Dirtworks, Inc**

Remarks

* Travel time and mileage will be billed in accordance with the contract.

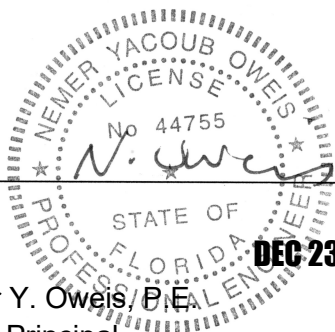
Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

As requested, we arrived on site to perform in-place density testing to determine the percent compaction of soils for mass fill at Lots 579-615.

Utilizing the Nuclear Density Test Method (ASTM D6938) to check the compaction of soils; test results indicated that the compacted soils, at the areas and depths tested, met the project requirements of 95% of the maximum dry density as obtained in our laboratory using the Modified Proctor Method (ASTM D1557).

These results are based upon selected locations and may not be representative of the soils in areas not tested. Should site conditions change or not be consistent with test results (e.g., pumping, rutting, standing water, etc.), ECS should be contacted immediately.

Thank you for allowing ECS Florida, LLC the opportunity to provide construction materials testing services for this project. Should you have any questions and/or comments, please contact our office.



Nemer Y. Oweis, P.E.
Senior Principal

Kathleen Gaal
CMT Senior Project Manager

By Robert Hicks

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/19/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-01				Brown Fine Sand with Silt			ASTM D1557					108.5			14.2
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	12	Lot 615	1st Lift	D4S-01	0.00	108.5	14.2	118.2	106.3	11.2	98.0	P	
2		DT	12	Lot 615	2nd Lift	D4S-01	0.00	108.5	14.2	121.6	107.8	12.8	99.4	P	
3		DT	12	Lot 614	1st Lift	D4S-01	0.00	108.5	14.2	118.5	105.4	12.4	97.1	P	
4		DT	12	Lot 614	2nd Lift	D4S-01	0.00	108.5	14.2	122.0	106.9	14.1	98.5	P	
5		DT	12	Lot 613	1st Lift	D4S-01	0.00	108.5	14.2	121.0	107.2	12.9	98.8	P	
6		DT	12	Lot 613	2nd Lift	D4S-01	0.00	108.5	14.2	117.4	105.1	11.7	96.9	P	
7		DT	12	Lot 612	1st Lift	D4S-01	0.00	108.5	14.2	121.3	108.0	12.3	99.5	P	
8		DT	12	Lot 612	2nd Lift	D4S-01	0.00	108.5	14.2	118.7	106.5	11.5	98.2	P	
9		DT	12	Lot 611	1st Lift	D4S-01	0.00	108.5	14.2	122.0	107.6	13.4	99.2	P	
10		DT	12	Lot 611	2nd Lift	D4S-01	0.00	108.5	14.2	117.5	105.9	11.0	97.6	P	
11		DT	12	Lot 610	1st Lift	D4S-01	0.00	108.5	14.2	120.6	107.1	12.6	98.7	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/19/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
12		DT	12	Lot 610	2nd Lift	D4S-01	0.00	108.5	14.2	119.3	106.6	11.9	98.2	P	
13		DT	12	Lot 609	1st Lift	D4S-01	0.00	108.5	14.2	121.2	106.3	14.0	98.0	P	
14		DT	12	Lot 609	2nd Lift	D4S-01	0.00	108.5	14.2	118.9	106.0	12.2	97.7	P	
15		DT	12	Lot 608	1st Lift	D4S-01	0.00	108.5	14.2	121.8	107.9	12.9	99.4	P	
16		DT	12	Lot 608	2nd Lift	D4S-01	0.00	108.5	14.2	118.8	106.4	11.7	98.1	P	
17		DT	12	Lot 607	1st Lift	D4S-01	0.00	108.5	14.2	122.8	107.4	14.3	99.0	P	
18		DT	12	Lot 607	2nd Lift	D4S-01	0.00	108.5	14.2	119.0	105.7	12.6	97.4	P	
19		DT	12	Lot 606	1st Lift	D4S-01	0.00	108.5	14.2	122.1	108.0	13.1	99.5	P	
20		DT	12	Lot 606	2nd Lift	D4S-01	0.00	108.5	14.2	118.3	106.2	11.4	97.9	P	
21		DT	12	Lot 605	1st Lift	D4S-01	0.00	108.5	14.2	122.2	107.0	14.2	98.6	P	
22		DT	12	Lot 605	2nd Lift	D4S-01	0.00	108.5	14.2	119.1	105.6	12.8	97.3	P	
23		DT	121	Lot 604	1st Lift	D4S-01	0.00	108.5	14.2	120.0	106.7	12.5	98.3	P	
24		DT	12	Lot 604	2nd Lift	D4S-01	0.00	108.5	14.2	116.8	105.2	11.0	97.0	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/19/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
25		DT	12	Lot 603	1st Lift	D4S-01	0.00	108.5	14.2	122.0	107.5	13.5	99.1	P	
26		DT	12	Lot 603	2nd Lift	D4S-01	0.00	108.5	14.2	118.1	106.1	11.3	97.8	P	
27		DT	12	Lot 602	1st Lift	D4S-01	0.00	108.5	14.2	122.5	107.7	13.7	99.3	P	
28		DT	12	Lot 602	2nd Lift	D4S-01	0.00	108.5	14.2	117.8	105.4	11.8	97.1	P	
29		DT	12	Lot 601	1st Lift	D4S-01	0.00	108.5	14.2	121.2	107.2	13.1	98.8	P	
30		DT	12	Lot 601	2nd Lift	D4S-01	0.00	108.5	14.2	119.0	106.7	11.5	98.3	P	
31		DT	12	Lot 600	1st Lift	D4S-01	0.00	108.5	14.2	120.0	107.4	11.7	99.0	P	
32		DT	12	Lot 600	2nd Lift	D4S-01	0.00	108.5	14.2	119.8	106.9	12.1	98.5	P	
33		DT	12	Lot 599	1st Lift	D4S-01	0.00	108.5	14.2	122.6	108.2	13.3	99.7	P	
34		DT	12	Lot 599	2nd Lift	D4S-01	0.00	108.5	14.2	119.9	105.2	14.0	97.0	P	
35		DT	12	Lot 598	1st Lift	D4S-01	0.00	108.5	14.2	120.5	107.7	11.9	99.3	P	
36		DT	12	Lot 598	2nd Lift	D4S-01	0.00	108.5	14.2	119.9	106.3	12.8	98.0	P	
37		DT	12	Lot 597	1st Lift	D4S-01	0.00	108.5	14.2	122.8	108.1	13.6	99.6	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/19/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
38		DT	12	Lot 597	2nd Lift	D4S-01	0.00	108.5	14.2	121.1	106.0	14.2	97.7	P	
39		DT	12	Lot 596	1st Lift	D4S-01	0.00	108.5	14.2	119.6	107.3	11.5	98.9	P	
40		DT	12	Lot 596	2nd Lift	D4S-01	0.00	108.5	14.2	119.8	106.6	12.4	98.2	P	
41		DT	12	Lot 595	1st Lift	D4S-01	0.00	108.5	14.2	121.1	108.3	11.8	99.8	P	
42		DT	12	Lot 595	2nd Lift	D4S-01	0.00	108.5	14.2	119.1	105.4	13.0	97.1	P	
43		DT	12	Lot 594	1st Lift	D4S-01	0.00	108.5	14.2	123.2	108.3	13.8	99.8	P	
44		DT	12	Lot 594	2nd Lift	D4S-01	0.00	108.5	14.2	123.3	107.9	14.3	99.4	P	
45		DT	12	Lot 593	1st Lift	D4S-01	0.00	108.5	14.2	118.5	106.1	11.7	97.8	P	
46		DT	12	Lot 593	2nd Lift	D4S-01	0.00	108.5	14.2	118.7	105.8	12.2	97.5	P	
47		DT	12	Lot 592	1st Lift	D4S-01	0.00	108.5	14.2	122.7	108.1	13.5	99.6	P	
48		DT	12	Lot 592	2nd Lift	D4S-01	0.00	108.5	14.2	122.8	107.6	14.1	99.2	P	
49		DT	12	Lot 591	1st Lift	D4S-01	0.00	108.5	14.2	119.8	107.0	12.0	98.6	P	
50		DT	12	Lot 591	2nd Lift	D4S-01	0.00	108.5	14.2	118.6	105.3	12.6	97.1	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/19/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
51		DT	12	Lot 590	1st Lift	D4S-01	0.00	108.5	14.2	121.2	107.1	13.2	98.7	P	
52		DT	12	Lot 590	2nd Lift	D4S-01	0.00	108.5	14.2	121.7	106.5	14.3	98.2	P	
53		DT	12	Lot 589	1st Lift	D4S-01	0.00	108.5	14.2	121.0	108.2	11.8	99.7	P	
54		DT	12	Lot 589	2nd Lift	D4S-01	0.00	108.5	14.2	118.9	105.7	12.5	97.4	P	
55		DT	12	Lot 588	1st Lift	D4S-01	0.00	108.5	14.2	123.0	108.0	13.9	99.5	P	
56		DT	12	Lot 588	2nd Lift	D4S-01	0.00	108.5	14.2	121.2	106.2	14.1	97.9	P	
57		DT	12	Lot 587	1st Lift	D4S-01	0.00	108.5	14.2	120.5	108.0	11.6	99.5	P	
58		DT	12	Lot 587	2nd Lift	D4S-01	0.00	108.5	14.2	119.7	105.9	13.0	97.6	P	
59		DT	12	Lot 586	1st Lift	D4S-01	0.00	108.5	14.2	121.7	107.4	13.3	99.0	P	
60		DT	12	Lot 586	2nd Lift	D4S-01	0.00	108.5	14.2	122.0	106.8	14.2	98.4	P	
61		DT	12	Lot 585	1st Lift	D4S-01	0.00	108.5	14.2	117.8	105.4	11.8	97.1	P	
62		DT	12	Lot 585	2nd Lift	D4S-01	0.00	108.5	14.2	117.4	104.7	12.1	96.5	P	
63		DT	12	Lot 584	1st Lift	D4S-01	0.00	108.5	14.2	121.8	107.2	13.6	98.8	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/19/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
64		DT	12	Lot 584	2nd Lift	D4S-01	0.00	108.5	14.2	121.0	106.1	14.0	97.8	P	
65		DT	12	Lot 583	1st Lift	D4S-01	0.00	108.5	14.2	118.3	105.9	11.7	97.6	P	
66		DT	12	Lot 583	2nd Lift	D4S-01	0.00	108.5	14.2	118.4	105.0	12.8	96.8	P	
67		DT	12	Lot 582	1st Lift	D4S-01	0.00	108.5	14.2	122.1	107.9	13.2	99.4	P	
68		DT	12	Lot 582	2nd Lift	D4S-01	0.00	108.5	14.2	121.7	106.5	14.3	98.2	P	
69		DT	12	Lot 581	1st Lift	D4S-01	0.00	108.5	14.2	119.5	106.8	11.9	98.4	P	
70		DT	12	Lot 581	2nd Lift	D4S-01	0.00	108.5	14.2	118.3	105.1	12.6	96.9	P	
71		DT	12	Lot 580	1st Lift	D4S-01	0.00	108.5	14.2	122.2	107.3	13.9	98.9	P	
72		DT	12	Lot 580	2nd Lift	D4S-01	0.00	108.5	14.2	119.5	104.7	14.1	96.5	P	
73		DT	12	Lot 579	1st Lift	D4S-01	0.00	108.5	14.2	120.2	107.6	11.7	99.2	P	
74		DT	12	Lot 579	2nd Lift	D4S-01	0.00	108.5	14.2	119.7	106.0	12.9	97.7	P	



ECS Florida, LLC
11554 Davis Creek Court
Jacksonville, FL 32256
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FIELD REPORT

Project **Rookery Phase 2B**
Location **Green Cove Springs, FL**
Client **Jax Dirtworks, Inc**
Contractor **Jax Dirtworks, Inc**

Project No. **35:36135**
Report No. **57**
Day & Date **Monday 12/22/2025**
Weather **°/**

Remarks

* Travel time and mileage will be billed in accordance with the contract.

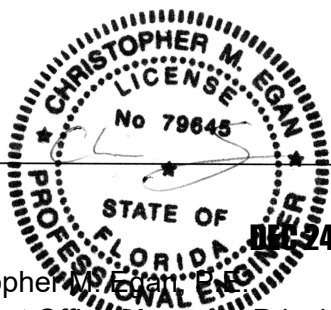
Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

As requested, we arrived on site to perform in-place density testing to determine the percent compaction of soils for pipe backfill in green areas.

Utilizing the Nuclear Density Test Method (ASTM D6938) to check the compaction of soils; test results indicated that the compacted soils, at the areas and depths tested, met the project requirements of 95% of the maximum dry density as obtained in our laboratory using the Modified Proctor Method (ASTM D1557).

These results are based upon selected locations and may not be representative of the soils in areas not tested. Should site conditions change or not be consistent with test results (e.g., pumping, rutting, standing water, etc.), ECS should be contacted immediately.

Thank you for allowing ECS Florida, LLC the opportunity to provide construction materials testing services for this project. Should you have any questions and/or comments, please contact our office.



Christopher M. Egan
Assistant Office Manager, Principal

Chance A. Leonard
Subsidiary Assistant Regional Manager

By Robert Hicks

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/22/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-01				Brown Fine Sand with Silt			ASTM D1557					108.5			14.2
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	12	36" HDPE between S-258A & MES-258	SL	D4S-01	0.00	108.5	14.2	116.0	104.3	11.2	96.1	P	
2		DT	12	36" HDPE between S-258A & MES-258	Top Pipe	D4S-01	0.00	108.5	14.2	117.3	103.8	13.0	95.7	P	
3		DT	12	36" HDPE between S-258A & MES-258	1' Above	D4S-01	0.00	108.5	14.2	116.0	104.6	10.9	96.4	P	
4		DT	12	36" HDPE between S-258A & MES-258	2' Above	D4S-01	0.00	108.5	14.2	117.8	104.1	13.2	95.9	P	
5		DT	12	36" HDPE between S-258A & MES-258	3' Above	D4S-01	0.00	108.5	14.2	117.1	104.9	11.6	96.7	P	
6		DT	12	36" HDPE between S-258A & MES-258	4' Above	D4S-01	0.00	108.5	14.2	118.5	105.5	12.3	97.2	P	
7		DT	12	15" HDPE between S-260 & MES-261	SL	D4S-01	0.00	108.5	14.2	117.7	104.1	13.1	95.9	P	
8		DT	12	15" HDPE between S-260 & MES-261	Top Pipe	D4S-01	0.00	108.5	14.2	118.3	105.7	11.9	97.4	P	
9		DT	12	15" HDPE between S-260 & MES-261	1' Above	D4S-01	0.00	108.5	14.2	119.1	105.7	12.7	97.4	P	
10		DT	12	15" HDPE between S-260 & MES-261	2' Above	D4S-01	0.00	108.5	14.2	118.7	106.2	11.8	97.9	P	
11		DT	12	Around S-260	1st Lift	D4S-01	0.00	108.5	14.2	120.7	105.4	14.5	97.1	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/22/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
12		DT	12	Around S-260	2nd Lift	D4S-01	0.00	108.5	14.2	120.8	105.9	14.1	97.6	P	
13		DT	12	Around S-260	3rd Lift	D4S-01	0.00	108.5	14.2	119.9	106.7	12.4	98.3	P	
14		DT	12	Around S-260	4th Lift	D4S-01	0.00	108.5	14.2	119.8	107.0	12.0	98.6	P	
15		DT	12	Around S-258A	1st Lift	D4S-01	0.00	108.5	14.2	119.8	105.9	13.1	97.6	P	
16		DT	12	Around S-258A	2nd Lift	D4S-01	0.00	108.5	14.2	120.4	107.5	12.0	99.1	P	
17		DT	12	Around S-258A	3rd Lift	D4S-01	0.00	108.5	14.2	118.6	105.2	12.7	97.0	P	
18		DT	12	Around S-258A	4th Lift	D4S-01	0.00	108.5	14.2	120.5	106.3	13.4	98.0	P	
19		DT	12	Around S-258A	5th Lift	D4S-01	0.00	108.5	14.2	117.7	106.0	11.0	97.7	P	
20		DT	12	Around S-258A	6th Lift	D4S-01	0.00	108.5	14.2	120.1	106.7	12.6	98.3	P	
21		DT	12	Around S-258A	7th Lift	D4S-01	0.00	108.5	14.2	119.5	105.5	13.3	97.2	P	



ECS Florida, LLC
11554 Davis Creek Court
Jacksonville, FL 32256
T 904.880.0960
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FIELD REPORT

Project No. **35:36135**
Report No. **58**
Day & Date **Monday 12/22/2025**
Weather **°/**

Project **Rookery Phase 2B**
Location **Green Cove Springs, FL**
Client **Jax Dirtworks, Inc**
Contractor **Jax Dirtworks, Inc**

Remarks

* Travel time and mileage will be billed in accordance with the contract.

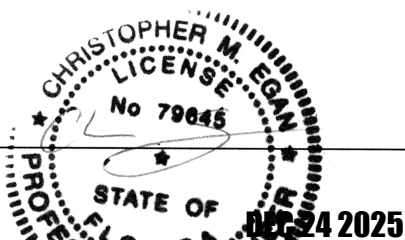
Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

As requested, we arrived on site to perform in-place density testing to determine the percent compaction of soils for mass fill at Lots 564-578.

Utilizing the Nuclear Density Test Method (ASTM D6938) to check the compaction of soils; test results indicated that the compacted soils, at the areas and depths tested, met the project requirements of 95% of the maximum dry density as obtained in our laboratory using the Modified Proctor Method (ASTM D1557).

These results are based upon selected locations and may not be representative of the soils in areas not tested. Should site conditions change or not be consistent with test results (e.g., pumping, rutting, standing water, etc.), ECS should be contacted immediately.

Thank you for allowing ECS Florida, LLC the opportunity to provide construction materials testing services for this project. Should you have any questions and/or comments, please contact our office.



Christopher M. Egan, P.E.
Assistant Office Manager, Principal

Chance A. Leonard
Subsidiary Assistant Regional Manager

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/22/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-01				Brown Fine Sand with Silt			ASTM D1557					108.5			14.2
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	12	Lot 564	1st Lift	D4S-01	0.00	108.5	14.2	121.6	107.0	13.6	98.6	P	
2		DT	12	Lot 564	2nd Lift	D4S-01	0.00	108.5	14.2	117.9	105.2	12.1	97.0	P	
3		DT	12	Lot 565	1st Lift	D4S-01	0.00	108.5	14.2	122.0	107.7	13.3	99.3	P	
4		DT	12	Lot 565	2nd Lift	D4S-01	0.00	108.5	14.2	119.1	105.4	13.0	97.1	P	
5		DT	12	Lot 566	1st Lift	D4S-01	0.00	108.5	14.2	121.3	106.6	13.8	98.2	P	
6		DT	12	Lot 566	2nd Lift	D4S-01	0.00	108.5	14.2	118.2	105.9	11.6	97.6	P	
7		DT	12	Lot 567	1st Lift	D4S-01	0.00	108.5	14.2	120.2	107.1	12.2	98.7	P	
8		DT	12	Lot 567	2nd Lift	D4S-01	0.00	108.5	14.2	119.3	106.6	11.9	98.2	P	
9		DT	12	Lot 568	1st Lift	D4S-01	0.00	108.5	14.2	122.1	107.6	13.5	99.2	P	
10		DT	12	Lot 568	2nd Lift	D4S-01	0.00	108.5	14.2	118.7	105.4	12.6	97.1	P	
11		DT	12	Lot 569	1st Lift	D4S-01	0.00	108.5	14.2	120.8	106.8	13.1	98.4	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/22/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
12		DT	12	Lot 569	2nd Lift	D4S-01	0.00	108.5	14.2	118.2	106.0	11.5	97.7	P	
13		DT	12	Lot 570	1st Lift	D4S-01	0.00	108.5	14.2	121.0	107.2	12.9	98.8	P	
14		DT	12	Lot 570	2nd Lift	D4S-01	0.00	108.5	14.2	118.6	106.1	11.8	97.8	P	
15		DT	12	Lot 571	1st Lift	D4S-01	0.00	108.5	14.2	122.6	107.9	13.6	99.4	P	
16		DT	12	Lot 571	2nd Lift	D4S-01	0.00	108.5	14.2	118.6	105.6	12.3	97.3	P	
17		DT	12	Lot 572	1st Lift	D4S-01	0.00	108.5	14.2	121.7	107.5	13.2	99.1	P	
18		DT	12	Lot 572	2nd Lift	D4S-01	0.00	108.5	14.2	118.4	105.7	12.0	97.4	P	
19		DT	12	Lot 573	1st Lift	D4S-01	0.00	108.5	14.2	120.5	106.9	12.7	98.5	P	
20		DT	12	Lot 573	2nd Lift	D4S-01	0.00	108.5	14.2	117.1	105.3	11.2	97.1	P	
21		DT	12	Lot 574	1st Lift	D4S-01	0.00	108.5	14.2	121.2	107.7	12.5	99.3	P	
22		DT	12	Lot 574	2nd Lift	D4S-01	0.00	108.5	14.2	119.1	106.5	11.8	98.2	P	
23		DT	12	Lot 575	1st Lift	D4S-01	0.00	108.5	14.2	121.1	107.1	13.1	98.7	P	
24		DT	12	Lot 575	2nd Lift	D4S-01	0.00	108.5	14.2	119.7	106.0	12.9	97.7	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/22/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
25		DT	12	Lot 576	1st Lift	D4S-01	0.00	108.5	14.2	121.1	106.8	13.4	98.4	P	
26		DT	12	Lot 576	2nd Lift	D4S-01	0.00	108.5	14.2	117.7	105.4	11.7	97.1	P	
27		DT	12	Lot 577	1st Lift	D4S-01	0.00	108.5	14.2	121.5	108.0	12.5	99.5	P	
28		DT	12	Lot 577	2nd Lift	D4S-01	0.00	108.5	14.2	118.7	106.1	11.9	97.8	P	
29		DT	12	Lot 578	1st Lift	D4S-01	0.00	108.5	14.2	122.1	107.3	13.8	98.9	P	
30		DT	12	Lot 578	2nd Lift	D4S-01	0.00	108.5	14.2	118.7	105.8	12.2	97.5	P	



ECS Florida, LLC
11554 Davis Creek Court
Jacksonville, FL 32256
T 904.880.0960
F 904.880.0970

FIELD REPORT

Project **Rookery Phase 2B**
Location **Green Cove Springs, FL**
Client **Jax Dirtworks, Inc**
Contractor **Jax Dirtworks, Inc**

Project No. **35:36135**
Report No. **59**
Day & Date **Monday 12/22/2025**
Weather **60 °/ Sunny**

Remarks

* Travel time and mileage will be billed in accordance with the contract.

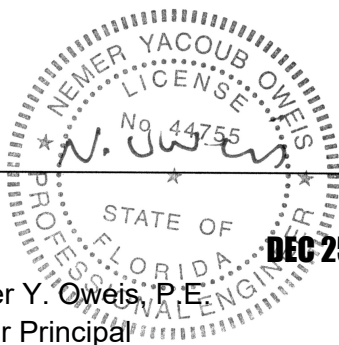
Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

As requested, we arrived on site to perform in-place density testing to determine the percent compaction of soils for mass fill at Lots 520-543.

Utilizing the Nuclear Density Test Method (ASTM D6938) to check the compaction of soils; test results indicated that the compacted soils, at the areas and depths tested, met the project requirements of 95% of the maximum dry density as obtained in our laboratory using the Modified Proctor Method (ASTM D1557).

These results are based upon selected locations and may not be representative of the soils in areas not tested. Should site conditions change or not be consistent with test results (e.g., pumping, rutting, standing water, etc.), ECS should be contacted immediately.

Thank you for allowing ECS Florida, LLC the opportunity to provide construction materials testing services for this project. Should you have any questions and/or comments, please contact our office.



Nemer Y. Oweis, P.E.
Senior Principal

Kathleen Gaal
CMT Senior Project Manager

By Jessie M Liptrot

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/22/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Jessie M Liptrot

Test Method ASTM D6938			
Nuclear Gauge No. 40			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	32683		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-01				Brown Fine Sand with Silt			ASTM D1557					108.5			14.2
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	12	Lot 520	1st Lift	D4S-01	0.00	108.5	14.2	117.5	106.2	10.6	97.9	P	
2		DT	12	Lot 520	2nd Lift	D4S-01	0.00	108.5	14.2	116.5	105.7	10.2	97.4	P	
3		DT	12	Lot 521	1st Lift	D4S-01	0.00	108.5	14.2	118.0	106.5	10.8	98.2	P	
4		DT	12	Lot 521	2nd Lift	D4S-01	0.00	108.5	14.2	117.7	106.0	11.0	97.7	P	
5		DT	12	Lot 522	1st Lift	D4S-01	0.00	108.5	14.2	115.9	104.6	10.8	96.4	P	
6		DT	12	Lot 522	2nd Lift	D4S-01	0.00	108.5	14.2	115.6	104.5	10.6	96.3	P	
7		DT	12	Lot 523	1st Lift	D4S-01	0.00	108.5	14.2	115.9	105.2	10.2	97.0	P	
8		DT	12	Lot 523	2nd Lift	D4S-01	0.00	108.5	14.2	115.9	104.7	10.7	96.5	P	
9		DT	12	Lot 524	1st Lift	D4S-01	0.00	108.5	14.2	117.1	105.8	10.7	97.5	P	
10		DT	12	Lot 524	2nd Lift	D4S-01	0.00	108.5	14.2	118.1	106.3	11.1	98.0	P	
11		DT	12	Lot 525	1st Lift	D4S-01	0.00	108.5	14.2	117.3	106.1	10.6	97.8	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/22/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Jessie M Liptrot

Test Method ASTM D6938			
Nuclear Gauge No. 40			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	32683		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
12		DT	12	Lot 525	2nd Lift	D4S-01	0.00	108.5	14.2	117.4	106.5	10.2	98.2	P	
13		DT	12	Lot 526	1st Lift	D4S-01	0.00	108.5	14.2	116.8	106.0	10.2	97.7	P	
14		DT	12	Lot 526	2nd Lift	D4S-01	0.00	108.5	14.2	116.5	105.2	10.7	97.0	P	
15		DT	12	Lot 527	1st Lift	D4S-01	0.00	108.5	14.2	117.4	105.8	11.0	97.5	P	
16		DT	12	Lot 527	2nd Lift	D4S-01	0.00	108.5	14.2	117.3	105.5	11.2	97.2	P	
17		DT	12	Lot 528	1st Lift	D4S-01	0.00	108.5	14.2	117.5	106.3	10.5	98.0	P	
18		DT	12	Lot 528	2nd Lift	D4S-01	0.00	108.5	14.2	116.4	105.4	10.4	97.1	P	
19		DT	12	Lot 529	1st Lift	D4S-01	0.00	108.5	14.2	117.5	105.9	11.0	97.6	P	
20		DT	12	Lot 529	2nd Lift	D4S-01	0.00	108.5	14.2	116.1	104.8	10.8	96.6	P	
21		DT	12	Lot 530	1st Lift	D4S-01	0.00	108.5	14.2	116.0	104.5	11.0	96.3	P	
22		DT	12	Lot 530	2nd Lift	D4S-01	0.00	108.5	14.2	116.1	105.2	10.4	97.0	P	
23		DT	12	Lot 531	1st Lift	D4S-01	0.00	108.5	14.2	116.4	105.0	10.9	96.8	P	
24		DT	12	Lot 531	2nd Lift	D4S-01	0.00	108.5	14.2	117.6	105.7	11.3	97.4	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/22/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Jessie M Liptrot

Test Method ASTM D6938			
Nuclear Gauge No. 40			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	32683		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
25		DT	12	Lot 532	1st Lift	D4S-01	0.00	108.5	14.2	116.3	105.3	10.4	97.1	P	
26		DT	12	Lot 532	2nd Lift	D4S-01	0.00	108.5	14.2	116.7	105.3	10.8	97.1	P	
27		DT	12	Lot 533	1st Lift	D4S-01	0.00	108.5	14.2	117.9	106.1	11.1	97.8	P	
28		DT	12	Lot 533	2nd Lift	D4S-01	0.00	108.5	14.2	116.7	105.9	10.2	97.6	P	
29		DT	12	Lot 534	1st Lift	D4S-01	0.00	108.5	14.2	117.5	106.6	10.2	98.2	P	
30		DT	12	Lot 534	2nd Lift	D4S-01	0.00	108.5	14.2	118.2	106.2	11.3	97.9	P	
31		DT	12	Lot 535	1st Lift	D4S-01	0.00	108.5	14.2	116.6	105.8	10.2	97.5	P	
32		DT	12	Lot 535	2nd Lift	D4S-01	0.00	108.5	14.2	118.6	106.3	11.6	98.0	P	
33		DT	12	Lot 536	1st Lift	D4S-01	0.00	108.5	14.2	115.2	104.6	10.1	96.4	P	
34		DT	12	Lot 536	2nd Lift	D4S-01	0.00	108.5	14.2	115.9	105.1	10.3	96.9	P	
35		DT	12	Lot 537	1st Lift	D4S-01	0.00	108.5	14.2	115.4	104.8	10.1	96.6	P	
36		DT	12	Lot 537	2nd Lift	D4S-01	0.00	108.5	14.2	115.5	104.8	10.2	96.6	P	
37		DT	12	Lot 538	1st Lift	D4S-01	0.00	108.5	14.2	115.7	104.4	10.8	96.2	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/22/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Jessie M Liptrot

Test Method ASTM D6938			
Nuclear Gauge No. 40			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	32683		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
38		DT	12	Lot 538	2nd Lift	D4S-01	0.00	108.5	14.2	115.8	104.9	10.4	96.7	P	
39		DT	12	Lot 539	1st Lift	D4S-01	0.00	108.5	14.2	115.9	105.2	10.2	97.0	P	
40		DT	12	Lot 539	2nd Lift	D4S-01	0.00	108.5	14.2	116.4	104.8	11.1	96.6	P	
41		DT	12	Lot 540	1st Lift	D4S-01	0.00	108.5	14.2	116.2	105.0	10.7	96.8	P	
42		DT	12	Lot 540	2nd Lift	D4S-01	0.00	108.5	14.2	115.7	104.4	10.8	96.2	P	
43		DT	12	Lot 541	1st Lift	D4S-01	0.00	108.5	14.2	116.0	105.4	10.1	97.1	P	
44		DT	12	Lot 541	2nd Lift	D4S-01	0.00	108.5	14.2	115.9	105.0	10.4	96.8	P	
45		DT	12	Lot 542	1st Lift	D4S-01	0.00	108.5	14.2	115.2	104.5	10.2	96.3	P	
46		DT	12	Lot 542	2nd Lift	D4S-01	0.00	108.5	14.2	115.5	104.8	10.2	96.6	P	
47		DT	12	Lot 543	1st Lift	D4S-01	0.00	108.5	14.2	115.4	104.3	10.6	96.1	P	
48		DT	12	Lot 543	2nd Lift	D4S-01	0.00	108.5	14.2	115.8	105.1	10.2	96.9	P	



ECS Florida, LLC
11554 Davis Creek Court
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FIELD REPORT

Project **Rookery Phase 2B**
Location **Green Cove Springs, FL**
Client **Jax Dirtworks, Inc**
Contractor **Jax Dirtworks, Inc**

Project No. **35:36135**
Report No. **60**
Day & Date **Tuesday 12/23/2025**
Weather **°/**

Remarks

* Travel time and mileage will be billed in accordance with the contract.

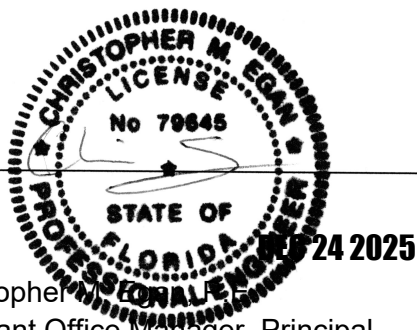
Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

As requested, we arrived on site to perform in-place density testing to determine the percent compaction of soils for mass fill for lots 550-563.

Utilizing the Nuclear Density Test Method (ASTM D6938) to check the compaction of soils; test results indicated that the compacted soils, at the areas and depths tested, met the project requirements of 95% of the maximum dry density as obtained in our laboratory using the Modified Proctor Method (ASTM D1557).

These results are based upon selected locations and may not be representative of the soils in areas not tested. Should site conditions change or not be consistent with test results (e.g., pumping, rutting, standing water, etc.), ECS should be contacted immediately.

Thank you for allowing ECS Florida, LLC the opportunity to provide construction materials testing services for this project. Should you have any questions and/or comments, please contact our office.



Christopher M. Egan
Assistant Office Manager, Principal

Chance A. Leonard
Subsidiary Assistant Regional Manager

By Robert Hicks

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/23/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-01				Brown Fine Sand with Silt			ASTM D1557					108.5			14.2
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	12	Lot 563	1st Lift	D4S-01	0.00	108.5	14.2	119.8	105.4	13.7	97.1	P	
2		DT	12	Lot 563	2nd Lift	D4S-01	0.00	108.5	14.2	116.6	104.7	11.4	96.5	P	
3		DT	12	Lot 562	1st Lift	D4S-01	0.00	108.5	14.2	121.4	107.4	13.0	99.0	P	
4		DT	12	Lot 562	2nd Lift	D4S-01	0.00	108.5	14.2	119.9	106.9	12.2	98.5	P	
5		DT	12	Lot 561	1st Lift	D4S-01	0.00	108.5	14.2	119.9	106.3	12.8	98.0	P	
6		DT	12	Lot 561	2nd Lift	D4S-01	0.00	108.5	14.2	117.6	105.1	11.9	96.9	P	
7		DT	12	Lot 560	1st Lift	D4S-01	0.00	108.5	14.2	122.5	107.8	13.6	99.4	P	
8		DT	12	Lot 560	2nd Lift	D4S-01	0.00	108.5	14.2	118.4	106.5	11.2	98.2	P	
9		DT	12	Lot 559	1st Lift	D4S-01	0.00	108.5	14.2	118.3	104.6	13.1	96.4	P	
10		DT	12	Lot 559	2nd Lift	D4S-01	0.00	108.5	14.2	119.6	105.9	12.9	97.6	P	
11		DT	12	Lot 558	1st Lift	D4S-01	0.00	108.5	14.2	120.5	107.1	12.5	98.7	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/23/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
12		DT	12	Lot 558	2nd Lift	D4S-01	0.00	108.5	14.2	118.3	106.0	11.6	97.7	P	
13		DT	12	Lot 557	1st Lift	D4S-01	0.00	108.5	14.2	122.7	107.7	13.9	99.3	P	
14		DT	12	Lot 557	2nd Lift	D4S-01	0.00	108.5	14.2	117.7	105.9	11.1	97.6	P	
15		DT	12	Lot 556	1st Lift	D4S-01	0.00	108.5	14.2	121.1	106.9	13.3	98.5	P	
16		DT	12	Lot 556	2nd Lift	D4S-01	0.00	108.5	14.2	117.7	105.0	12.1	96.8	P	
17		DT	12	Lot 555	1st Lift	D4S-01	0.00	108.5	14.2	120.6	107.0	12.7	98.6	P	
18		DT	12	Lot 555	2nd Lift	D4S-01	0.00	108.5	14.2	117.8	105.2	12.0	97.0	P	
19		DT	12	Lot 554	1st Lift	D4S-01	0.00	108.5	14.2	121.6	107.1	13.5	98.7	P	
20		DT	12	Lot 554	2nd Lift	D4S-01	0.00	108.5	14.2	116.6	104.7	11.4	96.5	P	
21		DT	12	Lot 553	1st Lift	D4S-01	0.00	108.5	14.2	121.0	106.4	13.7	98.1	P	
22		DT	12	Lot 553	2nd Lift	D4S-01	0.00	108.5	14.2	119.2	105.6	12.9	97.3	P	
23		DT	12	Lot 552	1st Lift	D4S-01	0.00	108.5	14.2	121.0	108.0	12.0	99.5	P	
24		DT	12	Lot 552	2nd Lift	D4S-01	0.00	108.5	14.2	117.9	105.8	11.4	97.5	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/23/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
25		DT	12	Lot 551	1st Lift	D4S-01	0.00	108.5	14.2	120.8	106.7	13.2	98.3	P	
26		DT	12	Lot 551	2nd Lift	D4S-01	0.00	108.5	14.2	117.6	105.3	11.7	97.1	P	
27		DT	12	Lot 550	1st Lift	D4S-01	0.00	108.5	14.2	122.6	107.6	13.9	99.2	P	
28		DT	12	Lot 550	2nd Lift	D4S-01	0.00	108.5	14.2	117.7	104.5	12.6	96.3	P	



ECS Florida, LLC
11554 Davis Creek Court
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FIELD REPORT

Project No. **35:36135**
Report No. **61**
Day & Date **Wednesday 12/24/2025**
Weather **°/**

Project **Rookery Phase 2B**
Location **Green Cove Springs, FL**
Client **Jax Dirtworks, Inc**
Contractor **Jax Dirtworks, Inc**

Remarks

* Travel time and mileage will be billed in accordance with the contract.

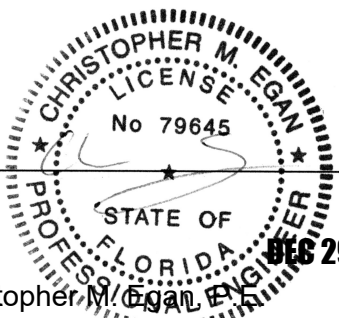
Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

As requested, we arrived on site to perform in-place density testing to determine the percent compaction of soils for pipe backfill in green areas.

Utilizing the Nuclear Density Test Method (ASTM D6938) to check the compaction of soils; test results indicated that the compacted soils, at the areas and depths tested, met the project requirements of 95% of the maximum dry density as obtained in our laboratory using the Modified Proctor Method (ASTM D1557).

These results are based upon selected locations and may not be representative of the soils in areas not tested. Should site conditions change or not be consistent with test results (e.g., pumping, rutting, standing water, etc.), ECS should be contacted immediately.

Thank you for allowing ECS Florida, LLC the opportunity to provide construction materials testing services for this project. Should you have any questions and/or comments, please contact our office.



Christopher M. Egan, P.E.
Assistant Office Manager, Principal

Kathleen Gaal
CMT Senior Project Manager

By Robert Hicks

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/24/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-01				Brown Fine Sand with Silt			ASTM D1557					108.5			14.2
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	12	15" HDPE between S-270 & S-271	SL	D4S-01	0.00	108.5	14.2	119.1	104.4	14.1	96.2	P	SL denotes springline of pipe
2		DT	12	15" HDPE between S-270 & S-271	Top Pipe	D4S-01	0.00	108.5	14.2	120.6	106.8	12.9	98.4	P	
3		DT	12	15" HDPE between S-270 & S-271	1' Above	D4S-01	0.00	108.5	14.2	117.0	105.1	11.3	96.9	P	1' Above denotes 1' above top of pipe
4		DT	12	15" HDPE between S-270 & S-271	2' Above	D4S-01	0.00	108.5	14.2	118.3	107.2	10.4	98.8	P	
5		DT	12	15" HDPE between S-270 & S-271	3' Above	D4S-01	0.00	108.5	14.2	116.3	104.9	10.9	96.7	P	
6		DT	12	15" HDPE between S-246 & S-246A	SL	D4S-01	0.00	108.5	14.2	120.4	106.1	13.5	97.8	P	
7		DT	12	15" HDPE between S-246 & S-246A	Top Pipe	D4S-01	0.00	108.5	14.2	118.5	105.8	12.0	97.5	P	
8		DT	12	15" HDPE between S-246 & S-246A	1' Above	D4S-01	0.00	108.5	14.2	123.3	107.6	14.6	99.2	P	
9		DT	12	15" HDPE between S-246 & S-246A	2' Above	D4S-01	0.00	108.5	14.2	115.9	104.9	10.5	96.7	P	
10		DT	12	15" HDPE between S-246 & S-246A	3' Above	D4S-01	0.00	108.5	14.2	119.4	106.4	12.2	98.1	P	
11		DT	12	36" HDPE between S-258D & MES-258E	SL	D4S-01	0.00	108.5	14.2	116.7	105.0	11.1	96.8	P	



Field Compaction Summary, ASTM D6938

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/24/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
12		DT	12	36" HDPE between S-258D & MES-258E	Top Pipe	D4S-01	0.00	108.5	14.2	122.0	107.2	13.8	98.8	P	
13		DT	12	36" HDPE between S-258D & MES-258E	1' Above	D4S-01	0.00	108.5	14.2	115.5	104.3	10.7	96.1	P	
14		DT	12	36" HDPE between S-258D & MES-258E	2' Above	D4S-01	0.00	108.5	14.2	120.1	107.0	12.2	98.6	P	
15		DT	12	36" HDPE between S-258D & MES-258E	3' Above	D4S-01	0.00	108.5	14.2	117.9	105.5	11.8	97.2	P	
16		DT	12	36" HDPE between S-258D & MES-258E	4' Above	D4S-01	0.00	108.5	14.2	120.7	107.6	12.2	99.2	P	
17		DT	12	36" HDPE between S-258D & MES-258E	5' Above	D4S-01	0.00	108.5	14.2	120.2	104.8	14.7	96.6	P	
18		DT	12	36" HDPE between S-233B & MES-233C	SL	D4S-01	0.00	108.5	14.2	117.8	106.1	11.0	97.8	P	
19		DT	12	36" HDPE between S-233B & MES-233C	Top Pipe	D4S-01	0.00	108.5	14.2	119.0	105.9	12.4	97.6	P	
20		DT	12	36" HDPE between S-233B & MES-233C	1' Above	D4S-01	0.00	108.5	14.2	119.6	107.0	11.8	98.6	P	
21		DT	12	36" HDPE between S-233B & MES-233C	2' Above	D4S-01	0.00	108.5	14.2	119.6	105.6	13.3	97.3	P	
22		DT	12	36" HDPE between S-233B & MES-233C	3' Above	D4S-01	0.00	108.5	14.2	117.6	106.7	10.2	98.3	P	
23		DT	12	48" HDPE between S-262 & S-263	-1' SL	D4S-01	0.00	108.5	14.2	118.7	105.2	12.8	97.0	P	-1' SL denotes 1' below springline
24		DT	12	48" HDPE between S-262 & S-263	SL	D4S-01	0.00	108.5	14.2	119.8	107.8	11.1	99.4	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/24/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
25		DT	12	48" HDPE between S-262 & S-263	+1' SL	D4S-01	0.00	108.5	14.2	120.2	105.1	14.4	96.9	P	+1' SL denotes 1' above springline
26		DT	12	48" HDPE between S-262 & S-263	Top Pipe	D4S-01	0.00	108.5	14.2	117.7	106.4	10.6	98.1	P	
27		DT	12	Around S-270	1st Lift	D4S-01	0.00	108.5	14.2	120.6	106.6	13.1	98.2	P	
28		DT	12	Around S-270	2nd Lift	D4S-01	0.00	108.5	14.2	120.2	107.0	12.3	98.6	P	
29		DT	12	Around S-270	3rd Lift	D4S-01	0.00	108.5	14.2	122.2	106.5	14.7	98.2	P	
30		DT	12	Around S-270	4th Lift	D4S-01	0.00	108.5	14.2	121.2	106.8	13.5	98.4	P	
31		DT	12	Around S-271	1st Lift	D4S-01	0.00	108.5	14.2	120.8	105.7	14.3	97.4	P	
32		DT	12	Around S-271	2nd Lift	D4S-01	0.00	108.5	14.2	118.9	107.2	10.9	98.8	P	
33		DT	12	Around S-271	3rd Lift	D4S-01	0.00	108.5	14.2	118.0	104.4	13.0	96.2	P	
34		DT	12	Around S-271	4th Lift	D4S-01	0.00	108.5	14.2	120.3	106.9	12.5	98.5	P	
35		DT	12	Around S-271	5th Lift	D4S-01	0.00	108.5	14.2	120.3	105.1	14.5	96.9	P	
36		DT	12	Around S-246A	1st Lift	D4S-01	0.00	108.5	14.2	118.5	107.5	10.2	99.1	P	
37		DT	12	Around S-246A	2nd Lift	D4S-01	0.00	108.5	14.2	118.2	104.7	12.9	96.5	P	

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/24/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
38		DT	12	Around S-246A	3rd Lift	D4S-01	0.00	108.5	14.2	118.1	106.1	11.3	97.8	P	
39		DT	12	Around S-246A	4th Lift	D4S-01	0.00	108.5	14.2	120.7	106.0	13.9	97.7	P	
40		DT	12	Around S-233B	1st Lift	D4S-01	0.00	108.5	14.2	118.8	107.3	10.7	98.9	P	
41		DT	12	Around S-233B	2nd Lift	D4S-01	0.00	108.5	14.2	116.8	104.2	12.1	96.0	P	
42		DT	12	Around S-233B	3rd Lift	D4S-01	0.00	108.5	14.2	119.3	106.6	11.9	98.2	P	
43		DT	12	Around S-233B	4th Lift	D4S-01	0.00	108.5	14.2	120.1	105.3	14.1	97.1	P	
44		DT	12	Around S-233B	5th Lift	D4S-01	0.00	108.5	14.2	118.9	107.7	10.4	99.3	P	
45		DT	12	Around S-233B	6th Lift	D4S-01	0.00	108.5	14.2	119.2	104.8	13.7	96.6	P	
46		DT	12	Around S-233B	7th Lift	D4S-01	0.00	108.5	14.2	117.7	106.0	11.0	97.7	P	
47		DT	12	24" HDPE between S-256 & MES-257	SL	D4S-01	0.00	108.5	14.2	118.8	104.3	13.9	96.1	P	
48		DT	12	24" HDPE between S-256 & MES-257	Top Pipe	D4S-01	0.00	108.5	14.2	118.9	105.8	12.4	97.5	P	
49		DT	12	24" HDPE between S-256 & MES-257	1' Above	D4S-01	0.00	108.5	14.2	119.9	106.4	12.7	98.1	P	
50		DT	12	24" HDPE between S-256 & MES-257	2' Above	D4S-01	0.00	108.5	14.2	119.0	105.0	13.3	96.8	P	

**Field Compaction Summary, ASTM D6938****ECS Florida, LLC**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/24/2025

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Robert Hicks

Test Method ASTM D6938			
Nuclear Gauge No. 49			
Make	Instrotek	Density Std	0
Model	3500	Moisture Std	0
Ser. No.	5713		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
51		DT	12	24" HDPE between S-256 & MES-257	3' Above	D4S-01	0.00	108.5	14.2	119.7	106.8	12.1	98.4	P	
52		DT	12	24" HDPE between S-256 & MES-257	4' Above	D4S-01	0.00	108.5	14.2	119.5	105.1	13.7	96.9	P	
53		DT	12	24" HDPE between S-256 & MES-257	5' Above	D4S-01	0.00	108.5	14.2	119.8	106.1	12.9	97.8	P	



ECS Florida, LLC
11554 Davis Creek Court
Jacksonville, FL 32256
T 904.880.0960
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FIELD REPORT

Project **Rookery Phase 2B**
Location **Green Cove Springs, FL**
Client **Jax Dirtworks, Inc**
Contractor **Jax Dirtworks, Inc**

Project No. **35:36135**
Report No. **62**
Day & Date **Friday 12/26/2025**
Weather **68 ° Sunny**

Remarks

* Travel time and mileage will be billed in accordance with the contract.

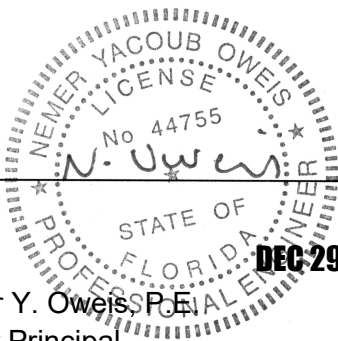
Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

As requested, we arrived on site to perform in-place density testing to determine the percent compaction of soils for mass fill at Lots 544-549.

Utilizing the Nuclear Density Test Method (ASTM D6938) to check the compaction of soils; test results indicated that the compacted soils, at the areas and depths tested, met the project requirements of 95% of the maximum dry density as obtained in our laboratory using the Modified Proctor Method (ASTM D1557).

These results are based upon selected locations and may not be representative of the soils in areas not tested. Should site conditions change or not be consistent with test results (e.g., pumping, rutting, standing water, etc.), ECS should be contacted immediately.

Thank you for allowing ECS Florida, LLC the opportunity to provide construction materials testing services for this project. Should you have any questions and/or comments, please contact our office.



Nemer Y. Oweis, P.E.
Senior Principal

Kathleen Gaal
CMT Senior Project Manager

**Field Compaction Summary, ASTM D6938**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/26/2025

ECS Florida, LLC

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Jessie M Liptrot

Test Method ASTM D6938			
Nuclear Gauge No. 40			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	32683		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-01				Brown Fine Sand with Silt			ASTM D1557					108.5			14.2
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	12	Lot 544	1st Lift	D4S-01	0.00	108.5	14.2	117.7	106.3	10.7	98.0	P	
2		DT	12	Lot 544	2nd Lift	D4S-01	0.00	108.5	14.2	116.8	105.8	10.4	97.5	P	
3		DT	12	Lot 545	1st Lift	D4S-01	0.00	108.5	14.2	116.0	105.2	10.3	97.0	P	
4		DT	12	Lot 545	2nd Lift	D4S-01	0.00	108.5	14.2	116.9	105.5	10.8	97.2	P	
5		DT	12	Lot 546	1st Lift	D4S-01	0.00	108.5	14.2	117.1	105.5	11.0	97.2	P	
6		DT	12	Lot 546	2nd Lift	D4S-01	0.00	108.5	14.2	116.5	104.8	11.2	96.6	P	
7		DT	12	Lot 547	1st Lift	D4S-01	0.00	108.5	14.2	116.1	105.1	10.5	96.9	P	
8		DT	12	Lot 547	2nd Lift	D4S-01	0.00	108.5	14.2	116.5	105.7	10.2	97.4	P	
9		DT	12	Lot 548	1st Lift	D4S-01	0.00	108.5	14.2	116.7	105.2	10.9	97.0	P	
10		DT	12	Lot 548	2nd Lift	D4S-01	0.00	108.5	14.2	116.1	104.8	10.8	96.6	P	
11		DT	12	Lot 549	1st Lift	D4S-01	0.00	108.5	14.2	117.2	106.2	10.4	97.9	P	

**Field Compaction Summary, ASTM D6938****ECS Florida, LLC**

Project No: 35:36135

Project Name: Rookery Phase 2B

Date: 12/26/2025

Client: Jax Dirtworks, Inc

Contractor: Jax Dirtworks, Inc

Technician: Jessie M Liptrot

Test Method ASTM D6938			
Nuclear Gauge No. 40			
Make	Troxler	Density Std	0
Model	3430	Moisture Std	0
Ser. No.	32683		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
12		DT	12	Lot 549	2nd Lift	D4S-01	0.00	108.5	14.2	117.1	105.8	10.7	97.5	P	