Geotechnical and Geosynthetic
Construction Quality Assurance Report
for CCSWDC, Phase I Closure
Sarasota County, Florida

VOLUME 1 of 4

Ardaman & Associates, Inc.

OFFICES

FLORIDA
Orlando, 8008 S. Orange Avenue, Orlando, Florida 32809, Phone (407) 855-3860
Bartow, 1525 Centennial Drive, Bartow, Florida 33830, Phone (863) 533-0858
Cocoa, 1300 N. Cocoa Boulevard, Cocoa, Florida 32922, Phone (321) 632-2503
Fort Myers, 9970 Bavaria Road, Fort Myers, Florida 33913, Phone (239) 768-6600
Miami, 2608 W. 84th Street, Hialeah, Florida, 33016, Phone (305) 825-2683
Port St. Lucie, 460 NW Concourse Place, Unit #1, Port St. Lucie, Florida 34986-2248, Phone (772) 878-0072
Sarasota, 78 Sarasota Center Boulevard, Sarasota, Florida 34240, Phone (941) 922-3526
Tallahassee, 3175 West Tharpe Street, Tallahassee, Florida 32303, Phone (850) 576-6131
Tampa, 3925 Coconut Palm Drive, Suite 115, Tampa, Florida 33619, Phone (813) 620-3389
West Palm Beach, 2511 Westgate Avenue, Suite 10, West Palm Beach, Florida 33409, Phone (561) 687-8200

LOUISIANA
Alexandria, 3609 MacLee Drive, Alexandria, Louisiana 71302, Phone (318) 443-2888
Baton Rouge, 316 Highlandia Drive, Baton Rouge, Louisiana 70810, Phone (225) 752-4790
Monroe, 1122 Hayes Street, Monroe, Louisiana 71292, Phone (318) 387-4103
New Orleans, 1305 Distributors Row, Suite 1, Jefferson, Louisiana 70123, Phone (504) 835-2593
Shreveport, 7222 Greenwood Road, Shreveport, Louisiana 71119, Phone (318) 636-3723

MEMBERS:
A.S.F.E.
American Concrete Institute
American Society for Testing and Materials
Florida Institute of Consulting Engineers

Ardaman & Associates, Inc.

Geotechnical, Environmental and
Materials Consultants

March 22, 2013
Ardaman File No. 09-7375

HDR Engineering, Inc.
5426 Bay Center Drive, Suite 400
Tampa, Florida 33609-3444

Attention: Mr. Richard Siemering

Subject: **Geotechnical and Geosynthetic Construction Quality Assurance Report CCSWDC, Phase I Closure, Sarasota County, Florida**

Dear Mr. Siemering:

As requested and authorized by HDR Engineering, Inc.(HDR), Ardaman & Associates, Inc. (Ardaman) has performed Construction Quality Assurance (CQA) reviews, inspections and testing for the Central County Solid Waste Disposal Complex (CCSWDC) Class I Landfill Closure in Sarasota County, Florida. This report presents the summaries of our field inspections and testing programs for the Phase I Closure, which included construction of earthworks, a top cover liner system and ancillary facilities.

Ardaman provided full-time on-site observations during geosynthetic linier system construction, performed as-need observations of construction of earthwork and ancillary facilities, and performed laboratory testing on samples of soil and geosynthetic products used in construction to assist HDR in verifying compliance with the design and project specifications.

Based on results documented from the CQA program, it is our professional opinion that the earthwork and top cover liner system documented herein were constructed in substantial conformance with the specification requirements. Please contact us if you have any questions or need additional information.

Ardaman appreciates this opportunity to be of service to you and looks forward to maintaining our professional relationship as the project concludes. If you have any questions regarding the contents of this report, please do not hesitate to contact our office.

Very truly yours,
Ardaman & Associates, Inc.
Certificate of Authorization No. 5950

3/22/13

JERRY H. KUEHN
LICENSE
No. 35557
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Jerry H. Kuehn, P.E.
Senior Project Engineer
Florida License No. 35557

Gary H. Schmidt, P.E.
Vice President
Florida License No. 12305

JHK/GHS:jk

78 Sarasota Center Boulevard, Sarasota, Florida 34240 Phone (941) 922-3526 FAX (941) 922-6743
Louisiana: Alexandria, Baton Rouge, Monroe, New Orleans, Shreveport
Florida: Bartow, Cocoa, Fort Myers, Miami, Orlando, Port St. Lucie, Sarasota, Tallahassee, Tampa, W. Palm Beach

TABLE OF CONTENTS

Section	Title	Page
1.0	**INTRODUCTION**	1
1.1	Site Location	1
1.2	Project Description and Components of Landfill Liner System	1
1.3	Construction Quality Assurance Program	2
2.0	**LABORATORY CQA CONFORMANCE TESTING**	2
2.1	Interface Friction between Geosynthetic Components of Liner System	2
2.2	Geomembrane Liners	3
2.3	Destructive Testing of Geomembrane Seam Samples	4
2.4	Geocomposite	5
2.5	Other Geotextiles	5
2.6	Protective Cover Sand	7
2.7	Intermediate Cover and Final Cover	7
2.8	Concrete	7
2.9	Asphalt	7
3.0	**FIELD OBSERVATIONS AND TESTING**	8
3.1	Earthwork	8
	3.1.1 Intermediate Cover, Final Cover and TPO Anchor Trench Backfill	9
	3.1.2 Pipe Trench Backfill	9
	3.1.3 Liner Subgrade Preparation	10
3.2	Geomembrane Liner Installation	10
3.3	Geocomposite Installation	11
3.4	Roadway	11
4.0	**CONCLUSIONS**	11

LIST OF TABLES

Table	Title
1	Construction Quality Assurance Testing Requirements and Project Specifications for Geosynthetic Liner System
2	Direct Shear Test Results for Geosynthetic Material Interfaces
3	Geomembrane Field Seam Destructive Test Summary
4	Summary of Drainage Sand Laboratory Test Results
5	Proctor Density/Moisture Relation and Gradation Test Results
6	In Situ Soil Density Test Results

LIST OF FIGURES

Figure	Title
1	In Situ Soil Density Test Locations – Intermediate Cover, Lift 1
2	In Situ Soil Density Test Locations – Intermediate Cover, Lift 2
3	In Situ Soil Density Test Locations – Intermediate Cover, Lift 3
4	In Situ Soil Density Test Locations – Intermediate Cover, Lifts 4 to 7
5	In Situ Soil Density Test Locations – Final Cover, Lifts 1F and 2F
6	In Situ Soil Density Test Locations – Pipe Trench Backfill
7	In Situ Soil Density Test Locations – Anchor Trench, Lift 1
8	In Situ Soil Density Test Locations – Anchor Trench, Lift 2
9	In Situ Soil Density Test Locations – Anchor Trench, Lift 3
10	In Situ Soil Density Test Locations – Anchor Trench, Lift 4
11	In Situ Soil Density Test Locations – Pavement Subgrade and Base

LIST OF APPENDICES

Vol.	Appendix	Title
2	1	Construction Quality Assurance Test Results for LLDPE Geomembrane
2	2	Construction Quality Assurance Test Results for HDPE Geomembrane
2	3	Construction Quality Assurance Test Results for TPO Geomembrane
2	4	Construction Quality Assurance Test Results for FabriNet UF Geocomposite and Geonet Component
2	5	Construction Quality Assurance Test Results for FabriNet UF Geotextile Component
2	6	Construction Quality Assurance Test Results for PermaNet UL Geocomposite and Geonet Component
2	7	Construction Quality Assurance Test Results for PermaNet UL Geotextile Component
2	8	Construction Quality Assurance Test Results for Other Geotextiles
2	9	Construction Quality Assurance Test Results for Concrete Cylinders
3	10	Construction Quality Assurance Test Results for Asphaltic Concrete
3	11	Construction Quality Assurance Daily Summary Reports
3	12	Geomembrane Installation – Panel Placement Records
3	13	Geomembrane Installation – Repair Logs
4	14	Construction Quality Assurance Lab Reports for Geomembrane Seam Destructive Tests
4	15	Geomembrane Installation - Daily Trial Weld Logs

1.0 INTRODUCTION

The project includes closure of the Phase I Landfill area of the Sarasota County "Central County Solid Waste Disposal Complex" (CCSWDC). Ardaman & Associates, Inc. (Ardaman) provided CQA services to Design Engineer, HDR Engineering, Inc. during construction of the Phase I Closure. The CQA services are required by the permit and the required services are documented in the CQA Plan and the project plans and specifications prepared by HDR.

Briefly, Ardaman's portion of the CQA services included providing full-time inspection during the top cover liner construction, as-need inspection of earthwork and ancillary features, providing CQA laboratory testing services, and documenting and reporting all of the above.

1.1 Site Location

The Phase I landfill area is at the northeast portion of the CCSWDC landfill area, adjacent to the east side of the currently active Phase II landfill area. Almost all of Phase I is within Section 3, Township 38 South, Range 19 East, Sarasota County, Florida. The mailing address of the landfill office is 4000 Knights Trail Road, Nokomis, Florida.

1.2 Project Description and Components of Landfill Liner System

The work covered by this project included construction for the closure the approximately 55-acre Phase I landfill area. This project required filling and grading of the landfill cover soil (intermediate cover), constructing the geomembrane liner system, then covering the geomembranes, where appropriate, with cover soil (final cover). The intermediate cover and final cover fills consisted of sandy soils obtained from borrow areas located to the north to northwest of the CCSWDC site.

Three distinct types of geosynthetic liner systems were used in specific areas, as required by the project plans and specifications. These are the Final Cover Liner System, the Overlay Liner System and the Temporary Final Cover System. These included the following components:

<u>Final Cover Liner System</u>
- Minimum of two feet of protective cover soil and topsoil.
- GSE FabriNet UF geocomposite drainage layer.
- Agru America 40-mil textured LLDPE geomembrane primary liner.
- Minimum of 1 foot of intermediate cover (liner subgrade).

<u>Overlay Liner System</u>
- Minimum of two feet of protective cover/drainage sand.
- GSE PermaNet UL geocomposite drainage layer.
- Agru America 60-mil textured HDPE geomembrane primary liner.
- Minimum of two feet of intermediate cover (liner subgrade).

<u>Temporary Final Liner System</u>
- Firestone 60-mil TPO geomembrane liner.
- Minimum of one foot of intermediate cover (liner subgrade).

Both the FabriNet UF and PermaNet UL are double-sided geocomposites, consisting of an HDPE geonet with a non-woven geotextile heat bonded to both sides (top and bottom).

The project also included the following items, portions of which were either inspected or tested by Ardaman:

- Construction of a new paved access road on the south slope of the Phase I landfill.
- Construction of a stormwater drainage system.

1.3 Construction Quality Assurance Program

The project's design engineer was HDR Engineering, Inc. (HDR), who was retained by Sarasota County to serve as Engineer of Record and provide engineering coordination, review and Construction Quality Assurance (CQA) services during construction. Ardaman & Associates, Inc. (Ardaman) was retained by HDR to provide CQA services for portions of the construction, as described below.

Ardaman performed laboratory conformance testing, and provided field observations and testing services during earthwork construction and liner system placement. All field observations and laboratory testing services were performed in accordance with the requirements stipulated in the technical specifications and CQA Plan prepared by HDR.

Laboratory conformance testing services provided by Ardaman included testing of samples of proposed borrow soils (including intermediate fill and protective final cover), geomembrane liners, geocomposites, geotextiles, concrete and roadway pavement materials. Laboratory tests performed on samples of soil included moisture content, organic content, carbonate content, sieve analyses, permeability tests, Proctor compaction tests, and Limerock Bearing Ratio tests. Laboratory conformance tests were performed on samples of the geomembrane liner, drainage geocomposites and geotextiles.

Ardaman performed full-time inspection services on geosynthetics installation, on every day that these were being installed by the Contractor. Field observations were conducted by from one to five Ardaman field representatives, with the number varying depending on construction activities that day.

On a periodic (as-needed) basis, our field representatives also performed soil, concrete and pavement materials sampling and testing services. This included in-place field density tests and collecting samples for laboratory testing, as required by the project specifications.

2.0 LABORATORY CQA CONFORMANCE TESTING OF GEOSYNTHETICS

The laboratory conformance tests performed by Ardaman and the corresponding ASTM test methods and project specification requirements for the components of the geosynthetic liner system are summarized in **Table 1**. Results of conformance testing are presented in the following sections.

2.1 Interface Friction between Geosynthetic Components of Liner System

The project specifications required components of the liner system to have a minimum peak interface friction angle of 22° or 26˚, depending on the interface, as determined in accordance with ASTM D5321. Prior to the start of liner system construction, Ardaman obtained samples of

the proposed geosynthetic products from Agru America, GSE and Firestone. The intermediate soil cover and final soil cover samples were obtained from the borrow pit area or on-site stockpile by or on-site representative. The drainage sand sample was obtained by the Contractor (Thalle Construction), then delivered to our on-site representative.

Direct shear tests were performed for the seven different interfaces listed in **Table1**. These tests were performed in accordance with the "Central County Solid Waste Disposal Complex, Phase 1 Class 1 Landfill Closure and Landfill Gas Collection System, Construction Quality Assurance Plan" and the project specifications. All interfaces were tested in a water saturated state.

Prior to interface friction testing, we performed a Standard Proctor test (ASTM D698) on the intermediate cover sand and the final cover sand (same material was used for both). This test indicated a maximum dry density of 110.0 pounds per cubic foot (pcf) and an optimum moisture content of 12.6 percent (%). The interface friction test between the drainage composite and the protective cover sand was performed with the sand compacted to a dry density of 99.0 pcf (90% of the Standard Proctor maximum density).

A Standard Proctor test (ASTM D698) was also performed on the drainage sand. This test indicated a maximum dry density of 98.4 pcf and an optimum moisture content of 15.4 %. The interface friction test between the drainage composite and the protective cover sand was performed with the sand compacted to a dry density of 88.7 pcf (90% of the Standard Proctor maximum density).

The interface friction tests were performed by Precision Geosynthetic Laboratories. The test results are summarized in **Table 2** and indicate that the samples tested meet the project specification for the minimum interface friction angle required by the specifications

2.2 Geomembrane Liners

The 40-mil textured LLDPE and the 60-mil textured HDPE geomembranes used on this project were manufactured by Agru America. The 60-mil TPO geomembrane used was manufactured by Firestone. To verify conformance of the geomembranes with the material property requirements stipulated in the project specifications, laboratory CQA tests were performed by Ardaman on samples of the geomembranes. The LLDPE and HDPE samples were obtained by a third-party laboratory, Precision Geosynthetic Laboratories International (Precision) at Agru America's manufacturing plant, prior to shipment of the materials to the project site. The TPO samples were obtained by a representative of Ardaman, after the rolls were delivered to the project site.

The required sampling and CQA testing frequencies for the geomembrane liner are summarized in **Table 1**. The total number of tests performed is also listed in **Table 1**.

The results of the conformance testing for the LLDPE, HDPE and TPO geomembranes are included in **Appendices 1 to 3**, respectively. The results are briefly summarized below:

- All samples of the 40-mil LLDPE geomembrane tested met the requirements for tensile properties, carbon black, sheet thickness, asperity height, sheet density, melt flow index, puncture resistance and tear resistance stipulated in the project specifications.

- All samples of the 60-mil HDPE geomembrane tested met the requirements for tensile properties, carbon black, sheet thickness, asperity height, sheet density, melt flow index, puncture resistance and tear resistance stipulated in the project specifications.

- All samples of the 60-mil TPO geomembrane tested met the requirements for wide-width strip tensile strength, sheet thickness, ozone resistance, puncture resistance, tear resistance (in machine direction, only) and tongue tear resistance stipulated in the project specifications.

2.3 Destructive Testing of Geomembrane Seam Samples

Destructive seam tests were performed by Ardaman on samples of the LLDPE, HDPE and TPO geomembrane field seams. These samples were cut by the geomembrane installer (Hallaton) at locations selected by our field representatives. The project specifications required laboratory determination of the strength of field seams at a frequency of 1 per 500 lineal feet of seam. There were approximately 180,000 feet of seams. A total of 366 seam samples were obtained, which corresponds to a sample frequency of approximately 1 per 492 lineal feet of seam.. The sampling locations are identified on the geomembrane liner record drawings, which we understand will be included as “Attachment I” of HDR’s report.

Results of laboratory destructive tests on the liner seam samples are summarized in **Table 3**. The complete test reports from the laboratory are included in **Appendix 14**.

Hallaton (liner installer) chose to use separate destructive test (DT) test numbers for the LLDPE, HDPE and TPO. Ardaman numbered all samples progressively (i.e. from DT-1 to DT-366), regardless of material. The Ardaman and Hallaton numbers are the same for the LLDPE, but are different for the HDPE and the TPO. In the following discussion, the Ardaman number is given followed by the Hallaton number in parenthesis. For example, DT-127 (DT-9) was the 127th sample taken overall and the 9th HDPE sample. Note that:

- Only the Ardaman numbers are listed in **Table 3.**
- Only the Hallaton numbers are listed on the as-built drawings (HDR report “Attachment I”).
- Both the Ardaman and the Hallaton numbers are listed on the laboratory test reports in **Appendix 14.**

The project specifications relative to seam strength are summarized below:

40-mil LLDPE

Seam Type	Description	Minimum Value* (lb/in)
Fusion	Shear Strength	60
	Peel Strength	50
Extrusion	Shear Strength	60
	Peel Strength	48
* Four out of the five test specimens must meet the specified seam strength and fail as film tear bond (FTB), and the fifth sample must have at least 80 percent of the specified strength.		

60-mil HDPE

Seam Type	Description	Minimum Value* (lb/in)
Fusion	Shear Strength	120
	Peel Strength	91
Extrusion	Shear Strength	120
	Peel Strength	78
* Four out of the five test specimens must meet the specified seam strength and fail as film tear bond (FTB), and the fifth sample must have at least 80 percent of the specified strength.		

60-mil TPO

Seam Type	Description	Minimum Value* (lb/in)
Hot Wedge	Shear Strength	150
	Peel Strength	20
Hot Air	Shear Strength	125
	Peel Strength	20
* Four out of the five test specimens must meet the specified seam strength and the fifth sample must have at least 80 percent of the specified strength. For hot wedge welds, all five specimens must fail as film tear bond (FTB). For hot air welds, the FTB criteria does not apply.		

For LLDPE and HDPE, a non-FTB failure was defined per GRI GM19 using the break codes defined by ASTM D6392. The break code for each specimen is listed in **Table 3**. Note that at the end of **Table 3**, there is a summary of the break code descriptions. For LLDPE and HDPE fusion welds, break codes AD and AD-BRK>25% are considered non-FTB failures. AD-BRK>25% indicates an AD-BRK break mode with more than 25 percent peel. For LLDPE and HDPE extrusion welds, break codes AD1, AD2 and AD-WLD are considered non-FTB failures.

As shown in **Table 3**, all seam samples met the specification requirements, with the following exceptions:

- DT-21 (DT-21), DT-22 (DT-22) and DT-23 (DT-23) were samples of an extrusion weld bonding the new 40-mil LLDPE top (closure) liner to the existing 60-mil HDPE bottom liner, at the east (bottom of slope) ends of liner panels P-1 to P-30. This was the first day of seaming (March 12, 2012) the new LLDPE top liner to the existing HDPE bottom liner. DT-21 (DT-21) failed in field testing (the laboratory sample was not tested), and Hallaton opted to repair the weld from panel P-1 to P-15 (the location of DT-22) by capping. Sample DT-21R1 was subsequently obtained from the repair seam and passed in the laboratory. Sample DT-22 (DT-22) passed testing in the laboratory. DT-23 (DT-23) failed in the laboratory, with one out of five peel specimens having a non-FTB failure, although all five met the minimum strength. Considering the rate of test failures (two out of three) for the first day of this type of seaming, the rest of the first day's seam from panels P-15 to P-30 was repaired. Sample DT-23R1 was subsequently obtained from the repair seam and passed in the laboratory, confirming a suitable repair weld.

- DT-121 (DT-3) was a sample of a fusion weld for 60-mil HDPE liner. One of the five bottom peel specimens had a non-FTB failure, although all five met the minimum strength. DT-121A (DT-3A) and DT-121B (DT-3B) were used to isolate the portion of the seam that failed the criteria and needed to be repaired. The seam was repaired.
- DT-220 (DT-18) was a sample of a hot wedge weld for 60-mil TPO liner. All five peel specimens had a non-FTB failure, although all five met the minimum strength. DT-220A (DT-18A) [this sample is listed as "DT-220 (18) A" in the lab report in **Appendix 14**) was used to isolate the portion of the seam that failed the criteria and needed to be repaired. Only one additional DT was necessary to isolate since DT-220 (DT-18) was near the end of the seam. The seam was repaired.
- DT-327 (DT-106) was a sample of a hot air weld for 60-mil TPO liner. All five shear specimens failed to meet the minimum strength. DT-327A (DT-106A) and DT-327B (DT-106B) were used to isolate the portion of the seam that failed the criteria and needed to be repaired. The seam was repaired.
- DT-331 (DT-110) was a sample of a hot air weld for 60-mil TPO liner. One of the five peel specimens failed to meet the minimum strength. DT-331A (DT-110A) and DT-331B (DT-110B) were used to isolate the portion of the seam that failed the criteria and needed to be repaired. The seam was repaired.

2.4 Geocomposites

The drainage layer above the LLDPE and HDPE liners consist of a double-sided geocomposite. The geocomposite is comprised of a geonet core with geotextile (the specified drainage geotextile) bonded to both sides. The GSE FabriNet UF geocomposite was used above the LLDPE final cover liner and the GSE PermaNet UL geocomposite was used above the HDPE overlay liner.

CQA testing is required on the assembled geocomposite, as well as on the geonet and geotextile components. The required sampling and testing frequencies for these are summarized in **Table 1** and vary for the different tests.

The results of the conformance testing on the geonet component and the assembled geocomposite are included in **Appendices 4 and 6**. The results of the conformance testing on the geotextile component are included in **Appendices 5 and 7**. All samples tested met the requirements stipulated in the project specifications.

2.5 Other Geotextiles

Other geotextiles (other than the drainage geotextile on the geocomposite) included an 8 oz/SY nonwoven drainage geotextile used in underlayment and other applications, and a 16 oz/SY nonwoven drainage geotextile used in the ECG anchor trenches. CQA testing was required on each of these, at the sampling and testing frequencies summarized in **Table 1.**

The conformance tests were performed by Precision Geosynthetics Laboratory and their reports are included in **Appendix 8.** All samples tested met the requirements stipulated in the project specifications.

2.6 Drainage Sand

As stipulated in the project specifications, the 24-inch thick layer of "drainage sand" was used as the protective cover sand on top of overlay liner system. The drainage sand is required to have a saturated hydraulic conductivity greater to or equal to 1.0×10^{-3} centimeters per second (cm/sec) (ASTM D2434), 100 percent passing the ¼-inch sieve, less than 10 percent passing the No. 200 sieve (ASTM D422) and a carbonate content less than 15 percent by weight (ASTM D47373). The project specifications indicated that the drainage sand was to have a gradation test performed at a frequency of one test per 1,500 cubic yards and a permeability test of one test per 3,000 cubic yards.

Ardaman performed the CQA conformance gradation and permeability tests on this material, as well as a limited number of carbonate tests. Samples were collected from stockpiles or in-place after the material had been spread. The permeability samples were remolded in our laboratory and compacted to a density of 95 percent of the standard Proctor maximum dry density, as required by the specifications.

The test results are presented in **Table 4**. Note that sample PS-13 was an initial conformance sample obtained from the proposed borrow pit and was found to have low hydraulic conductivity. A different material was, therefore, sampled (PS-14), tested and found to meet the specifications.

Samples DS-1 to DS-10 were obtained after delivery of the material to the site. On these samples, Ardaman performed a total of 10 grain size distribution analyses, five permeability tests and one carbonate content tests. The permeability test results indicated hydraulic conductivities ranging from 5.5×10^{-3} to 1.5×10^{-2} cm/sec. The CQA testing indicated that the material used in construction complied with project specifications.

2.7 Intermediate Cover and Final Cover

The same material was used for Intermediate Cover (liner subgrade) and Final Cover (liner cover) for the project. This consisted of sandy soil obtained from the borrow pit areas located to the north to northwest of the landfill site. This material was also used as the TPO anchor trench backfill. Field and laboratory testing of this material will be discussed in Section 3.1.1 of this report.

2.8 Concrete

Concrete was placed in a number of areas associated with the project. The concrete placement was observed by an HDR inspector. Ardaman performed the required field tests, prepared concrete compressive strength specimens and tested these for compressive strength in the laboratory. The test reports for concrete are included in **Appendix 9**. All of the tests met project specifications.

2.9 Asphalt

Asphaltic concrete (asphalt) was placed in association with the project. The asphalt placement was observed by an HDR inspector. Ardaman obtained test specimens from the compacted asphalt, tested these for thickness and density in the laboratory. The test reports for asphalt are included in **Appendix 10**.

3.0 FIELD OBSERVATIONS AND TESTING

Ardaman performed laboratory conformance testing, and provided field observations and testing services during earthwork construction and liner system placement. All field observations and laboratory testing services were performed in accordance with the requirements stipulated in the technical specifications and CQA Plan prepared by HDR.

Ardaman performed full-time inspection services on the geosynthetic liner system installation, on every day that these were being installed by the Contractor. Field observations were conducted by from one to five Ardaman field representatives, with the number varying depending on construction activities that day. During geosynthetics installation, Ardaman's field representative prepared daily field reports for the period from March 10 through October 25, 2012. The daily field report summaries are included in **Appendix 11**.

On a periodic (as-needed) basis, our field representatives also performed soil, concrete and pavement materials sampling and testing services. This included in-place field density tests and collecting samples for laboratory testing, as required by the project specifications.

Laboratory conformance testing services provided by Ardaman included testing of samples of proposed borrow soils (including intermediate fill and protective final cover), geomembrane liners, geocomposites, geotextiles, concrete and roadway pavement materials. Laboratory tests performed on samples of soil included moisture content, organic content, carbonate content, sieve analyses, permeability tests, Proctor compaction tests, and Limerock Bearing Ratio tests. Laboratory conformance tests were performed on samples of the geomembrane liner, drainage geocomposites and geotextiles.

Throughout the project duration, project construction meetings were held on site, generally on a weekly basis. Typically, representatives of Ardaman, Thalle Construction, Sarasota County, Hallaton (liner installer) and Veolia (the operator of the Phase I landfill), attended the meetings.

3.1 Earthwork

Earthwork included placement of intermediate cover fill, final cover fill, drainage sand and TPO anchor trench backfill.

The placement of earthwork fill was continuously monitored by an HDR inspector. Ardaman performed the required CQA testing when requested by HDR. These tests included Standard Proctor tests (ASTM D698), sieve analyses (ASTM D422), field density tests (ASTM D2922, D3017 and D2937) and laboratory oven moisture content (ASTM D2216).

The latitude/longitude of the field density test locations were determined by utilizing a handheld GPS. These were subsequently transferred onto **Figures 1 to 11**, which show the locations superimposed onto the HDR design plan. The majority of the compaction tests were performed using the nuclear density gage method (ASTM D2922). At periodic intervals, a drive cylinder test (ASTM D2937) was performed in lieu of the nuclear test, a jar sample was obtained of the fill at the test location and an oven moisture content test (ASTM D2216) was performed on this sample. The correlation between the methods was good.

3.1.1 Intermediate Cover, Final Cover and TPO Anchor Trench Backfill

Intermediate cover fill was placed on top of existing landfill cover soil, before placement of the geomembrane liner. The final cover fill was placed after liner placement, on top of the drainage geocomposite, except that drainage sand was used in the overlay liner area. The intermediate cover, final cover and anchor trench backfill are the same material, excavated from on-site borrow areas, located to the north to northwest of the landfill site area. Soil excavated from the borrow areas that was in excess of the needs for the construction of the Phase I Closure was placed in a stockpile to the south of the Phase II for use as future daily cover soil.

The project specifications required the intermediate cover and final cover fill to be compacted to a dry density equal to or greater than 90 percent (%) of the Standard Proctor maximum dry density (SPMDD), and the TPO anchor trench backfill to a minimum dry density of 102.5 pounds per cubic foot (pcf).

The Proctor (moisture-density relationship) tests and sieve analysis results are presented on **Table 5**. Based upon visual classification procedures and the sieve analysis, these samples were also classified per the Unified Soil Classification System (ASTM D2487). These classifications are also listed in **Table 5**. A total of 47 Proctor/sieve/classification tests were performed on samples of the intermediate cover, final cover and TPO anchor trench backfill material. Four of these samples represent the soils used as backfill in the anchor trenches.

The field density (compaction) test locations are shown on **Figures 1 to 4** for the intermediate cover fill, **Figure 5** for the final cover fill and **Figures 7 to 10** for the anchor trench backfill. The compaction test results are listed in **Table 6**. In the table, a Material Code of “IF” indicates intermediate cover fill and “FF” indicates final cover fill. A Material Code of “AT” indicates the TPO anchor trench backfill. A total (excluding retests) of 435 tests were performed on the intermediate cover, 61 tests on the final cover and 429 tests on TPO anchor trench backfill. All tests met the project specification, with the following exception:

- Test 431 on intermediate cover fill exhibited a density less than 90% of SPMDD. This location was later retested (Test 611) and then met the project specification.
- Test 471 on TPO anchor trench backfill exhibited a dry density less than 102.5 pcf. This test was on one out of the four lifts of backfill tested at this location. The average density of the four lifts was 103.1 pcf, which exceeds 102.5 pcf and was determined to be acceptable.

There were a total of 14 other retests performed on intermediate cover fill, after the repair of areas where the fill had been excessively eroded by rainfall.

3.1.2 Pipe Trench Backfill

Soil used to backfill pipe trenches consisted either of the soil excavated from the trench (if it met the specifications) or the soil from the on-site borrow areas. The locations of field density (compaction) test performed on pipe trench backfill are shown on **Figure 6.**

The compaction test results are listed in **Table 6**. In the table, a Material Code of “BF” pipe trench backfill. A total of 39 tests were performed, primarily at stormwater pipe road crossings. All tests met the project specification.

Test Nos. 34L to 39L were performed where the Phase 2 leachate forcemain crosses beneath the road on the west side of the Phase 2 landfill. These test locations are not shown on **Figure 6**, since this area is well to the west of the Phase 1 construction area.

3.1.3 Liner Subgrade Preparation

Once an area was at finished liner subgrade elevation, it was surveyed. The contractor performed fine grading and rolling until the survey showed that the subgrade was within the acceptable grade tolerances, as determined by HDR. The liner subgrade was inspected by Ardaman and HDR for approval for placement of the liner. Certificates of subgrade surface acceptance were distributed, signed by the necessary parties, and will be included in HDR's certification of construction completion report.

As liner construction progressed, the subgrade was re-worked as necessary to repair any areas that had been disturbed by construction traffic or rains. A final visual inspection of the subgrade was performed by Ardaman personnel in all areas just prior to placement of the of liner.

3.2 Geomembrane Liner Installation

Routine seaming between adjacent geomembrane (LLDPE, HDPE or TPO) liner panels was performed by Hallaton using the double wedge fusion technique. For LLDPE and HDPE, extrusion welding was used for liner repairs and in areas where the fusion welding machine could not be used, such as around a tight space. For TPO, hot air fusion welding was used for liner repairs and in areas where the wedge welding machine could not be used.

All liner seams were tested non-destructively in the field by Hallaton, under the observation of the Ardaman field representatives,. For LLDPE and HDPE, this included air channel test for double wedge fusion welds and vacuum box for extrusion welds. For TPO, his included air-lance testing of both hot-wedge and hot air welds. Seam samples were obtained and tested destructively (i.e., peel and shear tests) in the field by Hallaton and at the Ardaman laboratory to verify compliance with the project specifications.

The Ardaman field representatives observed placement and seaming of the geomembrane liner panels to verify compliance with the project specifications. After placement and seaming, our field representatives observed the liner seams, performed length measurements, and selected the locations of seam samples for use in laboratory destructive testing. In addition, our field representatives observed daily qualifying test welds performed by Hallaton and reviewed the test weld results. After installation, our field representatives observed the liner surface for punctures, tears, or any other defects until the liners were covered.

The liner panel placement logs for the geomembrane (LLDPE, HDPE and TPO) liners, as recorded by Ardaman's field representatives, are included in **Appendix 12**. The geomembrane repair logs are included in **Appendix 13** and the daily trial weld logs in **Appendix 15**. Hallaton maintained the panel seaming and non-destructive testing logs for the geomembrane liner. The laboratory reports for the geomembrane seam destructive tests are included in **Appendix 14** and are summarized in **Table 3**. We understand that the record drawings are included as "Attachment I" of HDR's report.

3.3 Geocomposite Installation

The geocomposites were installed by laying the panels in place and joining adjacent panels together with an overlap of at least 6 inches. Plastic fasteners were used to join adjacent panels, then the upper geotextile panels were heat fusion welded together. After installation, the geocomposites were secured in anchor trenches.

All aspects of geocomposite installations, including geocomposite handling and panel deployment, joining and seaming of adjacent geocomposite panels, and anchorage of geocomposites on top of the perimeter berms, were monitored by the Ardaman field representatives to document compliance with the specification requirements.

3.4 Roadway

The project includes a new access roadway on the south slope of the Phase 1 landfill and a maintenance drive-way on the north side of the Phase 1 landfill. There were also some minor pavement repairs associated with pipe roadway crossings.

The plans called for a stabilized subgrade with a minimum LBR of 40, compacted to at least 98% of Modified Proctor (ASTM D1557) maximum dry density. The plans called for a limerock base with a minimum LBR of 100, compacted to at least 98% of Modified Proctor (ASTM D1557) maximum dry density. The results of the Modified Proctor tests on these materials are included in **Table 5** (samples PS-51 and PS-52).

The results of field density (compaction) tests performed on roadway subgrade and base are included in **Table 6**. In the table, a material code of “SG” indicates pavement subgrade tests and “BA” indicates pavement base. The test locations are on **Figure 10**, except for test No. 1007, which was performed on a pavement repair on the west side of the Phase 2 landfill area, where the Phase 2 leachate force main crosses beneath the roadway. The test results indicate that the subgrade and limerock base were compacted to at least the minimum requirements of the project specifications.

The asphalt placement was observed by an HDR inspector. Subsequently, Ardaman used a diamond core drill and obtained 6-inch diameter cores of the asphalt section for thickness and density testing in the laboratory. The test reports for asphalt are included in **Appendix 10**.

4.0 CONCLUSIONS

This report documents the CQA testing, data review and inspections performed by Ardaman as part of the overall CQA program. Based upon the results documented, it is our professional opinion that the earthwork compaction, geosyntheitic liner system and associated facilities (those documented herein) for the CCSWDC, Phase 1, Class I Landfill Closure were constructed in substantial conformance with the specification requirements. This excludes items specifically inspected or reviewed by the Design Engineer/Engineer of Record, HDR.

TABLES

Table 1

Construction Quality Assurance Testing Requirements and Project Specifications for Geosynthetic Liner System

Description		ASTM	Required Value	CQA Test Frequency (1 test per)		Material Volume	Required No. of CQA Tests	* Actual No. of CQA Tests
Interface Direct Shear for Geosynthetics								
Textured 40 mil LLDPE to intermediate soil cover		D5321	≥26 degrees	1 set of 3 tests		N.A.	3	3
Textured 40-mil LLDPE liner to Fabrinet UF geocomp.		D5321	≥26 degrees	1 set of 3 tests		N.A.	3	3
Textured 60-mil HDPE liner to Permanet UL geocomp.		D5321	≥23 degrees	1 set of 3 tests		N.A.	3	3
Textured 60-mil HDPE liner to intermediate soil cover		D5321	≥23 degrees	1 set of 3 tests		N.A.	3	3
Fabrinet UF geocomposite to final soil cover		D5321	≥26 degrees	1 set of 3 tests		N.A.	3	3
Permanet UL geocomposite to drainage sand		D5321	≥23 degrees	1 set of 3 tests		N.A.	3	3
TPO geomembrane to 16 oz/sy geotextile		D5321	≥22 degrees	1 set of 3 tests		N.A.	3	3
Geomembrane - 40 mil LLDPE liner								
Tensile properties	- break stress	D6693	≥60 ppi	20,000	lb	426,037	22	34
	- break elongation	D6693	≥250%	20,000	lb	426,037	22	34
Field seams		D6392	see specs	500	l.ft.			183
Geomembrane - 60 mil HDPE liner								
Tensile properties	- yeild stress	D6693	≥126 ppi	20,000	lb	67,934	4	5
	- break stress	D6693	≥90 ppi	20,000	lb	67,934	4	5
	- yield elongation	D6693	≥12%	20,000	lb	67,934	4	5
	- break elongation	D6693	≥100%	20,000	lb	67,934	4	5
Field seams		D6392	see specs	500	l.ft.			43
Geomembrane - 60 mil TPO liner								
Field seams	- shear	D751	see specs	500	l.ft.			149
	- peel	D413, NSF 54 mod.	see specs	500	l.ft.			149
Thickness		D751, NSF mod.	≥1.52 mm	100,000	ft2	543,161	6	56
Tensile properties	- break stress	D4885	≥150 ppi	100,000	ft2	543,161	6	15
	- break elongation	D4885	≥30%	100,000	ft2	543,161	6	15
Tear resistance		D5884	≥86 lb	100,000	ft2	543,161	6	13
Tongue Tear resistance **		D751, NSF mod.				543,161	0	13
Puncture resistance		FTM 101c, meth. 2031	≥265 lb	100,000	ft2	543,161	6	13
Ozone resistance		D1149	Pass	100,000	ft2	543,161	6	13
Geotextile - 16 oz. non-woven								
Puncture strength		D4833	≥170 lb	90,000	ft2	361,830	5	5
Grab tensile strength		D4632	≥370 lb	90,000	ft2	361,830	5	5
Grab tensile elongation		D4632	≥50%	90,000	ft2	361,830	5	5
Mass per unit area		D5261	≥16 oz/yd2	90,000	ft2	361,830	5	5
Trapezoidal tear		D4533	≥145 lb	(none)	ft2	361,830	0	1
Water flow rate **		D4491		540,000	ft2 ***	361,830	1	2
AOS **		D4751		540,000	ft2 ***	361,830	1	2
Geotextile - 6 oz. non-woven for FabriNet UF								
Puncture strength		D4833	≥90 lb	90,000	ft2	3,747,500	42	50
Grab tensile strength		D4632	≥170 lb	90,000	ft2	3,747,500	42	50
Mass per unit area		D5261	≥6 oz/yd2	90,000	ft2	3,747,500	42	50
Permittivity		D4491	≥1.5 /sec	540,000	ft2	3,747,500	7	9
Water flow rate		D4491	≥110 gpm/ft2	540,000	ft2	3,747,500	7	9
AOS		D4751	# 70 U.S. sieve	540,000	ft2	3,747,500	7	9
Geotextile - 6 oz. non-woven for PermaNet UL								
Puncture strength		D4833	≥90 lb	90,000	ft2	359,800	4	6
Grab tensile strength		D4632	≥170 lb	90,000	ft2	359,800	4	4
Mass per unit area		D5261	≥6 oz/yd2	90,000	ft2	359,800	4	10
Permittivity		D4491	≥1.5 /sec	540,000	ft2	359,800	1	2
Water flow rate		D4491	≥110 gpm/ft2	540,000	ft2	359,800	1	2
AOS		D4751	#70 U.S. sieve	540,000	ft2	359,800	1	2
Trapezoidal tear **		D4533				359,800		6
Geotextile - 8 oz. non-woven								
Puncture strength		D4833	≥120 lb	90,000	ft2	123,780	2	2
Grab tensile strength		D4632	≥205 lb	90,000	ft2	123,780	2	2
Grab tensile elongation		D4632	≥50%	90,000	ft2	123,780	2	2
Mass per unit area		D5261	≥8 oz/yd2	90,000	ft2	123,780	2	2
Water flow rate **		D4491		540,000	ft2 ***	123,780	1	2
AOS **		D4751		540,000	ft2 ***	123,780	1	2
Geocomposite - Fabrinet UF								
Transmissivity (1,000 psf, i=0.33)		D4716	≥1.3E-3 m^2/sec	540,000	ft2	1,873,750	4	6
Ply adhesion		D7005	≥1 lb/in	50,000	ft2	1,873,750	38	48
Thickness (core only)		D5199	≥300 mil	50,000	ft2	1,873,750	38	48
Geocomposite - Permanet UL								
Transmissivity (20,000 psf, i=0.02)		D4716	≥1.8E-3 m^2/sec	540,000	ft2	179,900	1	1
Ply adhesion		D7005	≥1 lb/in	50,000	ft2	179,900	4	7
Thickness (core only) **		D5199				179,900		7

* Except for interface shear, includes only tests performed on samples from the materials supplied for use in construction.
** Test not specified or no specified value.
*** Frequency from CQA Plan
**** Data provided by HDR Engineering.

Table 2

Direct Shear Test Results for Geosynthetic Material Interfaces

Test No.	Material Configuration	Normal Stress (psf)	Peak Shear Stress (psf)	Secant Angle (˚)
1	Intermediate Cover Soil 40mil LLDPE Microspike	250	220	41
		500	400	39
		1,000	787	38
		Friction Angle (˚) =		**37.2**
2	40mil LLDPE Microspike Fabrinet UF Geocomposite	250	247	45
		500	448	42
		1,000	874	41
		Friction Angle (˚) =		**40.0**
3	Fabrinet UF Geocomposite Final Cover Soil	250	300	50
		500	434	41
		1,000	805	39
		Friction Angle (˚) =		**34.3**
4	60mil HDPE Microspike Permanet UL Geocomposite	5,000	2,726	29
		10,000	4,604	25
		20,000	9,090	24
		Friction Angle (˚) =		**23.2**
5	Intermediate Cover Soil 60mil HDPE Microspike	5,000	2,643	28
		10,000	4,825	26
		20,000	9,772	26
		Friction Angle (˚) =		**25.5**
6	Permanet UL Geocomposite Drainage Sand	5,000	2,889	30
		10,000	5,287	28
		20,000	9,339	25
		Friction Angle (˚) =		**23.1**
7	TPO Geomembrane 16oz NW Geotextile	144	79	29
		288	119	22
		432	209	26
		Friction Angle (˚) =		**24.3**

Notes:
1) Tests performed by Precision Geosynthetic Laboratories (PGL).
2) Friction angles determined (by PGL) from a mathematically best-fit straight line.

Table 3

GEOMEMBRANE FIELD SEAM DESTRUCTIVE TEST SUMMARY

Project: Sarasota CCSWDC, Phase 1 Closure

File No.: 09-7375

Sample	Date Received	Material Type	Weld Type	Weld	Item	Peel Test 1	Peel Test 2	Peel Test 3	Peel Test 4	Peel Test 5	Peel Test Avg.	Shear Test 1	Shear Test 2	Shear Test 3	Shear Test 4	Shear Test 5	Shear Test Avg.	Pass/ Fail
DT-1	03/15/12	40 mil LLDPE	F	T	Load (ppi)	93	91	93	94	96	93	98	96	94	94	94	95	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	92	90	90	87	85	89							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-2	03/14/12	40 mil LLDPE	F	T	Load (ppi)	71	70	74	87	88	78	99	93	94	93	95	95	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	87	76	81	80	84	82							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-3	03/15/12	40 mil LLDPE	F	T	Load (ppi)	95	100	93	97	100	97	107	103	102	101	101	103	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	91	87	88	89	90	89							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-4	03/15/12	40 mil LLDPE	F	T	Load (ppi)	89	98	96	95	91	94	105	100	98	96	97	99	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	95	95	88	93	97	94							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-5	03/14/12	40 mil LLDPE	F	T	Load (ppi)	99	95	90	91	90	93	108	104	103	102	100	103	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	89	87	87	83	85	86							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-6	03/14/12	40 mil LLDPE	F	T	Load (ppi)	97	97	96	99	94	97	99	97	100	98	96	98	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	92	93	93	90	91	92							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-7	03/15/12	40 mil LLDPE	F	T	Load (ppi)	89	88	87	85	91	88	99	99	98	96	96	98	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	93	94	94	93	88	92							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-8	03/14/12	40 mil LLDPE	F	T	Load (ppi)	81	81	82	82	77	81	99	99	100	101	102	100	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	96	94	93	92	91	93							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-9	03/15/12	40 mil LLDPE	F	T	Load (ppi)	107	109	105	104	103	106	107	108	108	108	108	108	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	93	92	94	92	93	93							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-10	03/15/12	40 mil LLDPE	F	T	Load (ppi)	95	88	89	93	81	89	100	99	98	99	97	99	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	91	91	87	78	79	85							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-11	03/14/12	40 mil LLDPE	F	T	Load (ppi)	83	78	74	75	73	77	102	102	100	98	96	100	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	87	87	92	87	86	88							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-12	03/15/12	40 mil LLDPE	F	T	Load (ppi)	104	96	97	97	99	99	102	99	99	98	98	99	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	86	87	81	82	82	84							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-13	03/15/12	40 mil LLDPE	F	T	Load (ppi)	93	93	100	98	98	96	104	103	104	100	99	102	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	102	100	102	98	101	101							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-14	03/15/12	40 mil LLDPE	F	T	Load (ppi)	99	99	94	96	98	97	102	101	100	101	101	101	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	85	84	85	87	89	86							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-15	03/14/12	40 mil LLDPE	F	T	Load (ppi)	83	86	85	84	89	85	104	101	101	101	102	102	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	83	82	83	88	84	84							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-16	03/14/12	40 mil LLDPE	F	T	Load (ppi)	99	98	97	99	99	98	104	103	102	101	101	102	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	83	86	83	82	84	84							
					Mode	SE1	SE1	SE1	SE1	SE1	---							

Table 3

GEOMEMBRANE FIELD SEAM DESTRUCTIVE TEST SUMMARY

Project: Sarasota CCSWDC, Phase 1 Closure

File No.: 09-7375

Sample	Date Received	Material Type	Weld Type	Weld	Item	Peel Test 1	Peel Test 2	Peel Test 3	Peel Test 4	Peel Test 5	Peel Test Avg.	Shear Test 1	Shear Test 2	Shear Test 3	Shear Test 4	Shear Test 5	Shear Test Avg.	Pass/ Fail
DT-17	03/14/12	40 mil LLDPE	F	T	Load (ppi)	98	99	101	99	99	99	101	101	101	101	101	101	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	91	88	89	91	90	90							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-18	03/14/12	40 mil LLDPE	F	T	Load (ppi)	93	90	88	88	86	89	99	101	102	100	99	100	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	84	87	89	92	92	89							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-19	03/14/12	40 mil LLDPE	F	T	Load (ppi)	106	103	100	101	101	102	111	110	109	109	109	110	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	101	97	99	100	100	99							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-20	03/14/12	40 mil LLDPE	F	T	Load (ppi)	102	101	104	104	103	103	109	107	107	107	107	107	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	85	85	83	87	89	86							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-21R1	03/15/12	40 mil LLDPE	E	T	Load (ppi)	74	83	90	96	94	87	94	94	93	95	95	94	P
					Mode	SE3	SE3	BRK2	SE3	BRK2	---	SE2	SE1	SE2	SE2	SE2	---	
				B	Load (ppi)													
					Mode													
DT-22	03/14/12	40 mil LLDPE 60mil HDPE	E	T	Load (ppi)	102	110	88	87	89	95	116	112	111	105	100	109	P
					Mode	SE3	SE3	SE3	SE3	SE3	---	SE2	SE2	SE2	SE2	SE2	---	
				B	Load (ppi)													
					Mode													
DT-23	03/14/12	40 mil LLDPE 60mil HDPE	E	T	Load (ppi)	85	89	99	82	75	86	89	96	92	102	98	95	Fl
					Mode	AD	AD-Brk	BRK2	SE3	SE3	---	SE2	SE2	SE2	SE2	SE2	---	
					Peel (%)	100	10	---	---	---	---	---	---	---	---	---	---	
				B	Load (ppi)													
					Mode													
DT-23R1	03/21/12	40 mil LLDPE 60mil HDPE	E	T	Load (ppi)	92	92	92	93	93	92	97	107	98	94	97	99	P
					Mode	BRK2	BRK2	BRK2	BRK2	SE3	---	SE2	SE2	SE2	BRK2	SE2	---	
				B	Load (ppi)													
					Mode													
DT-24	03/14/12	40 mil LLDPE	F	T	Load (ppi)	94	101	102	103	103	101	109	109	109	108	109	109	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	96	94	89	95	98	94							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-25	03/14/12	40 mil LLDPE	F	T	Load (ppi)	92	90	101	102	97	96	109	109	109	108	108	109	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	93	96	96	97	94	95							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-26	03/15/12	40 mil LLDPE	F	T	Load (ppi)	101	104	100	111	98	103	108	106	107	109	109	108	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	90	90	85	92	90	89							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-27	03/15/12	40 mil LLDPE	F	T	Load (ppi)	101	101	102	101	101	101	110	109	109	110	110	110	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	82	89	90	89	83	87							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-28	03/15/12	40 mil LLDPE	F	T	Load (ppi)	96	97	92	84	88	91	100	91	100	97	96	97	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	BRK	SE1	SE1	SE1	---	
				B	Load (ppi)	83	84	85	84	84	84							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-29	03/15/12	40 mil LLDPE	F	T	Load (ppi)	98	97	96	86	90	93	106	106	104	104	106	105	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	85	85	80	78	80	82							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-30	03/15/12	40 mil LLDPE	F	T	Load (ppi)	90	96	97	98	96	95	107	105	104	103	104	105	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	82	79	83	80	82	81							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-31	03/15/12	40 mil LLDPE	F	T	Load (ppi)	101	100	100	96	98	99	107	106	105	105	105	106	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	86	92	87	92	89	89							
					Mode	SE1	SE1	SE1	SE1	SE1	---							

Table 3

GEOMEMBRANE FIELD SEAM DESTRUCTIVE TEST SUMMARY

Project: Sarasota CCSWDC, Phase 1 Closure

File No.: 09-7375

Sample	Date Received	Material Type	Weld Type	Weld	Item	Peel Test 1	Peel Test 2	Peel Test 3	Peel Test 4	Peel Test 5	Peel Test Avg.	Shear Test 1	Shear Test 2	Shear Test 3	Shear Test 4	Shear Test 5	Shear Test Avg.	Pass/ Fail
DT-32	03/15/12	40 mil LLDPE	E	T	Load (ppi)	81	100	98	96	83	92	96	94	89	88	99	93	P
					Mode	SE3	SE3	SE3	SE3	SE3	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)													
					Mode													
DT-33	03/15/12	40 mil LLDPE	E	T	Load (ppi)	81	93	88	90	91	89	89	90	96	91	91	91	P
					Mode	BRK2	SE3	BRK2	BRK2	SE3	---	SE2	SE2	SE1	SE2	SE2	---	
				B	Load (ppi)													
					Mode													
DT-34	03/15/12	40 mil LLDPE	E	T	Load (ppi)	100	83	82	80	69	83	82	99	99	84	93	91	P
					Mode	SE3	SE3	SE3	SE3	SE3	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)													
					Mode													
DT-35	03/15/12	40 mil LLDPE 60mil HDPE	E	T	Load (ppi)	86	86	101	102	102	95	100	110	106	108	102	105	P
					Mode	SE3	SE3	BRK2	BRK2	BRK2	---	SE2	SE2	SE2	SE2	SE2	---	
				B	Load (ppi)													
					Mode													
DT-36	03/16/12	40 mil LLDPE	F	T	Load (ppi)	105	104	107	101	106	105	113	111	109	108	109	110	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	99	92	95	89	82	91							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-37	03/16/12	40 mil LLDPE	F	T	Load (ppi)	98	80	86	88	88	88	108	108	107	105	106	107	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	88	90	90	95	94	91							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-38	03/16/12	40 mil LLDPE	F	T	Load (ppi)	94	89	88	81	93	89	110	109	107	107	105	108	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	86	86	86	89	89	87							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-39	03/16/12	40 mil LLDPE	F	T	Load (ppi)	101	94	96	103	99	99	110	110	111	114	113	112	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	DNF	SE1	DNF	---	
				B	Load (ppi)	76	76	82	80	80	79							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-40	03/16/12	40 mil LLDPE	F	T	Load (ppi)	88	87	95	86	87	89	95	95	92	98	95	95	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	90	89	89	89	83	88							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-41	03/16/12	40 mil LLDPE	F	T	Load (ppi)	88	87	87	86	88	87	96	99	99	96	94	97	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	DNF	SE1	---	
				B	Load (ppi)	89	87	79	84	82	84							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-42	03/16/12	40 mil LLDPE	F	T	Load (ppi)	100	99	98	99	96	98	104	102	102	102	101	102	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	95	90	94	89	88	91							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-43	03/16/12	40 mil LLDPE	F	T	Load (ppi)	90	88	89	89	93	90	110	107	107	108	108	108	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	86	85	87	88	89	87							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-44	03/16/12	40 mil LLDPE	F	T	Load (ppi)	84	89	92	98	94	91	109	110	110	109	106	109	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	86	97	93	95	92	93							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-45	03/19/12	40 mil LLDPE	F	T	Load (ppi)	89	90	91	89	89	90	102	101	100	100	101	101	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	85	85	85	85	85	85							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-46	03/19/12	40 mil LLDPE	F	T	Load (ppi)	97	93	90	87	98	93	103	102	103	102	103	103	P
					Mode	SE1	SE1	SE1	AD-BRK	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
					Peel (%)	---	---	---	5	---	---	---	---	---	---	---	---	
				B	Load (ppi)	79	84	89	83	84	84							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-47	03/16/12	40 mil LLDPE	F	T	Load (ppi)	97	88	100	102	99	97	110	108	109	109	110	109	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	87	85	87	88	86	87							
					Mode	SE1	SE1	SE1	SE1	SE1	---							

Table 3

GEOMEMBRANE FIELD SEAM DESTRUCTIVE TEST SUMMARY

Project: Sarasota CCSWDC, Phase 1 Closure

File No.: 09-7375

Sample	Date Received	Material Type	Weld Type	Weld	Item	Peel Test 1	Peel Test 2	Peel Test 3	Peel Test 4	Peel Test 5	Peel Test Avg.	Shear Test 1	Shear Test 2	Shear Test 3	Shear Test 4	Shear Test 5	Shear Test Avg.	Pass/ Fail
DT-48	03/16/12	40 mil LLDPE	F	T	Load (ppi)	93	95	97	88	86	92	109	107	106	106	107	107	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	98	95	85	92	88	92							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-49	03/19/12	40 mil LLDPE	F	T	Load (ppi)	92	95	94	99	90	94	101	107	105	110	108	106	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	DNF	---	
				B	Load (ppi)	85	81	81	83	85	83							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-50	03/19/12	40 mil LLDPE	F	T	Load (ppi)	95	101	95	101	94	97	102	103	103	104	102	103	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	DNF	DNF	SE1	SE1	SE1	---	
				B	Load (ppi)	82	80	81	83	80	81							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-51	03/19/12	40 mil LLDPE	F	T	Load (ppi)	89	90	86	88	90	89	103	102	104	104	105	104	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	81	82	82	82	84	82							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-52	03/19/12	40 mil LLDPE	F	T	Load (ppi)	94	96	94	97	98	96	96	95	95	95	101	96	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	DNF	SE1	DNF	SE1	---	
				B	Load (ppi)	85	86	91	80	86	86							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-53	03/19/12	40 mil LLDPE	F	T	Load (ppi)	84	83	85	82	80	83	103	103	104	104	104	104	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	89	86	87	85	88	87							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-54	03/16/12	40 mil LLDPE 60mil HDPE	F	T	Load (ppi)	89	85	101	94	107	95	106	104	107	110	106	107	P
					Mode	SE3	SE3	SE3	SE3	SE3	---	SE2	SE2	SE2	SE2	SE2	---	
				B	Load (ppi)													
					Mode													
DT-55	03/21/12	40 mil LLDPE	E	T	Load (ppi)	109	97	91	97	105	100	115	121	118	124	111	118	P
					Mode	SE3	SE3	SE3	SE3	SE3	---	SE2	SE2	SE1	SE1	SE2	---	
				B	Load (ppi)													
					Mode													
DT-56	03/19/12	40 mil LLDPE	F	T	Load (ppi)	83	83	82	81	79	82	102	98	97	99	99	99	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	84	86	76	77	78	80							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-57	03/19/12	40 mil LLDPE	F	T	Load (ppi)	96	95	95	92	93	94	99	100	100	99	99	99	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	DNF	---	
				B	Load (ppi)	89	89	87	87	85	87							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-58	03/19/12	40 mil LLDPE	F	T	Load (ppi)	100	99	99	100	99	99	107	107	107	106	104	106	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	87	85	94	94	93	91							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-59	03/19/12	40 mil LLDPE	F	T	Load (ppi)	98	100	103	97	99	99	106	106	108	107	105	106	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	84	86	86	85	84	85							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-60	03/21/12	40 mil LLDPE	F	T	Load (ppi)	95	100	100	86	99	96	104	103	103	103	103	103	P
					Mode	SE1	SE1	SE1	SE1	BRK	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	93	91	91	88	92	91							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-61	03/21/12	40 mil LLDPE	F	T	Load (ppi)	91	90	97	95	95	94	105	103	103	101	101	103	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	DNF	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	96	94	92	90	94	93							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-62	03/21/12	40 mil LLDPE	F	T	Load (ppi)	99	99	93	88	92	94	106	105	104	103	104	104	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	DNF	DNF	SE1	DNF	SE1	---	
				B	Load (ppi)	88	96	83	83	83	87							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-63	03/21/12	40 mil LLDPE	F	T	Load (ppi)	92	94	89	85	78	88	99	102	102	101	99	101	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	91	85	83	85	89	87							
					Mode	SE1	SE1	SE1	SE1	SE1	---							

Table 3

GEOMEMBRANE FIELD SEAM DESTRUCTIVE TEST SUMMARY

Project: Sarasota CCSWDC, Phase 1 Closure

File No.: 09-7375

Sample	Date Received	Material Type	Weld Type	Weld	Item	Peel Test 1	Peel Test 2	Peel Test 3	Peel Test 4	Peel Test 5	Peel Test Avg.	Shear Test 1	Shear Test 2	Shear Test 3	Shear Test 4	Shear Test 5	Shear Test Avg.	Pass/ Fail
DT-64	03/21/12	40 mil LLDPE	F	T	Load (ppi)	93	89	94	99	94	94	113	114	112	111	112	112	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	102	99	86	91	87	93							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-65	03/21/12	40 mil LLDPE	E	T	Load (ppi)	122	120	110	107	95	111	129	129	119	112	100	118	P
					Mode	BRK2	BRK2	BRK2	BRK2	BRK2	---	SE2	SE2	SE2	SE2	SE2	---	
				B	Load (ppi)													
					Mode													
DT-66	03/21/12	40 mil LLDPE 60mil HDPE	F	T	Load (ppi)	92	91	91	92	94	92	105	104	106	107	109	106	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	83	81	85	86	87	84							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-67	03/21/12	40 mil LLDPE	F	T	Load (ppi)	93	97	96	95	96	95	106	106	105	103	103	105	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	85	82	80	80	80	81							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-68	03/21/12	40 mil LLDPE	F	T	Load (ppi)	98	94	100	100	98	98	104	105	107	108	107	106	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	81	83	83	86	86	84							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-69	03/21/12	40 mil LLDPE	F	T	Load (ppi)	82	85	84	86	86	85	102	102	101	101	100	101	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	84	83	81	90	90	86							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-70	03/21/12	40 mil LLDPE	F	T	Load (ppi)	95	96	86	92	85	91	106	106	105	103	102	104	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	84	85	85	85	82	84							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-71	03/21/12	40 mil LLDPE	F	T	Load (ppi)	92	89	89	95	93	92	100	99	101	101	102	101	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	77	79	86	85	84	82							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-72	03/21/12	40 mil LLDPE	F	T	Load (ppi)	95	93	92	85	96	92	103	104	103	101	101	102	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	82	83	81	81	81	82							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-73	03/21/12	40 mil LLDPE	F	T	Load (ppi)	91	89	87	91	90	90	102	99	98	97	95	98	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	91	85	87	88	90	88							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-74	03/21/12	40 mil LLDPE	F	T	Load (ppi)	91	81	89	81	85	85	103	103	103	102	101	102	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	82	83	88	87	78	84							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-75	03/21/12	40 mil LLDPE	F	T	Load (ppi)	100	94	97	81	101	95	98	97	96	96	96	97	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	89	88	82	95	97	90							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-76	03/21/12	40 mil LLDPE	F	T	Load (ppi)	73	74	85	78	80	78	99	96	98	97	97	97	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	DNF	DNF	DNF	SE1	SE1	---	
				B	Load (ppi)	92	101	90	92	88	93							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-77	03/21/12	40 mil LLDPE	F	T	Load (ppi)	101	95	103	105	105	102	106	106	109	107	111	108	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	DNF	SE1	DNF	SE1	---	
				B	Load (ppi)	98	96	102	101	99	99							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-78	03/21/12	40 mil LLDPE	F	T	Load (ppi)	96	96	93	99	96	96	109	107	109	109	108	108	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	93	94	103	96	93	96							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-79	03/21/12	40 mil LLDPE	F	T	Load (ppi)	93	85	91	88	83	88	102	99	101	100	103	101	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	DNF	SE1	SE1	DNF	SE1	---	
				B	Load (ppi)	91	90	82	88	83	87							
					Mode	SE1	SE1	SE1	SE1	SE1	---							

Table 3

GEOMEMBRANE FIELD SEAM DESTRUCTIVE TEST SUMMARY

Project: Sarasota CCSWDC, Phase 1 Closure

File No.: 09-7375

Sample	Date Received	Material Type	Weld Type	Weld	Item	Peel Test 1	Peel Test 2	Peel Test 3	Peel Test 4	Peel Test 5	Peel Test Avg.	Shear Test 1	Shear Test 2	Shear Test 3	Shear Test 4	Shear Test 5	Shear Test Avg.	Pass/ Fail
DT-80	03/21/12	40 mil LLDPE	F	T	Load (ppi)	96	90	97	97	94	95	109	104	103	103	104	105	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	82	80	81	82	83	82							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-81	03/21/12	40 mil LLDPE	F	T	Load (ppi)	90	93	94	94	94	93	104	101	101	98	99	101	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	85	79	84	80	81	82							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-82	03/21/12	40 mil LLDPE	F	T	Load (ppi)	91	101	90	83	96	92	111	108	107	104	106	107	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	101	92	95	85	86	92							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-83	03/21/12	40 mil LLDPE	F	T	Load (ppi)	101	110	98	95	95	100	104	103	103	104	101	103	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	82	84	89	83	87	85							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-84	03/21/12	40 mil LLDPE	F	T	Load (ppi)	98	94	98	93	91	95	104	102	102	102	103	103	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	DNF	BRK	SE1	SE1	SE1	---	
				B	Load (ppi)	94	84	98	97	91	93							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-85	03/22/12	40 mil LLDPE	F	T	Load (ppi)	91	88	87	90	90	89	105	103	102	101	99	102	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	86	84	82	81	77	82							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-86	03/21/12	40 mil LLDPE	F	T	Load (ppi)	99	99	96	98	99	98	106	103	103	102	102	103	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	87	91	83	84	85	86							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-87	03/21/12	40 mil LLDPE	F	T	Load (ppi)	95	94	96	91	97	95	106	103	103	102	103	103	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	94	94	93	89	88	92							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-88	03/21/12	40 mil LLDPE	F	T	Load (ppi)	107	105	104	103	106	105	109	107	109	107	108	108	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	DNF	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	99	94	89	98	99	96							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-89	03/21/12	40 mil LLDPE	F	T	Load (ppi)	106	109	106	105	106	106	113	112	113	113	111	112	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	BRK	BRK	SE1	DNF	---	
				B	Load (ppi)	101	101	99	95	87	97							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-90	03/21/12	40 mil LLDPE	F	T	Load (ppi)	96	95	95	95	93	95	111	110	109	108	108	109	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	102	97	101	100	96	99							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-91	03/21/12	40 mil LLDPE		T	Load (ppi)	100	96	98	96	93	97	109	108	108	107	108	108	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	92	91	90	90	91	91							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-92	03/22/12	40 mil LLDPE	F	T	Load (ppi)	97	95	93	95	91	94	110	111	110	110	109	110	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	86	92	95	92	93	92							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-93	03/21/12	40 mil LLDPE	F	T	Load (ppi)	99	98	89	98	95	96	109	108	108	108	107	108	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	88	87	84	84	82	85							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-94	03/22/12	40 mil LLDPE	F	T	Load (ppi)	91	92	92	89	89	91	109	102	107	106	107	106	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	86	90	88	89	89	88							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-95	03/21/12	40 mil LLDPE	F	T	Load (ppi)	106	103	104	104	102	104	113	111	112	111	110	111	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	94	93	90	90	89	91							
					Mode	SE1	SE1	SE1	SE1	SE1	---							

Table 3

GEOMEMBRANE FIELD SEAM DESTRUCTIVE TEST SUMMARY

Project: Sarasota CCSWDC, Phase 1 Closure

File No.: 09-7375

Sample	Date Received	Material Type	Weld Type	Weld	Item	Peel Test 1	2	3	4	5	Avg.	Shear Test 1	2	3	4	5	Avg.	Pass/ Fail
DT-96	03/21/12	40 mil LLDPE	F	T	Load (ppi)	101	100	97	101	98	99	112	111	110	109	108	110	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	90	89	87	90	89	89							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-97	03/21/12	40 mil LLDPE	F	T	Load (ppi)	101	96	99	101	105	100	111	107	107	107	107	108	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	84	85	90	81	83	85							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-98	03/21/12	40 mil LLDPE	F	T	Load (ppi)	93	95	95	91	91	93	111	110	111	112	110	111	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	101	104	104	103	104	103							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-99	03/21/12	40 mil LLDPE	F	T	Load (ppi)	89	93	96	93	95	93	109	109	109	109	107	109	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	DNF	SE1	---	
				B	Load (ppi)	100	97	103	91	94	97							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-100	03/21/12	40 mil LLDPE	F	T	Load (ppi)	103	102	104	103	102	103	111	110	109	110	108	110	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	89	90	90	89	89	89							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-101	03/21/12	40 mil LLDPE	F	T	Load (ppi)	95	101	101	100	92	98	110	108	108	107	106	108	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	DNF	---	
				B	Load (ppi)	100	101	100	103	99	101							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-102	03/21/12	40 mil LLDPE	F	T	Load (ppi)	101	94	100	92	89	95	107	106	108	107	107	107	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	86	84	98	98	96	92							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-103	03/21/12	40 mil LLDPE	F	T	Load (ppi)	98	99	99	100	94	98	107	105	106	105	106	106	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	90	89	87	87	86	88							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-104	03/22/12	40 mil LLDPE	F	T	Load (ppi)	101	102	102	104	103	102	108	107	108	108	109	108	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	90	88	86	86	86	87							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-105	03/22/12	40 mil LLDPE	F	T	Load (ppi)	109	109	108	108	107	108	111	111	112	114	112	112	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	96	100	98	97	94	97							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-106	03/22/12	40 mil LLDPE	F	T	Load (ppi)	86	85	86	88	93	88	105	106	106	105	105	105	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	98	98	95	96	97	97							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-107	03/22/12	40 mil LLDPE	F	T	Load (ppi)	97	94	95	95	94	95	104	107	108	109	109	107	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	91	95	92	93	93	93							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-108	03/22/12	40 mil LLDPE	F	T	Load (ppi)	97	98	95	89	91	94	112	111	108	107	107	109	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	87	88	86	87	82	86							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-109	03/22/12	40 mil LLDPE	F	T	Load (ppi)	98	99	100	97	94	98	110	109	108	108	107	108	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	93	95	88	90	85	90							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-110	03/22/12	40 mil LLDPE	F	T	Load (ppi)	96	92	99	99	95	96	107	109	111	110	107	109	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	95	88	88	89	87	89							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-111	03/22/12	40 mil LLDPE	F	T	Load (ppi)	104	100	92	89	93	96	111	107	105	105	105	107	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	89	98	90	81	95	91							
					Mode	SE1	SE1	SE1	SE1	SE1	---							

Table 3

GEOMEMBRANE FIELD SEAM DESTRUCTIVE TEST SUMMARY

Project: Sarasota CCSWDC, Phase 1 Closure

File No.: 09-7375

Sample	Date Received	Material Type	Weld Type	Weld	Item	Peel Test 1	Peel Test 2	Peel Test 3	Peel Test 4	Peel Test 5	Peel Test Avg.	Shear Test 1	Shear Test 2	Shear Test 3	Shear Test 4	Shear Test 5	Shear Test Avg.	Pass/ Fail
DT-112	03/22/12	40 mil LLDPE	F	T	Load (ppi)	104	103	103	102	102	103	110	110	109	107	106	108	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	87	87	88	89	87	88							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-113	03/22/12	40 mil LLDPE	F	T	Load (ppi)	106	105	105	103	104	105	112	110	109	108	108	109	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	88	90	90	88	87	89							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-114	03/22/12	40 mil LLDPE	F	T	Load (ppi)	101	99	96	97	95	98	108	105	104	104	105	105	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	95	88	88	89	89	90							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-115	03/23/12	40 mil LLDPE 60mil HDPE	E	T	Load (ppi)	113	101	96	94	94	100	114	111	100	98	95	104	P
					Mode	BRK2	BRK2	BRK2	BRK2	BRK2	---	SE2	SE2	SE2	SE2	SE2	---	
				B	Load (ppi)													
					Mode													
DT-116	03/23/12	40 mil LLDPE 60mil HDPE	E	T	Load (ppi)	83	75	80	90	94	84	103	97	95	98	106	100	P
					Mode	SE3	SE3	SE3	SE3	SE3	---	SE2	BRK2	BRK2	SE2	SE2	---	
				B	Load (ppi)													
					Mode													
DT-117	03/23/12	40 mil LLDPE	E	T	Load (ppi)	101	83	103	66	76	86	94	107	94	96	93	97	P
					Mode	SE3	BRK2	SE3	SE3	SE3	---	SE1	SE1	SE2	SE1	SE1	---	
				B	Load (ppi)													
					Mode													
DT-118	03/23/12	40 mil LLDPE	E	T	Load (ppi)	88	92	96	105	105	97	96	95	95	95	95	95	P
					Mode	SE3	SE3	BRK2	BRK2	SE3	---	SE1	SE1	SE2	SE1	SE1	---	
				B	Load (ppi)													
					Mode													
DT-119	03/30/12	60 mil HDPE	F	T	Load (ppi)	111	113	120	116	118	116	164	162	161	161	161	162	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	BRK	SE1	BRK	---	
				B	Load (ppi)	125	116	119	125	115	120							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-120	03/30/12	60 mil HDPE	F	T	Load (ppi)	119	120	117	117	118	118	171	169	167	166	165	168	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	132	134	128	132	126	130							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-121	03/30/12	60 mil HDPE	F	T	Load (ppi)	116	115	117	116	116	116	167	163	164	163	164	164	FI
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	125	120	125	104	116	118							
					Mode	SE1	SE1	SE1	AD-BRK	SE1	---							
					Peel (%)	---	---	---	80	---	---							
DT-121A	04/04/12	60 mil HDPE	F	T	Load (ppi)	117	118	117	120	116	118	163	164	163	165	166	164	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	126	126	124	125	132	127							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-121B	04/04/12	60 mil HDPE	F	T	Load (ppi)	114	116	118	117	114	116	165	162	162	163	164	163	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	118	128	114	132	128	124							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-122	03/30/12	60 mil HDPE	F	T	Load (ppi)	112	108	105	116	114	111	165	160	160	164	163	162	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	BRK	---	
				B	Load (ppi)	116	120	118	111	107	114							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-123	03/30/12	60 mil HDPE	F	T	Load (ppi)	123	121	117	114	111	117	163	164	164	162	162	163	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)	121	130	125	119	115	122							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-124	03/30/12	60 mil HDPE	F	T	Load (ppi)	111	104	111	109	106	108	163	162	162	164	163	163	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	BRK	BRK	BRK	---	
				B	Load (ppi)	128	115	116	112	115	117							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-125	03/30/12	60 mil HDPE	F	T	Load (ppi)	110	111	111	107	109	110	170	168	168	168	165	168	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	112	116	134	109	118	118							
					Mode	SE1	SE1	SE1	SE1	SE1	---							

Table 3

GEOMEMBRANE FIELD SEAM DESTRUCTIVE TEST SUMMARY

Project: Sarasota CCSWDC, Phase 1 Closure

File No.: 09-7375

Sample	Date Received	Material Type	Weld Type	Weld	Item	Peel Test 1	Peel Test 2	Peel Test 3	Peel Test 4	Peel Test 5	Peel Test Avg.	Shear Test 1	Shear Test 2	Shear Test 3	Shear Test 4	Shear Test 5	Shear Test Avg.	Pass/ Fail
DT-126	03/30/12	60 mil HDPE	F	T	Load (ppi)	127	133	119	143	137	132	172	171	170	170	168	170	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	138	138	138	139	138	138							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-127	03/30/12	60 mil HDPE	F	T	Load (ppi)	136	137	136	133	127	134	173	174	170	171	170	172	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	BRK	BRK	BRK	BRK	SE1	---	
				B	Load (ppi)	120	114	121	123	120	120							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-128	03/30/12	60 mil HDPE	F	T	Load (ppi)	116	115	121	116	113	116	169	170	169	168	167	169	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	BRK	BRK	BRK	---	
				B	Load (ppi)	113	111	110	110	111	111							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-129	03/30/12	60 mil HDPE	F	T	Load (ppi)	110	115	110	110	111	111	165	165	164	165	165	165	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	BRK	SE1	BRK	BRK	SE1	---	
				B	Load (ppi)	103	121	119	122	122	117							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-130	03/30/12	60 mil HDPE	F	T	Load (ppi)	139	131	129	130	127	131	170	170	169	169	166	169	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	114	119	142	117	143	127							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-131	03/30/12	60 mil HDPE	F	T	Load (ppi)	131	115	121	128	126	124	168	166	165	165	166	166	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	BRK	SE1	SE1	BRK	SE1	---	
				B	Load (ppi)	115	120	120	114	115	117							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-132	03/30/12	60 mil HDPE	F	T	Load (ppi)	127	123	124	118	119	122	165	165	164	163	164	164	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	BRK	SE1	BRK	SE1	SE1	---	
				B	Load (ppi)	117	131	130	123	120	124							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-133	03/30/12	60 mil HDPE	E	T	Load (ppi)	152	137	143	149	151	146	156	155	158	159	159	157	P
					Mode	BRK1	SE3	SE3	SE3	SE3	---	BRK2	BRK2	BRK2	SE2	SE2	---	
				B	Load (ppi)													
					Mode													
DT-134	03/31/12	60 mil HDPE	E	Geomembrane damaged (apparent knife cuts) next to seam. Not tested.														
DT-135	04/02/12	60 mil HDPE	E	T	Load (ppi)	159	158	160	160	159	159	165	161	163	172	173	167	P
					Mode	BRK2	BRK2	SE3	SE3	BRK2	---	BRK2	BRK2	BRK2	BRK2	SE2	---	
				B	Load (ppi)													
					Mode													
DT-136	04/02/12	60 mil HDPE	E	T	Load (ppi)	132	122	117	119	121	122	159	155	158	155	158	157	P
					Mode	SE3	SE3	SE3	SE3	SE3	---	SE1	SE1	SE1	SE1	BRK1	---	
				B	Load (ppi)													
					Mode													
DT-137	04/03/12	40 mil LLDPE	E	T	Load (ppi)	81	82	83	76	78	80	89	90	94	92	95	92	P
					Mode	SE3	SE3	SE3	SE3	SE3	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)													
					Mode													
DT-138	04/03/12	40 mil LLDPE	E	T	Load (ppi)	85	88	101	91	86	90	98	91	93	94	92	94	P
					Mode	SE3	BRK2	BRK2	BRK2	SE3	---	SE1	SE2	SE1	SE1	SE2	---	
				B	Load (ppi)													
					Mode													
DT-139	04/03/12	40 mil LLDPE	F	T	Load (ppi)	85	80	84	83	80	82	90	88	89	76	89	86	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	89	64	81	77	81	78							
					Mode	SE1	AD-BRK	SE1	SE1	SE1	---							
					Peel (%)	---	10	---	---	---	---							
DT-140	04/05/12	40 mil LLDPE	F	T	Load (ppi)	90	92	96	92	96	93	106	98	98	99	97	100	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	96	96	94	96	93	95							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-141	04/05/12	40 mil LLDPE	F	T	Load (ppi)	92	90	85	87	91	89	103	107	103	96	92	100	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	85	85	83	85	90	86							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-142	04/05/12	60 mil HDPE	E	T	Load (ppi)	119	126	130	124	112	122	159	157	157	163	159	159	P
					Mode	SE3	SE3	SE3	SE3	SE3	---	SE2	SE2	SE2	BRK1	BRK1	---	
				B	Load (ppi)													
					Mode													

Table 3

GEOMEMBRANE FIELD SEAM DESTRUCTIVE TEST SUMMARY

Project: Sarasota CCSWDC, Phase 1 Closure

File No.: 09-7375

Sample	Date Received	Material Type	Weld Type	Weld	Item	Peel Test 1	Peel Test 2	Peel Test 3	Peel Test 4	Peel Test 5	Peel Test Avg.	Shear Test 1	Shear Test 2	Shear Test 3	Shear Test 4	Shear Test 5	Shear Test Avg.	Pass/ Fail
DT-143	04/05/12	60 mil HDPE	E	T	Load (ppi)	133	132	135	129	128	131	165	165	163	160	162	163	P
					Mode	SE3	SE3	SE3	SE3	SE3	---	SE1	BRK1	BRK1	BRK1	SE1	---	
				B	Load (ppi)													
					Mode													
DT-144	04/05/12	60 mil HDPE	E	T	Load (ppi)	119	136	119	133	145	130	157	152	155	157	159	156	P
					Mode	SE3	SE3	SE3	SE3	SE3	---	SE1	SE1	SE1	SE1	BRK1	---	
				B	Load (ppi)													
					Mode													
DT-145	04/23/12	40 mil LLDPE	F	T	Load (ppi)	98	96	93	93	105	97	105	102	101	100	98	101	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	81	90	87	89	91	88							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-146	04/23/12	40 mil LLDPE	F	T	Load (ppi)	103	102	100	97	96	100	108	106	112	104	102	106	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	95	95	95	96	96	95							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-147	04/23/12	40 mil LLDPE	F	T	Load (ppi)	87	90	91	93	90	90	114	114	114	112	114	114	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	105	101	104	107	107	105							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-148	04/23/12	40 mil LLDPE	F	T	Load (ppi)	89	93	94	90	79	89	106	102	104	99	99	102	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	85	86	90	87	85	87							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-149	04/23/12	40 mil LLDPE	F	T	Load (ppi)	108	103	104	104	105	105	113	113	112	112	110	112	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	97	96	95	94	96	96							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-150	04/23/12	40 mil LLDPE	F	T	Load (ppi)	105	104	99	96	101	101	108	107	107	108	109	108	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	98	101	98	99	99	99							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-151	04/23/12	40 mil LLDPE	F	T	Load (ppi)	103	102	102	101	99	101	108	105	107	105	104	106	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	98	98	97	96	96	97							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-152	04/23/12	40 mil LLDPE	F	T	Load (ppi)	94	109	104	92	94	99	108	108	102	101	101	104	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	100	98	98	98	99	99							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-153	04/23/12	40 mil LLDPE	F	T	Load (ppi)	100	92	98	95	97	96	105	102	103	103	105	104	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	88	87	91	93	90	90							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-154	04/23/12	40 mil LLDPE	F	T	Load (ppi)	83	83	81	80	81	82	109	104	106	106	106	106	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	102	100	101	101	95	100							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-155	04/23/12	40 mil LLDPE	F	T	Load (ppi)	104	100	101	101	101	101	108	108	107	108	108	108	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	85	88	91	93	95	90							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-156	04/23/12	40 mil LLDPE	F	T	Load (ppi)	93	97	99	99	97	97	104	105	107	106	105	105	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	95	96	98	91	92	94							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-157	04/23/12	40 mil LLDPE	F	T	Load (ppi)	99	100	100	99	97	99	106	106	108	108	105	107	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	88	88	80	61	85	80							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-158	04/23/12	40 mil LLDPE	F	T	Load (ppi)	102	102	105	96	101	101	108	108	108	108	109	108	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	97	100	97	95	100	98							
					Mode	SE1	SE1	SE1	SE1	SE1	---							

Table 3

GEOMEMBRANE FIELD SEAM DESTRUCTIVE TEST SUMMARY

Project: Sarasota CCSWDC, Phase 1 Closure

File No.: 09-7375

Sample	Date Received	Material Type	Weld Type	Weld	Item	Peel Test 1	Peel Test 2	Peel Test 3	Peel Test 4	Peel Test 5	Peel Test Avg.	Shear Test 1	Shear Test 2	Shear Test 3	Shear Test 4	Shear Test 5	Shear Test Avg.	Pass/ Fail
DT-159	04/23/12	40 mil LLDPE	F	T	Load (ppi)	105	103	103	102	99	102	109	109	107	108	108	108	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	98	96	92	90	91	93							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-160	04/23/12	40 mil LLDPE	F	T	Load (ppi)	106	93	95	94	92	96	109	109	107	108	107	108	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	BRK	---	
				B	Load (ppi)	97	97	95	101	99	98							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-161	04/23/12	40 mil LLDPE	F	T	Load (ppi)	107	105	104	114	100	106	115	114	113	112	110	113	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	91	90	87	90	91	90							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-162	04/23/12	40 mil LLDPE	F	T	Load (ppi)	105	102	105	107	107	105	107	107	108	109	110	108	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	BRK	BRK	SE1	---	
				B	Load (ppi)	81	77	78	80	79	79							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-163	04/23/12	40 mil LLDPE	F	T	Load (ppi)	102	100	101	97	100	100	101	102	112	110	105	106	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	96	96	96	95	93	95							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-164	04/26/12	40 mil LLDPE 60mil HDPE	E	T	Load (ppi)	102	104	103	104	102	103	104	104	106	104	102	104	P
					Mode	BRK2	BRK2	BRK2	BRK2	BRK2	---	BRK2	SE2	SE2	SE2	SE2	---	
				B	Load (ppi)													
					Mode													
DT-165	04/26/12	40 mil LLDPE	E	T	Load (ppi)	98	99	100	104	98	100	110	108	107	108	107	108	P
					Mode	SE3	BRK2	SE3	SE3	SE3	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)													
					Mode													
DT-166	04/26/12	40 mil LLDPE 60mil HDPE	E	T	Load (ppi)	97	95	96	98	98	97	99	96	94	96	97	96	P
					Mode	BRK2	BRK2	BRK2	BRK2	BRK2	---	SE2	SE2	SE2	SE2	SE2	---	
				B	Load (ppi)													
					Mode													
DT-167	04/26/12	40 mil LLDPE 60mil HDPE	E	T	Load (ppi)	102	101	100	98	97	100	102	103	103	101	101	102	P
					Mode	BRK2	BRK2	BRK2	BRK2	BRK2	---	SE2	SE2	SE2	SE2	SE2	---	
				B	Load (ppi)													
					Mode													
DT-168	04/26/12	40 mil LLDPE 60mil HDPE	E	T	Load (ppi)	102	108	117	118	118	113	107	106	119	118	113	113	P
					Mode	BRK2	BRK2	BRK2	BRK2	BRK2	---	SE2	SE2	SE2	SE2	SE2	---	
				B	Load (ppi)													
					Mode													
DT-169	04/30/12	40 mil LLDPE	F	T	Load (ppi)	86	82	77	84	82	82	86	88	87	89	89	88	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	92	86	87	88	84	87							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-170	04/30/12	40 mil LLDPE 60mil HDPE	E	T	Load (ppi)	112	105	97	106	99	104	111	110	107	107	98	107	P
					Mode	BRK2	BRK2	BRK2	BRK2	BRK2	---	SE2	SE2	SE2	SE2	SE2	---	
				B	Load (ppi)													
					Mode													
DT-171	04/30/12	40 mil LLDPE	F	T	Load (ppi)	90	88	90	88	85	88	101	99	99	96	94	98	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	BRK	---	
				B	Load (ppi)	91	89	88	84	86	88							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-172	04/30/12	40 mil LLDPE	F	T	Load (ppi)	113	102	104	99	99	103	108	107	107	107	106	107	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	DNF	SE1	DNF	SE1	SE1	---	
				B	Load (ppi)	94	93	91	95	91	93							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-173	04/30/12	40 mil LLDPE	F	T	Load (ppi)	101	100	99	99	97	99	107	104	105	105	105	105	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	96	96	93	93	97	95							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-174	04/30/12	40 mil LLDPE	F	T	Load (ppi)	100	102	104	100	101	101	108	107	107	106	107	107	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	DNF	SE1	DNF	---	
				B	Load (ppi)	90	88	87	90	90	89							
					Mode	SE1	SE1	SE1	SE1	SE1	---							

Table 3

GEOMEMBRANE FIELD SEAM DESTRUCTIVE TEST SUMMARY

Project: Sarasota CCSWDC, Phase 1 Closure

File No.: 09-7375

Sample	Date Received	Material Type	Weld Type	Weld	Item	Peel Test 1	Peel Test 2	Peel Test 3	Peel Test 4	Peel Test 5	Peel Test Avg.	Shear Test 1	Shear Test 2	Shear Test 3	Shear Test 4	Shear Test 5	Shear Test Avg.	Pass/ Fail
DT-175	04/30/12	40 mil LLDPE	F	T	Load (ppi)	94	89	88	92	93	91	113	112	111	112	112	112	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	105	104	102	102	93	101							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-176	04/30/12	40 mil LLDPE	F	T	Load (ppi)	97	94	96	93	98	96	109	108	108	107	107	108	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	92	92	96	93	90	93							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-177	04/30/12	40 mil LLDPE	F	T	Load (ppi)	103	100	100	98	100	100	107	106	105	105	105	106	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	89	90	90	93	94	91							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-178	04/30/12	40 mil LLDPE	F	T	Load (ppi)	98	90	91	91	94	93	111	109	107	107	107	108	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	102	101	102	109	112	105							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-179	04/30/12	40 mil LLDPE	F	T	Load (ppi)	99	95	102	93	99	98	112	110	111	114	117	113	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	97	104	101	94	102	100							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-180	04/30/12	40 mil LLDPE	F	T	Load (ppi)	105	104	103	101	102	103	109	108	109	109	107	108	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	87	93	95	95	87	91							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-181	04/30/12	40 mil LLDPE	F	T	Load (ppi)	102	99	88	91	90	94	112	109	109	106	106	108	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	DNF	SE1	SE1	---	
				B	Load (ppi)	110	107	101	101	103	104							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-182	04/30/12	40 mil LLDPE	F	T	Load (ppi)	109	105	105	105	104	106	113	113	112	111	113	112	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	92	96	102	103	100	99							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-183	04/30/12	40 mil LLDPE	F	T	Load (ppi)	112	111	107	106	116	110	116	115	114	112	112	114	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	94	94	93	93	92	93							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-184	04/30/12	40 mil LLDPE	F	T	Load (ppi)	106	105	107	103	108	106	108	108	109	108	108	108	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	90	93	94	92	90	92							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-185	04/30/12	40 mil LLDPE	F	T	Load (ppi)	95	92	92	90	91	92	108	107	107	106	107	107	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	97	97	95	94	96	96							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-186	04/30/12	40 mil LLDPE	F	T	Load (ppi)	98	101	98	97	104	100	111	110	109	108	109	109	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	98	98	90	94	99	96							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-187	04/30/12	40 mil LLDPE	F	T	Load (ppi)	97	99	99	101	97	99	111	110	108	107	104	108	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	90	88	88	88	89	89							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-188	04/30/12	40 mil LLDPE	F	T	Load (ppi)	86	88	88	87	86	87	110	107	107	111	108	109	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	97	102	99	99	94	98							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-189	04/30/12	40 mil LLDPE	F	T	Load (ppi)	100	97	102	94	95	98	108	107	106	105	107	107	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	85	83	86	85	86	85							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-190	04/30/12	40 mil LLDPE	F	T	Load (ppi)	82	84	84	83	80	83	110	109	111	110	109	110	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	97	99	99	95	102	98							
					Mode	SE1	SE1	SE1	SE1	SE1	---							

Table 3

GEOMEMBRANE FIELD SEAM DESTRUCTIVE TEST SUMMARY

Project: Sarasota CCSWDC, Phase 1 Closure

File No.: 09-7375

Sample	Date Received	Material Type	Weld Type	Weld	Item	Peel Test 1	Peel Test 2	Peel Test 3	Peel Test 4	Peel Test 5	Peel Test Avg.	Shear Test 1	Shear Test 2	Shear Test 3	Shear Test 4	Shear Test 5	Shear Test Avg.	Pass/ Fail
DT-191	04/30/12	40 mil LLDPE	F	T	Load (ppi)	105	106	105	101	102	104	112	112	112	113	112	112	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	93	95	94	89	87	92							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-192	04/30/12	40 mil LLDPE	F	T	Load (ppi)	95	96	97	95	96	96	112	109	108	106	106	108	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	94	98	99	99	100	98							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-193	05/01/12	40 mil LLDPE 60mil HDPE	E	T	Load (ppi)	90	97	97	86	101	94	92	88	97	88	100	93	P
					Mode	BRK2	BRK2	BRK2	BRK2	BRK2	---	SE2	BRK2	SE2	SE2	SE2	---	
				B	Load (ppi)													
					Mode													
DT-194A3	05/01/12	40 mil LLDPE	F	T	Load (ppi)	74	92	77	74	94	82	114	111	112	111	110	112	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	DNF	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	105	106	100	105	103	104							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-194B2	05/01/12	40 mil LLDPE	F	T	Load (ppi)	91	90	92	93	93	92	95	95	96	98	98	96	P
					Mode	SE1	SE1	SE1	SE1	AD-BRK	---	SE1	SE1	SE1	BRK	BRK	---	
				B	Load (ppi)	92	92	91	95	95	93							
					Mode	SE1	SE1	AD	SE1	SE1	---							
DT-195	05/01/12	40 mil LLDPE	E	T	Load (ppi)	85	88	85	90	85	87	100	90	92	91	102	95	P
					Mode	BRK2	SE3	BRK2	SE3	SE3	---	SE1	SE1	SE1	SE2	SE1	---	
				B	Load (ppi)													
					Mode													
DT-196	05/01/12	40 mil LLDPE	E	T	Load (ppi)	59	66	62	75	68	66	96	93	96	89	89	93	P
					Mode	SE3	SE3	SE3	SE3	SE3	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)													
					Mode													
DT-197	05/02/12	40 mil LLDPE	E	T	Load (ppi)	94	94	91	94	116	98	96	93	92	94	97	94	P
					Mode	BRK2	SE3	BRK2	BRK2	BRK2	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)													
					Mode													
DT-198	05/02/12	40 mil LLDPE	E	T	Load (ppi)	94	101	92	89	89	93	88	95	97	98	109	97	P
					Mode	SE3	BRK2	SE3	BRK2	SE3	---	SE2	SE2	SE1	SE1	SE2	---	
				B	Load (ppi)													
					Mode													
DT-199	05/07/12	40 mil LLDPE	E	T	Load (ppi)	85	68	70	78	77	76	97	100	98	104	98	99	P
					Mode	SE3	SE3	SE1	SE1	SE3	---	SE2	SE2	SE2	SE1	SE2	---	
				B	Load (ppi)													
					Mode													
DT-200	05/07/12	40 mil LLDPE	E	T	Load (ppi)	95	90	83	81	90	88	87	84	91	81	83	85	P
					Mode	BRK2	BRK2	BRK2	BRK2	BRK2	---	SE2	SE2	SE2	SE2	SE2	---	
				B	Load (ppi)													
					Mode													
DT-201	05/08/12	60 mil HDPE	E	T	Load (ppi)	134	148	146	146	141	143	154	149	148	151	157	152	P
					Mode	SE3	BRK2	BRK2	BRK2	AD-BRK	---	BRK1	SE2	SE1	SE1	SE1	---	
				B	Load (ppi)													
					Mode													
DT-202	05/08/12	60 mil HDPE	E	T	Load (ppi)	143	127	123	123	110	125	173	177	174	179	167	174	P
					Mode	SE3	SE3	SE3	SE3	SE3	---	SE2	SE1	SE1	SE1	SE2	---	
				B	Load (ppi)													
					Mode													
DT-203	06/18/12	TPO	Fw	T	Load (ppi)	59	61	54	57	56	57	186	191	196	189	186	190	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-204	06/19/12	TPO	Fw	T	Load (ppi)	59	59	61	59	64	60	185	181	194	189	184	187	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-205	06/19/12	TPO	Fw	T	Load (ppi)	58	55	60	62	61	59	183	186	194	188	184	187	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													

Table 3

GEOMEMBRANE FIELD SEAM DESTRUCTIVE TEST SUMMARY

Project: Sarasota CCSWDC, Phase 1 Closure

File No.: 09-7375

Sample	Date Received	Material Type	Weld Type	Weld	Item	Peel Test 1	2	3	4	5	Avg.	Shear Test 1	2	3	4	5	Avg.	Pass/ Fail
DT-206	06/20/12	TPO	Fa	T	Load (ppi)	20	20	15	33	43	26	118	116	112	116	129	118	Fl
					Mode	AD	AD	AD	AD	AD	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-207	06/20/12	TPO	Fw	T	Load (ppi)	60	62	59	67	63	62	185	185	180	189	188	185	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-208	06/20/12	TPO	Fw	T	Load (ppi)	67	61	61	59	63	62	185	188	191	186	184	187	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-209	07/06/12	TPO	Fw	T	Load (ppi)	46	51	52	61	57	53	185	191	199	194	199	194	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-210	07/06/12	TPO	Fw	T	Load (ppi)	56	56	57	51	52	54	194	200	199	194	191	196	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-211	07/06/12	TPO	Fw	T	Load (ppi)	47	51	57	62	53	54	191	198	190	194	194	193	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-212	07/09/12	TPO	Fw	T	Load (ppi)	59	61	56	56	56	58	184	186	189	194	185	188	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-213	07/09/12	TPO	Fw	T	Load (ppi)	50	52	53	56	57	54	191	181	199	194	189	191	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-214	07/09/12	TPO	Fw	T	Load (ppi)	58	57	56	54	54	56	175	181	175	179	175	177	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-215	07/12/12	TPO	Fw	T	Load (ppi)	63	57	57	62	62	60	181	181	180	178	180	180	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-216	07/12/12	TPO	Fw	T	Load (ppi)	62	57	58	57	56	58	188	181	180	181	185	183	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-217	07/12/12	TPO	Fw	T	Load (ppi)	61	57	58	55	51	56	178	180	179	180	181	180	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-218	07/12/12	TPO	Fw	T	Load (ppi)	60	63	57	55	55	58	181	179	184	184	185	183	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-219	07/12/12	TPO	Fw	T	Load (ppi)	61	58	56	52	55	56	176	180	181	179	178	179	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-220	07/12/12	TPO	Fw	T	Load (ppi)	32	25	25	20	20	24	174	180	179	174	179	177	Fl
					Mode	AD	AD	AD	AD	AD	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-220A	08/05/12	TPO	Fw	T	Load (ppi)	54	53	50	52	51	52	179	181	176	173	185	179	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													

Table 3

GEOMEMBRANE FIELD SEAM DESTRUCTIVE TEST SUMMARY

Project: Sarasota CCSWDC, Phase 1 Closure

File No.: 09-7375

Sample	Date Received	Material Type	Weld Type	Weld	Item	Peel Test 1	Peel Test 2	Peel Test 3	Peel Test 4	Peel Test 5	Peel Test Avg.	Shear Test 1	Shear Test 2	Shear Test 3	Shear Test 4	Shear Test 5	Shear Test Avg.	Pass/ Fail
DT-221	07/16/12	TPO	Fw	T	Load (ppi)	48	53	50	52	53	51	181	189	191	199	189	190	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-222	07/17/12	TPO	Fw	T	Load (ppi)	37	44	55	50	41	45	185	184	190	196	195	190	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-223	07/18/12	TPO	Fw	T	Load (ppi)	38	41	39	43	42	41	186	185	199	191	194	191	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-224	08/05/12	TPO	Fw	T	Load (ppi)	57	60	61	60	61	60	177	174	173	177	177	176	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-225	07/26/12	TPO	Fw	T	Load (ppi)	47	55	56	60	61	56	184	176	182	181	183	181	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)	52	50	48	56	52	52	199	196	190	186	184	191	
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
DT-226	07/26/12	TPO	Fw	T	Load (ppi)	50	51	51	50	53	51	191	205	194	177	178	189	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)	55	56	56	57	53	55	175	179	175	182	176	177	
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
DT-227	07/26/12	TPO	Fw	T	Load (ppi)	55	51	50	55	50	52	174	179	175	176	181	177	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-228	07/26/12	TPO	Fw	T	Load (ppi)	57	56	55	58	50	55	183	180	181	182	182	182	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-229	07/26/12	TPO	Fw	T	Load (ppi)	57	61	57	57	56	58	183	182	183	184	180	182	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-230	07/31/12	TPO	Fw	T	Load (ppi)	59	60	51	53	52	55	184	189	190	184	199	189	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-231	07/30/12	40 mil LLDPE	F	T	Load (ppi)	85	89	91	90	89	89	102	102	103	100	102	102	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	85	88	86	86	86	86							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-232	07/30/12	40 mil LLDPE	F	T	Load (ppi)	94	92	93	76	74	86	103	103	101	100	103	102	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	93	98	88	95	99	95							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-233	07/30/12	40 mil LLDPE	F	T	Load (ppi)	93	89	94	94	100	94	105	104	104	102	102	103	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	101	81	93	91	99	93							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-234	07/30/12	40 mil LLDPE	F	T	Load (ppi)	86	87	89	87	92	88	100	101	101	100	96	100	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	96	95	106	107	92	99							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-235	07/30/12	40 mil LLDPE 60mil HDPE	E	T	Load (ppi)	106	89	95	110	109	102	99	105	103	102	105	103	P
					Mode	SE2	SE3	SE3	SE3	SE2	---	SE2	SE2	SE2	SE2	SE2	---	
				B	Load (ppi)													
					Mode													
DT-236	07/31/12	TPO	Fw	T	Load (ppi)	57	56	57	58	54	56	194	189	191	199	191	193	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													

Table 3

GEOMEMBRANE FIELD SEAM DESTRUCTIVE TEST SUMMARY

Project: Sarasota CCSWDC, Phase 1 Closure

File No.: 09-7375

Sample	Date Received	Material Type	Weld Type	Weld	Item	Peel Test 1	2	3	4	5	Avg.	Shear Test 1	2	3	4	5	Avg.	Pass/ Fail
DT-237	07/31/12	40 mil LLDPE	F	T	Load (ppi)	98	98	97	98	92	97	103	104	103	104	104	104	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	103	99	102	102	99	101							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-238	07/31/12	40 mil LLDPE	F	T	Load (ppi)	88	90	90	88	88	89	105	103	102	99	97	101	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	100	97	96	92	83	94							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-239	07/31/12	40 mil LLDPE	E	T	Load (ppi)	86	86	89	80	78	84	91	91	88	87	85	88	P
					Mode	SE3	SE3	BRK1	SE3	SE3	---	SE2	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)													
					Mode													
DT-240	08/02/12	40 mil LLDPE	F	T	Load (ppi)	94	88	96	100	101	96	111	108	104	107	107	107	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	98	96	95	93	94	95							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-241	08/02/12	40 mil LLDPE	F	T	Load (ppi)	102	92	99	99	101	99	106	103	103	102	103	103	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	91	89	91	93	96	92							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-242	08/02/12	40 mil LLDPE	F	T	Load (ppi)	93	92	91	90	89	91	110	109	110	110	110	110	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	92	90	88	88	86	89							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-243	08/02/12	40 mil LLDPE	F	T	Load (ppi)	93	95	88	90	89	91	107	105	105	107	103	105	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	99	97	98	99	99	98							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-244	08/02/12	40 mil LLDPE	F	T	Load (ppi)	97	98	98	98	96	97	108	104	107	106	105	106	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	85	83	83	85	85	84							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-245	08/02/12	40 mil LLDPE	F	T	Load (ppi)	97	97	101	100	99	99	106	106	105	104	104	105	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	92	89	88	91	90	90							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-246	08/02/12	40 mil LLDPE	F	T	Load (ppi)	98	98	96	103	101	99	110	109	108	110	109	109	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	101	104	105	105	104	104							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-247	08/02/12	40 mil LLDPE	F	T	Load (ppi)	104	102	103	101	100	102	107	104	106	106	105	106	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	89	84	88	85	88	87							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-248	08/09/12	TPO	Fw	T	Load (ppi)	49	50	51	51	53	51	187	184	176	187	186	184	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)	56	60	58	56	52	56	195	184	199	185	175	188	
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
DT-249	08/09/12	TPO	Fw	T	Load (ppi)	48	52	53	52	52	51	180	184	182	181	184	182	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)	47	52	53	52	52	51	180	193	182	180	187	184	
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
DT-250	08/09/12	TPO	Fw	T	Load (ppi)	51	51	52	52	49	51	173	195	176	195	173	182	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)	47	51	52	52	52	51	185	191	183	198	181	188	
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
DT-251	08/09/12	TPO	Fw	T	Load (ppi)	56	62	51	53	56	56	181	184	181	183	178	181	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)	44	55	51	52	51	51	184	189	182	198	186	188	
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
DT-252	08/09/12	TPO	Fw	T	Load (ppi)	55	56	56	58	58	57	188	182	194	199	186	190	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													

Table 3

GEOMEMBRANE FIELD SEAM DESTRUCTIVE TEST SUMMARY

Project: Sarasota CCSWDC, Phase 1 Closure

File No.: 09-7375

Sample	Date Received	Material Type	Weld Type	Weld	Item	Peel Test 1	Peel Test 2	Peel Test 3	Peel Test 4	Peel Test 5	Peel Test Avg.	Shear Test 1	Shear Test 2	Shear Test 3	Shear Test 4	Shear Test 5	Shear Test Avg.	Pass/ Fail
DT-253	08/09/12	TPO	Fw	T	Load (ppi)	49	50	52	51	53	51	181	175	185	178	177	179	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-254	08/09/12	TPO	Fw	T	Load (ppi)	47	52	55	54	52	52	178	181	190	186	177	182	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-255	08/02/12	40 mil LLDPE	E	T	Load (ppi)	81	77	87	81	74	80	81	86	91	83	85	85	P
					Mode	SE3	SE3	BRK2	SE3	SE3	---	SE2	SE2	SE1	SE2	SE1	---	
				B	Load (ppi)													
					Mode													
DT-256	08/16/12	TPO	Fw	T	Load (ppi)	47	50	52	52	53	51	183	176	188	189	191	185	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)	50	51	51	51	47	50	178	187	180	180	179	181	
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
DT-257	08/16/12	TPO	Fw	T	Load (ppi)	47	50	53	52	57	52	176	176	190	198	174	183	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-258	08/16/12	TPO	Fw	T	Load (ppi)	47	50	50	51	53	50	174	175	178	175	181	177	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-259	08/16/12	TPO	Fw	T	Load (ppi)	46	48	50	51	50	49	176	182	185	190	176	182	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-260	08/16/12	TPO	Fw	T	Load (ppi)	52	51	48	47	52	50	189	181	176	178	181	181	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-261	08/16/12	TPO	Fw	T	Load (ppi)	52	56	50	53	51	52	176	175	176	183	182	178	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-262	08/16/12	TPO	Fw	T	Load (ppi)	47	53	52	53	50	51	190	178	176	186	190	184	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-263	08/16/12	TPO	Fw	T	Load (ppi)	51	52	47	53	52	51	180	185	184	182	182	183	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-264	08/16/12	TPO	Fw	T	Load (ppi)	47	50	56	61	52	53	176	176	196	190	186	185	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-265	08/16/12	TPO	Fw	T	Load (ppi)	50	51	52	47	51	50	175	175	185	176	174	177	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-266	08/16/12	TPO	Fw	T	Load (ppi)	47	52	55	54	53	52	182	178	182	175	176	179	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-267	08/16/12	TPO	Fw	T	Load (ppi)	53	52	54	56	58	55	191	190	178	177	178	183	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-268	08/16/12	TPO	Fw	T	Load (ppi)	47	52	51	53	53	51	184	176	176	185	188	182	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													

Table 3

GEOMEMBRANE FIELD SEAM DESTRUCTIVE TEST SUMMARY

Project: Sarasota CCSWDC, Phase 1 Closure

File No.: 09-7375

Sample	Date Received	Material Type	Weld Type	Weld	Item	Peel Test 1	Peel Test 2	Peel Test 3	Peel Test 4	Peel Test 5	Peel Test Avg.	Shear Test 1	Shear Test 2	Shear Test 3	Shear Test 4	Shear Test 5	Shear Test Avg.	Pass/ Fail
DT-269	08/16/12	TPO	Fw	T	Load (ppi)	55	53	51	50	50	52	176	175	176	181	185	179	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-270	08/16/12	TPO	Fw	T	Load (ppi)	47	52	53	50	52	51	176	174	175	183	187	179	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-271	08/05/12	TPO	Fw	T	Load (ppi)	48	47	50	53	51	50	181	177	176	190	186	182	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-272	08/05/12	TPO	Fw	T	Load (ppi)	50	52	51	51	55	52	187	187	179	181	177	182	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-273	08/05/12	TPO	Fw	T	Load (ppi)	58	54	50	51	51	53	177	175	181	183	183	180	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-274	08/05/12	TPO	Fw	T	Load (ppi)	56	52	50	51	51	52	182	181	178	174	177	178	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-275	08/05/12	TPO	Fw	T	Load (ppi)	53	52	51	51	51	52	176	180	182	181	176	179	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-276	08/05/12	TPO	Fw	T	Load (ppi)	53	50	52	57	58	54	191	191	193	192	186	191	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-277	08/05/12	TPO	Fw	T	Load (ppi)	56	54	50	54	60	55	174	175	176	175	174	175	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-278	08/05/12	TPO	Fw	T	Load (ppi)	55	57	54	53	52	54	185	180	178	180	182	181	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-279	08/05/12	TPO	Fw	T	Load (ppi)	50	51	50	47	47	49	201	201	195	186	181	193	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-280	08/05/12	TPO	Fw	T	Load (ppi)	55	54	50	57	57	55	191	192	197	185	186	190	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-281	08/05/12	TPO	Fw	T	Load (ppi)	53	57	50	52	53	53	183	183	180	180	183	182	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-282	08/05/12	TPO	Fw	T	Load (ppi)	57	60	60	61	57	59	177	177	172	178	175	176	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-283	08/05/12	TPO	Fw	T	Load (ppi)	54	56	55	50	50	53	174	182	180	189	178	181	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-284	08/05/12	TPO	Fw	T	Load (ppi)	53	52	51	51	51	52	175	175	178	175	173	175	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													

Table 3

GEOMEMBRANE FIELD SEAM DESTRUCTIVE TEST SUMMARY

Project: Sarasota CCSWDC, Phase 1 Closure

File No.: 09-7375

Sample	Date Received	Material Type	Weld Type	Weld	Item	Peel Test 1	Peel Test 2	Peel Test 3	Peel Test 4	Peel Test 5	Peel Test Avg.	Shear Test 1	Shear Test 2	Shear Test 3	Shear Test 4	Shear Test 5	Shear Test Avg.	Pass/ Fail
DT-285	08/05/12	TPO	Fw	T	Load (ppi)	50	51	53	50	52	51	180	192	188	191	184	187	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-286	08/05/12	TPO	Fw	T	Load (ppi)	61	57	57	55	50	56	178	174	171	180	182	177	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-287	08/05/12	TPO	Fw	T	Load (ppi)	61	57	57	58	55	58	172	176	184	177	182	178	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-288	08/05/12	TPO	Fw	T	Load (ppi)	47	52	51	53	54	51	176	174	176	175	178	176	P
					Mode						---						---	
				B	Load (ppi)													
					Mode													
DT-289	08/05/12	TPO	Fw	T	Load (ppi)	50	50	51	52	52	51	193	188	190	175	175	184	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-290	08/05/12	TPO	Fw	T	Load (ppi)	47	50	50	51	50	50	179	176	174	179	178	177	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-291	08/05/12	TPO	Fw	T	Load (ppi)	47	48	47	53	51	49	190	188	179	180	181	184	P
					Mode	DEL	DEL	DEL	DEL		---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-292	08/05/12	TPO	Fw	T	Load (ppi)	57	57	63	62	58	59	176	175	174	178	183	177	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-293A	09/06/12	60 mil HDPE	F	T	Load (ppi)	128	120	129	123	132	126	163	161	158	160	159	160	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	BRK	SE1	---	
				B	Load (ppi)	108	116	117	125	123	118							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-294	09/06/12	60 mil HDPE	F	T	Load (ppi)	123	114	121	122	129	122	173	172	173	172	172	172	P
					Mode	SE1	SE1	SE1	SE1	SE1	---	SE1	SE1	SE1	SE1	SE1	---	
				B	Load (ppi)	132	112	130	134	133	128							
					Mode	SE1	SE1	SE1	SE1	SE1	---							
DT-295	09/06/12	60 mil HDPE	F	T	Load (ppi)	136	133	125	104	107	121	148	142	146	137	156	146	P
					Mode	SE3	SE3	AD-BRK	SE3	SE3	---	SE2	SE2	SE2	SE2	BRK2	---	
				B	Load (ppi)													
					Mode													
DT-296	09/11/12	TPO	Fw	T	Load (ppi)	54	52	51	53	57	53	186	188	193	191	190	190	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-297	09/11/13	TPO	Fw	T	Load (ppi)	61	57	58	59	55	58	189	191	189	192	184	189	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-298	09/11/12	TPO	Fw	T	Load (ppi)	54	50	58	58	58	56	195	189	184	194	193	191	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-299	09/11/12	TPO	Fw	T	Load (ppi)	54	50	55	56	57	54	184	189	191	188	187	188	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-300	09/11/12	TPO	Fw	T	Load (ppi)	48	50	51	53	52	51	189	191	193	191	187	190	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													

Table 3

GEOMEMBRANE FIELD SEAM DESTRUCTIVE TEST SUMMARY

Project: Sarasota CCSWDC, Phase 1 Closure

File No.: 09-7375

Sample	Date Received	Material Type	Weld Type	Weld	Item	Peel Test 1	Peel Test 2	Peel Test 3	Peel Test 4	Peel Test 5	Peel Test Avg.	Shear Test 1	Shear Test 2	Shear Test 3	Shear Test 4	Shear Test 5	Shear Test Avg.	Pass/ Fail
DT-301	09/11/12	TPO	Fw	T	Load (ppi)	47	53	51	50	51	50	189	191	194	189	191	191	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-302	09/14/12	TPO	Fw	T	Load (ppi)	52	54	60	58	59	57	189	186	193	186	188	188	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-303	09/11/12	TPO	Fw	T	Load (ppi)	61	60	63	62	60	61	184	194	196	193	189	191	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-304	09/14/12	TPO	Fw	T	Load (ppi)	59	59	60	62	61	60	196	194	191	190	188	192	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-305	09/14/12	TPO	Fw	T	Load (ppi)	46	50	52	53	50	50	185	185	188	184	188	186	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-306	09/14/12	TPO	Fw	T	Load (ppi)	56	57	55	54	51	55	188	184	186	186	185	186	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-307	09/11/12	TPO	Fw	T	Load (ppi)	62	60	62	58	57	60	184	187	185	189	188	187	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-308	09/19/12	TPO	Fw	T	Load (ppi)	53	54	56	57	59	56	187	185	188	186	187	187	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-309	09/19/12	TPO	Fw	T	Load (ppi)	57	52	58	60	58	57	188	186	188	190	191	189	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-310	09/19/12	TPO	Fw	T	Load (ppi)	48	52	56	53	58	53	188	184	186	187	188	187	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-311	09/19/12	TPO	Fw	T	Load (ppi)	57	58	60	59	58	58	188	189	188	190	191	189	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-312	09/21/12	TPO	Fw	T	Load (ppi)	62	57	54	55	55	57	176	173	172	174	178	175	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-313	09/22/12	TPO	Fw	T	Load (ppi)	47	59	58	52	49	53	195	196	188	181	176	187	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-314	09/19/12	TPO	Fw	T	Load (ppi)	55	50	58	53	58	55	188	190	190	190	189	189	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-315	09/19/12	TPO	Fw	T	Load (ppi)	57	58	59	61	57	58	185	185	188	186	187	186	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-316	09/19/12	TPO	Fw	T	Load (ppi)	60	57	57	56	55	57	184	185	188	188	186	186	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													

Table 3

GEOMEMBRANE FIELD SEAM DESTRUCTIVE TEST SUMMARY

Project: Sarasota CCSWDC, Phase 1 Closure

File No.: 09-7375

Sample	Date Received	Material Type	Weld Type	Weld	Item	Peel Test 1	Peel Test 2	Peel Test 3	Peel Test 4	Peel Test 5	Peel Test Avg.	Shear Test 1	Shear Test 2	Shear Test 3	Shear Test 4	Shear Test 5	Shear Test Avg.	Pass/ Fail
DT-317	09/19/12	TPO	Fw	T	Load (ppi)	53	54	50	54	55	53	188	189	190	190	190	189	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-318	09/20/12	TPO	Fw	T	Load (ppi)	45	45	54	46	49	48	189	187	186	185	184	186	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-319	09/19/12	TPO	Fw	T	Load (ppi)	53	54	50	51	50	52	185	185	189	188	187	187	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-320	09/19/12	TPO	Fw	T	Load (ppi)	61	62	62	61	56	60	188	191	188	189	187	189	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-321	09/19/12	TPO	Fw	T	Load (ppi)	60	59	61	62	61	61	184	188	185	186	188	186	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-322	09/21/12	TPO	Fa	T	Load (ppi)	65	63	64	65	66	65	160	170	168	161	163	164	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-323	09/22/12	TPO	Fa	T	Load (ppi)	61	59	62	62	66	62	155	150	146	141	150	148	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-324	09/24/12	TPO	Fa	T	Load (ppi)	41	51	53	51	50	49	186	184	191	189	188	188	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-325	09/24/12	TPO	Fa	T	Load (ppi)	55	58	52	51	54	54	185	188	184	188	191	187	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-326	09/24/12	TPO	Fa	T	Load (ppi)	59	56	49	52	51	53	191	189	184	191	193	190	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-327	09/21/12	TPO	Fa	T	Load (ppi)	63	60	56	42	56	55	113	114	116	116	115	115	FI
					Mode	AD-DEL	AD-DEL	AD-DEL	AD-DEL	AD-DEL	---	BRK	BRK	BRK	BRK	BRK	---	
					Peel (%)	25	25	25	75	50	---	---	---	---	---	---	---	
				B	Load (ppi)													
					Mode													
DT-327A	10/11/12	TPO	Fa	T	Load (ppi)	56	57	55	59	60	57	185	184	181	191	185	185	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-327B	10/11/12	TPO	Fa	T	Load (ppi)	57	57	58	60	57	58	184	184	186	187	187	186	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-328	09/24/12	TPO	Fa	T	Load (ppi)	50	51	53	50	48	50	189	192	194	185	188	190	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-329	09/21/12	TPO	Fa	T	Load (ppi)	53	44	49	51	72	54	153	158	150	152	155	154	P
					Mode	AD	AD	AD	AD	AD-DEL	---	BRK	BRK	BRK	BRK	BRK	---	
					Peel (%)	100	100	100	100	75	---	---	---	---	---	---	---	
				B	Load (ppi)													
					Mode													

Table 3

GEOMEMBRANE FIELD SEAM DESTRUCTIVE TEST SUMMARY

Project: Sarasota CCSWDC, Phase 1 Closure

File No.: 09-7375

Sample	Date Received	Material Type	Weld Type	Weld	Item	Peel Test 1	Peel Test 2	Peel Test 3	Peel Test 4	Peel Test 5	Peel Test Avg.	Shear Test 1	Shear Test 2	Shear Test 3	Shear Test 4	Shear Test 5	Shear Test Avg.	Pass/ Fail
DT-330	09/21/12	TPO	Fa	T	Load (ppi)	42	59	34	30	60	45	170	172	171	177	187	175	P
					Mode	AD	AD-DEL	AD	AD	AD-DEL	---	BRK	BRK	BRK	BRK	BRK	---	
					Peel (%)	100	50	100	100	50	---	---	---	---	---	---	---	
				B	Load (ppi)													
					Mode													
DT-331	09/21/12	TPO	Fa	T	Load (ppi)	27	32	21	18	26	25	131	130	128	131	125	129	Fl
					Mode	AD	AD	AD	AD	AD	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-331A	10/11/12	TPO	Fa	T	Load (ppi)	61	59	55	56	50	56	184	194	188	188	185	188	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-331B	10/11/12	TPO	Fa	T	Load (ppi)	63	61	62	57	57	60	191	184	185	186	188	187	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-332	09/21/12	TPO	Fa	T	Load (ppi)	59	56	49	52	51	53	191	189	184	191	193	190	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-333	09/21/12	TPO	Fa	T	Load (ppi)	60	59	62	61	57	60	137	149	139	141	152	144	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-334	09/21/12	TPO	Fw	T	Load (ppi)	51	59	53	53	50	53	178	171	177	183	175	177	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-335	10/11/12	TPO	Fa	T	Load (ppi)	57	57	56	55	54	56	194	194	191	190	185	191	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-336	10/11/12	TPO	Fw	T	Load (ppi)	54	57	57	59	60	57	187	188	190	188	186	188	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-337	10/11/12	TPO	Fa	T	Load (ppi)	60	62	59	60	57	60	185	188	188	186	187	187	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-338	10/11/12	TPO	Fw	T	Load (ppi)	55	54	59	61	62	58	184	185	188	188	185	186	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-339	10/11/12	TPO	Fa	T	Load (ppi)	53	59	60	61	57	58	185	188	188	185	191	187	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-340	10/11/12	TPO	Fa	T	Load (ppi)	56	58	59	59	57	58	184	185	187	186	185	185	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-341	10/11/12	TPO	Fa	T	Load (ppi)	49	58	52	51	52	52	184	188	188	185	184	186	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-342	10/11/12	TPO	Fw	T	Load (ppi)	57	56	57	58	53	56	186	188	188	186	190	188	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-343	10/11/12	TPO	Fa	T	Load (ppi)	56	50	60	62	57	57	185	188	184	186	186	186	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													

Table 3

GEOMEMBRANE FIELD SEAM DESTRUCTIVE TEST SUMMARY

Project: Sarasota CCSWDC, Phase 1 Closure

File No.: 09-7375

Sample	Date Received	Material Type	Weld Type	Weld	Item	Peel Test 1	2	3	4	5	Avg.	Shear Test 1	2	3	4	5	Avg.	Pass/ Fail
DT-344	10/11/12	TPO	Fw	T	Load (ppi)	57	58	60	61	55	58	184	185	186	186	186	185	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-345	10/11/12	TPO	Fa	T	Load (ppi)	49	58	57	57	57	56	184	191	185	186	186	186	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-346	10/11/12	TPO	Fa	T	Load (ppi)	59	59	60	61	57	59	188	185	187	186	184	186	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-347	10/11/12	TPO	Fa	T	Load (ppi)	57	58	59	58	60	58	182	184	185	186	188	185	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-348	10/11/12	TPO	Fw	T	Load (ppi)	62	60	61	57	58	60	188	185	191	185	188	187	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-349	10/11/12	TPO	Fa	T	Load (ppi)	59	56	55	54	59	57	183	185	188	184	184	185	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-350	10/11/12	TPO	Fa	T	Load (ppi)	58	57	56	55	54	56	194	191	190	190	188	191	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-351	10/11/12	TPO	Fw	T	Load (ppi)	63	59	61	61	57	60	188	185	188	185	186	186	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-352	10/11/12	TPO	Fw	T	Load (ppi)	57	58	59	61	60	59	184	185	186	187	186	186	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-353	10/11/12	TPO	Fa	T	Load (ppi)	60	56	57	58	59	58	185	188	186	187	184	186	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-354	10/11/12	TPO	Fa	T	Load (ppi)	61	61	60	57	61	60	184	185	183	185	186	185	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-355	10/11/12	TPO	Fw	T	Load (ppi)	49	50	53	50	53	51	182	185	184	184	181	183	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-356	10/16/12	TPO	Fa	T	Load (ppi)	55	55	48	50	51	52	194	195	190	192	191	192	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-357	10/16/12	TPO	Fw	T	Load (ppi)	50	53	54	50	50	51	190	192	192	190	191	191	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-358	10/16/12	TPO	Fw	T	Load (ppi)	50	50	53	54	50	51	184	188	188	187	188	187	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-359	10/16/12	TPO	Fw	T	Load (ppi)	47	51	52	54	56	52	185	186	187	187	188	187	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													

Table 3

GEOMEMBRANE FIELD SEAM DESTRUCTIVE TEST SUMMARY

Project: Sarasota CCSWDC, Phase 1 Closure

File No.: 09-7375

Sample	Date Received	Material Type	Weld Type	Weld	Item	Peel Test 1	2	3	4	5	Avg.	Shear Test 1	2	3	4	5	Avg.	Pass/ Fail
DT-360	10/16/12	TPO	Fa	T	Load (ppi)	49	50	53	57	58	53	191	189	185	188	188	188	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-361	10/16/12	TPO	Fa	T	Load (ppi)	62	50	50	53	50	53	190	193	192	191	192	192	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-362	10/16/12	TPO	Fw	T	Load (ppi)	46	50	53	50	53	50	191	190	189	185	188	189	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-363	10/16/12	TPO	Fw	T	Load (ppi)	50	51	50	47	53	50	185	188	186	193	190	188	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-364	10/16/12	TPO	Fa	T	Load (ppi)	61	57	57	55	49	56	183	189	191	190	186	188	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-365	10/16/12	TPO	Fa	T	Load (ppi)	50	52	50	53	54	52	186	187	185	185	187	186	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													
DT-366	10/16/12	TPO	Fw	T	Load (ppi)	55	60	57	58	57	57	184	185	187	188	185	186	P
					Mode	DEL	DEL	DEL	DEL	DEL	---	BRK	BRK	BRK	BRK	BRK	---	
				B	Load (ppi)													
					Mode													

For HDPE & LLDPE fusion welds:
AD - Adhesion failure
BRK - Break in sheeting. Break can be in either top or bottom sheet.
SE1 - Break in outer edge of seam. Break can be in either top or bottom sheet.
SE2 - Break at inner edge of seam through both sheets.
AD-BRK - Break in first seam after some adhesion failure. Break can be in either top or bottom sheet.
SIP - Separation in the plane of the sheet. Break can be in either top or bottom sheet.

For HDPE & LLDPE extrusion welds:
AD1 - Failure in adhesion to bottom sheet.
AD2 - Failure in adhesion to top sheet.
AD-WLD - Break through the fillet.
SE1 - Break at seam edge in the bottom sheet (applicable to shear only).
SE2 - Break at seam edge in the top sheet (applicable to shear only).
SE3 - Break at seam edge in the bottom sheet (applicable to peel only).
BRK1 - Break in the bottom sheeting. A "B" in parenthesis following the code means the specimen broke in the buffed area.
BRK2 - Break in the top sheeting. A "B" in parenthesis following the code means the specimen broke in the buffed area.
AD-BRK - Break in the bottom sheeting after some adhesion failure between the fillet and the bottom sheet.
HT - Break in the edge of the hot tack for specimens which could not be delaminated in the hot tack.
SIP - Separation in the plane of the sheet.

For TPO fusion welds:
AD - Adhesion failure
AD-DEL - Delamination after some adhesion failure
BRK - Break in sheeting. Break can be in either top or bottom sheet.
DEL - Delamination of sheet

Weld Types:
F - Fusion
E - Extrusion
Fw - Hot wedge (fusion) weld on TPO
Fa - Hot air (fusion) weld on TPO
T - Top sheet
B - Bottom sheet (if applicable)

Pass/Fail:
P - Pass
Fl - Fail

Table 4

Summary of Drainage Sand Test Results

Project : Sarasota County Phase I Landfill Closure

File 09-7375

Sample I.D.	Sampled By	Date Sampled	Sample Source/location	Soil Description	Percent (%) Passing Sieve Size (ASTM D422)										* Hydraulic Conductivity (cm/sec) (ASTM D2434)	Carbonate Content (%) (ASTM D4373
					3/4"	3/8"	No. 4	No. 10	No. 20	No. 40	No. 60	No. 100	No. 140	No. 200		
PS-12 ***	Thalle	01/10/12	Drainage sand for geosynthetic interface friction (at mine)	white fine sand, trace fine shell fragments	100.0	100.0	99.9	99.3	96.5	93.2	90.7	72.1	---	2.6		
PS-13 ***	Thalle	01/24/12	Drainage sand for material compliance (at mine)	very pale brown fine sand with silt, trace shell fragments and clay lumps	100.0	100.0	100.0	99.9	99.3	97.6	94.9	64.9	17.9	5.4	6.7E-04 ** @ 94.7 pcf	6.1
PS-24 ***	Thalle	02/20/12	Drainage (Farabee) sand for material compliance (at mine)	white fine sand, trace fine shell fragments	100.0	100.0	99.7	99.3	97.4	95.5	93.1	59.1	11.7	3.0	2.9E-03 ** @ 94.6 pcf	6.0
DS-1	CS	04/03/12	Drainage (Farabee) sand for quality assurance (at site)	brown fine sand, trace shell fragments	100.0	99.9	99.7	98.9	96.6	94.0	90.0	36.6	10.9	4.5	9.2E-03 @ 95.1 pcf	6.9
DS-2	CS	03/30/12	Drainage (Farabee) sand for quality assurance (at site)	white fine sand, trace fine shell fragments	100.0	100.0	99.8	98.1	94.2	90.4	86.6	58.3	16.4	4.7		
DS-3	CS	04/13/12	Drainage (Farabee) sand for quality assurance (at site)	pale brown fine sand with silt, trace shell fragments	100.0	100.0	99.9	99.1	97.1	94.2	90.3	57.6	17.3	5.9		
DS-4	CS	04/13/12	Drainage (Farabee) sand for quality assurance (at site)	pale brown fine sand with silt, trace shell fragments	100.0	100.0	99.3	98.2	95.6	92.5	88.7	56.1	15.3	5.2		
DS-5	CS	04/19/12	Drainage (Farabee) sand for quality assurance (at site)	pale brown fine sand with silt, trace shell fragments	100.0	100.0	100.0	99.9	98.8	96.2	91.8	65.7	25.4	8.2	7.5E-03 @ 95.1 pcf	
DS-6	CS	04/19/12	Drainage (Farabee) sand for quality assurance (at site)	white fine sand with silt, trace shell fragments	100.0	100.0	99.3	98.0	95.8	92.8	88.7	63.3	20.9	5.7		
DS-7	CS	05/23/12	Drainage (Farabee) sand for quality assurance (at site)	pale brown fine sand with silt & shell fragments	100.0	100.0	93.2	83.2	77.4	74.6	70.7	43.3	15.4	5.1	5.5E-03 @ 95.1 pcf	
DS-8	CS	06/15/12	Drainage (Farabee) sand for quality assurance (at site)	pale brown fine sand with silt & trace shell fragments	100.0	100.0	99.8	99.5	97.8	94.4	89.6	49.8	18.3	6.4	1.2E-02 @ 95.0 pcf	
DS-9	CS	09/12/12	Drainage (Farabee) sand for quality assurance (at site)	very pale brown fine sand trace shell fragments	100.0	100.0	99.6	96.3	88.3	82.3	77.6	53.2	14.8	3.0		
DS-10	CS	09/12/12	Drainage (Farabee) sand for quality assurance (at site)	very pale brown fine sand trace shell fragments	100.0	99.8	97.9	94.6	85.9	79.9	74.3	39.7	11.2	3.2	1.5E-02 @ 95.0 pcf	

* Hydraulic conductivity (cm/sec) at test specimen dry density (pcf).
** By ASTM D5084.
*** See Table 5 for standard Proctor compaction test results.

Table 5

SUMMARY OF PROCTOR COMPACTION TEST RESULTS AND SIEVE ANALYSIS OF SOIL SAMPLES

Sarasota County Phase I Landfill Closure

File 09-7375

Sample I.D.	Sampled By	Date Sampled	Date Tested	Sample Source/Location	Soil Description	Unified Soil Classif. (ASTM D2487)	Percent (%) Passing Sieve Size (ASTM D422)									Proctor Test Results (ASTM D698)	
							3/4"	3/8"	No. 4	No. 10	No. 20	No. 40	No. 60	No. 100	No. 200	Max. Dry Density (pcf)	Opt. Moisture (%)
PS-1	CS	11/17/11	11/22/11	Phase 5, Borrow Area B, hole #1	dark gray fine sand with silt, trace organics	SP-SM	100.0	100.0	100.0	100.0	99.9	97.7	87.7	59.5	8.8	107.0	14.2
PS-2	CS	11/17/11	11/22/11	Phase 5, Borrow Area B, hole #6	light brownish gray fine sand with silt, trace root hairs	SP-SM	100.0	100.0	100.0	99.9	99.7	97.9	88.8	63.4	9.7	108.5	13.8
PS-3	CS	11/17/11	11/22/11	Phase 5, Borrow Area B, hole #6	brownish yellow clayey silty fine sand, trace light gray fine sand	SM-SC	100.0	100.0	100.0	99.9	99.6	97.8	89.7	64.8	16.1	113.9	14.3
PS-4	CS	11/17/11	11/22/11	Phase 5, Borrow Area B, hole #8	very dark gray fine sand with silt, trace shell fragments & organics	SP-SM	100.0	100.0	100.0	99.9	99.8	98.1	89.7	66.2	10.0	107.8	13.6
PS-5	CS	12/12/11	12/15/11	Stockpile, south side	dark grayish brown fine sand with silt, trace clayey sand and root hairs	SP-SM	100.0	100.0	100.0	100.0	99.8	97.6	88.4	61.3	10.8	109.8	14.2
PS-6	CS	12/12/11	12/15/11	Stockpile, north side	dark grayish brown fine sand with silt, trace silty clayey sand & root hairs	SP-SM	100.0	100.0	100.0	100.0	99.8	97.7	88.0	62.3	10.2	108.2	13.7
PS-7	CS	12/12/11	12/15/11	Ramp road, lower section	very dark gray fine sand with silt, trace silty clayey sand and root hairs	SP-SM	100.0	100.0	100.0	100.0	99.9	97.6	88.2	61.3	10.9	108.4	12.8
PS-8	CS	12/12/11	12/16/11	Ramp road, high section	dark gray fine sand with silt, trace silty clayey sand and root hairs	SP-SM	100.0	100.0	100.0	100.0	99.9	97.7	88.3	61.0	10.0	107.5	13.5
PS-9	CS	12/16/11	12/19/11	In place, northeast area	dark gray fine sand with silt, trace silty clayey sand and organics	SP-SM	100.0	100.0	100.0	100.0	99.9	98.1	89.9	63.7	11.1	109.0	13.9
PS-10	CS	12/21/11	12/23/11	Stockpile, southwest area	dark brown fine sand with silt, trace silty clayey sand and root hairs	SP-SM	100.0	100.0	100.0	100.0	99.9	98.0	89.6	63.1	11.2	109.7	12.5
PS-11	CS	11/17/11 11/21/11	12/30/11	Composite sample for interface friction tests	grayish brown fine sand with silt, trace silty clayey sand	SP-SM	100.0	100.0	100.0	100.0	99.8	97.9	88.4	63.0	9.3	110.0	12.6
PS-12	Thalle	01/10/12	01/16/12	Drainage sand for interface friction tests	white fine sand, trace fine shell fragments	SP	see Table 4									98.4	15.4
PS-13	Thalle	01/24/12	01/27/12	Drainage sand for sieve and permeability	very pale brown fine sand with silt, trace shell fragments and clay lumps	SP-SM	see Table 4									100.1	17.4
PS-14	CS	02/02/12	02/08/12	Stockpile, west side	black silty fine sand with organics, * trace shell	SM *	100.0	100.0	99.6	99.3	98.7	96.0	86.4	64.5	19.8	101.5	18.7
PS-15	CS	02/02/12	02/09/12	Stockpile, south side	grayish brown fine sand with silt, trace clay and root hairs	SP-SM	100.0	100.0	100.0	100.0	99.8	98.1	89.7	64.3	10.2	108.0	14.1
SV-16	HDR	02/08/12	02/10/12	Stockpile	yellowish brown fine sand with silt, trace clay and organics	SP-SM	100.0	100.0	99.8	99.8	99.6	98.1	90.2	65.5	8.9		
SV-17	HDR	02/08/12	02/10/12	Borrow area, Phase V-B	brown silty fine sand, trace clay and roots	SM	100.0	100.0	100.0	99.9	99.6	97.4	88.0	59.9	12.2		
PS-18	CS	02/27/12	03/01/12	Top of Phase 1, north	dark grayish brown fine sand with silt, clayey sand lumps	SP-SM	100.0	100.0	100.0	100.0	99.8	97.9	89.3	63.1	11.9	111.1	12.8
PS-19	CS	02/27/12	03/01/12	Top of Phase 1, south	very dark gray fine sand with silt, trace organics	SP-SM	100.0	100.0	99.8	99.7	99.5	97.5	89.1	62.0	11.4	109.2	12.0

Table 5

SUMMARY OF PROCTOR COMPACTION TEST RESULTS AND SIEVE ANALYSIS OF SOIL SAMPLES

Sarasota County Phase I Landfill Closure

File 09-7375

Sample I.D.	Sampled By	Date Sampled	Date Tested	Sample Source/Location	Soil Description	Unified Soil Classif. (ASTM D2487)	Percent (%) Passing Sieve Size (ASTM D422)									Proctor Test Results (ASTM D698)	
							3/4"	3/8"	No. 4	No. 10	No. 20	No. 40	No. 60	No. 100	No. 200	Max. Dry Density (pcf)	Opt. Moisture (%)
PS-20	CS	02/27/12	03/02/12	Top of Phase 1, west	dark gray fine sand with silt, trace clay, rock, shell, organics, debris	SP-SM	100.0	99.3	98.6	97.9	97.1	94.3	84.8	59.8	11.5	106.9	14.4
PS-21	CS	02/27/12	03/04/12	Top of Phase 1, east	grayish brown fine sand with silt, trace clayey sand	SP-SM	100.0	100.0	100.0	100.0	99.8	97.8	90.6	63.2	10.7	108.5	12.1
PS-22	CS	02/27/12	03/04/12	West (new) stockpile, south side	very dark gray to black fine sand with silt, trace clayey sand & organics	SP-SM	100.0	100.0	100.0	100.0	99.8	97.6	89.8	62.2	11.5	109.0	13.2
PS-23	CS	02/27/12	03/04/12	West (new) stockpile, north side	black fine sand with silt, trace clayey sand & organics	SP-SM	100.0	100.0	100.0	100.0	99.9	97.7	89.8	62.3	11.5	109.2	13.6
PS-24	Thalle	02/20/12	03/05/12	Drainage (Farabee) sand for permeability	white fine sand, trace fine shell fragments	SP	see Table 4									98.4	19.0
PS-25	CS	03/15/12	03/19/12	Borrow area Phase V, Area A north end	dark yellowish brown clayey fine sand	SC	100.0	100.0	99.9	99.9	99.7	98.0	91.7	70.1	15.6	114.4	13.7
SV-26	HDR	03/30/12	04/05/12	Borrow area, Phase V, Area C, southwest corner, 0-2'	light gray fine sand	SP	100.0	100.0	100.0	100.0	99.9	97.0	83.6	53.2	4.6		
SV-27	HDR	03/30/12	04/05/12	Borrow area, Phase V, Area C, southwest corner, 2'-4'	light gray fine sand with silt	SP-SM	100.0	100.0	100.0	100.0	99.8	96.9	84.8	55.5	5.2		
SV-28	HDR	03/30/12	04/05/12	Borrow area, Phase V, Area C, west side, 0-2'	pale brown fine sand with silt	SP-SM	100.0	100.0	99.8	99.8	99.7	97.0	85.0	55.6	5.6		
SV-29	HDR	03/30/12	04/05/12	Borrow area, Phase V, Area C, west side, 2'-4'	pale brown fine sand with silt	SP-SM	100.0	100.0	99.9	99.9	99.7	97.0	85.1	56.0	5.6		
PS-30	HDR	03/29/12	04/06/12	Borrow area, Phase V, Area C, northwest corner, 2'-4'	pale brown & light gray fine sand with silt	SP-SM	100.0	100.0	100.0	100.0	99.9	97.5	87.2	60.5	11.2	109.4	14.0
PS-31	HDR	03/29/12	04/06/12	Borrow area, Phase V, Area C, east side	white fine sand, trace root hairs	SP	100.0	100.0	100.0	100.0	99.9	97.3	84.9	53.5	4.8	102.6	15.9
PS-32	HDR	03/29/12	04/06/12	Borrow area, Phase V, Area C, northeast corner, 0-2'	grayish brown silty fine sand with clayey sand lumps	SM	100.0	100.0	100.0	100.0	99.9	97.6	87.2	60.6	13.0	110.4	14.6
PS-33	HDR	03/29/12	04/06/12	Borrow area, Phase V, Area C, northeast corner, 2'-4'	black fine sand with silt, trace organics	SP-SM	100.0	100.0	100.0	100.0	99.9	97.6	87.0	59.8	10.6	107.3	13.0
PS-34	HDR	03/29/12	04/05/12	Borrow area, Phase V, Area C, northwest corner, 0-2'	dark gray fine sand with silt, trace organics	SP-SM	100.0	100.0	100.0	100.0	99.9	97.5	87.0	60.9	11.8	106.3	13.8
PS-35	CS	04/18/12	04/20/12	Top of Phase 1, northeast corner	very dark gray/black fine sand with silt, trace organics	SP-SM	100.0	100.0	100.0	100.0	99.9	97.9	89.0	62.5	11.7	109.1	13.2
PS-36	CS	04/18/12	04/21/12	Top of Phase 1, southeast corner	brown fine sand with silt	SP-SM	100.0	100.0	100.0	100.0	99.8	98.1	90.9	66.8	10.6	108.3	13.2
PS-37	CS	04/19/12	04/21/12	Stockpile, west side	yellowish brown fine sand with clay, trace organics	SP-SC	100.0	100.0	99.9	99.8	99.6	96.9	86.2	59.5	10.8	110.8	14.0
PS-38	CS	04/19/12	04/24/12	Stockpile, east side	grayish brown fine sand with silt, trace clayey sand lumps	SP-SM	100.0	100.0	99.9	99.8	99.7	97.4	87.0	60.1	10.7	109.2	13.7

Table 5

SUMMARY OF PROCTOR COMPACTION TEST RESULTS AND SIEVE ANALYSIS OF SOIL SAMPLES

Sarasota County Phase I Landfill Closure

File 09-7375

Sample I.D.	Sampled By	Date Sampled	Date Tested	Sample Source/Location	Soil Description	Unified Soil Classif. (ASTM D2487)	Percent (%) Passing Sieve Size (ASTM D422)									Proctor Test Results (ASTM D698)	
							3/4"	3/8"	No. 4	No. 10	No. 20	No. 40	No. 60	No. 100	No. 200	Max. Dry Density (pcf)	Opt. Moisture (%)
PS-39	CS	05/07/12	05/23/12	Stockpile, east slope	yellowish brown fine sand with silt, trace gravel	SP-SM	100.0	99.5	99.4	99.3	99.1	96.8	86.4	59.1	10.4	109.7	12.8
PS-40	CS	05/07/12	05/23/12	Stockpile, north slope	yellowish brown fine sand with silt	SP-SM	100.0	100.0	100.0	99.9	99.7	97.2	86.3	58.6	9.8	109.6	12.9
PS-41	CS	05/22/12	05/23/12	Borrow area, Phase V, Area D, north portion	grayish brown fine sand with silt, trace organics	SP-SM	100.0	100.0	100.0	100.0	99.8	97.9	88.7	59.8	6.3	103.8	14.5
PS-42	CS	05/22/12	05/23/12	Borrow area, Phase V, Area D, middle portion	grayish brown fine sand with silt, trace organics	SP-SM	100.0	99.9	99.8	99.8	99.6	97.5	87.6	58.3	6.2	105.3	13.3
PS-43	CS	05/22/12	05/23/12	Borrow area, Phase V, Area D, south portion	gray fine sand with silt, trace organics	SP-SM	100.0	100.0	100.0	100.0	99.8	97.7	87.2	57.4	6.0	101.3	15.2
PS-44	CS	05/29/12	05/31/12	Borrow area, Phase II, northwest corner	grayish brown fine sand with silt	SP-SM	100.0	100.0	99.7	99.5	99.0	97.0	86.0	59.4	8.4	103.5	13.6
PS-45	CS	05/29/12	06/01/12	Borrow area, Phase II, northeast corner	grayish brown fine sand with silt	SP-SM	100.0	100.0	99.8	99.6	99.0	96.2	83.7	54.9	5.0	97.6	15.8
PS-46	CS	05/29/12	06/01/12	Borrow area, Phase II, southwest corner	grayish brown fine sand with silt	SP-SM	100.0	100.0	99.8	99.5	99.1	96.7	85.2	87.7	6.0	103.6	15.5
PS-47	CS	05/29/12	05/31/12	Borrow area, Phase II, southeast corner	dark grayish brown fine sand with silt	SP-SM	100.0	100.0	100.0	99.9	99.5	97.5	85.9	32.4	5.8	96.8	14.8
PS-48	CS	05/29/12	06/01/12	Borrow area, Phase II, center area	grayish brown fine sand with silt	SP-SM	100.0	100.0	100.0	99.7	99.5	97.8	87.2	46.1	5.8	99.6	16.1
PS-49	CS	06/29/12	07/02/12	Borrow area, Phase V, area C	brown fine sand with silt, trace gravel	SP-SM	100.0	100.0	99.5	99.4	99.2	96.7	85.9	57.8	11.0	110.5	12.3
PS-50	CS	09/12/12	09/22/12	Stockpile	dark grayish brown fine sand with silt, trace clay	SP-SM	100.0	100.0	99.7	99.6	99.1	96.5	86.2	58.3	9.6	108.2	12.5
PS-51	CS	10/12/12	10/16/12	Access road, subgrade	grayish brown fine sand with silt, trace clay	SP-SM	100.0	100.0	100.0	100.0	99.7	97.1	85.9	57.4	8.4	109.7 **	12.2 **
PS-52	CS	10/18/12	10/20/12	Stockpile	limerock base											130.0 **	7.8 **

* Organic content (ASTM D2974) = 4.9%

** by Modified Proctor test method (ASTM D1557)

Table 6

SUMMARY OF SOIL FIELD DENSITY TESTING

Project : Sarasota County Phase I Landfill Closure

File 09-7375

Test No.	Test Date	Material Code	Location Description	Lift or Depth	Test Type	Dry Density (pcf)	Field Moisture (%)	Proctor Max Density (pcf)	Percent Compaction	Lab Moisture (%)	Recalc. Dry Density (pcf)	Recalc. Percent Compaction	Remarks
1	16-Dec-11	IF	Ph.1 LF	1	N	107.8	14.0	108.5	99.4%				
2	16-Dec-11	IF	Ph.1 LF	1	N	107.5	13.3	108.5	99.1%				
3	16-Dec-11	IF	Ph.1 LF	1	N	107.1	11.5	108.5	98.7%				
4	21-Dec-11	IF	Ph.1 LF, NE quad	1	N	106.5	9.4	108.5	98.2%				
5	21-Dec-11	IF	Ph.1 LF, SE quad	1	N	107.0	8.7	108.5	98.6%				
6	21-Dec-11	IF	Ph.1 LF, SE quad	1	N	107.4	10.3	108.5	99.0%				
7	21-Dec-11	IF	Ph.1 LF, SE quad	1	N	106.8	11.4	108.5	98.4%				
8	21-Dec-11	IF	Ph.1 LF, NE quad	2	N	107.7	11.0	108.5	99.3%				
9	21-Dec-11	IF	Ph.1 LF, NE quad	2	N	106.6	10.7	108.5	98.2%				
10	29-Dec-11	IF	Ph.1 LF, cell 1 east	2	N	112.7	11.6	113.9	98.9%				
11	29-Dec-11	IF	Ph.1 LF, cell 1 east	2	N	111.0	8.7	113.9	97.5%				
12	29-Dec-11	IF	Ph.1 LF, cell 1 east	2	N	112.3	8.2	113.9	98.6%				
13	29-Dec-11	IF	Ph.1 LF, cell 1 east	2	N	110.6	9.9	113.9	97.1%				
14	29-Dec-11	IF	Ph.1 LF, cell 1 east	2	N	111.4	9.3	113.9	97.8%				
15	29-Dec-11	IF	Ph.1 LF, cell 1 east	2	N	110.6	11.0	113.9	97.1%				
16	29-Dec-11	IF	Ph.1 LF, cell 1 east	2	N	110.8	10.4	113.9	97.3%				
17	29-Dec-11	IF	Ph.1 LF, cell 1 east	2	N	110.3	10.7	113.9	96.8%				
18	29-Dec-11	IF	Ph.1 LF, cell 1 east	1	N	111.0	11.3	113.9	97.5%				
19	29-Dec-11	IF	Ph.1 LF, cell 1 east	1	N	110.7	11.0	113.9	97.2%				
20	29-Dec-11	IF	Ph.1 LF, cell 1 east	2	C	114.1	10.6	113.9	100.2%	7.8	117.1	102.8%	
21	29-Dec-11	IF	Ph.1 LF, cell 1 east	2	C	110.6	10.9	113.9	97.1%				
22	29-Dec-11	IF	Ph.1 LF, cell 1 east	2	N	112.1	11.6	113.9	98.4%				
23	29-Dec-11	IF	Ph.1 LF, cell 1 east	2	N	108.7	9.9	113.9	95.4%				
24	29-Dec-11	IF	Ph.1 LF, cell 1 west	1	N	110.0	11.7	113.9	96.6%				
25	29-Dec-11	IF	Ph.1 LF, cell 1 west	1	N	111.7	10.9	113.9	98.1%				
26	29-Dec-11	IF	Ph.1 LF, cell 1 west	1	N	112.3	10.1	113.9	98.6%				
27	29-Dec-11	IF	Ph.1 LF, cell 1 west	1	N	109.9	7.3	113.9	96.5%				
28	29-Dec-11	IF	Ph.1 LF, cell 1 west	1	N	108.8	12.3	113.9	95.5%				
29	29-Dec-11	IF	Ph.1 LF, cell 1 west	1	N	110.5	12.0	113.9	97.0%				
30	29-Dec-11	IF	Ph.1 LF, cell 1 west	1	N	111.8	10.2	113.9	98.2%				
31	29-Dec-11	IF	Ph.1 LF, cell 1 west	1	N	112.5	11.6	113.9	98.8%				
32	29-Dec-11	IF	Ph.1 LF, cell 1 west	1	N	109.1	12.8	113.9	95.8%				
33	29-Dec-11	IF	Ph.1 LF, cell 1 west	1	N	113.0	9.9	113.9	99.2%				
34L	29-Dec-11	BF	N of Ph.2 LF, leachate FM road crossing	2' AP	N	102.9	6.0	108.4	94.9%				shoulder of road crossing
35L	29-Dec-11	BF	W of Ph.2 LF, leachate FM road crossing	2' AP	N	107.8	7.3	108.4	99.4%				shoulder of road crossing
36L	29-Dec-11	BF	W of Ph.2 LF, leachate FM road crossing	2' AP	N	104.0	8.1	108.4	95.9%				shoulder of road crossing
37L	29-Dec-11	BF	W of Ph.2 LF, leachate FM road crossing	2' AP	N	105.5	6.5	108.4	97.3%				shoulder of road crossing
38L	29-Dec-11	BF	W of Ph.2 LF, leachate FM road crossing	2' AP	N	105.0	11.3	108.4	96.9%				shoulder of road crossing
39L	29-Dec-11	BF	W of Ph.2 LF, leachate FM road crossing	2' AP	N	105.4	8.9	108.4	97.2%				shoulder of road crossing
34	4-Jan-12	IF	Ph.1 LF, cell 1 west	1	N	109.5	10.2	108.8	100.6%				
35	4-Jan-12	IF	Ph.1 LF, cell 1 west	1	N	108.0	10.0	108.8	99.3%				
36	4-Jan-12	IF	Ph.1 LF, cell 1 west	1	N	107.7	10.4	108.8	99.0%				
37	4-Jan-12	IF	Ph.1 LF, cell 1 west	1	N	108.3	10.0	108.8	99.5%	10.3	108.0	99.3%	
38	4-Jan-12	IF	Ph.1 LF, cell 1 west	1	N	107.8	9.6	108.8	99.1%				
39	4-Jan-12	IF	Ph.1 LF, cell 1 west	1	N	108.8	8.3	108.8	100.0%				
40	4-Jan-12	IF	Ph.1 LF, cell 1 west	1	N	107.5	10.1	108.8	98.8%				
41	4-Jan-12	IF	Ph.1 LF, cell 1 west	1	N	105.8	8.1	108.8	97.2%				
42	4-Jan-12	IF	Ph.1 LF, cell 1 west	1	N	106.7	9.8	108.8	98.1%				
43	4-Jan-12	IF	Ph.1 LF, cell 1 west	1	N	108.7	7.5	108.8	99.9%				
44	4-Jan-12	IF	Ph.1 LF, cell 2 east	1	N	107.0	8.1	108.8	98.3%				

Table 6

SUMMARY OF SOIL FIELD DENSITY TESTING

Project : Sarasota County Phase I Landfill Closure

File 09-7375

Test No.	Test Date	Material Code	Location Description	Lift or Depth	Test Type	Dry Density (pcf)	Field Moisture (%)	Proctor Max Density (pcf)	Percent Compaction	Lab Moisture (%)	Recalc. Dry Density (pcf)	Recalc. Percent Compaction	Remarks
45	4-Jan-12	IF	Ph.1 LF, cell 2 east	1	N	107.3	8.6	108.8	98.6%				
46	4-Jan-12	IF	Ph.1 LF, cell 2 east	1	N	108.3	8.5	108.8	99.5%				
47	4-Jan-12	IF	Ph.1 LF, cell 2 east	1	N	107.3	11.9	108.8	98.6%				
48	4-Jan-12	IF	Ph.1 LF, cell 2 east	1	N	107.4	9.3	108.0	99.4%				
49	4-Jan-12	IF	Ph.1 LF, cell 2 east	1	N	106.8	10.4	108.0	98.9%				
50	4-Jan-12	IF	Ph.1 LF, cell 2 east	1	N	107.1	8.7	108.0	99.2%				
51	4-Jan-12	IF	Ph.1 LF, cell 2 east	1	N	105.8	9.9	108.0	98.0%				
52	4-Jan-12	IF	Ph.1 LF, cell 2 east	1	N	106.4	10.7	108.0	98.5%				
53	4-Jan-12	IF	Ph.1 LF, cell 2 east	1	N	105.2	11.3	108.0	97.4%				
54	4-Jan-12	IF	Ph.1 LF, cell 2 west	1	C	101.1	9.2	108.0	93.6%	10.1	100.3	92.8%	
55	4-Jan-12	IF	Ph.1 LF, cell 2 west	1	N	104.6	11.6	108.0	96.9%				
56	4-Jan-12	IF	Ph.1 LF, cell 2 west	1	N	104.1	10.7	108.0	96.4%				
57	4-Jan-12	IF	Ph.1 LF, cell 2 west	1	N	105.4	9.7	108.0	97.6%				
58	4-Jan-12	IF	Ph.1 LF, cell 2 west	1	N	105.9	10.3	108.0	98.1%				
59	4-Jan-12	IF	Ph.1 LF, cell 2 west	1	N	104.8	11.0	108.0	97.0%				
60	4-Jan-12	IF	Ph.1 LF, cell 2 west	1	N	106.2	9.9	108.0	98.3%				
61	4-Jan-12	IF	Ph.1 LF, cell 2 west	1	N	105.1	8.7	108.0	97.3%				
62	4-Jan-12	IF	Ph.1 LF, cell 2 west	1	N	104.4	11.6	108.0	96.7%				
63	4-Jan-12	IF	Ph.1 LF, cell 2 west	1	N	105.6	10.0	108.0	97.8%				
64	10-Jan-12	IF	Ph.1 LF, cell 3 east	1	N	106.0	9.4	107.0	99.1%				
65	10-Jan-12	IF	Ph.1 LF, cell 3 east	1	N	105.3	12.5	107.0	98.4%				
66	10-Jan-12	IF	Ph.1 LF, cell 3 east	1	N	104.7	10.1	107.0	97.9%				
67	10-Jan-12	IF	Ph.1 LF, cell 3 east	1	N	106.4	9.9	107.0	99.4%				
68	10-Jan-12	IF	Ph.1 LF, cell 3 east	1	N	102.9	10.4	107.0	96.2%				
69	10-Jan-12	IF	Ph.1 LF, cell 3 east	1	N	100.1	11.2	107.0	93.6%	11.8	99.6	93.0%	
70	10-Jan-12	IF	Ph.1 LF, cell 3 east	1	N	105.5	10.0	107.0	98.6%				
71	10-Jan-12	IF	Ph.1 LF, cell 3 east	1	C	108.0	10.1	107.0	100.9%				
72	10-Jan-12	IF	Ph.1 LF, cell 3 east	1	N	105.1	11.1	107.0	98.2%				
73	10-Jan-12	IF	Ph.1 LF, cell 3 east	1	N	104.3	10.6	107.0	97.5%				
74	10-Jan-12	IF	Ph.1 LF, cell 3 west	2	N	105.7	10.0	107.0	98.8%				
75	10-Jan-12	IF	Ph.1 LF, cell 3 west	2	N	104.0	9.1	107.0	97.2%				
76	10-Jan-12	IF	Ph.1 LF, cell 3 west	2	N	107.5	11.1	107.0	100.5%				
77	10-Jan-12	IF	Ph.1 LF, cell 3 west	2	N	105.5	9.1	107.0	98.6%				
78	10-Jan-12	IF	Ph.1 LF, cell 3 west	2	N	106.7	10.1	107.0	99.7%				
79	10-Jan-12	IF	Ph.1 LF, cell 3 west	2	N	104.8	9.9	107.0	97.9%				
80	10-Jan-12	IF	Ph.1 LF, cell 3 west	2	N	106.1	7.3	107.0	99.2%				
81	10-Jan-12	IF	Ph.1 LF, cell 3 west	2	N	105.0	12.6	107.0	98.1%				
82	10-Jan-12	IF	Ph.1 LF, cell 3 west	2	N	105.4	11.9	107.0	98.5%				
83	10-Jan-12	IF	Ph.1 LF, cell 3 west	1	N	106.3	10.7	107.0	99.3%				
84	10-Jan-12	IF	Ph.1 LF, cell 3 west	2	N	107.0	11.3	107.0	100.0%				
85	10-Jan-12	IF	Ph.1 LF, cell 3 west	1	N	105.9	10.6	107.0	99.0%				
86	10-Jan-12	IF	Ph.1 LF, cell 4 east	2	N	104.3	11.2	107.0	97.5%				
87	10-Jan-12	IF	Ph.1 LF, cell 4 east	1	N	106.3	10.7	107.0	99.3%				
88	10-Jan-12	IF	Ph.1 LF, cell 4 east	2	N	105.1	10.0	107.0	98.2%				
89	10-Jan-12	IF	Ph.1 LF, cell 4 east	1	N	104.6	9.7	107.0	97.8%				
90	10-Jan-12	IF	Ph.1 LF, cell 4 east	2	N	106.6	11.3	107.0	99.6%				
91	10-Jan-12	IF	Ph.1 LF, cell 4 east	1	N	104.9	10.7	107.0	98.0%				
92	10-Jan-12	IF	Ph.1 LF, cell 4 east	2	N	103.9	9.9	107.0	97.1%	11.0	102.9	96.1%	
93	10-Jan-12	IF	Ph.1 LF, cell 4 east	1	N	104.4	11.3	107.0	97.6%				
94	10-Jan-12	IF	Ph.1 LF, cell 4 east	2	N	105.6	11.0	107.0	98.7%				

Table 6

SUMMARY OF SOIL FIELD DENSITY TESTING

Project : Sarasota County Phase I Landfill Closure

File 09-7375

Test No.	Test Date	Material Code	Location Description	Lift or Depth	Test Type	Dry Density (pcf)	Field Moisture (%)	Proctor Max Density (pcf)	Percent Compaction	Lab Moisture (%)	Recalc. Dry Density (pcf)	Recalc. Percent Compaction	Remarks
95	10-Jan-12	IF	Ph.1 LF, cell 4 east	1	N	106.3	10.6	107.0	99.3%				
96	10-Jan-12	IF	Ph.1 LF, cell 3 west	1	N	106.9	11.2	107.0	99.9%				
97	10-Jan-12	IF	Ph.1 LF, cell 3 west	1	N	104.6	11.0	107.0	97.8%				
98	10-Jan-12	IF	Ph.1 LF, cell 3 west	1	N	104.0	10.3	107.0	97.2%				
99	10-Jan-12	IF	Ph.1 LF, cell 3 west	1	N	103.7	9.9	107.0	96.9%				
100	10-Jan-12	IF	Ph.1 LF, cell 3 west	1	C	101.7	11.1	107.0	95.0%				
101	10-Jan-12	IF	Ph.1 LF, cell 3 west	1	N	107.0	11.6	107.0	100.0%				
102	10-Jan-12	IF	Ph.1 LF, cell 3 west	1	N	106.3	11.0	107.0	99.3%				
103	10-Jan-12	IF	Ph.1 LF, cell 3 west	1	N	106.0	10.6	107.0	99.1%				
104	16-Jan-12	IF	Ph.1 LF, cell 1 north slope	1	N	101.7	14.3	109.0	93.3%				
105	16-Jan-12	IF	Ph.1 LF, cell 1 north slope	2	N	101.4	7.9	109.0	93.0%				
106	16-Jan-12	IF	Ph.1 LF, cell 1 north slope bench	1	N	108.0	10.1	109.0	99.1%				
107	16-Jan-12	IF	Ph.1 LF, cell 1 north slope bench	1	N	106.4	9.8	109.0	97.6%				
108	16-Jan-12	IF	Ph.1 LF, cell 1 north slope bench	1	N	107.2	10.3	109.0	98.3%				
109	16-Jan-12	IF	Ph.1 LF, cell 1 north slope bench	1	N	105.5	11.4	109.0	96.8%				
110	16-Jan-12	IF	Ph.1 LF, cell 1 north slope bench	1	N	106.7	10.0	109.0	97.9%				
111	16-Jan-12	IF	Ph.1 LF, cell 1 north slope bench	1	N	109.0	10.8	109.0	100.0%				
112	16-Jan-12	IF	Ph.1 LF, cell 1 north slope bench	1	N	107.3	9.7	109.0	98.4%				
113	16-Jan-12	IF	Ph.1 LF, cell 1 north slope bench	1	N	101.1	10.5	109.0	92.8%				
114	16-Jan-12	IF	Ph.1 LF, cell 1 north slope bench	1	N	103.6	10.1	109.0	95.0%				
115	16-Jan-12	IF	Ph.1 LF, cell 1 north slope bench	1	N	104.4	11.6	109.0	95.8%				
116	16-Jan-12	IF	Ph.1 LF, cell 1 north slope	2	N	106.3	11.2	109.0	97.5%				
117	16-Jan-12	IF	Ph.1 LF, cell 1 north slope	3	N	107.5	10.4	109.0	98.6%				
118	16-Jan-12	IF	Ph.1 LF, cell 1 north slope	3	N	106.6	11.0	109.0	97.8%				
119	16-Jan-12	IF	Ph.1 LF, cell 1 north slope	2	N	107.6	10.3	109.0	98.7%				
120	16-Jan-12	IF	Ph.1 LF, cell 1 north slope	2	C	112.3	10.3	109.0	103.0%	9.1	113.5	104.2%	
121	16-Jan-12	IF	Ph.1 LF, cell 1 north slope	3	N	108.6	9.9	109.0	99.6%				
122	16-Jan-12	IF	Ph.1 LF, cell 1 north slope	3	N	107.9	10.8	109.0	99.0%				
123	16-Jan-12	IF	Ph.1 LF, cell 1 north slope	2	N	107.0	11.4	109.0	98.2%				
124	24-Jan-12	IF	Ph.1 LF, east slope	1	N	108.3	11.0	110.0	98.5%				
125	24-Jan-12	IF	Ph.1 LF, east slope	1	N	109.1	8.7	110.0	99.2%				
126	24-Jan-12	IF	Ph.1 LF, east slope	1	N	102.4	12.1	110.0	93.1%				
127	24-Jan-12	IF	Ph.1 LF, east slope	1	N	105.7	10.7	110.0	96.1%				
128	24-Jan-12	IF	Ph.1 LF, east slope bench	1	N	105.1	12.3	110.0	95.5%				
129	24-Jan-12	IF	Ph.1 LF, east slope bench	1	N	106.6	11.7	110.0	96.9%				
130	24-Jan-12	IF	Ph.1 LF, east slope bench	1	N	107.5	10.6	110.0	97.7%				
131	24-Jan-12	IF	Ph.1 LF, east slope bench	1	C	104.6	12.5	110.0	95.1%	9.1	107.9	98.1%	
132	24-Jan-12	IF	Ph.1 LF, east slope below bench	1	N	107.0	11.0	110.0	97.3%				
133	24-Jan-12	IF	Ph.1 LF, east slope below bench	1	N	108.9	10.6	110.0	99.0%				
134	24-Jan-12	IF	Ph.1 LF, east slope below bench	1	N	108.1	9.9	110.0	98.3%				
135	24-Jan-12	IF	Ph.1 LF, east slope below bench	1	N	104.5	12.0	110.0	95.0%				
136	24-Jan-12	IF	Ph.1 LF, cell 1 east wing	2	N	107.4	10.3	110.0	97.6%				
137	1-Feb-12	IF	Ph.1 LF, east slope	1	N	107.7	12.1	109.0	98.8%				
138	1-Feb-12	IF	Ph.1 LF, east bench	1	N	106.3	11.4	109.0	97.5%				
139	1-Feb-12	IF	Ph.1 LF, 50' below east bench	1	N	105.7	10.9	109.0	97.0%				
140	1-Feb-12	IF	Ph.1 LF, east ridge	2	N	106.9	11.7	109.0	98.1%				
141	1-Feb-12	IF	Ph.1 LF, east ridge	2	N	105.1	10.9	109.0	96.4%				
142	1-Feb-12	IF	Ph.1 LF, east ridge	2	N	105.9	11.5	109.0	97.2%				
143	1-Feb-12	IF	Ph.1 LF, south ridge	2	N	106.6	10.7	109.0	97.8%				
144	1-Feb-12	IF	Ph.1 LF, south ridge	2	N	107.0	12.3	109.0	98.2%				

Table 6

SUMMARY OF SOIL FIELD DENSITY TESTING

Project : Sarasota County Phase I Landfill Closure

File 09-7375

Test No.	Test Date	Material Code	Location Description	Lift or Depth	Test Type	Dry Density (pcf)	Field Moisture (%)	Proctor Max Density (pcf)	Percent Compaction	Lab Moisture (%)	Recalc. Dry Density (pcf)	Recalc. Percent Compaction	Remarks
145	1-Feb-12	IF	Ph.1 LF, south ridge	2	N	104.8	11.6	109.0	96.1%				
146	1-Feb-12	IF	Ph.1 LF, south ridge	2	N	104.4	11.0	109.0	95.8%				
147	1-Feb-12	IF	Ph.1 LF, south ridge	2	N	106.2	10.3	109.0	97.4%				
148	1-Feb-12	IF	Ph.1 LF, south ridge	2	N	107.8	11.7	109.0	98.9%				
149	1-Feb-12	IF	Ph.1 LF, south ridge	2	N	105.6	12.0	109.0	96.9%				
150	1-Feb-12	IF	Ph.1 LF, south ridge	2	N	106.4	10.8	109.0	97.6%				
151	2-Feb-12	IF	Ph.1 LF, east ridge	1	N	106.8	12.9	109.0	98.0%				
152	2-Feb-12	IF	Ph.1 LF, east ridge	1	N	108.6	10.1	109.0	99.6%				
153	2-Feb-12	IF	Ph.1 LF, east ridge	1	N	107.3	11.3	109.0	98.4%				
154	2-Feb-12	IF	Ph.1 LF, east ridge	1	N	106.7	10.7	109.0	97.9%				
155	2-Feb-12	IF	Ph.1 LF, east ridge	1	N	105.8	10.9	109.0	97.1%				
156	2-Feb-12	IF	Ph.1 LF, south ridge	1	N	102.6	10.3	109.0	94.1%				
157	2-Feb-12	IF	Ph.1 LF, south ridge	1	N	103.3	11.3	109.0	94.8%				
158	2-Feb-12	IF	Ph.1 LF, south ridge	1	C	106.7	10.3	109.0	97.9%	9.2	107.8	98.9%	
159	2-Feb-12	IF	Ph.1 LF, south ridge	1	N	104.1	11.3	109.0	95.5%				
160	2-Feb-12	IF	Ph.1 LF, south ridge	1	N	106.9	10.6	109.0	98.1%				
161	2-Feb-12	IF	Ph.1 LF, south ridge	1	N	107.3	10.3	109.0	98.4%				
162	2-Feb-12	IF	Ph.1 LF, south ridge	1	N	102.4	12.4	109.0	93.9%				
163	8-Feb-12	IF	Ph.1 LF, west slope	1	N	106.4	10.7	108.2	98.3%				
164	8-Feb-12	IF	Ph.1 LF, west slope	1	N	100.9	10.5	108.2	93.3%				
165	8-Feb-12	IF	Ph.1 LF, west slope	1	N	102.2	10.1	108.2	94.5%				
166	8-Feb-12	IF	Ph.1 LF, west slope	1	N	105.7	12.1	108.2	97.7%				
167	8-Feb-12	IF	Ph.1 LF, west slope	1	N	106.9	12.4	108.2	98.8%				
168	8-Feb-12	IF	Ph.1 LF, west slope	1	N	105.0	11.2	108.2	97.0%				
169	8-Feb-12	IF	Ph.1 LF, west slope	1	N	104.7	10.3	108.2	96.8%				
170	8-Feb-12	IF	Ph.1 LF, west slope	1	N	106.6	11.1	108.2	98.5%				
171	8-Feb-12	IF	Ph.1 LF, west slope	1	N	107.3	10.6	108.2	99.2%				
172	8-Feb-12	IF	Ph.1 LF, west slope	1	N	105.9	12.4	108.2	97.9%				
173	8-Feb-12	IF	Ph.1 LF, south ridge	3	N	106.4	12.0	108.2	98.3%				
174	8-Feb-12	IF	Ph.1 LF, south ridge	3	N	105.2	11.7	108.2	97.2%				
175	8-Feb-12	IF	Ph.1 LF, south ridge	3	N	107.0	11.3	108.2	98.9%				
176	8-Feb-12	IF	Ph.1 LF, south ridge	3	N	106.2	12.3	108.2	98.2%				
177	8-Feb-12	IF	Ph.1 LF, south ridge	3	N	103.7	11.7	108.2	95.8%				
178	8-Feb-12	IF	Ph.1 LF, south ridge	3	N	102.8	13.1	108.2	95.0%				
179	8-Feb-12	IF	Ph.1 LF, south ridge	3	N	103.6	10.9	108.2	95.7%				
180	20-Feb-12	IF	Ph.1 LF, east slope b/w bench and ridge	1	C	113.9	10.4	113.9	100.0%	9.4	114.9	100.9%	
181	20-Feb-12	IF	Ph.1 LF, east slope bench	1	N	111.7	10.6	113.9	98.1%				
182	20-Feb-12	IF	Ph.1 LF, east slope below bench	1	N	110.3	11.4	113.9	96.8%				
183	20-Feb-12	IF	Ph.1 LF, south slope bench	1	N	111.9	11.0	113.9	98.2%				
184	20-Feb-12	IF	Ph.1 LF, south slope bench	1	N	106.0	10.7	107.8	98.3%				
185	20-Feb-12	IF	Ph.1 LF, south slope bench	1	N	105.4	10.9	107.8	97.8%				
186	20-Feb-12	IF	Ph.1 LF, south slope bench	1	N	106.7	9.9	107.8	99.0%				
187	20-Feb-12	IF	Ph.1 LF, south slope below bench	1	N	105.0	10.0	107.8	97.4%				
188	20-Feb-12	IF	Ph.1 LF, south slope below bench	1	N	104.4	10.2	107.8	96.8%				
189	20-Feb-12	IF	Ph.1 LF, south slope below bench	1	N	106.2	11.4	107.8	98.5%				
190	20-Feb-12	IF	Ph.1 LF, south slope below bench	1	N	107.0	10.1	107.8	99.3%				
191	20-Feb-12	IF	Ph.1 LF, south slope b/w bench and ridge	2	N	106.8	11.7	107.8	99.1%				
192	20-Feb-12	IF	Ph.1 LF, south slope b/w bench and ridge	2	N	104.6	11.0	107.8	97.0%				
193	20-Feb-12	IF	Ph.1 LF, south slope b/w bench and ridge	2	N	105.5	10.3	107.8	97.9%				
194	20-Feb-12	IF	Ph.1 LF, south slope b/w bench and ridge	2	N	105.3	9.8	107.8	97.7%				

Table 6

SUMMARY OF SOIL FIELD DENSITY TESTING

Project : Sarasota County Phase I Landfill Closure

File 09-7375

Test No.	Test Date	Material Code	Location Description	Lift or Depth	Test Type	Dry Density (pcf)	Field Moisture (%)	Proctor Max Density (pcf)	Percent Compaction	Lab Moisture (%)	Recalc. Dry Density (pcf)	Recalc. Percent Compaction	Remarks
195	20-Feb-12	IF	Ph.1 LF, south slope b/w bench and ridge	1	N	103.7	10.8	107.8	96.2%				
196	20-Feb-12	IF	Ph.1 LF, south slope b/w bench and ridge	1	N	104.1	13.1	107.8	96.6%				
197	20-Feb-12	IF	Ph.1 LF, south slope b/w bench and ridge	1	N	105.8	12.2	107.8	98.1%				
198	20-Feb-12	IF	Ph.1 LF, south slope b/w bench and ridge	1	N	105.5	13.0	107.8	97.9%				
199	27-Feb-12	IF	Ph.1 LF, east slope above bench	1	C	109.6	9.9	109.7	99.9%	8.8	110.7	100.9%	
200	27-Feb-12	IF	Ph.1 LF, east slope bench	1	N	108.3	11.2	109.7	98.7%				
201	27-Feb-12	IF	Ph.1 LF, east slope bench	1	N	107.7	10.6	109.7	98.2%				
202	27-Feb-12	IF	Ph.1 LF, east slope bench	1	N	106.9	7.9	109.7	97.4%				
203	27-Feb-12	IF	Ph.1 LF, east slope below bench	1	N	108.6	9.7	109.7	99.0%				
204	27-Feb-12	IF	Ph.1 LF, east slope above bench	1	N	103.3	8.5	109.7	94.2%				
205	27-Feb-12	IF	Ph.1 LF, south slope above bench	2	N	103.2	10.0	109.7	94.1%				
206	27-Feb-12	IF	Ph.1 LF, south slope above bench	2	N	105.6	9.5	109.7	96.3%				
207	27-Feb-12	IF	Ph.1 LF, south slope bench	1	N	107.9	12.1	109.7	98.4%				
208	27-Feb-12	IF	Ph.1 LF, south slope bench	1	N	99.7	14.4	109.7	90.9%				
209	27-Feb-12	IF	Ph.1 LF, north slope above bench	2	N	104.8	10.2	109.7	95.5%				
210	27-Feb-12	IF	Ph.1 LF, north slope bench	1	N	105.4	11.3	109.7	96.1%				
211	27-Feb-12	IF	Ph.1 LF, north slope bench	1	N	107.6	10.6	109.7	98.1%				
212	27-Feb-12	IF	Ph.1 LF, north slope bench	1	N	108.6	6.8	109.7	99.0%				
213	27-Feb-12	IF	Ph.1 LF, north slope above bench	2	N	106.1	6.3	109.7	96.7%				
214	27-Feb-12	IF	Ph.1 LF, north slope above bench	2	N	108.1	9.1	109.7	98.5%				
215	27-Feb-12	IF	Ph.1 LF, west ridge	1	N	107.2	10.7	108.0	99.3%				
216	27-Feb-12	IF	Ph.1 LF, west ridge	1	N	106.6	11.1	108.0	98.7%				
217	27-Feb-12	IF	Ph.1 LF, west ridge	1	N	105.1	10.3	108.0	97.3%				
218	27-Feb-12	IF	Ph.1 LF, west ridge	1	C	109.4	8.7	109.7	99.7%	10.4	103.7	94.5%	
219	27-Feb-12	IF	Ph.1 LF, west ridge	1	N	105.3	10.7	108.0	97.5%				
220	27-Feb-12	IF	Ph.1 LF, west wing	1	N	104.3	10.0	108.0	96.6%				
221	27-Feb-12	IF	Ph.1 LF, west wing	1	N	107.0	11.2	108.0	99.1%				
222	27-Feb-12	IF	Ph.1 LF, south slope above bench	3	N	104.3	11.3	108.0	96.6%				
223	27-Feb-12	IF	Ph.1 LF, south slope above bench	3	N	104.0	11.0	108.0	96.3%				
224	27-Feb-12	IF	Ph.1 LF, south slope above bench	3	N	105.2	10.6	108.0	97.4%				
225	27-Feb-12	IF	Ph.1 LF, south slope above bench	3	N	105.7	9.9	108.0	97.9%				
226	27-Feb-12	IF	Ph.1 LF, south slope bench	2	N	103.9	11.7	108.0	96.2%				
227	27-Feb-12	IF	Ph.1 LF, south slope bench	2	N	104.4	11.1	108.0	96.7%				
228	27-Feb-12	IF	Ph.1 LF, south slope bench	2	N	105.9	10.3	108.0	98.1%				
229	27-Feb-12	IF	Ph.1 LF, south slope bench	2	N	104.2	11.3	108.0	96.5%				
230	27-Feb-12	IF	Ph.1 LF, west slope	1	N	106.1	10.0	108.0	98.2%				
231	27-Feb-12	IF	Ph.1 LF, north slope	3	N	108.0	9.6	108.7	99.4%				
232	27-Feb-12	IF	Ph.1 LF, north slope	3	N	107.1	10.4	108.7	98.5%				
233	27-Feb-12	IF	Ph.1 LF, north slope	4	N	106.0	9.4	108.7	97.5%				
234	27-Feb-12	IF	Ph.1 LF, north slope	4	N	105.5	10.1	108.7	97.1%				
235	27-Feb-12	IF	Ph.1 LF, north slope	1	N	104.9	10.7	108.7	96.5%				
236	29-Feb-12	IF	Ph.1 LF, east slope, below bench	1	N	106.8	12.7	109.8	97.3%				
237	29-Feb-12	IF	Ph.1 LF, east slope, below bench	2	N	107.1	12.2	109.8	97.5%				
238	29-Feb-12	IF	Ph.1 LF, east slope, below bench	3	N	106.5	11.7	109.8	97.0%				
239	29-Feb-12	IF	Ph.1 LF, east slope, bench area	1	N	105.8	12.3	109.8	96.4%				
240	29-Feb-12	IF	Ph.1 LF, east slope, bench area	2	C	106.7	12.0	109.8	97.2%	12.2	106.5	97.0%	
241	29-Feb-12	IF	Ph.1 LF, east slope, bench area	3	N	106.3	12.0	109.8	96.8%				
242	7-Mar-12	BF	Ph.1 LF, top of gas collection pipe trench	AP	N	107.0	8.8	109.8	97.4%				
243	7-Mar-12	BF	Ph.1 LF, top of gas collection pipe trench	AP	N	102.6	10.7	109.8	93.4%				
244	7-Mar-12	IF	Ph.1 LF, south slope, bench area	1	N	104.5	7.6	109.8	95.2%				

Table 6

SUMMARY OF SOIL FIELD DENSITY TESTING

Project : Sarasota County Phase I Landfill Closure

File 09-7375

Test No.	Test Date	Material Code	Location Description	Lift or Depth	Test Type	Dry Density (pcf)	Field Moisture (%)	Proctor Max Density (pcf)	Percent Compaction	Lab Moisture (%)	Recalc. Dry Density (pcf)	Recalc. Percent Compaction	Remarks
245	7-Mar-12	IF	Ph.1 LF, south slope, bench area	2	N	102.8	5.7	109.8	93.6%				
246	7-Mar-12	IF	Ph.1 LF, south slope, bench area	1	N	107.3	6.2	109.8	97.7%				
247	7-Mar-12	IF	Ph.1 LF, south slope, bench area	2	N	108.0	7.4	109.8	98.4%				
248	7-Mar-12	IF	Ph.1 LF, south slope, bench area	3	N	107.3	6.8	113.9	94.2%				
249	7-Mar-12	BF	Ph.1 LF, top of gas collection pipe trench	AP	N	106.4	7.7	113.9	93.4%				
250	7-Mar-12	BF	Ph.1 LF, top of gas collection pipe trench	AP	N	105.7	7.5	113.9	92.8%				
251	7-Mar-12	IF	Ph.1 LF, SE corner, mid-slope	4	N	105.7	7.4	113.9	92.8%				
252	7-Mar-12	IF	Ph.1 LF, SE corner, mid-slope	3	N	106.6	14.7	113.9	93.6%				
253	7-Mar-12	IF	Ph.1 LF, SE corner, mid-slope	2	N	107.5	14.0	113.9	94.4%				
254	7-Mar-12	IF	Ph.1 LF, east slope, mid-slope	4	N	104.0	7.3	113.9	91.3%				
255	7-Mar-12	IF	Ph.1 LF, east slope, mid-slope	3	N	106.1	14.0	113.9	93.2%				
256	20-Mar-12	IF	Ph.1 LF, north (garbage removal) area	1	N	106.3	15.4	109.0	97.5%				
257	20-Mar-12	IF	Ph.1 LF, north (garbage removal) area	1	N	104.2	13.5	109.0	95.6%				
258	20-Mar-12	IF	Ph.1 LF, south access rd, east end	4	N	111.1	12.3	113.9	97.5%				
259	20-Mar-12	IF	Ph.1 LF, south access rd, east end	3	N	111.4	11.6	113.9	97.8%				
260	20-Mar-12	IF	Ph.1 LF, south access rd, east end	2	C	111.4	9.7	113.9	97.8%	10.0	111.1	97.5%	
261	20-Mar-12	IF	Ph.1 LF, south access rd, east end	1	N	111.9	10.7	113.9	98.2%				
262	20-Mar-12	IF	Ph.1 LF, south access rd, east end	1	N	108.3	12.0	113.9	95.1%				
263	26-Mar-12	IF	Ph.1 LF, south access rd	2	N	110.1	12.1	113.9	96.7%				
264	26-Mar-12	IF	Ph.1 LF, south access rd	3	N	109.9	12.7	113.9	96.5%				
265	26-Mar-12	IF	Ph.1 LF, south access rd	4	N	110.8	10.6	113.9	97.3%				
266	26-Mar-12	IF	Ph.1 LF, south access rd	5	N	111.4	11.2	113.9	97.8%				
267	26-Mar-12	IF	Ph.1 LF, south access rd	6	N	111.1	9.8	113.9	97.5%				
268	26-Mar-12	IF	Ph.1 LF, south access rd	7	N	108.4	7.3	113.9	95.2%				
269	4-Apr-12	FF	Ph.1 LF, top area, S 1/2 of middle section	1F	N	111.3	12.6	114.4	97.3%				
270	4-Apr-12	FF	Ph.1 LF, top area, S 1/2 of middle section	1F	N	110.7	11.6	114.4	96.8%				
271	4-Apr-12	FF	Ph.1 LF, top area, S 1/2 of middle section	1F	N	109.5	10.7	114.4	95.7%				
272	4-Apr-12	FF	Ph.1 LF, top area, S 1/2 of middle section	1F	N	109.1	11.3	114.4	95.4%				
273	4-Apr-12	FF	Ph.1 LF, top area, S 1/2 of middle section	1F	N	108.7	10.9	114.4	95.0%				
274	4-Apr-12	FF	Ph.1 LF, top area, N 1/2 of middle section	1F	N	108.3	11.8	114.4	94.7%				
275	4-Apr-12	FF	Ph.1 LF, top area, N 1/2 of middle section	1F	N	109.6	12.3	114.4	95.8%				
276	4-Apr-12	FF	Ph.1 LF, top area, N 1/2 of middle section	1F	N	108.0	13.5	114.4	94.4%				
277	4-Apr-12	FF	Ph.1 LF, top area, N 1/2 of middle section	1F	N	107.6	13.9	114.4	94.1%				
278	4-Apr-12	FF	Ph.1 LF, top area, N 1/2 of middle section	1F	N	108.4	14.3	114.4	94.8%				
279	4-Apr-12	FF	Ph.1 LF, top area, N 1/2 of middle section	1F	N	109.2	13.6	114.4	95.5%				
280	13-Apr-12	IF	Ph.1 LF, northwest ridge area	2	C	109.1	9.0	111.1	98.2%	8.7	109.4	98.5%	
281	13-Apr-12	IF	Ph.1 LF, north side ridge	2	N	107.1	9.0	111.1	96.4%				
282	13-Apr-12	IF	Ph.1 LF, north side ridge	2	N	108.2	8.7	111.1	97.4%				
283	13-Apr-12	IF	Ph.1 LF, north slope b/w ridge & bench	2	N	106.6	10.1	111.1	95.9%				
284	13-Apr-12	IF	Ph.1 LF, north slope b/w ridge & bench	2	N	105.8	10.3	111.1	95.2%				
285	13-Apr-12	IF	Ph.1 LF, north slope b/w ridge & bench	2	N	106.3	9.7	111.1	95.7%				
286	13-Apr-12	IF	Ph.1 LF, north side bench area	2	N	107.6	10.0	111.1	96.8%				
287	13-Apr-12	IF	Ph.1 LF, north side bench area	2	N	107.0	9.3	111.1	96.3%				
288	13-Apr-12	IF	Ph.1 LF, north side bench area	2	N	108.5	9.7	111.1	97.7%				
289	13-Apr-12	IF	Ph.1 LF, north side slope below bench	2	N	108.0	9.1	111.1	97.2%				
290	13-Apr-12	IF	Ph.1 LF, north side slope below bench	2	N	107.0	10.3	111.1	96.3%				
291	13-Apr-12	IF	Ph.1 LF, north side slope below bench	2	N	107.6	11.3	111.1	96.8%				
292	16-Apr-12	IF	Ph.1 LF, north side ridge	2	N	107.7	11.0	111.1	96.9%				
293	16-Apr-12	IF	Ph.1 LF, north slope b/w ridge & bench	2	N	107.2	10.6	111.1	96.5%				
294	16-Apr-12	IF	Ph.1 LF, north side bench area	2	N	102.1	7.7	111.1	91.9%				

Table 6

SUMMARY OF SOIL FIELD DENSITY TESTING

Project : Sarasota County Phase I Landfill Closure

File 09-7375

Test No.	Test Date	Material Code	Location Description	Lift or Depth	Test Type	Dry Density (pcf)	Field Moisture (%)	Proctor Max Density (pcf)	Percent Compaction	Lab Moisture (%)	Recalc. Dry Density (pcf)	Recalc. Percent Compaction	Remarks
295	16-Apr-12	IF	Ph.1 LF, north side slope below bench	2	N	104.5	8.6	111.1	94.1%				
296	18-Apr-12	IF	Ph.1 LF, east side tie-in area	2	N	104.5	10.3	108.5	96.3%				
297	18-Apr-12	IF	Ph.1 LF, east side tie-in area	1	N	105.3	10.7	108.5	97.1%				
298	18-Apr-12	IF	Ph.1 LF, east side tie-in area	2	N	103.9	9.6	108.5	95.8%				
299	18-Apr-12	IF	Ph.1 LF, east side tie-in area	1	N	103.6	10.1	108.5	95.5%				
300	18-Apr-12	IF	Ph.1 LF, east side tie-in area	2	C	106.1	9.7	108.5	97.8%	8.8	107.0	98.6%	
301	18-Apr-12	IF	Ph.1 LF, east side tie-in area	1	N	104.8	11.3	108.5	96.6%				
302	18-Apr-12	IF	Ph.1 LF, east side tie-in area	2	N	104.0	12.0	108.5	95.9%				
303	18-Apr-12	IF	Ph.1 LF, east side tie-in area	1	N	103.7	12.6	108.5	95.6%				
304	18-Apr-12	IF	Ph.1 LF, east side tie-in area	2	N	102.9	11.7	108.5	94.8%				
305	18-Apr-12	IF	Ph.1 LF, east side tie-in area	1	N	103.3	10.9	108.5	95.2%				
306	18-Apr-12	IF	Ph.1 LF, north side tie-in area	2	N	104.3	11.0	108.5	96.1%				
307	18-Apr-12	IF	Ph.1 LF, north side tie-in area	1	N	103.8	10.6	108.5	95.7%				
308	18-Apr-12	IF	Ph.1 LF, north side tie-in area	2	N	102.5	9.9	108.5	94.5%				
309	18-Apr-12	IF	Ph.1 LF, north side tie-in area	1	N	103.5	10.7	108.5	95.4%				
310	18-Apr-12	IF	Ph.1 LF, north side tie-in area	2	N	102.3	7.7	108.5	94.3%				
311	18-Apr-12	IF	Ph.1 LF, north side tie-in area	1	N	102.0	6.5	108.5	94.0%				
312	18-Apr-12	IF	Ph.1 LF, north side tie-in area	2	N	103.3	8.9	108.5	95.2%				
313	18-Apr-12	IF	Ph.1 LF, north side tie-in area	1	N	104.5	10.1	108.5	96.3%				
314	19-Apr-12	IF	Ph.1 LF, top area, northwest section	3	N	105.3	10.3	109.4	96.3%				
315	19-Apr-12	IF	Ph.1 LF, top area, northwest section	3	N	107.3	11.1	109.4	98.1%				
316	19-Apr-12	IF	Ph.1 LF, top area, northwest section	3	N	107.2	9.3	109.4	98.0%				
317	19-Apr-12	IF	Ph.1 LF, top area, northwest section	3	N	106.6	10.7	109.4	97.4%				
318	19-Apr-12	IF	Ph.1 LF, top area, northwest section	3	N	108.4	11.1	109.4	99.1%				
319	19-Apr-12	IF	Ph.1 LF, top area, northwest section	3	N	100.7	7.0	109.4	92.0%				
320	19-Apr-12	IF	Ph.1 LF, top area, northwest section	3	C	109.4	11.0	109.4	100.0%	6.8	113.7	103.9%	
321	19-Apr-12	IF	Ph.1 LF, top area, northwest section	3	N	109.1	7.2	109.4	99.7%				
322	20-Apr-12	IF	Ph.1 LF, top area, northwest section	3	N	105.8	15.1	109.4	96.7%				
323	7-May-12	FF	Ph.1 LF, top area, southeast corner	1F	N	105.5	12.7	108.0	97.7%				
324	7-May-12	FF	Ph.1 LF, top, east area	1F	N	104.6	12.0	108.0	96.9%				
325	7-May-12	FF	Ph.1 LF, top, east area	1F	N	104.1	11.6	108.0	96.4%				
326	7-May-12	FF	Ph.1 LF, top, east area	1F	N	105.0	10.7	108.0	97.2%				
327	7-May-12	FF	Ph.1 LF, north slope	1F	N	104.4	11.9	108.0	96.7%				
328	7-May-12	FF	Ph.1 LF, north slope	1F	N	103.8	12.2	108.0	96.1%				
329	7-May-12	FF	Ph.1 LF, top, east area	1F	N	104.0	13.2	108.0	96.3%				
330	7-May-12	FF	Ph.1 LF, top, east area	1F	N	103.4	12.7	108.0	95.7%				
331	7-May-12	FF	Ph.1 LF, top, east area	1F	N	103.0	12.9	108.0	95.4%				
332	7-May-12	FF	Ph.1 LF, top, east area	1F	N	104.3	13.3	108.0	96.6%				
333	7-May-12	FF	Ph.1 LF, top, east area	1F	N	104.6	12.1	108.0	96.9%				
334	7-May-12	FF	Ph.1 LF, top, south area	1F	N	105.7	11.3	108.0	97.9%				
335	7-May-12	FF	Ph.1 LF, top, south area	1F	N	106.2	13.0	108.0	98.3%				
336	7-May-12	FF	Ph.1 LF, top, south area	1F	N	103.6	12.2	108.0	95.9%				
337	7-May-12	FF	Ph.1 LF, top, south area	1F	N	106.1	14.0	108.0	98.2%				
338	7-May-12	FF	Ph.1 LF, top, south area	1F	N	104.1	13.3	108.0	96.4%				
339	7-May-12	FF	Ph.1 LF, east slope	1F	N	103.0	13.7	108.0	95.4%				
340	7-May-12	FF	Ph.1 LF, east slope	1F	C	106.3	11.8	108.0	98.4%	7.3	110.8	102.6%	
341	7-May-12	FF	Ph.1 LF, east slope	1F	N	102.6	14.3	108.0	95.0%				
342	7-May-12	FF	Ph.1 LF, east slope	1F	N	102.0	13.3	108.0	94.4%				
343	7-May-12	FF	Ph.1 LF, east slope	1F	N	103.8	12.7	108.0	96.1%				
344	7-May-12	FF	Ph.1 LF, east slope	1F	N	104.4	11.6	108.0	96.7%				

Table 6

SUMMARY OF SOIL FIELD DENSITY TESTING

Project : Sarasota County Phase I Landfill Closure

File 09-7375

Test No.	Test Date	Material Code	Location Description	Lift or Depth	Test Type	Dry Density (pcf)	Field Moisture (%)	Proctor Max Density (pcf)	Percent Compaction	Lab Moisture (%)	Recalc. Dry Density (pcf)	Recalc. Percent Compaction	Remarks
345	7-May-12	FF	Ph.1 LF, north slope	1F	N	103.3	12.0	108.0	95.6%				
346	7-May-12	FF	Ph.1 LF, north slope	1F	N	102.4	13.2	108.0	94.8%				
347	7-May-12	FF	Ph.1 LF, north slope	1F	N	104.0	12.7	108.0	96.3%				
348	7-May-12	FF	Ph.1 LF, north slope	1F	N	103.6	13.4	108.0	95.9%				
349	22-May-12	FF	Ph.1 LF, top area	1F	N	106.9	6.3	110.8	96.5%				
350	22-May-12	FF	Ph.1 LF, top area	1F	N	105.1	8.2	110.8	94.9%				
351	22-May-12	FF	Ph.1 LF, top area	1F	N	110.6	7.3	110.8	99.8%				
352	22-May-12	FF	Ph.1 LF, top area	1F	N	109.5	7.4	110.8	98.8%				
353	22-May-12	FF	Ph.1 LF, top area	1F	N	105.8	6.7	110.8	95.5%				
354	22-May-12	FF	Ph.1 LF, top area	1F	N	110.8	7.6	110.8	100.0%				
355	22-May-12	FF	Ph.1 LF, top area	1F	N	107.8	7.9	110.8	97.3%				
356	22-May-12	FF	Ph.1 LF, top area	1F	C	106.5	10.3	109.1	97.6%	11.7	105.2	96.4%	
357	22-May-12	FF	Ph.1 LF, north slope	1F	N	106.6	9.7	109.1	97.7%				
358	22-May-12	FF	Ph.1 LF, north slope	1F	N	109.4	10.3	110.8	98.7%				
359	22-May-12	FF	Ph.1 LF, north slope	1F	N	107.3	10.1	110.8	96.8%				
360	22-May-12	FF	Ph.1 LF, north slope	1F	N	106.3	9.4	110.8	95.9%				
361	22-May-12	FF	Ph.1 LF, north slope	1F	N	105.8	8.7	110.8	95.5%				
362	22-May-12	FF	Ph.1 LF, north slope	1F	N	106.7	8.9	110.8	96.3%				
363	22-May-12	FF	Ph.1 LF, north slope	1F	N	105.9	9.5	110.8	95.6%				
364	22-May-12	FF	Ph.1 LF, north slope	1F	N	107.0	10.0	110.8	96.6%				
365	22-May-12	FF	Ph.1 LF, north slope	1F	N	107.6	9.3	110.8	97.1%				
366	22-May-12	FF	Ph.1 LF, north slope	1F	N	105.8	9.0	110.8	95.5%				
367	22-May-12	FF	Ph.1 LF, north slope	1F	N	106.8	8.6	110.8	96.4%				
368	22-May-12	IF	Ph.1 LF, S stormwater swale	1	N	112.7	9.6	114.4	98.5%				
369	22-May-12	IF	Ph.1 LF, S stormwater swale	1	N	113.1	9.3	114.4	98.9%				
370	22-May-12	IF	Ph.1 LF, S stormwater swale	1	N	112.8	9.7	114.4	98.6%				
371	22-May-12	IF	Ph.1 LF, S stormwater swale	1	N	110.9	8.2	114.4	96.9%				
372	22-May-12	IF	Ph.1 LF, S stormwater swale	1	N	111.0	6.9	114.4	97.0%				
373	22-May-12	IF	Ph.1 LF, S stormwater swale	1	N	112.2	8.7	114.4	98.1%				
374	29-May-12	IF	Ph.1 LF, s. stormwater swale, n. slope	2	N	106.0	12.1	110.8	95.7%				
375	29-May-12	IF	Ph.1 LF, s. stormwater swale, n. slope	3	N	106.7	11.6	110.8	96.3%				
376	29-May-12	IF	Ph.1 LF, s. stormwater swale, n. slope	4	N	107.3	10.2	110.8	96.8%				
377	29-May-12	IF	Ph.1 LF, s. stormwater swale, s. slope	2	N	105.7	12.3	110.8	95.4%				
378	29-May-12	IF	Ph.1 LF, s. stormwater swale, s. slope	3	N	106.9	11.0	110.8	96.5%				
379	29-May-12	IF	Ph.1 LF, s. stormwater swale, s. slope	4	N	107.5	10.6	110.8	97.0%				
380	29-May-12	IF	Ph.1 LF, s. stormwater swale, n. slope	2	C	106.2	13.0	110.8	95.8%	10.1	109.0	98.4%	
381	29-May-12	IF	Ph.1 LF, s. stormwater swale, n. slope	3	N	107.7	10.6	110.8	97.2%				
382	29-May-12	IF	Ph.1 LF, s. stormwater swale, n. slope	4	N	108.4	9.9	110.8	97.8%				
383	29-May-12	IF	Ph.1 LF, s. stormwater swale, s. slope	2	N	107.5	11.3	110.8	97.0%				
384	29-May-12	IF	Ph.1 LF, s. stormwater swale, s. slope	3	N	108.7	10.3	110.8	98.1%				
385	29-May-12	IF	Ph.1 LF, s. stormwater swale, s. slope	4	N	109.0	10.0	110.8	98.4%				
386	29-May-12	IF	Ph.1 LF, s. stormwater swale, n. slope	2	N	106.9	11.7	110.8	96.5%				
387	29-May-12	IF	Ph.1 LF, s. stormwater swale, n. slope	3	N	107.6	10.4	110.8	97.1%				
388	29-May-12	IF	Ph.1 LF, s. stormwater swale, n. slope	4	N	108.3	9.7	110.8	97.7%				
389	29-May-12	IF	Ph.1 LF, s. stormwater swale, s. slope	2	N	108.8	11.2	110.8	98.2%				
390	29-May-12	IF	Ph.1 LF, s. stormwater swale, s. slope	3	N	107.3	11.0	110.8	96.8%				
391	29-May-12	IF	Ph.1 LF, s. stormwater swale, s. slope	4	N	106.1	10.3	110.8	95.8%				
392	29-May-12	IF	Ph.1 LF, s. stormwater swale, n. slope	2	N	108.0	12.6	110.8	97.5%				
393	29-May-12	IF	Ph.1 LF, s. stormwater swale, n. slope	3	N	106.9	11.5	110.8	96.5%				
394	29-May-12	IF	Ph.1 LF, s. stormwater swale, n. slope	4	N	106.6	10.9	110.8	96.2%				

Table 6

SUMMARY OF SOIL FIELD DENSITY TESTING

Project : Sarasota County Phase I Landfill Closure

File 09-7375

Test No.	Test Date	Material Code	Location Description	Lift or Depth	Test Type	Dry Density (pcf)	Field Moisture (%)	Proctor Max Density (pcf)	Percent Compaction	Lab Moisture (%)	Recalc. Dry Density (pcf)	Recalc. Percent Compaction	Remarks
395	29-May-12	IF	Ph.1 LF, s. stormwater swale, s. slope	2	N	107.0	12.5	110.8	96.6%				
396	29-May-12	IF	Ph.1 LF, s. stormwater swale, s. slope	3	N	107.9	11.9	110.8	97.4%				
397	29-May-12	IF	Ph.1 LF, s. stormwater swale, s. slope	4	N	108.6	10.2	110.8	98.0%				
398	29-May-12	IF	Ph.1 LF, S stormwater swale, N slope	1	N	108.0	12.1	110.8	97.5%				
399	29-May-12	IF	Ph.1 LF, s. stormwater swale, n. slope	2	N	108.5	11.6	110.8	97.9%				
400	29-May-12	IF	Ph.1 LF, s. stormwater swale, n. slope	3	C	110.9	12.5	110.8	100.1%	13.6	109.8	99.1%	
401	29-May-12	IF	Ph.1 LF, s. stormwater swale, n. slope	4	N	109.4	11.0	110.8	98.7%				
402	29-May-12	IF	Ph.1 LF, S stormwater swale, S slope	1	N	106.3	13.2	110.8	95.9%				
403	29-May-12	IF	Ph.1 LF, s. stormwater swale, s. slope	2	N	107.7	12.4	110.8	97.2%				
404	29-May-12	IF	Ph.1 LF, s. stormwater swale, s. slope	3	N	107.9	11.7	110.8	97.4%				
405	29-May-12	IF	Ph.1 LF, s. stormwater swale, s. slope	4	N	106.7	11.0	110.8	96.3%				
406	29-May-12	IF	Ph.1 LF, S stormwater swale, N slope	1	N	106.3	13.0	110.8	95.9%				
407	29-May-12	IF	Ph.1 LF, s. stormwater swale, n. slope	2	N	107.4	12.7	110.8	96.9%				
408	29-May-12	IF	Ph.1 LF, s. stormwater swale, n. slope	3	N	107.5	11.3	110.8	97.0%				
409	29-May-12	IF	Ph.1 LF, s. stormwater swale, n. slope	4	N	108.8	10.2	110.8	98.2%				
410	29-May-12	IF	Ph.1 LF, S stormwater swale, S slope	1	N	106.5	12.8	110.8	96.1%				
411	29-May-12	IF	Ph.1 LF, s. stormwater swale, s. slope	2	N	107.1	12.0	110.8	96.7%				
412	29-May-12	IF	Ph.1 LF, s. stormwater swale, s. slope	3	N	108.9	11.4	110.8	98.3%				
413	29-May-12	IF	Ph.1 LF, s. stormwater swale, s. slope	4	N	109.5	10.6	110.8	98.8%				
414	12-Jun-12	IF	Ph.1 LF, south slope, south bench, east side	3	N	108.7	13.0	109.7	99.1%				
415	12-Jun-12	IF	Ph.1 LF, south slope, south bench, east side	3	N	106.9	12.6	109.7	97.4%				
416	12-Jun-12	IF	Ph.1 LF, south slope, south bench, east side	3	N	107.3	12.3	109.7	97.8%				
417	12-Jun-12	IF	Ph.1 LF, south slope, south bench, east side	3	N	106.1	11.7	109.7	96.7%				
418	12-Jun-12	IF	Ph.1 LF, south slope, south bench, east side	3	N	106.8	10.9	109.7	97.4%				
419	13-Jun-12	IF	Ph.1 LF, south slope, above bench	3	C	107.9	11.0	109.7	98.4%	10.1	108.8	99.2%	
420	13-Jun-12	IF	Ph.1 LF, south slope, above bench	3	N	101.5	8.6	109.7	92.5%				
421	13-Jun-12	IF	Ph.1 LF, south slope, above bench	3	N	104.2	10.2	109.7	95.0%				
422	13-Jun-12	IF	Ph.1 LF, south slope, above bench	3	N	105.1	8.4	109.7	95.8%				
423	13-Jun-12	IF	Ph.1 LF, south slope, above bench	3	N	102.2	10.3	109.7	93.2%				
424	13-Jun-12	IF	Ph.1 LF, south slope, above bench	3	N	104.7	11.1	109.7	95.4%				
425	13-Jun-12	IF	Ph.1 LF, south slope, above bench	3	N	105.6	10.0	109.7	96.3%				
426	13-Jun-12	IF	Ph.1 LF, south slope, above bench	3	N	103.8	9.7	109.7	94.6%				
427	13-Jun-12	IF	Ph.1 LF, south slope, above bench	3	N	104.4	10.2	109.7	95.2%				
428	13-Jun-12	IF	Ph.1 LF, south slope, above bench	3	N	105.0	9.6	109.7	95.7%				
429	13-Jun-12	IF	Ph.1 LF, south slope, above bench	3	N	106.1	11.0	109.7	96.7%				
430	13-Jun-12	IF	Ph.1 LF, south slope, above bench	3	N	105.2	9.0	109.7	95.9%				
431	13-Jun-12	IF	Ph.1 LF, south slope, south bench, west side	3	C	107.3	9.9	109.7	97.8%	20.2	98.1	89.4%	Restested 7/20/11, test #611
432	13-Jun-12	IF	Ph.1 LF, south slope, south bench, west side	3	N	104.6	10.3	109.7	95.4%				
433	13-Jun-12	IF	Ph.1 LF, south slope, south bench, west side	3	N	107.0	10.0	109.7	97.5%				
434	13-Jun-12	IF	Ph.1 LF, south slope, south bench, west side	3	N	105.8	10.6	109.7	96.4%				
435	13-Jun-12	IF	Ph.1 LF, south slope, south bench, west side	3	N	107.7	12.1	109.7	98.2%				
436	13-Jun-12	IF	Ph.1 LF, south slope, south bench, west side	3	N	107.2	11.7	109.7	97.7%				
437	13-Jun-12	IF	Ph.1 LF, south slope, south bench, west side	3	N	106.2	10.6	109.7	96.8%				
438	13-Jun-12	IF	Ph.1 LF, south slope, south bench, west side	3	N	105.6	10.1	109.7	96.3%				
439	13-Jun-12	IF	Ph.1 LF, south slope access rd	1	N	107.3	10.1	108.3	99.1%				
440	13-Jun-12	IF	Ph.1 LF, south slope access rd	1	N	107.0	9.4	108.3	98.8%				
441	13-Jun-12	IF	Ph.1 LF, south slope access rd	1	N	106.4	11.3	108.3	98.2%				
442	13-Jun-12	IF	Ph.1 LF, south slope access rd	1	N	105.8	10.6	108.3	97.7%				
443	13-Jun-12	IF	Ph.1 LF, south slope access rd	1	N	106.7	9.9	108.3	98.5%				
444	13-Jun-12	IF	Ph.1 LF, south slope access rd	1	N	105.3	11.0	108.3	97.2%				

Table 6

SUMMARY OF SOIL FIELD DENSITY TESTING

Project : Sarasota County Phase I Landfill Closure

File 09-7375

Test No.	Test Date	Material Code	Location Description	Lift or Depth	Test Type	Dry Density (pcf)	Field Moisture (%)	Proctor Max Density (pcf)	Percent Compaction	Lab Moisture (%)	Recalc. Dry Density (pcf)	Recalc. Percent Compaction	Remarks
445	13-Jun-12	IF	Ph.1 LF, south slope access rd	1	N	105.5	9.8	108.3	97.4%				
446	14-Jun-12	IF	Ph.1 LF, south slope access rd	2	N	107.0	10.3	108.3	98.8%				
447	14-Jun-12	IF	Ph.1 LF, south slope access rd	2	N	106.2	11.3	108.3	98.1%				
448	14-Jun-12	IF	Ph.1 LF, south slope access rd	2	N	105.4	11.0	108.3	97.3%				
449	14-Jun-12	IF	Ph.1 LF, south slope access rd	2	N	104.8	12.1	108.3	96.8%				
450	18-Jun-12	AT	Ph.1 LF, s. slope, anchor tr. #1, above bench	1A	N	103.8	13.3	105.3	98.6%				
451	18-Jun-12	AT	Ph.1 LF, s. slope, anchor tr. #2, above bench	1A	N	102.9	14.1	105.3	97.7%				
452	18-Jun-12	AT	Ph.1 LF, s. slope, anchor tr. #3, above bench	1A	N	103.2	13.0	105.3	98.0%				
453	18-Jun-12	AT	Ph.1 LF, s. slope, anchor tr. #2, above bench	2A	N	103.1	11.2	105.3	97.9%				
454	18-Jun-12	AT	Ph.1 LF, s. slope, anchor tr. #3, above bench	2A	N	104.0	14.1	105.3	98.8%				
455	18-Jun-12	AT	Ph.1 LF, s. slope, anchor tr. #2, above bench	3A	N	103.4	11.9	105.3	98.2%				
456	18-Jun-12	AT	Ph.1 LF, s. slope, anchor tr. #3, above bench	3A	N	103.5	10.7	105.3	98.3%				
457	18-Jun-12	AT	Ph.1 LF, s. slope, anchor tr. #4, above bench	1A	N	103.9	12.0	105.3	98.7%				
458	18-Jun-12	AT	Ph.1 LF, s. slope, anchor tr. #2, above bench	4A	N	103.5	8.0	105.3	98.3%				
459	19-Jun-12	AT	Ph.1 LF, s. slope, anchor tr. #3, above bench	4A	C	103.8	11.4	105.3	98.6%	7.5	107.6	102.2%	
460	19-Jun-12	AT	Ph.1 LF, s. slope, anchor tr. #4, above bench	2A	N	103.7	9.2	105.3	98.5%				
461	19-Jun-12	AT	Ph.1 LF, s. slope, anchor tr. #5, above bench	1A	N	102.5	13.1	101.3	101.2%				
462	19-Jun-12	AT	Ph.1 LF, s. slope, anchor tr. #4, above bench	3A	N	102.8	12.3	105.3	97.6%				
463	19-Jun-12	AT	Ph.1 LF, s. slope, anchor tr. #5, above bench	2A	N	103.0	10.6	101.3	101.7%				
464	19-Jun-12	AT	Ph.1 LF, s. slope, anchor tr. #4, above bench	4A	N	102.9	10.5	105.3	97.7%				
465	19-Jun-12	AT	Ph.1 LF, s. slope, anchor tr. #6, above bench	1A	N	102.7	12.1	101.3	101.4%				
466	19-Jun-12	AT	Ph.1 LF, s. slope, anchor tr. #5, above bench	3A	N	104.1	11.1	101.3	102.8%				
467	19-Jun-12	AT	Ph.1 LF, s. slope, anchor tr. #6, above bench	2A	N	102.6	14.9	101.3	101.3%				
468	19-Jun-12	AT	Ph.1 LF, s. slope, anchor tr. #5, above bench	4A	N	102.9	8.7	101.3	101.6%				
469	19-Jun-12	AT	Ph.1 LF, s. slope, anchor tr. #6, above bench	3A	N	103.3	10.8	101.3	102.0%				
470	19-Jun-12	AT	Ph.1 LF, s. slope, anchor tr. #6, above bench	4A	N	104.5	10.3	101.3	103.2%				
471	19-Jun-12	AT	Ph.1 LF, s. slope, anchor tr. #1, above bench	2A	N	101.8	10.5	105.3	96.7%				
472	19-Jun-12	AT	Ph.1 LF, s. slope, anchor tr. #1, above bench	3A	N	102.9	9.1	105.3	97.7%				
473	19-Jun-12	AT	Ph.1 LF, s. slope, anchor tr. #1, above bench	4A	N	103.9	6.8	105.3	98.7%				
474	20-Jun-12	IF	Ph.1 LF, top area, SW section	3	N	103.0	12.6	106.9	96.4%				
475	20-Jun-12	IF	Ph.1 LF, top area, SW section	3	N	102.6	12.0	106.9	96.0%				
476	20-Jun-12	IF	Ph.1 LF, top area, SW section	3	N	102.1	11.6	106.9	95.5%				
477	20-Jun-12	IF	Ph.1 LF, top area, SW section	3	C	105.4	9.7	106.9	98.6%	10.8	104.4	97.6%	
478	20-Jun-12	IF	Ph.1 LF, south slope access rd	3	N	106.0	11.3	108.3	97.9%				
479	20-Jun-12	IF	Ph.1 LF, south slope access rd	3	N	105.3	10.7	108.3	97.2%				
480	20-Jun-12	IF	Ph.1 LF, south slope access rd	3	N	106.4	11.0	108.3	98.2%				
481	20-Jun-12	AT	Ph.1 LF, s. slope, lower trench, above bench, b/w T-1 & T-2	1A	N	104.4	9.6	105.3	99.1%				
482	20-Jun-12	AT	Ph.1 LF, s. slope, lower trench, above bench, b/w T-2 & T-3	2A	N	102.9	9.0	105.3	97.7%				
483	20-Jun-12	AT	Ph.1 LF, s. slope, lower trench, above bench, b/w T-3 & T-4	3A	N	104.0	10.3	105.3	98.8%				
484	20-Jun-12	AT	Ph.1 LF, s. slope, lower trench, above bench, b/w T-5 & T-6	1A	N	103.6	10.1	101.3	102.3%				
485	20-Jun-12	AT	Ph.1 LF, s. slope, lower trench, above bench, b/w T-6 & T-7	2A	N	105.5	10.5	101.3	104.1%				
486	20-Jun-12	AT	Ph.1 LF, s. slope, anchor tr. #7, above bench	1A	N	103.9	9.5	101.3	102.6%				
487	28-Jun-12	BF	S of Ph.1 LF, 36" storm sewer b/w swales, s. side pipe	SL	N	108.5	13.0	108.5	100.0%				road crossing
488	28-Jun-12	BF	S of Ph.1 LF,36" storm sewer b/w swales, n. side pipe	SL	N	107.6	12.7	108.5	99.2%				road crossing
489	28-Jun-12	BF	S of Ph.1 LF, 36" storm sewer b/w swales	0' AP	C	104.7	10.0	108.5	96.5%	10.7	104.0	95.9%	road crossing
490	28-Jun-12	BF	S of Ph.1 LF, 36" storm sewer b/w swales	1' AP	N	107.0	12.0	108.5	98.6%				road crossing
491	29-Jun-12	BF	S of Ph.1 LF, 36" storm sewer b/w swales	2' AP	N	107.4	13.0	108.5	99.0%				road crossing
492	29-Jun-12	BF	S of Ph.1 LF, 36" storm sewer b/w swales	3' AP	N	106.6	12.6	108.5	98.2%				road crossing
493	29-Jun-12	BF	S of Ph.1 LF, 36" storm sewer b/w swales	4' AP	N	106.1	12.8	108.5	97.8%				road crossing
494	29-Jun-12	BF	S of Ph.1 LF, 36" storm sewer b/w swales	5' AP	N	105.7	10.5	108.5	97.4%				road crossing

Table 6

SUMMARY OF SOIL FIELD DENSITY TESTING

Project : Sarasota County Phase I Landfill Closure

File 09-7375

Test No.	Test Date	Material Code	Location Description	Lift or Depth	Test Type	Dry Density (pcf)	Field Moisture (%)	Proctor Max Density (pcf)	Percent Compaction	Lab Moisture (%)	Recalc. Dry Density (pcf)	Recalc. Percent Compaction	Remarks
495	3-Jul-12	IF	Ph.1 LF, s. slope, above roadway, b/w T-6 & T-7	3	N	104.1	12.1	107.3	97.0%				retest of rain eroded area
496	3-Jul-12	IF	Ph.1 LF, s. slope, above roadway, b/w T-7 & T-8	3	N	103.6	11.6	107.3	96.6%				retest of rain eroded area
497	3-Jul-12	IF	Ph.1 LF, s. slope, above roadway, b/w T-8 & T-9	3	N	103.0	11.0	107.3	96.0%				retest of rain eroded area
498	3-Jul-12	IF	Ph.1 LF, s. slope, above roadway, b/w T-9 & T-10	3	N	104.9	13.1	107.3	97.8%				retest of rain eroded area
499	3-Jul-12	IF	Ph.1 LF, s. slope, above roadway, b/w T-10 & T-11	3	N	105.1	12.7	107.3	97.9%				retest of rain eroded area
500	3-Jul-12	IF	Ph.1 LF, s. slope, above roadway, b/w T-11 & T-12	3	N	104.4	12.3	107.3	97.3%				retest of rain eroded area
501	3-Jul-12	IF	Ph.1 LF, s. slope, above roadway, b/w T-12 & T-13	3	N	104.0	12.0	107.3	96.9%				retest of rain eroded area
502	3-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #8, above roadway	2A	N	104.1	10.4	103.8	100.3%				
503	3-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #8, above roadway	1A	N	102.9	11.3	103.8	99.1%				
504	3-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #7, above roadway	2A	N	105.0	14.9	101.3	103.7%				
505	3-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #8, above roadway	4A	N	102.6	7.8	103.8	98.8%				
506	3-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #8, above roadway	3A	N	102.5	11.0	103.8	98.7%				
507	3-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #7, above roadway	1A	N	102.8	14.0	101.3	101.5%				
508	3-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #9, above roadway	2A	N	106.7	14.4	103.5	103.1%				
509	3-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #9, above roadway	1A	N	103.4	14.3	103.5	99.9%				
510	4-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #7, above roadway	4A	N	104.0	11.6	101.3	102.7%				
511	4-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #7, above roadway	3A	N	102.8	14.0	101.3	101.5%				
512	4-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #10, above roadway	2A	N	104.2	12.5	101.3	102.9%				
513	4-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #10, above roadway	1A	N	105.3	14.7	101.3	103.9%				
514	4-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #9, above roadway	4A	N	105.1	12.5	103.5	101.5%				
515	4-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #9, above roadway	3A	N	103.9	12.0	103.5	100.4%				
516	4-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #10, above roadway	4A	C	108.2	9.3	108.3	99.9%	7.6	109.9	101.5%	
517	4-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #10, above roadway	3A	N	103.6	13.9	108.3	95.7%				
518	4-Jul-12	IF	Ph.1 LF, s. slope, above roadway, b/w T-13 & T-14	3	N	100.5	11.4	103.5	97.1%				retest of rain eroded area
519	4-Jul-12	IF	Ph.1 LF, s. slope, above roadway, b/w T-14 & T-15	3	N	100.0	12.6	103.5	96.6%				retest of rain eroded area
520	4-Jul-12	IF	Ph.1 LF, s. slope, above roadway, b/w T-15 & T-16	3	N	102.4	11.0	103.5	98.9%				retest of rain eroded area
521	4-Jul-12	IF	Ph.1 LF, s. slope, above roadway, b/w T-16 & T-17	3	N	101.7	10.9	103.5	98.3%				retest of rain eroded area
522	4-Jul-12	IF	Ph.1 LF, s. slope, above roadway, b/w T-17 & T-18	3	N	101.9	11.6	103.5	98.5%				retest of rain eroded area
523	4-Jul-12	IF	Ph.1 LF, s. slope, above roadway, b/w T-18 & T-19	3	N	101.4	10.7	103.5	98.0%				retest of rain eroded area
524	4-Jul-12	IF	Ph.1 LF, s. slope, above roadway, b/w T-19 & T-20	3	N	100.9	10.3	103.5	97.5%				retest of rain eroded area
525	4-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #11, above roadway	2A	N	102.6	15.1	101.3	101.3%				
526	4-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #11, above roadway	1A	N	102.7	15.0	101.3	101.4%				
527	4-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #12, above roadway	2A	N	102.9	14.7	101.3	101.6%				
528	4-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #12, above roadway	1A	N	104.5	15.5	101.3	103.2%				
529	5-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #11, above roadway	4A	N	103.6	10.1	101.3	102.3%				
530	5-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #11, above roadway	3A	N	102.9	13.1	101.3	101.6%				
531	5-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #12, above roadway	4A	N	105.0	9.0	101.3	103.7%				
532	5-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #12, above roadway	3A	N	104.1	15.1	101.3	102.8%				
533	5-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #14, above roadway	2A	N	103.0	11.5	101.3	101.7%				
534	5-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #14, above roadway	1A	N	103.3	12.6	101.3	102.0%				
535	5-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #13, above roadway	2A	N	103.8	11.6	101.3	102.5%				
536	5-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #13, above roadway	1A	N	102.7	15.1	101.3	101.4%				
537	5-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #14, above roadway	4A	N	104.5	9.5	101.3	103.2%				
538	5-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #14, above roadway	3A	N	102.5	10.5	101.3	101.2%				
539	5-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #13, above roadway	4A	C	105.0	12.6	108.3	97.0%				
540	5-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #13, above roadway	3A	N	103.8	9.9	101.3	102.5%				
541	5-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #16 above roadway	2A	N	103.4	11.0	101.3	102.1%				
542	5-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #16, above roadway	1A	N	103.0	10.7	101.3	101.7%				
543	5-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #18, above roadway	2A	N	104.3	12.0	101.3	103.0%				
544	5-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #18, above roadway	1A	N	104.1	13.1	101.3	102.8%				

Table 6

SUMMARY OF SOIL FIELD DENSITY TESTING

Project : Sarasota County Phase I Landfill Closure

File 09-7375

Test No.	Test Date	Material Code	Location Description	Lift or Depth	Test Type	Dry Density (pcf)	Field Moisture (%)	Proctor Max Density (pcf)	Percent Compaction	Lab Moisture (%)	Recalc. Dry Density (pcf)	Recalc. Percent Compaction	Remarks
545	5-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #17, above roadway	2A	N	105.3	15.7	101.3	103.9%				
546	5-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #17, above roadway	1A	N	104.2	14.3	101.3	102.9%				
547	5-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #16, above roadway	4A	N	103.4	9.9	101.3	102.1%				
548	5-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #16, above roadway	3A	N	104.4	12.2	101.3	103.1%				
549	5-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #19, above roadway	2A	N	103.8	12.0	101.3	102.5%				
550	5-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #18, above roadway	4A	N	107.9	12.2	101.3	106.5%				
551	5-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #18, above roadway	3A	N	105.8	8.0	101.3	104.4%				
552	5-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #17, above roadway	4A	N	104.1	11.3	101.3	102.8%				
553	5-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #17, above roadway	3A	N	103.6	12.3	101.3	102.3%				
554	6-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #19, above roadway	1A	C	105.6	9.3	108.3	97.5%	11.2	103.8	95.8%	
555	6-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #19, above roadway	2A	N	102.7	12.0	101.3	101.4%				
556	6-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #15, above roadway	2A	N	103.3	12.3	101.3	102.0%				
557	6-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #15, above roadway	1A	N	102.5	12.2	101.3	101.2%				
558	6-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #19, above roadway	4A	N	103.8	9.1	101.3	102.5%				
559	6-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #19, above roadway	3A	N	102.8	10.3	101.3	101.5%				
560	6-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #15, above roadway	4A	N	103.4	14.2	101.3	102.1%				
561	6-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #15, above roadway	3A	N	105.5	12.8	101.3	104.1%				
562	7-Jul-12	AT	Ph.1 LF, s. slope, upper anchor tr.	1A	N	103.8	9.2	101.3	102.5%				1st 250' from E to W
563	7-Jul-12	AT	Ph.1 LF, s. slope, upper anchor tr.	1A	N	104.0	8.0	101.3	102.7%				2nd 250' from E to W
564	7-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #A	2A	N	105.5	9.7	101.3	104.1%				
565	7-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #1A	2A	N	102.9	11.0	101.3	101.6%				
566	7-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #1A	1A	N	103.6	12.3	101.3	102.3%				
567	7-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #A	1A	N	104.3	10.7	101.3	103.0%				
568	7-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #21	2A	N	102.5	10.3	101.3	101.2%				
569	7-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #20, above roadway	2A	N	102.8	10.7	101.3	101.5%				
570	7-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #20, above roadway	1A	N	103.4	10.5	101.3	102.1%				
571	7-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #21, above roadway	1A	N	103.2	11.4	101.3	101.9%				
572	7-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #22, above roadway	2A	N	102.8	11.0	101.3	101.5%				
573	7-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #22, above roadway	1A	N	102.6	10.7	101.3	101.3%				
574	7-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #23, above roadway	2A	N	103.1	11.3	101.3	101.8%				
575	7-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #23, above roadway	1A	N	104.9	14.3	101.3	103.6%				
576	7-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #20, above roadway	4A	C	110.4	9.0	108.3	101.9%	8.1	111.3	102.8%	
577	7-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #20, above roadway	3A	N	102.7	9.5	101.3	101.4%				
578	7-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #21, above roadway	4A	N	102.9	13.8	101.3	101.6%				
579	7-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #21, above roadway	3A	N	103.6	12.5	101.3	102.3%				
580	7-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #22, above roadway	4A	N	103.5	12.7	101.3	102.2%				
581	7-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #22, above roadway	3A	N	103.2	12.2	101.3	101.9%				
582	7-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #23, above roadway	4A	N	105.3	9.4	101.3	103.9%				
583	7-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #23, above roadway	3A	N	105.5	11.0	101.3	104.1%				
584	7-Jul-12	AT	Ph.1 LF, s. slope, above roadway, b/w T-23 & end	3A	N	103.0	11.6	101.3	101.7%				
585	7-Jul-12	AT	Ph.1 LF, s. slope, above roadway, b/w T-23 & T-22	3A	N	103.3	11.0	101.3	102.0%				
586	7-Jul-12	AT	Ph.1 LF, s. slope, above roadway, b/w T-22 & T-21	3A	N	102.7	12.2	101.3	101.4%				
587	7-Jul-12	AT	Ph.1 LF, s. slope, above roadway, b/w T-21 & T-20	3A	N	102.5	12.5	101.3	101.2%				
588	7-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #A, above roadway	4A	N	102.8	9.8	101.3	101.5%				
589	7-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #A, above roadway	3A	N	103.3	10.4	101.3	102.0%				
590	7-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #1A, above roadway	4A	N	103.1	10.6	101.3	101.8%				
591	7-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #1A, above roadway	3A	N	102.7	10.1	101.3	101.4%				
592	7-Jul-12	AT	Ph.1 LF, s. slope, upper anchor tr., above roadway	3A	N	103.7	10.7	101.3	102.4%				1st 250' from E to W
593	7-Jul-12	AT	Ph.1 LF, s. slope, upper anchor tr., above roadway	3A	N	102.8	12.3	101.3	101.5%				2nd 250' from E to W
594	7-Jul-12	AT	Ph.1 LF, s. slope, upper anchor tr., above roadway	2A	N	102.6	12.5	101.3	101.3%				2rd 250' from E to W

Table 6

SUMMARY OF SOIL FIELD DENSITY TESTING

Project : Sarasota County Phase I Landfill Closure

File 09-7375

Test No.	Test Date	Material Code	Location Description	Lift or Depth	Test Type	Dry Density (pcf)	Field Moisture (%)	Proctor Max Density (pcf)	Percent Compaction	Lab Moisture (%)	Recalc. Dry Density (pcf)	Recalc. Percent Compaction	Remarks
595	7-Jul-12	AT	Ph.1 LF, s. slope, upper anchor tr., above roadway	2A	N	102.6	11.1	101.3	101.3%				1st 250' from E to W
596	7-Jul-12	AT	Ph.1 LF, s. slope, toe anchor tr., above roadway	3A	N	102.7	11.0	101.3	101.4%				2nd 250' from E to W
597	9-Jul-12	IF	Ph.1 LF, south slope, west area, above bench	3	C	109.5	11.1	109.6	99.9%	12.4	108.2	98.8%	
598	9-Jul-12	IF	Ph.1 LF, south slope, west area, above bench	3	N	108.3	11.0	109.6	98.8%				
599	9-Jul-12	IF	Ph.1 LF, south slope, west area, above bench	3	N	107.4	10.6	109.6	98.0%				
600	9-Jul-12	IF	Ph.1 LF, south slope, west area, above bench	3	N	107.0	10.2	109.6	97.6%				
601	9-Jul-12	AT	Ph.1 LF, s. slope, upper anchor tr., above roadway	1A	N	102.9	11.0	101.3	101.6%				3rd 250' from E to W
602	9-Jul-12	AT	Ph.1 LF, s. slope, lower anchor tr., above roadway	2A	N	103.3	7.9	101.3	102.0%				3rd 250' from E to W
603	9-Jul-12	AT	Ph.1 LF, s. slope, lower anchor tr., above roadway	1A	N	103.6	7.8	101.3	102.3%				3rd 250' from E to W
604	10-Jul-12	AT	Ph.1 LF, s. slope, upper anchor tr., above roadway	2A	N	102.9	11.7	101.3	101.6%				3rd 250' from E to W
605	10-Jul-12	AT	Ph.1 LF, s. slope, upper anchor tr., above roadway	3A	N	103.6	12.2	101.3	102.3%				3rd 250' from E to W
606	10-Jul-12	AT	Ph.1 LF, s. slope, lower anchor tr., above roadway	4A	N	103.5	13.6	101.3	102.2%				3rd 250' from E to W
607	10-Jul-12	AT	Ph.1 LF, s. slope, lower anchor tr., above roadway	3A	N	103.0	13.1	101.3	101.7%				3rd 250' from E to W
608	10-Jul-12	AT	Ph.1 LF, s. slope, SE corner tie-in anchor tr., above roadway	1A	N	109.1	13.0	108.3	100.7%				
609	16-Jul-12	AT	Ph.1 LF, s. slope, upper anchor tr., above roadway	2A	N	104.4	14.1	101.3	103.1%				5th 250' from E to W
610	16-Jul-12	AT	Ph.1 LF, s. slope, upper anchor tr., above roadway	1A	N	102.9	15.0	101.3	101.6%				4th 250' from E to W
611	20-Jul-12	IF	Ph.1 LF, south slope, above bench, west side	3	C	106.9	12.2	108.3	98.7%	11.7	107.4	99.1%	retest of #431
612	21-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #15, below bench	1A	N	104.0	11.0	103.8	100.2%				
613	21-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #15, below bench	3A	N	103.7	12.1	103.8	99.9%				
614	21-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #15, below bench	2A	N	102.9	14.1	103.8	99.1%				
615	21-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #16, below bench	1A	N	104.5	11.3	103.8	100.7%				
616	21-Jul-12	IF	Ph.1 LF, s. slope, below bench, b/w T-14 & T-15	3	N	102.5	11.7	103.8	98.7%				
617	21-Jul-12	IF	Ph.1 LF, s. slope, below bench, b/w T-15 & T-16	3	N	102.0	12.1	103.8	98.3%				
618	21-Jul-12	IF	Ph.1 LF, s. slope, below bench, b/w T-16 & T-17	3	N	102.3	11.0	103.8	98.6%				
619	21-Jul-12	IF	Ph.1 LF, s. slope, below bench, b/w T-17 & T-18	3	N	102.6	11.4	103.8	98.8%				
620	22-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #16, below bench	3A	N	102.9	11.7	101.3	101.6%				
621	22-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #16, below bench	2A	N	104.1	12.2	101.3	102.8%				
622	22-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #17, below bench	3A	N	102.7	12.7	101.3	101.4%				
623	22-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #17, below bench	2A	N	104.6	12.3	101.3	103.3%				
624	22-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #17, below bench	1A	N	103.3	12.0	101.3	102.0%				
625	23-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #18, below bench	2A	N	105.0	11.4	101.3	103.7%				
626	23-Jul-12	IF	Ph.1 LF, s. slope, below bench, b/w T-18 & T-19	3	N	101.1	12.6	101.3	99.8%				
627	23-Jul-12	IF	Ph.1 LF, s. slope, below bench, b/w T-19 & T-20	3	N	100.7	12.9	101.3	99.4%				
628	25-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #19, below bench	2A	N	102.6	12.7	101.3	101.3%				
629	25-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #19, below bench	1A	N	102.9	14.3	101.3	101.6%				
630	25-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #18, below bench	1A	C	103.7	12.9	101.3	102.4%	11.3	105.2	103.8%	
631	25-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #18, below bench	3A	N	103.3	12.6	101.3	102.0%				
632	25-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #19, below bench	3A	N	105.0	13.6	101.3	103.7%				
633	26-Jul-12	AT	Ph.1 LF, s. slope, upper anchor tr., above bench	2A	N	103.2	12.9	101.3	101.9%				4th 250' from E to W
634	27-Jul-12	AT	Ph.1 LF, s. slope, upper anchor tr., above bench	3A	N	102.6	14.4	101.3	101.3%				4th 250' from E to W
635	27-Jul-12	AT	Ph.1 LF, s. slope, upper anchor tr., above bench	1A	N	106.2	14.0	101.3	104.8%				5th 250' from E to W
636	27-Jul-12	AT	Ph.1 LF, s. slope, upper anchor tr., above bench	3A	N	103.7	12.1	101.3	102.4%				5th 250' from E to W
637	28-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #20, below bench	2A	N	104.3	13.5	105.3	99.1%				
638	28-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #20, below bench	1A	N	102.9	12.3	105.3	97.7%				
639	28-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #20, below bench	3A	N	102.8	12.1	105.3	97.6%				
640	28-Jul-12	IF	Ph.1 LF, s. slope, below bench, b/w T-13 & T-14	3	N	102.5	13.7	105.3	97.3%				
641	28-Jul-12	IF	Ph.1 LF, s. slope, below bench, b/w T-12 & T-13	3	N	101.9	12.0	105.3	96.8%				
642	28-Jul-12	IF	Ph.1 LF, s. slope, below bench, b/w T-11 & T-12	3	N	101.7	11.7	105.3	96.6%				
643	28-Jul-12	IF	Ph.1 LF, s. slope, below bench, b/w T-10 & T-11	3	N	102.1	13.3	105.3	97.0%				
644	28-Jul-12	AT	Ph.1 LF, s. slope, upper anchor tr.	2A	N	108.0	11.7	105.3	102.6%				3rd 250' from E to W

Table 6

SUMMARY OF SOIL FIELD DENSITY TESTING

Project : Sarasota County Phase I Landfill Closure

File 09-7375

Test No.	Test Date	Material Code	Location Description	Lift or Depth	Test Type	Dry Density (pcf)	Field Moisture (%)	Proctor Max Density (pcf)	Percent Compaction	Lab Moisture (%)	Recalc. Dry Density (pcf)	Recalc. Percent Compaction	Remarks
645	28-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #14, below bench	2A	N	102.7	14.3	105.3	97.5%				
646	28-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #14, below bench	1A	N	102.6	15.0	105.3	97.4%				
647	28-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #14, below bench	3A	N	104.2	12.7	105.3	99.0%				
648	28-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #13, below bench	2A	N	104.1	14.0	105.3	98.9%				
649	28-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #13, below bench	1A	N	102.5	12.7	105.3	97.3%				
650	28-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #13, below bench	3A	N	104.3	10.7	105.3	99.1%				
651	28-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #12, below bench	2A	N	102.7	14.9	105.3	97.5%				
652	28-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #12, below bench	1A	N	103.0	13.6	105.3	97.8%				
653	28-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #12 below bench	3A	N	105.9	10.4	105.3	100.6%				
654	30-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #11, below bench	1A	C	111.6	12.7	110.4	101.1%	15.4	109.0	98.7%	
655	30-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #11, below bench	2A	N	106.6	12.2	105.3	101.2%				
656	30-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #11, below bench	3A	N	105.4	12.0	105.3	100.1%				
657	31-Jul-12	IF	Ph.1 LF, s. slope, below bench, b/w T-9 & T-10	3	N	100.3	12.6	101.3	99.0%				
658	31-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #10, below bench	1A	N	102.5	13.7	101.3	101.2%				
659	31-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #10, below bench	2A	N	105.1	14.6	101.3	103.8%				
660	31-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #10, below bench	3A	N	104.0	10.1	101.3	102.7%				
661	31-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #9, below bench	3A	N	105.8	9.4	101.3	104.4%				
662	31-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #9, below bench	2A	N	102.6	10.3	101.3	101.3%				
663	31-Jul-12	AT	Ph.1 LF, s. slope, anchor tr. #9, below bench	1A	N	102.6	11.6	101.3	101.3%				
664	3-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #8, below bench	2A	N	108.0	11.2	109.6	98.5%				
665	3-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #8, below bench	1A	N	106.9	13.1	109.6	97.5%				
666	3-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #8, below bench	3A	N	104.9	12.9	109.6	95.7%				
667	3-Aug-12	IF	Ph.1 LF, s. slope, below bench, b/w T-8 & T-9	3	N	103.0	11.7	103.5	99.5%				
668	3-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #7, below bench	2A	N	105.9	14.3	109.6	96.6%				
669	3-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #7, below bench	1A	N	106.9	14.5	109.6	97.5%				
670	3-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #7, below bench	3A	N	105.5	12.3	109.6	96.3%				
671	4-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #6, below bench	2A	N	106.6	15.9	109.6	97.3%				
672	4-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #6, below bench	1A	N	107.3	14.3	109.6	97.9%				
673	4-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #6, below bench	3A	N	105.7	14.7	109.6	96.4%				
674	4-Aug-12	IF	Ph.1 LF, s. slope, below bench, b/w T-7 & T-8	3	N	107.7	13.3	108.3	99.4%				
675	4-Aug-12	IF	Ph.1 LF, s. slope, below bench, b/w T-6 & T-7	3	N	106.0	14.4	108.3	97.9%				
676	4-Aug-12	IF	Ph.1 LF, s. slope, below bench, b/w T-5 & T-6	3	N	105.5	15.1	108.3	97.4%				
677	4-Aug-12	IF	Ph.1 LF, s. slope, below bench, b/w T-4 & T-5	3	N	106.7	13.6	108.3	98.5%				
678	4-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #5, below bench	3A	N	106.2	14.3	109.6	96.9%				
679	4-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #5, below bench	2A	N	104.2	15.9	109.6	95.1%				
680	4-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #5, below bench	1A	C	109.0	14.4	109.6	99.5%	10.7	112.6	102.8%	
681	4-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #4, below bench	2A	N	106.4	12.9	109.6	97.1%				
682	4-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #4, below bench	1A	N	105.8	12.6	109.6	96.5%				
683	4-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #4, below bench	3A	N	106.9	14.6	109.6	97.5%				
684	4-Aug-12	AT	Ph.1 LF, s. slope, upper anchor tr., below bench	3A	N	111.0	8.7	109.6	101.3%				3rd 250' run
685	4-Aug-12	AT	Ph.1 LF, s. slope, upper anchor tr., below bench	1A	N	106.0	12.2	109.6	96.7%				3rd 250' run
686	4-Aug-12	AT	Ph.1 LF, s. slope, upper anchor tr., below bench	3A	N	110.4	7.8	109.6	100.7%				4th 250' run
687	4-Aug-12	AT	Ph.1 LF, s. slope, upper anchor tr., below bench	2A	N	108.7	15.3	109.6	99.2%				4th 250' run
688	4-Aug-12	AT	Ph.1 LF, s. slope, upper anchor tr., below bench	1A	N	108.0	11.2	109.6	98.5%				4th 250' run
689	8-Aug-12	IF	Ph.1 LF, s. slope, below bench, b/w T-20 & T-21	3	N	100.3	12.7	103.5	96.9%				
690	8-Aug-12	IF	Ph.1 LF, s. slope, below bench, b/w T-21 & T-22	3	N	101.0	13.3	103.5	97.6%				
691	8-Aug-12	IF	Ph.1 LF, s. slope, below bench, b/w T-22 & T-23	3	N	100.7	12.3	103.5	97.3%				
692	8-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #21, below bench	2A	N	102.6	14.3	101.3	101.3%				
693	8-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #21, below bench	1A	N	103.6	16.3	101.3	102.3%				
694	9-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #21, below bench	3A	C	111.3	15.1	111.1	100.2%	13.4	113.0	101.7%	

Table 6

SUMMARY OF SOIL FIELD DENSITY TESTING

Project : Sarasota County Phase I Landfill Closure

File 09-7375

Test No.	Test Date	Material Code	Location Description	Lift or Depth	Test Type	Dry Density (pcf)	Field Moisture (%)	Proctor Max Density (pcf)	Percent Compaction	Lab Moisture (%)	Recalc. Dry Density (pcf)	Recalc. Percent Compaction	Remarks
695	8-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #22, below bench	2A	N	106.4	11.9	103.5	102.8%				
696	8-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #22, below bench	1A	N	104.5	14.5	103.5	101.0%				
697	8-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #24, below bench	2A	N	106.1	11.7	103.5	102.5%				
698	8-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #24, below bench	1A	N	107.8	14.3	103.5	104.2%				
699	9-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #22, below bench	3A	N	105.1	14.8	103.5	101.5%				
700	9-Aug-12	IF	Ph.1 LF, s. slope, below bench, b/w T-23 & T-24	3	N	107.1	13.7	109.2	98.1%				
701	9-Aug-12	IF	Ph.1 LF, s. slope, below bench, b/w T-24 & T-25	3	N	106.6	13.0	109.2	97.6%				
702	9-Aug-12	IF	Ph.1 LF, s. slope, below bench, b/w T-25 & T-26	3	N	106.1	12.7	109.2	97.2%				
703	9-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #24, below bench	3A	N	104.9	14.0	109.2	96.1%				
704	9-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #25, below bench	3A	N	106.0	15.3	103.5	102.4%				
705	9-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #25, below bench	2A	N	103.3	16.1	103.5	99.8%				
706	9-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #26, below bench	2A	N	103.3	16.0	103.5	99.8%				
707	9-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #26, below bench	1A	N	103.5	18.1	103.5	100.0%				
708	9-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #23, below bench	2A	N	106.7	9.7	103.5	103.1%				
709	9-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #23, below bench	1A	N	102.7	9.7	103.5	99.2%				
710	9-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #26, below bench	3A	N	102.7	14.4	103.5	99.2%				
711	9-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #27, below bench	1A	N	104.2	15.1	103.5	100.7%				
712	10-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #23, below bench	3A	N	104.7	13.9	103.5	101.2%				
713	10-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #25, below bench	1A	N	102.5	16.3	101.3	101.2%				
714	10-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #27, below bench	3A	N	107.7	13.1	108.5	99.3%				
715	10-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #27, below bench	2A	N	105.2	14.3	108.5	97.0%				
716	10-Aug-12	IF	Ph.1 LF, s. slope, below bench, b/w T-26 & T-27	3	N	106.3	10.7	110.4	96.3%				
717	10-Aug-12	IF	Ph.1 LF, s. slope, below bench, b/w T-27 & T-28	3	N	105.5	9.6	110.4	95.6%				
718	10-Aug-12	IF	Ph.1 LF, s. slope, below bench, b/w T-28 & T-29	3	N	105.1	11.3	110.4	95.2%				
719	10-Aug-12	IF	Ph.1 LF, s. slope, below bench, b/w T-29 & T-30	3	C	107.8	12.4	110.4	97.6%	7.0	113.2	102.6%	
720	10-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #29, below bench	2A	N	103.0	14.3	103.5	99.5%				
721	10-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #29, below bench	1A	N	102.6	15.3	103.5	99.1%				
722	10-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #30, below bench	2A	N	102.7	16.3	103.5	99.2%				
723	11-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #29, below bench	3A	N	106.5	14.7	109.1	97.6%				
724	11-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #30, below bench	3A	N	104.8	14.1	109.1	96.1%				
725	11-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #30, below bench	1A	N	105.3	15.3	109.1	96.5%				
726	11-Aug-12	AT	Ph.1 LF, s. slope, upper anchor tr., below bench	3A	N	105.0	13.7	109.1	96.2%				5th 250' run
727	11-Aug-12	AT	Ph.1 LF, s. slope, upper anchor tr., below bench	2A	N	107.5	14.6	109.1	98.5%				5th 250' run
728	11-Aug-12	AT	Ph.1 LF, s. slope, upper anchor tr., below bench	1A	N	106.7	13.5	109.1	97.8%				5th 250' run
729	11-Aug-12	AT	Ph.1 LF, s. slope, upper anchor tr., below bench	3A	N	107.3	9.4	109.1	98.4%				2nd 250' run
730	11-Aug-12	AT	Ph.1 LF, s. slope, upper anchor tr., below bench	2A	N	109.1	13.2	109.1	100.0%				2nd 250' run
731	11-Aug-12	AT	Ph.1 LF, s. slope, upper anchor tr., below bench	1A	N	106.2	14.3	109.1	97.3%				2nd 250' run
732	11-Aug-12	AT	Ph.1 LF, s. slope, upper anchor tr., below bench	3A	N	108.7	9.8	109.1	99.6%				1st 250' run
733	11-Aug-12	AT	Ph.1 LF, s. slope, upper anchor tr., below bench	2A	N	105.6	17.1	109.1	96.8%				1st 250' run
734	11-Aug-12	AT	Ph.1 LF, s. slope, upper anchor tr., below bench	1A	N	107.2	17.6	109.1	98.3%				1st 250' run
735	11-Aug-12	AT	Ph.1 LF, s. slope, upper anchor tr., below bench	3A	N	106.2	11.8	109.1	97.3%				6th 250' run
736	11-Aug-12	AT	Ph.1 LF, s. slope, upper anchor tr., below bench	2A	N	104.7	15.1	109.1	96.0%				6th 250' run
737	11-Aug-12	AT	Ph.1 LF, s. slope, upper anchor tr., below bench	1A	N	103.8	15.8	109.1	95.1%				6th 250' run
738	11-Aug-12	IF	Ph.1 LF, s. slope, below bench, b/w T-30 to end	3	N	103.1	15.0	109.1	94.5%				6th 250' run
739	11-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #28, below bench	3A	C	106.2	11.6	109.1	97.3%	11.4	106.4	97.5%	
740	11-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #28, below bench	2A	N	106.7	16.7	109.1	97.8%				
741	11-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #28, below bench	1A	N	104.7	17.6	109.1	96.0%				
742	13-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #7, b/w roadway & bench	2A	N	103.4	16.1	108.3	95.5%				Far east area
743	13-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #7, b/w roadway & bench	1A	N	103.6	15.3	108.3	95.7%				Far east area
744	13-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #8, b/w roadway & bench	2A	N	104.3	14.4	108.3	96.3%				Far east area

Table 6

SUMMARY OF SOIL FIELD DENSITY TESTING

Project : Sarasota County Phase I Landfill Closure

File 09-7375

Test No.	Test Date	Material Code	Location Description	Lift or Depth	Test Type	Dry Density (pcf)	Field Moisture (%)	Proctor Max Density (pcf)	Percent Compaction	Lab Moisture (%)	Recalc. Dry Density (pcf)	Recalc. Percent Compaction	Remarks
745	13-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #8, b/w roadway & bench	1A	N	104.7	15.1	108.3	96.7%				Far east area
746	13-Aug-12	IF	Ph.1 LF, s. slope, b/w T-7 & T-8, b/w roadway & bench	3	N	104.0	13.6	108.3	96.0%				Far east area
747	13-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #7, b/w roadway & bench	3A	N	106.4	13.3	108.3	98.2%				Far east area
748	13-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #8, b/w roadway & bench	3A	N	103.5	17.1	108.3	95.6%				Far east area
749	13-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #6, b/w roadway & bench	2A	N	104.9	13.9	108.3	96.9%				Far east area
750	13-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #6, b/w roadway & bench	1A	N	102.9	13.0	108.3	95.0%				Far east area
751	14-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #6, b/w roadway & bench	3A	N	103.4	14.3	108.3	95.5%				Far east area
752	14-Aug-12	IF	Ph.1 LF, s. slope, b/w T-6 & T-7, b/w roadway & bench	3	N	104.6	14.0	108.3	96.6%				Far east area
753	15-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #3, b/w roadway & bench	3A	N	106.8	11.6	108.3	98.6%				Far east area
754	15-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #2, b/w roadway & bench	3A	N	105.9	11.9	108.3	97.8%				Far east area
755	15-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #1, b/w roadway & bench	3A	C	107.5	13.1	108.3	99.3%	9.0	111.5	103.0%	Far east area
756	15-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #5, b/w roadway & bench	2A	N	106.0	12.1	108.3	97.9%				Far east area
757	15-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #5, b/w roadway & bench	1A	N	104.6	13.2	108.3	96.6%				Far east area
758	15-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #5, b/w roadway & bench	3A	N	103.7	12.4	108.3	95.8%				Far east area
759	15-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #4, b/w roadway & bench	2A	N	106.3	11.8	108.3	98.2%				Far east area
760	15-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #4, b/w roadway & bench	1A	N	103.1	15.0	108.3	95.2%				Far east area
761	15-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #4, b/w roadway & bench	3A	N	105.3	12.5	108.3	97.2%				Far east area
762	15-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #3, b/w roadway & bench	2A	N	104.9	12.6	108.3	96.9%				Far east area
763	15-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #3, b/w roadway & bench	1A	N	103.1	16.2	108.3	95.2%				Far east area
764	15-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #2, b/w roadway & bench	2A	N	107.1	12.6	108.3	98.9%				Far east area
765	15-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #2, b/w roadway & bench	1A	N	103.2	15.3	108.3	95.3%				Far east area
766	15-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #1, b/w roadway & bench	2A	N	103.4	16.2	108.3	95.5%				Far east area
767	15-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #1, b/w roadway & bench	1A	N	104.2	15.5	108.3	96.2%				Far east area
768	15-Aug-12	IF	Ph.1 LF, s. slope, b/w T-1 & T-2, b/w roadway & bench	3	N	103.9	14.3	108.3	95.9%				Far east area
769	15-Aug-12	IF	Ph.1 LF, s. slope, b/w T-2 & T-3, b/w roadway & bench	3	N	103.6	14.0	108.3	95.7%				Far east area
770	15-Aug-12	IF	Ph.1 LF, s. slope, b/w T-3 & T-4, b/w roadway & bench	3	N	104.2	13.6	108.3	96.2%				Far east area
771	15-Aug-12	IF	Ph.1 LF, s. slope, b/w T-4 & T-5, b/w roadway & bench	3	N	104.9	15.2	108.3	96.9%				Far east area
772	15-Aug-12	IF	Ph.1 LF, s. slope, b/w T-5 & T-6, b/w roadway & bench	3	N	105.6	14.7	108.3	97.5%				Far east area
773	15-Aug-12	IF	Ph.1 LF, s. slope, b/w T-1 to end, b/w roadway & bench	3	N	105.0	13.9	108.3	97.0%				Far east area
774	15-Aug-12	AT	Ph.1 LF, s. slope, upper anchor tr., b/w roadway & bench	2A	N	106.8	9.8	108.3	98.6%				Far east area, 2nd 250' run
775	15-Aug-12	AT	Ph.1 LF, s. slope, upper anchor tr., b/w roadway & bench	1A	N	105.5	10.7	108.3	97.4%				Far east area, 2nd 250' run
776	15-Aug-12	AT	Ph.1 LF, s. slope, upper anchor tr., b/w roadway & bench	2A	N	105.1	11.7	108.3	97.0%				Far east area, 1st 250' run
777	15-Aug-12	AT	Ph.1 LF, s. slope, upper anchor tr., b/w roadway & bench	1A	N	104.6	10.6	108.3	96.6%				Far east area, 1st 250' run
778	16-Aug-12	AT	Ph.1 LF, s. slope, upper anchor tr., below bench	3A	N	104.7	14.3	108.3	96.7%				7th 250' run
779	16-Aug-12	AT	Ph.1 LF, s. slope, upper anchor tr., below bench	2A	N	103.7	14.8	108.3	95.8%				7th 250' run
780	16-Aug-12	AT	Ph.1 LF, s. slope, upper anchor tr., below bench	1A	C	111.1	14.0	109.1	101.8%	12.0	113.1	103.7%	7th 250' run
781	16-Aug-12	AT	Ph.1 LF, s. slope, upper anchor tr., b/w roadway & bench	3A	N	103.1	12.5	108.3	95.2%				Far east area, 1st 250' run
782	16-Aug-12	AT	Ph.1 LF, s. slope, upper anchor tr., b/w roadway & bench	3A	N	108.0	9.1	108.3	99.7%				Far east area, 2nd 250' run
783	16-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #9, b/w roadway & bench	2A	N	103.4	12.0	108.3	95.5%				Far east area
784	16-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #9, b/w roadway & bench	1A	N	103.2	15.7	108.3	95.3%				Far east area
785	16-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #10, b/w roadway & bench	2A	N	104.9	14.5	108.3	96.9%				Far east area
786	16-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #10, b/w roadway & bench	1A	N	102.9	16.3	108.3	95.0%				Far east area
787	16-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #11, b/w roadway & bench	2A	N	105.5	16.0	108.3	97.4%				Far east area
788	16-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #11, b/w roadway & bench	1A	N	106.0	14.7	108.3	97.9%				Far east area
789	16-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #9, b/w roadway & bench	3A	N	106.7	15.1	108.3	98.5%				Far east area
790	16-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #10, b/w roadway & bench	3A	N	102.9	16.1	108.3	95.0%				Far east area
791	16-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #11, b/w roadway & bench	3A	N	103.6	14.3	108.3	95.7%				Far east area
792	16-Aug-12	AT	Ph.1 LF, s. slope, upper anchor tr., below roadway	2A	N	103.9	12.6	108.3	95.9%				170' trench: 100' E & 70' W of gas well #23
793	16-Aug-12	AT	Ph.1 LF, s. slope, upper anchor tr., below roadway	1A	N	104.4	11.3	108.3	96.4%				170' trench: 100' E & 70' W of gas well #23
794	17-Aug-12	FF	Ph.1 LF, top of landfill, southwest area, above liner	2F	N	110.5	12.1	110.8	99.7%				

Table 6

SUMMARY OF SOIL FIELD DENSITY TESTING

Project : Sarasota County Phase I Landfill Closure

File 09-7375

Test No.	Test Date	Material Code	Location Description	Lift or Depth	Test Type	Dry Density (pcf)	Field Moisture (%)	Proctor Max Density (pcf)	Percent Compaction	Lab Moisture (%)	Recalc. Dry Density (pcf)	Recalc. Percent Compaction	Remarks
795	17-Aug-12	FF	Ph.1 LF, top of landfill, southwest area, above liner	2F	N	105.6	14.9	110.8	95.3%				
796	17-Aug-12	FF	Ph.1 LF, top of landfill, southwest area, above liner	2F	N	108.5	15.1	110.8	97.9%				
797	17-Aug-12	FF	Ph.1 LF, top of landfill, southwest area, above liner	2F	N	107.8	13.3	110.8	97.3%				
798	17-Aug-12	FF	Ph.1 LF, top of landfill, southwest area, above liner	2F	N	106.9	13.0	110.8	96.5%				
799	17-Aug-12	AT	Ph.1 LF, s. slope, upper anchor tr., s. of roadway shoulder	3A	N	106.1	12.3	108.3	98.0%				
800	17-Aug-12	AT	Ph.1 LF, s. slope, upper anchor tr., s. of roadway shoulder	4A	C	109.8	13.4	108.3	101.4%	10.5	112.7	104.0%	170' trench: 100' E & 70' W of gas well #23
801	20-Aug-12	AT	Ph.1 LF, s. slope, upper middle anchor tr., below rdwy	2A	N	104.9	14.2	109.2	96.1%				1st 250' run
802	20-Aug-12	AT	Ph.1 LF, s. slope, upper middle anchor tr., below rdwy	1A	N	104.7	12.0	109.2	95.9%				1st 250' run
803	20-Aug-12	AT	Ph.1 LF, s. slope, upper middle anchor tr., below rdwy	3A	N	107.8	9.1	109.2	98.7%				1st 250' run
804	20-Aug-12	AT	Ph.1 LF, s. slope, upper middle anchor tr., below rdwy	2A	N	103.9	15.7	109.2	95.1%				2nd 250' run
805	20-Aug-12	AT	Ph.1 LF, s. slope, upper middle anchor tr., below rdwy	1A	N	104.1	14.6	109.2	95.3%				2nd 250' run
806	20-Aug-12	AT	Ph.1 LF, s. slope, upper middle anchor tr., below rdwy	3A	N	106.3	12.8	109.2	97.3%				2nd 250' run
807	20-Aug-12	AT	Ph.1 LF, s. slope, upper middle anchor tr., below rdwy	2A	N	104.5	11.2	109.2	95.7%				80' run
808	20-Aug-12	AT	Ph.1 LF, s. slope, upper middle anchor tr., below rdwy	1A	N	103.8	11.4	109.2	95.1%				80' run
809	20-Aug-12	AT	Ph.1 LF, s. slope, upper middle anchor tr., below rdwy	3A	N	106.4	10.5	109.2	97.4%				80' run
810	23-Aug-12	AT	Ph.1 LF, s. slope, s. roadway shoulder anchor tr.	4A	N	107.0	13.1	108.0	99.1%				1st run east of 170' tr.
811	23-Aug-12	AT	Ph.1 LF, s. slope, s. roadway shoulder anchor tr.	3A	N	106.3	13.7	108.0	98.4%				1st run east of 170' tr.
812	23-Aug-12	AT	Ph.1 LF, s. slope, s. roadway shoulder anchor tr.	2A	N	104.3	14.0	108.0	96.6%				1st run east of 170' tr.
813	23-Aug-12	AT	Ph.1 LF, s. slope, s. roadway shoulder anchor tr.	1A	N	104.7	15.3	108.0	96.9%				1st run east of 170' tr.
814	23-Aug-12	AT	Ph.1 LF, s. slope, s. roadway shoulder anchor tr.	4A	N	105.9	13.6	108.0	98.1%				2nd 250' run e. of 170' tr.
815	23-Aug-12	AT	Ph.1 LF, s. slope, s. roadway shoulder anchor tr.	3A	N	105.6	14.0	108.0	97.8%				2nd 250' run e. of 170' tr.
816	23-Aug-12	AT	Ph.1 LF, s. slope, s. roadway shoulder anchor tr.	2A	N	104.9	14.5	108.0	97.1%				2nd 250' run e. of 170' tr.
817	23-Aug-12	AT	Ph.1 LF, s. slope, s. roadway shoulder anchor tr.	1A	N	104.1	15.7	108.0	96.4%				2nd 250' run e. of 170' tr.
818	24-Aug-12	AT	Ph.1 LF, s. slope, s. roadway shoulder anchor tr.	4A	N	107.1	10.5	108.0	99.2%				700' rdwy shoulder section
819	24-Aug-12	AT	Ph.1 LF, s. slope, s. roadway shoulder anchor tr.	2A	N	106.1	11.2	108.0	98.2%				700' rdwy shoulder section
820	24-Aug-12	AT	Ph.1 LF, s. slope, s. roadway shoulder anchor tr.	3A	C	113.6	13.7	114.4	99.3%	8.1	119.5	104.4%	700' rdwy shoulder section
821	24-Aug-12	AT	Ph.1 LF, s. slope, s. roadway shoulder anchor tr.	1A	N	105.4	13.6	108.0	97.6%				700' rdwy shoulder section
822	24-Aug-12	AT	Ph.1 LF, s. slope, lower anchor tr., below roadway	3A	N	104.8	15.3	108.0	97.0%				East side
823	24-Aug-12	AT	Ph.1 LF, s. slope, lower anchor tr., below roadway	2A	N	104.3	15.7	108.0	96.6%				East side
824	24-Aug-12	AT	Ph.1 LF, s. slope, lower anchor tr., below roadway	1A	N	103.9	16.3	108.0	96.2%				East side
825	31-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #1, above bench	2A	N	103.3	17.2	101.3	102.0%				Middle section, west end
826	31-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #1, above bench	1A	N	102.5	16.1	101.3	101.2%				Middle section, west end
827	31-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #2, above bench	2A	N	103.7	15.7	101.3	102.4%				Middle section, west end
828	31-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #2, above bench	1A	N	105.6	16.3	101.3	104.2%				Middle section, west end
829	31-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #3, above bench	2A	N	103.1	16.5	101.3	101.8%				Middle section, west end
830	31-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #3, above bench	1A	N	102.8	16.0	101.3	101.5%				Middle section, west end
831	31-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #4, above bench	2A	N	102.9	14.3	101.3	101.6%				Middle section, west end
832	31-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #4, above bench	1A	N	103.3	15.1	101.3	102.0%				Middle section, west end
833	31-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #1, above bench	3A	N	104.6	14.1	101.3	103.3%				Middle section, west end
834	31-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #2, above bench	3A	N	103.3	18.0	101.3	102.0%				Middle section, west end
835	31-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #3, above bench	3A	N	105.4	13.0	101.3	104.0%				Middle section, west end
836	31-Aug-12	AT	Ph.1 LF, s. slope, anchor tr. #4, above bench	3A	N	103.6	16.3	101.3	102.3%				Middle section, west end
837	1-Sep-12	AT	Ph.1 LF, s. slope, anchor tr. #5, above bench	2A	N	102.6	16.1	101.3	101.3%				To top of ridge, west end
838	1-Sep-12	AT	Ph.1 LF, s. slope, anchor tr. #5, above bench	1A	N	103.1	17.2	101.3	101.8%				To top of ridge, west end
839	1-Sep-12	AT	Ph.1 LF, s. slope, anchor tr. #5, above bench	3A	N	103.6	15.3	101.3	102.3%				To top of ridge, west end
840	1-Sep-12	AT	Ph.1 LF, s. slope, anchor tr. #5, above bench	4A	C	104.9	13.0	101.3	103.6%	14.1	103.9	102.6%	To top of ridge, west end
841	1-Sep-12	AT	Ph.1 LF, s. slope, anchor tr. #6, above bench	3A	N	105.1	15.9	101.3	103.8%				To top of ridge, west end
842	1-Sep-12	AT	Ph.1 LF, s. slope, anchor tr. #6, above bench	2A	N	102.9	16.3	101.3	101.6%				To top of ridge, west end
843	1-Sep-12	AT	Ph.1 LF, s. slope, anchor tr. #6, above bench	1A	N	103.3	19.6	101.3	102.0%				To top of ridge, west end
844	1-Sep-12	AT	Ph.1 LF, s. slope, anchor tr. #6, above bench	4A	N	106.3	13.0	101.3	104.9%				To top of ridge, west end

Table 6

SUMMARY OF SOIL FIELD DENSITY TESTING

Project : Sarasota County Phase I Landfill Closure

File 09-7375

Test No.	Test Date	Material Code	Location Description	Lift or Depth	Test Type	Dry Density (pcf)	Field Moisture (%)	Proctor Max Density (pcf)	Percent Compaction	Lab Moisture (%)	Recalc. Dry Density (pcf)	Recalc. Percent Compaction	Remarks
845	1-Sep-12	AT	Ph.1 LF, s. slope, upper middle anchor tr., above bench	2A	N	102.9	17.3	101.3	101.6%				1st 250' run
846	1-Sep-12	AT	Ph.1 LF, s. slope, upper middle anchor tr., above bench	1A	N	103.5	16.6	101.3	102.2%				1st 250' run
847	1-Sep-12	AT	Ph.1 LF, s. slope, lower middle anchor tr., above bench	2A	N	107.0	10.0	101.3	105.6%				1st 250' run
848	1-Sep-12	AT	Ph.1 LF, s. slope, lower middle anchor tr., above bench	1A	N	105.3	17.3	101.3	103.9%				1st 250' run
849	1-Sep-12	AT	Ph.1 LF, s. slope, lower middle anchor tr., above bench	3A	N	104.6	10.3	101.3	103.3%				1st 250' run
850	3-Sep-12	AT	Ph.1 LF, s. slope, upper anchor tr., above bench	3A	N	106.4	11.5	109.4	97.3%				1st 250' run, top of ridge
851	3-Sep-12	AT	Ph.1 LF, s. slope, anchor tr. #7, above bench	3A	N	106.6	10.6	109.4	97.4%				Top of ridge
852	3-Sep-12	AT	Ph.1 LF, s. slope, anchor tr. #7, above bench	2A	N	105.7	11.7	109.4	96.6%				Top of ridge
853	3-Sep-12	AT	Ph.1 LF, s. slope, anchor tr. #7, above bench	1A	N	105.0	12.1	109.4	96.0%				Top of ridge
854	3-Sep-12	AT	Ph.1 LF, s. slope, anchor tr. #7, above bench	4A	N	107.1	13.4	109.4	97.9%				Top of ridge
855	3-Sep-12	AT	Ph.1 LF, s. slope, anchor tr. #8, above bench	3A	N	104.6	14.7	101.3	103.3%				Top of ridge
856	3-Sep-12	AT	Ph.1 LF, s. slope, anchor tr. #8, above bench	2A	N	102.9	15.1	101.3	101.6%				Top of ridge
857	3-Sep-12	AT	Ph.1 LF, s. slope, anchor tr. #8, above bench	1A	N	103.1	17.3	101.3	101.8%				Top of ridge
858	3-Sep-12	AT	Ph.1 LF, s. slope, anchor tr. #8, above bench	4A	C	110.9	12.9	109.4	101.4%	10.4	113.4	103.7%	West end
859	3-Sep-12	AT	Ph.1 LF, s. slope, anchor tr. #9, above bench	3A	N	104.6	13.6	101.3	103.3%				Top of ridge
860	3-Sep-12	AT	Ph.1 LF, s. slope, anchor tr. #9, above bench	2A	N	103.3	13.0	101.3	102.0%				Top of ridge
861	3-Sep-12	AT	Ph.1 LF, s. slope, anchor tr. #9, above bench	1A	N	102.6	14.3	101.3	101.3%				Top of ridge
862	3-Sep-12	AT	Ph.1 LF, s. slope, anchor tr. #9, above bench	4A	N	102.9	13.1	101.3	101.6%				Top of ridge
863	4-Sep-12	AT	Ph.1 LF, s. slope, upper anchor tr., above bench	3A	N	103.4	14.3	101.3	102.1%				
864	4-Sep-12	AT	Ph.1 LF, s. slope, upper anchor tr., above bench	2A	N	103.0	15.2	101.3	101.7%				
865	4-Sep-12	AT	Ph.1 LF, s. slope, upper anchor tr., above bench	1A	N	104.3	16.0	101.3	103.0%				
866	4-Sep-12	AT	Ph.1 LF, s. slope, lower anchor tr., above bench	3A	N	110.0	10.0	110.5	99.5%				2nd 250' run
867	4-Sep-12	AT	Ph.1 LF, s. slope, lower anchor tr., above bench	2A	N	109.7	12.4	110.5	99.3%				2nd 250' run
868	4-Sep-12	AT	Ph.1 LF, s. slope, lower anchor tr., above bench	1A	N	108.7	11.6	110.5	98.4%				2nd 250' run
869	5-Sep-12	AT	Ph.1 LF, s. slope, lower anchor tr., above bench	2A	N	110.6	12.9	109.4	101.1%				Middle section, west end
870	5-Sep-12	AT	Ph.1 LF, s. slope, lower anchor tr., above bench	1A	N	108.7	11.3	109.4	99.4%				Middle section, west end
871	5-Sep-12	AT	Ph.1 LF, s. slope, lower anchor tr., above bench	3A	N	106.9	10.7	109.4	97.7%				Middle section, west end
872	5-Sep-12	AT	Ph.1 LF, s. slope, lower anchor tr., above bench	2A	N	107.4	11.7	109.4	98.2%				1st 250' run
873	5-Sep-12	AT	Ph.1 LF, s. slope, lower anchor tr., above bench	1A	N	106.5	18.1	109.4	97.3%				1st 250' run
874	5-Sep-12	AT	Ph.1 LF, s. slope, lower anchor tr., above bench	3A	N	107.6	11.6	109.4	98.4%				1st 250' run
875	5-Sep-12	AT	Ph.1 LF, s. slope, upper anchor tr., above bench	2A	N	107.3	14.1	109.4	98.1%				2nd 250' run
876	5-Sep-12	AT	Ph.1 LF, s. slope, upper anchor tr., above bench	1A	N	106.6	15.3	109.4	97.4%				2nd 250' run
877	5-Sep-12	AT	Ph.1 LF, s. slope, upper anchor tr., above bench	3A	N	105.9	12.0	109.4	96.8%				2nd 250' run
878	7-Sep-12	AT	Ph.1 LF, s. slope, upper anchor tr., above bench	2A	N	106.0	10.9	110.4	96.0%				1st 250' run
879	7-Sep-12	AT	Ph.1 LF, s. slope, upper anchor tr., above bench	1A	N	106.8	11.3	110.4	96.7%				1st 250' run
880	7-Sep-12	AT	Ph.1 LF, s. slope, upper anchor tr., above bench	3A	C	108.0	11.1	110.4	97.8%	7.7	111.4	100.9%	1st 250' run
881	7-Sep-12	AT	Ph.1 LF, s. slope, upper anchor tr., above bench	2A	N	106.4	10.4	110.4	96.4%				2nd 250' run
882	7-Sep-12	AT	Ph.1 LF, s. slope, upper anchor tr., above bench	1A	N	107.3	9.7	110.4	97.2%				2nd 250' run
883	7-Sep-12	AT	Ph.1 LF, s. slope, upper anchor tr., above bench	3A	N	104.9	9.1	110.4	95.0%				2nd 250' run
884	8-Sep-12	AT	Ph.1 LF, s. slope, upper anchor tr., above bench	2A	N	107.3	11.3	110.4	97.2%				3rd 250' run
885	8-Sep-12	AT	Ph.1 LF, s. slope, upper anchor tr., above bench	1A	N	107.7	11.7	110.4	97.6%				3rd 250' run
886	8-Sep-12	AT	Ph.1 LF, s. slope, upper anchor tr., above bench	3A	N	107.0	8.7	110.4	96.9%				3rd 250' run
887	10-Sep-12	AT	Ph.1 LF, s. slope, lower anchor tr., above bench	2A	N	102.5	15.2	103.6	98.9%				Middle section
888	10-Sep-12	AT	Ph.1 LF, s. slope, lower anchor tr., above bench	1A	N	103.6	15.4	103.6	100.0%				Middle section
889	10-Sep-12	AT	Ph.1 LF, s. slope, lower anchor tr., above bench	3A	N	103.1	14.3	103.6	99.5%				Middle section
890	12-Sep-12	AT	Ph.1 LF, s. slope, rdwy. shoulder south tr., above bench	1A	N	106.1	14.3	108.5	97.8%				1st 250' run
891	12-Sep-12	AT	Ph.1 LF, s. slope, rdwy. shoulder south tr., above bench	2A	N	106.9	13.7	108.5	98.5%				1st 250' run
892	12-Sep-12	AT	Ph.1 LF, s. slope, rdwy. shoulder south tr., above bench	3A	N	107.3	12.1	108.5	98.9%				1st 250' run
893	12-Sep-12	AT	Ph.1 LF, s. slope, rdwy. shoulder south tr., above bench	4A	C	110.6	13.0	108.5	101.9%	10.0	113.6	104.7%	1st 250' run
894	12-Sep-12	AT	Ph.1 LF, s. slope, rdwy. shoulder south tr., above bench	1A	N	105.6	15.3	108.5	97.3%				2nd 250' run

Table 6

SUMMARY OF SOIL FIELD DENSITY TESTING

Project : Sarasota County Phase I Landfill Closure

File 09-7375

Test No.	Test Date	Material Code	Location Description	Lift or Depth	Test Type	Dry Density (pcf)	Field Moisture (%)	Proctor Max Density (pcf)	Percent Compaction	Lab Moisture (%)	Recalc. Dry Density (pcf)	Recalc. Percent Compaction	Remarks
895	12-Sep-12	AT	Ph.1 LF, s. slope, rdwy. shoulder south tr., above bench	2A	N	106.3	14.0	108.5	98.0%				2nd 250' run
896	12-Sep-12	AT	Ph.1 LF, s. slope, rdwy. shoulder south tr., above bench	3A	N	107.0	13.3	108.5	98.6%				2nd 250' run
897	13-Sep-12	AT	Ph.1 LF, s. slope, rdwy. shoulder south tr., above bench	1A	N	104.4	11.6	108.5	96.2%				3rd 250' run
898	13-Sep-12	AT	Ph.1 LF, s. slope, rdwy. shoulder south tr., above bench	2A	N	105.6	10.7	108.5	97.3%				3rd 250' run
899	13-Sep-12	AT	Ph.1 LF, s. slope, rdwy. shoulder south tr., above bench	3A	N	105.9	10.1	108.5	97.6%				3rd 250' run
900	13-Sep-12	AT	Ph.1 LF, s. slope, rdwy. shoulder south tr., above bench	4A	N	106.6	10.8	108.5	98.2%				3rd 250' run
901	13-Sep-12	AT	Ph.1 LF, s. slope, rdwy. shoulder south tr., above bench	4A	N	107.2	11.4	108.5	98.8%				2nd 250' run
902	13-Sep-12	BF	Ph.1 LF, s. side, 3-way int., 24" drain pipe, e. side of pipe	SL	N	110.7	13.9	111.1	99.6%				On hard road
903	13-Sep-12	BF	Ph.1 LF, s. side, 3-way int., 24" drain pipe, w. side of pipe	SL	N	111.1	12.6	111.1	100.0%				On hard road
904	13-Sep-12	BF	Ph.1 LF, s. side, 24" drain pipe at 3-way int.	0' AP	N	110.3	12.0	111.1	99.3%				On hard road
905	13-Sep-12	BF	Ph.1 LF, s. side, 24" drain pipe at 3-way int.	1' AP	N	109.8	11.6	111.1	98.8%				On hard road
906	13-Sep-12	BF	Ph.1 LF, s. side, 24" drain pipe at 3-way int.	2' AP	N	109.3	10.6	111.1	98.4%				On hard road
907	13-Sep-12	BF	Ph.1 LF, s. side, 24" drain pipe at 3-way int.	3' AP	N	111.3	10.2	111.1	100.2%				On hard road
908	14-Sep-12	AT	Ph.1 LF, s. slope, anchor tr. #3, below bench	3A	N	102.9	11.3	103.5	99.4%				Lower section, far west area
909	14-Sep-12	AT	Ph.1 LF, s. slope, anchor tr. #3, below bench	2A	N	103.3	12.7	103.5	99.8%				Lower section, far west area
910	14-Sep-12	AT	Ph.1 LF, s. slope, anchor tr. #3, below bench	1A	N	104.4	10.7	103.5	100.9%				Lower section, far west area
911	14-Sep-12	AT	Ph.1 LF, s. slope, anchor tr. #2, below bench	3A	N	105.5	11.4	103.5	101.9%				Lower section, far west area
912	14-Sep-12	AT	Ph.1 LF, s. slope, anchor tr. #2, below bench	2A	N	102.8	12.7	103.5	99.3%				Lower section, far west area
913	14-Sep-12	AT	Ph.1 LF, s. slope, anchor tr. #2, below bench	1A	N	105.7	13.1	103.5	102.1%				Lower section, far west area
914	14-Sep-12	BF	Ph.1 LF, s. side, 3-way int., 24" drain pipe, e. side of pipe	SL	N	107.7	14.3	109.0	98.8%				On hard road, middle area
915	14-Sep-12	BF	Ph.1 LF, s. side, 3-way int., 24" drain pipe, w. side of pipe	SL	N	107.3	13.3	109.0	98.4%				On hard road, middle area
916	14-Sep-12	BF	Ph.1 LF, s. side, 24" drain pipe at 3-way int.	0' AP	N	108.1	13.0	109.0	99.2%				On hard road, middle area
917	14-Sep-12	BF	Ph.1 LF, s. side, 24" drain pipe at 3-way int.	1' AP	N	108.9	12.6	109.0	99.9%				On hard road, middle area
918	14-Sep-12	BF	Ph.1 LF, s. side, 24" drain pipe at 3-way int.	2' AP	C	107.1	12.0	109.0	98.3%	12.9	106.2	97.5%	On hard road, middle area
919	14-Sep-12	BF	Ph.1 LF, s. side, 24" drain pipe out of drain box, w. side of pipe	SL	N	106.9	14.3	109.0	98.1%				On hard road, east end
920	14-Sep-12	BF	Ph.1 LF, s. side, 24" drain pipe out of drain box, e. side of pipe	SL	N	107.5	13.1	109.0	98.6%				On hard road, east end
921	14-Sep-12	BF	Ph.1 LF, s. side, east end, 24" drain pipe out of drain box	0' AP	N	108.6	13.4	109.0	99.6%				On hard road
922	14-Sep-12	BF	Ph.1 LF, s. side, east end, 24" drain pipe out of drain box	1' AP	N	108.1	13.1	109.0	99.2%				On hard road
923	14-Sep-12	BF	Ph.1 LF, s. side, east end, 24" drain pipe out of drain box	2' AP	N	107.7	12.2	109.0	98.8%				On hard road
924	15-Sep-12	BF	Ph.1 LF, s. side, east end, 24" drain pipe, e. side of pipe	SL	N	109.0	12.5	109.0	100.0%				On hard road
925	15-Sep-12	BF	Ph.1 LF, s. side, east end, 24" drain pipe, w. side of pipe	SL	N	108.3	12.0	109.0	99.4%				On hard road
926	15-Sep-12	BF	Ph.1 LF, s. side, east end, 24" drain pipe	0' AP	N	108.0	11.6	109.0	99.1%				On hard road
927	15-Sep-12	BF	Ph.1 LF, s. side, east end, 24" drain pipe	1' AP	N	107.3	11.1	109.0	98.4%				On hard road
928	15-Sep-12	BF	Ph.1 LF, s. side, east end, 24" drain pipe	2' AP	N	108.7	10.7	109.0	99.7%				On hard road
929	18-Sep-12	AT	Ph.1 LF, s. slope, lower anchor tr., below bench	3A	N	102.9	14.4	103.5	99.4%				Far west area
930	18-Sep-12	AT	Ph.1 LF, s. slope, lower anchor tr., below bench	2A	N	103.4	14.0	103.5	99.9%				Far west area
931	18-Sep-12	AT	Ph.1 LF, s. slope, lower anchor tr., below bench	1A	N	102.5	13.5	103.5	99.0%				Far west area
932	25-Sep-12	AT	Ph.1 LF, s. slope, n. side access road trench	3A	N	106.1	13.7	108.0	98.2%				1st 250' run
933	25-Sep-12	AT	Ph.1 LF, s. slope, n. side access road trench	2A	N	105.4	12.6	108.0	97.6%				1st 250' run
934	25-Sep-12	AT	Ph.1 LF, s. slope, n. side access road trench	1A	N	104.9	14.3	108.0	97.1%				1st 250' run
935	6-Oct-12	AT	Ph.1 LF, s. slope, n. side access road trench	3A	N	104.8	12.3	108.0	97.0%				2nd 250' run
936	6-Oct-12	AT	Ph.1 LF, s. slope, n. side access road trench	2A	N	105.6	13.1	108.0	97.8%				2nd 250' run
937	6-Oct-12	AT	Ph.1 LF, s. slope, n. side access road trench	1A	N	106.3	14.5	108.0	98.4%				2nd 250' run
938	25-Sep-12	AT	Ph.1 LF, s. slope, n. side access road trench	3A	C	106.4	10.4	108.0	98.5%	7.6	109.2	101.1%	Top of road to bottom of road
939	6-Oct-12	AT	Ph.1 LF, s. slope, n. side access road trench	2A	N	105.0	12.6	108.0	97.2%				3rd 250' run
940	6-Oct-12	AT	Ph.1 LF, s. slope, n. side access road trench	1A	N	105.5	12.9	108.0	97.7%				3rd 250' run
941	6-Oct-12	AT	Ph.1 LF, s. slope, n. side access road trench	3A	N	106.1	14.3	108.0	98.2%				4th 250' run
942	6-Oct-12	AT	Ph.1 LF, s. slope, n. side access road trench	2A	N	105.7	14.0	108.0	97.9%				4th 250' run
943	6-Oct-12	AT	Ph.1 LF, s. slope, n. side access road trench	1A	N	104.3	14.6	108.0	96.6%				4th 250' run
944	7-Oct-12	AT	Ph.1 LF, s. side, toe anchor trench	3A	N	110.1	12.7	109.2	100.8%				1st 250' run, east to west

Table 6

SUMMARY OF SOIL FIELD DENSITY TESTING

Project : Sarasota County Phase I Landfill Closure

File 09-7375

Test No.	Test Date	Material Code	Location Description	Lift or Depth	Test Type	Dry Density (pcf)	Field Moisture (%)	Proctor Max Density (pcf)	Percent Compaction	Lab Moisture (%)	Recalc. Dry Density (pcf)	Recalc. Percent Compaction	Remarks
945	7-Oct-12	AT	Ph.1 LF, s. side, toe anchor trench	2A	N	108.6	12.0	109.2	99.5%				1st 250' run, east to west
946	7-Oct-12	AT	Ph.1 LF, s. side, toe anchor trench	1A	N	107.3	11.7	109.2	98.3%				1st 250' run, east to west
947	8-Oct-12	AT	Ph.1 LF, s. side, toe anchor trench	3A	N	107.6	13.1	109.2	98.5%				2nd 250' run, east to west
948	8-Oct-12	AT	Ph.1 LF, s. side, toe anchor trench	2A	N	109.6	12.3	109.2	100.4%				2nd 250' run, east to west
949	8-Oct-12	AT	Ph.1 LF, s. side, toe anchor trench	1A	N	108.1	12.5	109.2	99.0%				2nd 250' run, east to west
950	9-Oct-12	AT	Ph.1 LF, s. side, toe anchor trench	3A	N	105.9	13.1	109.2	97.0%				3rd 250' run, east to west
951	9-Oct-12	AT	Ph.1 LF, s. side, toe anchor trench	2A	N	105.5	14.0	109.2	96.6%				3rd 250' run, east to west
952	9-Oct-12	AT	Ph.1 LF, s. side, toe anchor trench	1A	N	104.7	13.6	109.2	95.9%				3rd 250' run, east to west
953	9-Oct-12	AT	Ph.1 LF, s. side, toe anchor trench	3A	N	107.8	12.4	109.2	98.7%				4th 250' run, east to west
954	9-Oct-12	AT	Ph.1 LF, s. side, toe anchor trench	2A	N	106.4	12.9	109.2	97.4%				4th 250' run, east to west
955	9-Oct-12	AT	Ph.1 LF, s. side, toe anchor trench	1A	N	106.0	13.5	109.2	97.1%				4th 250' run, east to west
956	10-Oct-12	AT	Ph.1 LF, s. side, toe anchor trench	3A	C	107.7	12.9	109.2	98.6%	10.3	110.2	101.0%	5th 250' run
957	10-Oct-12	AT	Ph.1 LF, s. side, toe anchor trench	2A	N	105.8	12.4	109.2	96.9%				5th 250' run
958	10-Oct-12	AT	Ph.1 LF, s. side, toe anchor trench	1A	N	106.3	11.6	109.2	97.3%				5th 250' run
959	10-Oct-12	AT	Ph.1 LF, s. side, toe anchor trench	3A	N	106.8	10.5	109.2	97.8%				6th 250' run
960	10-Oct-12	AT	Ph.1 LF, s. side, toe anchor trench	2A	N	106.0	11.9	109.2	97.1%				6th 250' run
961	10-Oct-12	AT	Ph.1 LF, s. side, toe anchor trench	1A	N	107.3	12.7	109.2	98.3%				6th 250' run
962	11-Oct-12	AT	Ph.1 LF, s. side, toe anchor trench	3A	N	106.3	13.0	109.2	97.3%				7th 250' run
963	11-Oct-12	AT	Ph.1 LF, s. side, toe anchor trench	2A	N	105.4	13.6	109.2	96.5%				7th 250' run
964	11-Oct-12	AT	Ph.1 LF, s. side, toe anchor trench	1A	N	104.8	14.2	109.2	96.0%				7th 250' run
965	13-Oct-12	SG	Ph.1 LF, access road, south slope	SG	N	110.3	9.3	110.0	100.3%				1st 200' run
966	13-Oct-12	SG	Ph.1 LF, access road, south slope	SG	N	111.7	8.9	110.0	101.5%				2nd 200' run
967	13-Oct-12	SG	Ph.1 LF, access road, south slope	SG	N	112.6	11.1	110.0	102.4%				3rd 200' run
968	13-Oct-12	SG	Ph.1 LF, access road, south slope	SG	N	110.1	10.6	110.0	100.1%				4th 200' run
969	13-Oct-12	AT	Ph.1 LF, s. slope, n. side access road trench	3A	N	107.0	11.4	108.0	99.1%				5th 250' run
970	13-Oct-12	AT	Ph.1 LF, s. slope, n. side access road trench	2A	N	106.3	12.0	108.0	98.4%				5th 250' run
971	13-Oct-12	AT	Ph.1 LF, s. slope, n. side access road trench	1A	N	105.3	12.9	108.0	97.5%				5th 250' run
972	13-Oct-12	AT	Ph.1 LF, s. slope, n. side access road trench	3A	N	106.7	12.6	108.0	98.8%				6th 250' run
973	13-Oct-12	AT	Ph.1 LF, s. slope, n. side access road trench	2A	N	105.8	13.0	108.0	98.0%				6th 250' run
974	13-Oct-12	AT	Ph.1 LF, s. slope, n. side access road trench	1A	N	104.9	13.3	108.0	97.1%				6th 250' run
975	13-Oct-12	AT	Ph.1 LF, s. slope, n. side access road trench	3A	C	103.7	9.9	108.0	96.0%	8.4	105.1	97.3%	7th 250' run
976	13-Oct-12	AT	Ph.1 LF, s. slope, n. side access road trench	2A	N	106.7	11.8	108.0	98.8%				7th 250' run
977	13-Oct-12	AT	Ph.1 LF, s. slope, n. side access road trench	1A	N	105.4	12.7	108.0	97.6%				7th 250' run
978	15-Oct-12	SG	Ph.1 LF, access road, south slope	SG	N	109.4	11.6	110.0	99.5%				5th 200' run
979	15-Oct-12	SG	Ph.1 LF, access road, south slope	SG	N	111.7	9.2	110.0	101.5%				6th 200' run
980	15-Oct-12	SG	Ph.1 LF, access road, south slope	SG	N	110.4	9.6	110.0	100.4%				7th 200' run
981	15-Oct-12	SG	Ph.1 LF, access road, south slope	SG	N	109.2	9.1	110.0	99.3%				8th 200' run
982	23-Oct-12	BA	Ph.1 LF, access road, south slope	1B	N	128.3	6.7	130.0	98.7%				1st 200' run
983	23-Oct-12	BA	Ph.1 LF, access road, south slope	1B	N	127.8	8.0	130.0	98.3%				2nd 200' run
984	23-Oct-12	BA	Ph.1 LF, access road, south slope	1B	N	128.0	7.7	130.0	98.5%				3rd 200' run
985	23-Oct-12	BA	Ph.1 LF, access road, south slope	1B	N	127.5	9.0	130.0	98.1%				4th 200' run
986	23-Oct-12	BA	Ph.1 LF, access road, south slope	1B	N	129.1	8.6	130.0	99.3%				5th 200' run
987	23-Oct-12	BA	Ph.1 LF, access road, south slope	1B	N	128.6	9.1	130.0	98.9%				6th 200' run
988	23-Oct-12	BA	Ph.1 LF, access road, south slope	1B	N	127.9	7.3	130.0	98.4%				7th 200' run
989	23-Oct-12	BA	Ph.1 LF, access road, south slope	1B	N	129.4	8.1	130.0	99.5%				8th 200' run
990	26-Oct-12	BA	Ph.1 LF, access road, south slope	2B	N	128.9	10.6	130.0	99.2%				1st 200' run
991	26-Oct-12	BA	Ph.1 LF, access road, south slope	2B	N	128.1	11.3	130.0	98.5%				2nd 200' run
992	26-Oct-12	BA	Ph.1 LF, access road, south slope	2B	N	127.7	10.1	130.0	98.2%				3rd 200' run
993	26-Oct-12	BA	Ph.1 LF, access road, south slope	2B	N	129.3	9.6	130.0	99.5%				4th 200' run
994	26-Oct-12	BA	Ph.1 LF, access road, south slope	2B	N	128.5	10.5	130.0	98.8%				5th 200' run

Table 6

SUMMARY OF SOIL FIELD DENSITY TESTING

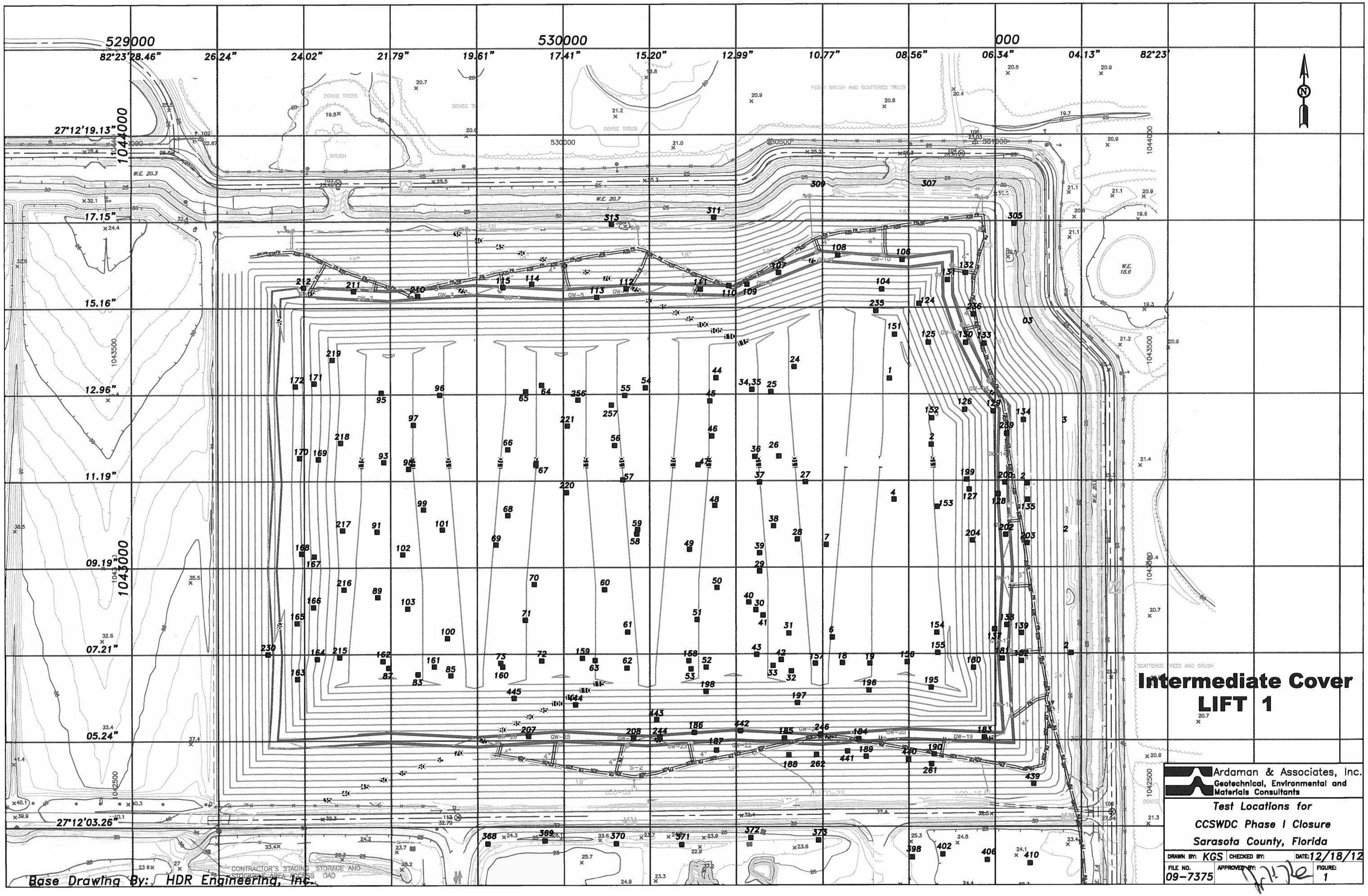
Project : Sarasota County Phase I Landfill Closure

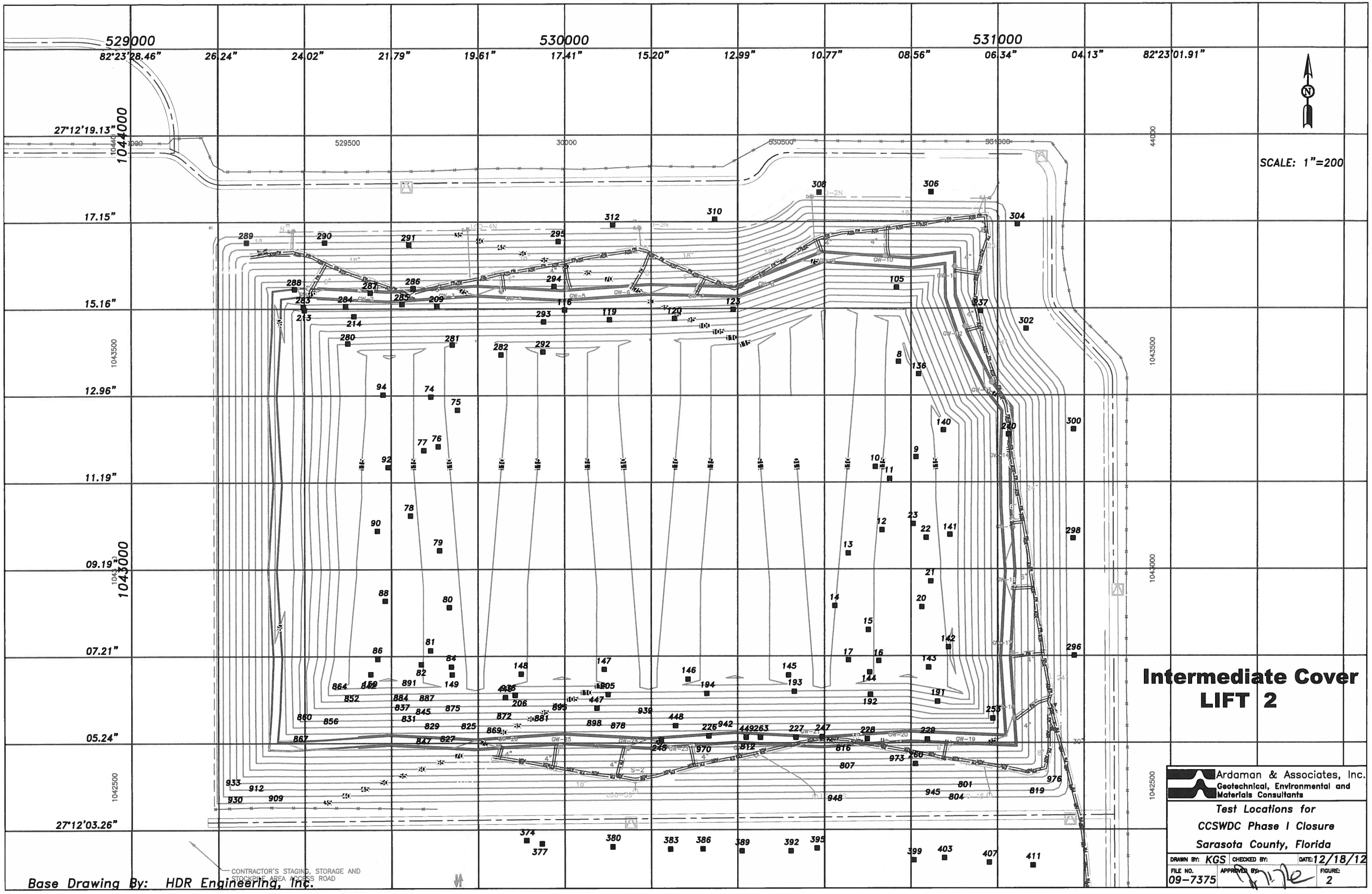
File 09-7375

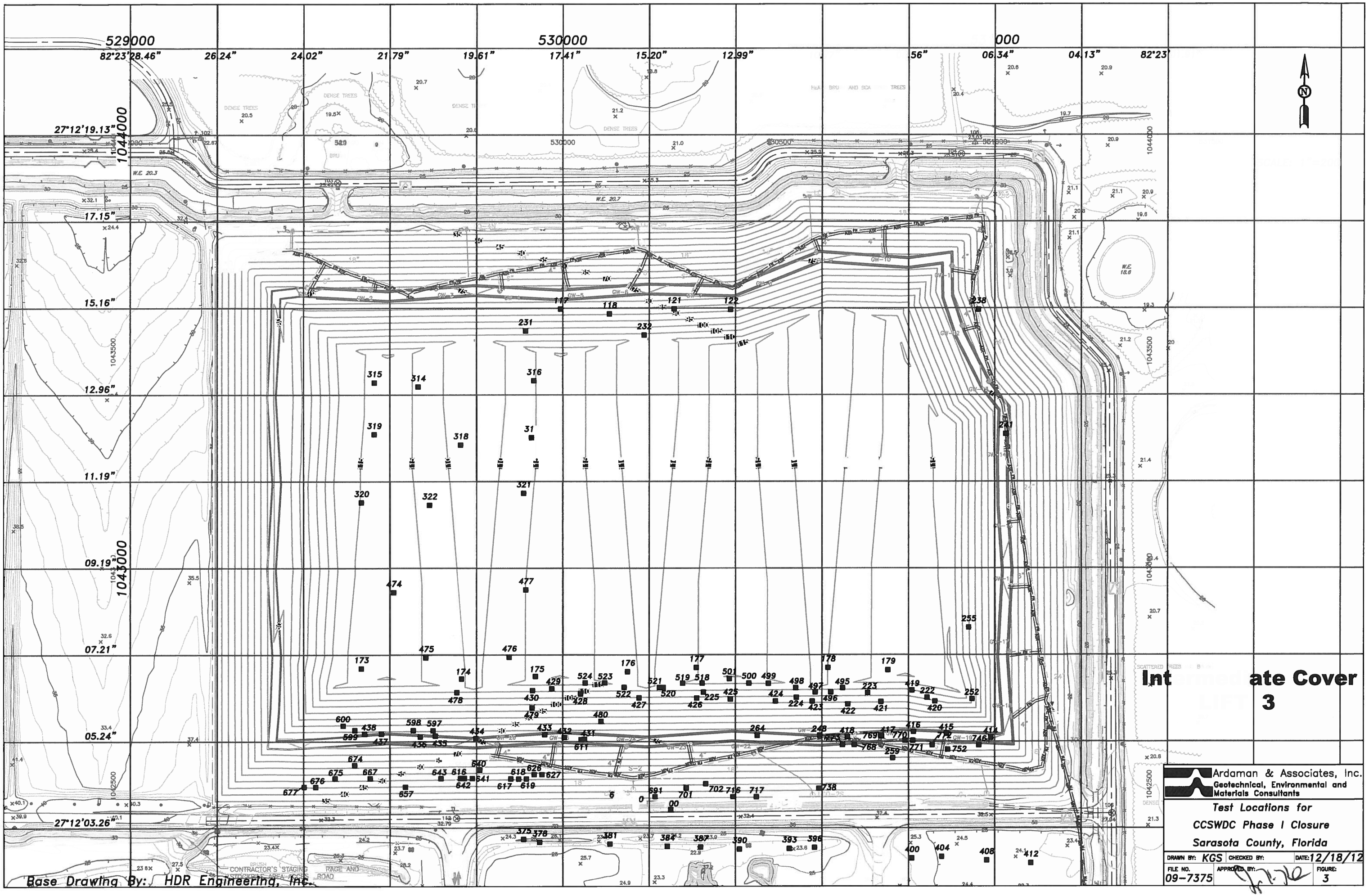
Test No.	Test Date	Material Code	Location Description	Lift or Depth	Test Type	Dry Density (pcf)	Field Moisture (%)	Proctor Max Density (pcf)	Percent Compaction	Lab Moisture (%)	Recalc. Dry Density (pcf)	Recalc. Percent Compaction	Remarks
995	26-Oct-12	BA	Ph.1 LF, access road, south slope	2B	N	127.9	11.6	130.0	98.4%				6th 200' run
996	26-Oct-12	BA	Ph.1 LF, access road, south slope	2B	N	129.3	11.0	130.0	99.5%				7th 200' run
997	26-Oct-12	BA	Ph.1 LF, access road, south slope	2B	N	129.9	9.7	130.0	99.9%				8th 200' run
998	26-Oct-12	BA	Ph.1 LF, maint. drive, n. side of P-1	1B	N	127.6	10.3	130.0	98.2%				East end
999	26-Oct-12	BA	Ph.1 LF, maint. drive, n. side of P-2	1B	N	128.3	11.6	130.0	98.7%				West end
1000	26-Oct-12	BA	Ph.1 LF, maintenance road, north slope	1B	N	129.1	9.9	130.0	99.3%				b/w gas well 1 & 2
1001	26-Oct-12	BA	Ph.1 LF, maintenance road, north slope	1B	N	127.5	10.4	130.0	98.1%				b/w gas well 2 & 3
1002	26-Oct-12	BA	Ph.1 LF, maintenance road, north slope	1B	N	128.6	11.0	130.0	98.9%				b/w gas well 3 & 4
1003	26-Oct-12	BA	Ph.1 LF, maintenance road, north slope	1B	N	128.7	10.0	130.0	99.0%				b/w gas well 4 & 5
1004	26-Oct-12	BA	Ph.1 LF, s.side, east road cut	1B	N	130.0	9.6	130.0	100.0%				On hard road
1005	26-Oct-12	BA	Ph.1 LF, s.side, middle road cut	1B	N	129.2	10.1	130.0	99.4%				On hard road
1006	26-Oct-12	BA	Ph.1 LF, s.side, west road cut	1B	N	128.8	9.9	130.0	99.1%				On hard road
1007	7-Nov-12	BA	Ph. 2 LF, west side perimeter road pavement repair	1B	N	128.6	9.6	130.0	98.9%				at the S-curves

TEST TYPES : N = nuclear density test; C = drive cylinder density test
MATERIAL CODES: IF = intermediate cover fill; FF = final cover fill; BF = backfill; AT = anchor trench; BA = pavement base; SG = pavement subgrade
OTHER ABBR.: SL = at spring line of pipe; AP = above pipe; Ph.1 LF = phase 1 landfill (closure) ; Ph.2 LF = phase 2 landfill area (active)

FIGURES


529000
530000
82°23'28.46"
26.24"
24.02"
21.79"
19.61"
17.41"
15.20"
12.99"
10.77"
08.56"
06.34"
04.13"
27°12'19.13"
17.15"
15.16"
12.96"
11.19"
09.19"
07.21"
05.24"
27°12'03.26"
1044000
1043500
1043000
1042500
Intermediate Cover
LIFT 1
Ardaman & Associates, Inc.
Geotechnical, Environmental and Materials Consultants
Test Locations for
CCSWDC Phase I Closure
Sarasota County, Florida
DRAWN BY: KGS
CHECKED BY:
DATE: 12/18/12
FILE NO. 09-7375
APPROVED BY:
FIGURE: 1
Base Drawing By: HDR Engineering, Inc.


529000
530000
531000
82°23'28.46"
26.24"
24.02"
21.79"
19.61"
17.41"
15.20"
12.99"
10.77"
08.56"
06.34"
04.13"
82°23'01.91"
27°12'19.13"
17.15"
15.16"
12.96"
11.19"
09.19"
07.21"
05.24"
27°12'03.26"
1044000
1043500
1043000
1042500
SCALE: 1"=200
CONTRACTOR'S STAGING, STORAGE AND STOCKPILE AREA ACCESS ROAD
Base Drawing By: HDR Engineering, Inc.
Intermediate Cover
LIFT 2
Ardaman & Associates, Inc.
Geotechnical, Environmental and Materials Consultants
Test Locations for
CCSWDC Phase I Closure
Sarasota County, Florida
DRAWN BY: KGS
CHECKED BY:
DATE: 12/18/12
FILE NO. 09-7375
APPROVED BY:
FIGURE: 2



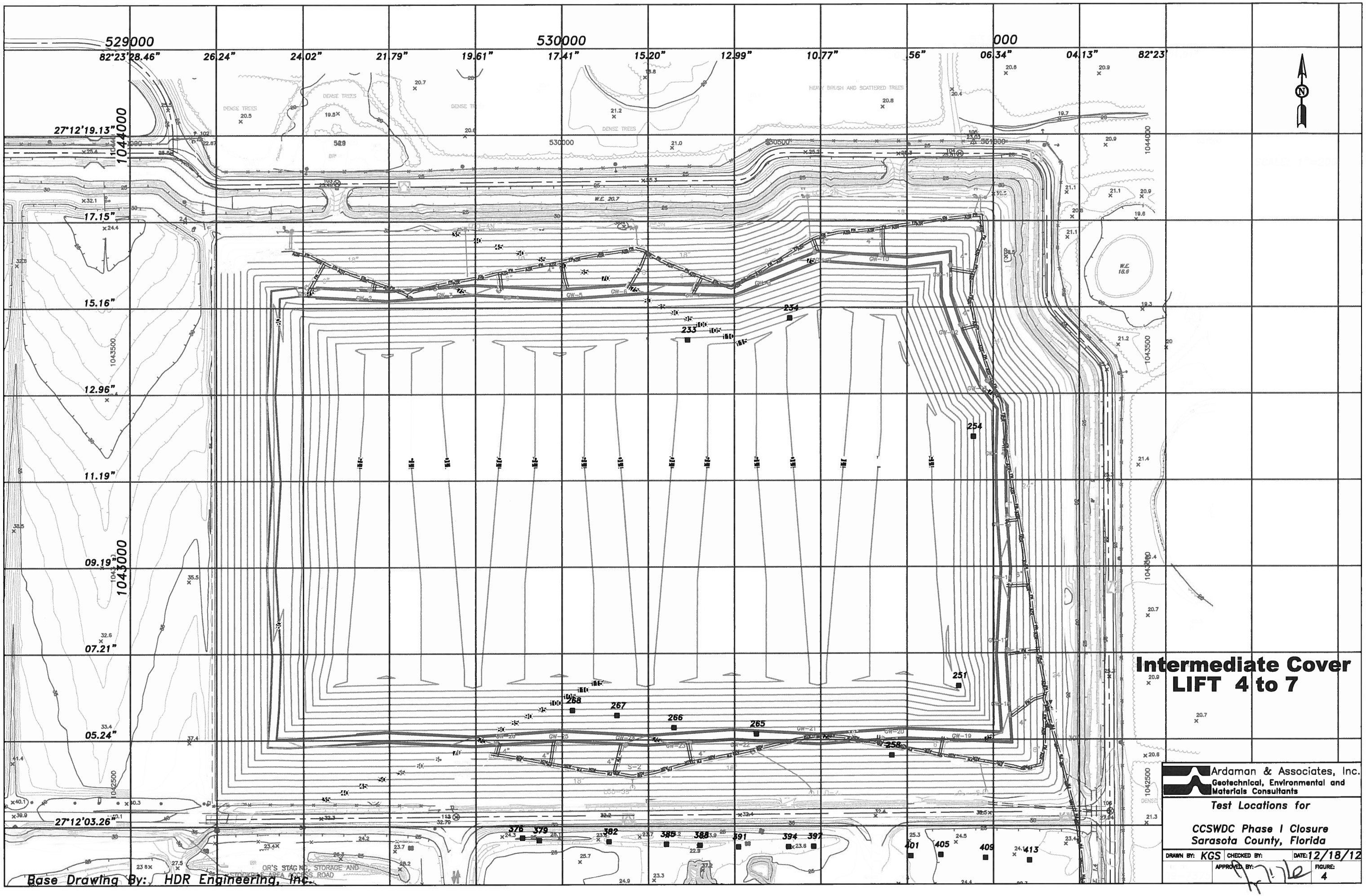
Base Drawing By: HDR Engineering, Inc.

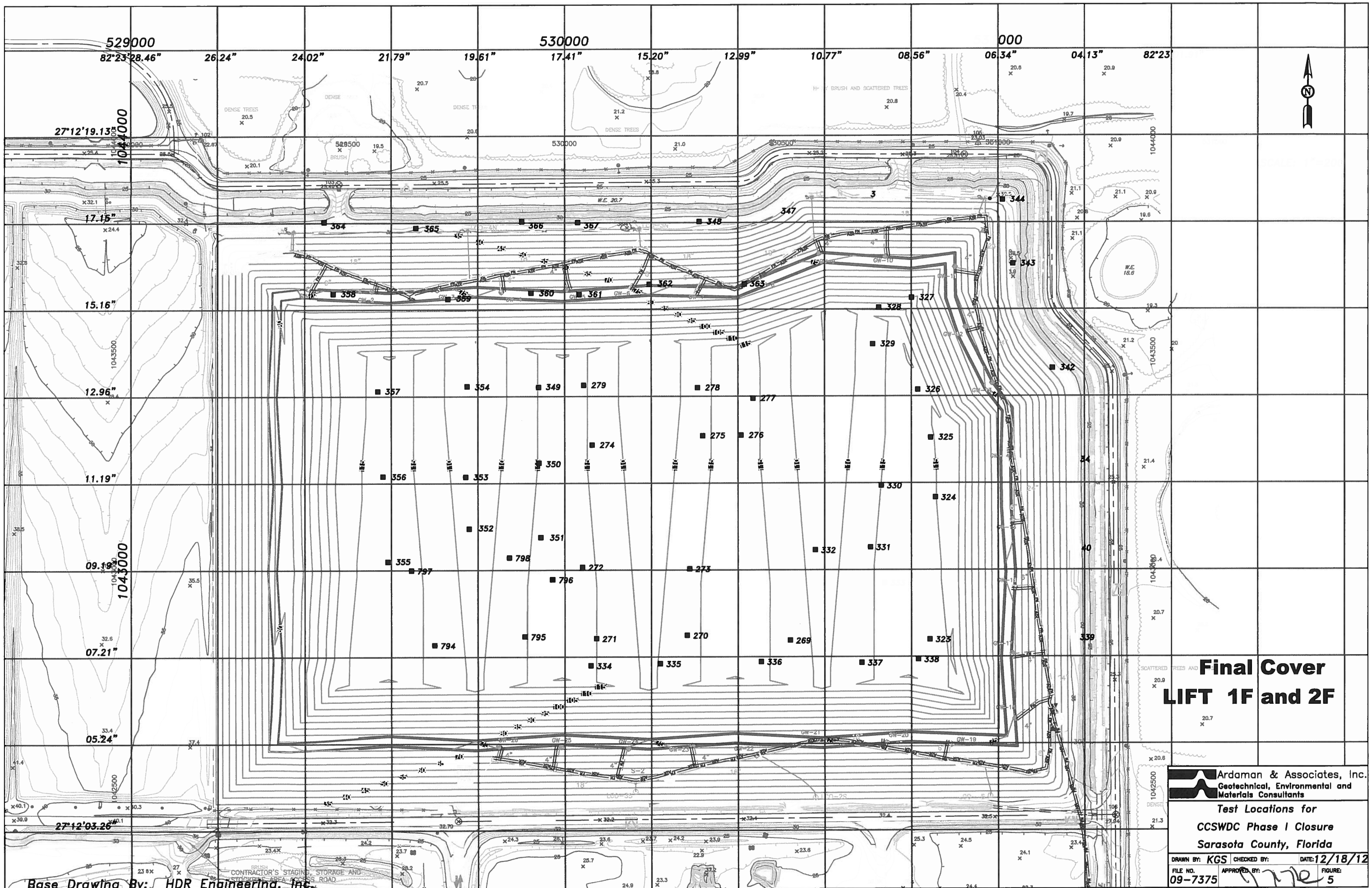
Int ate Cover
3

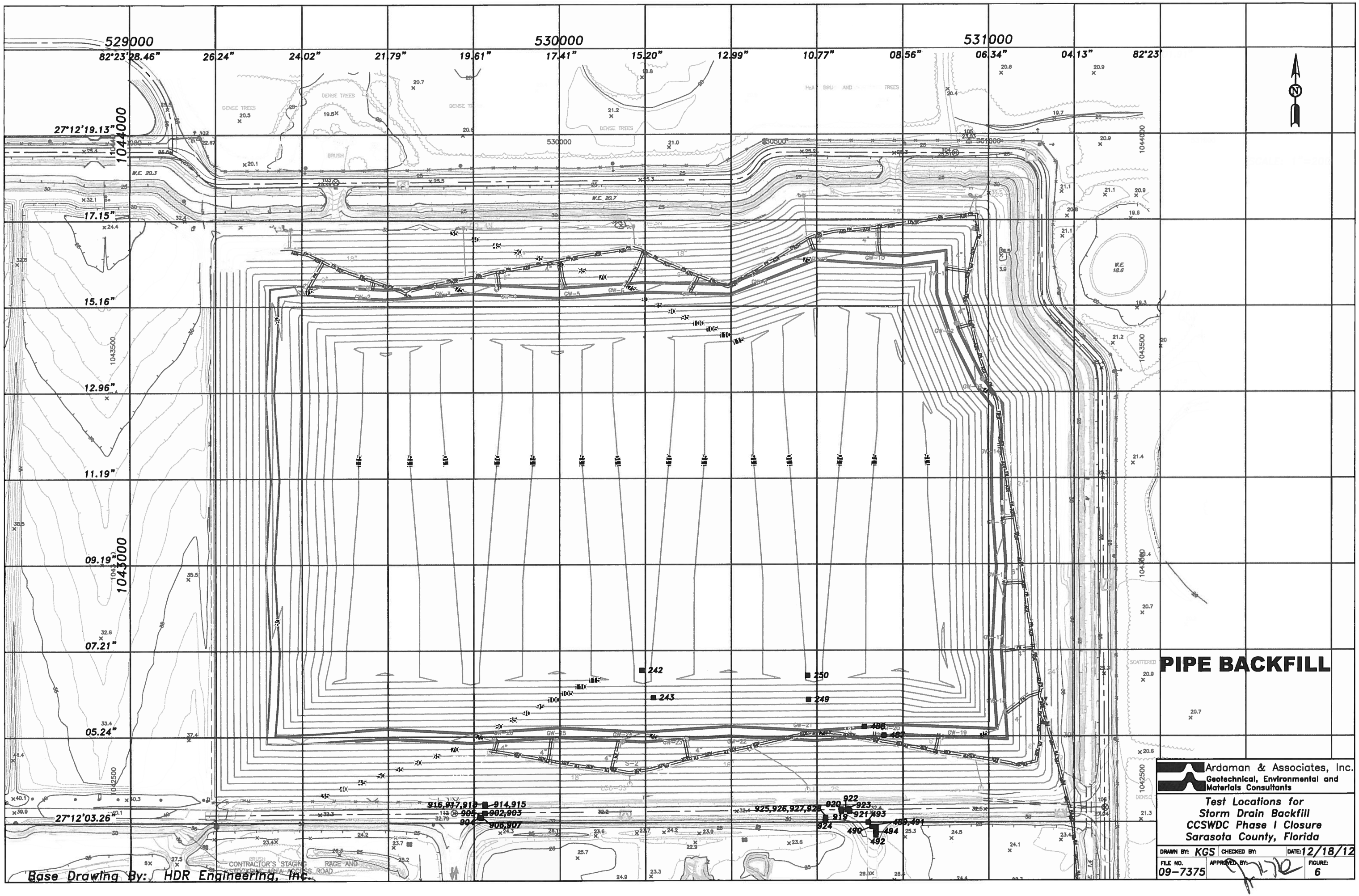
Ardaman & Associates, Inc.
Geotechnical, Environmental and Materials Consultants

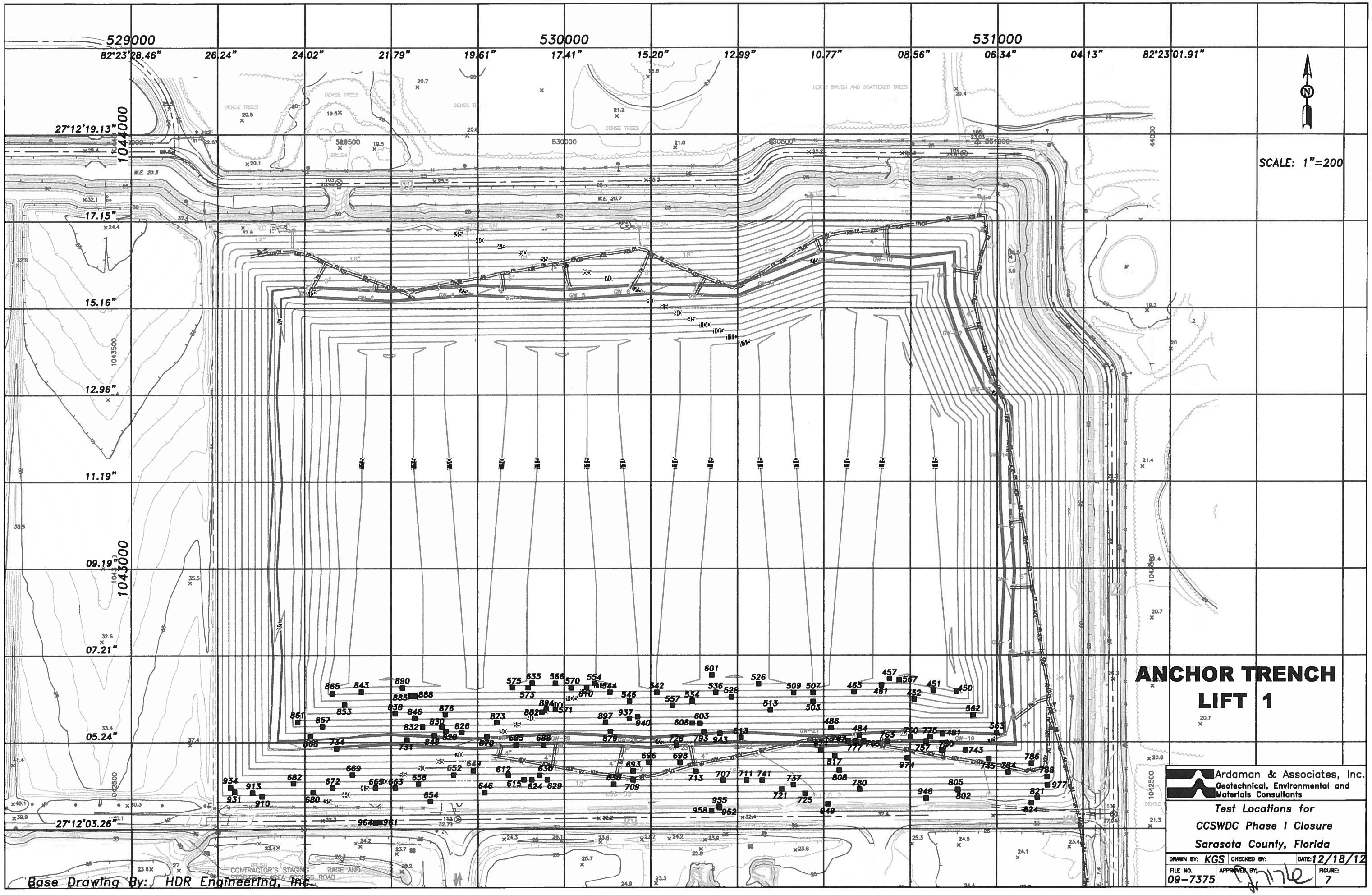
Test Locations for
CCSWDC Phase I Closure
Sarasota County, Florida

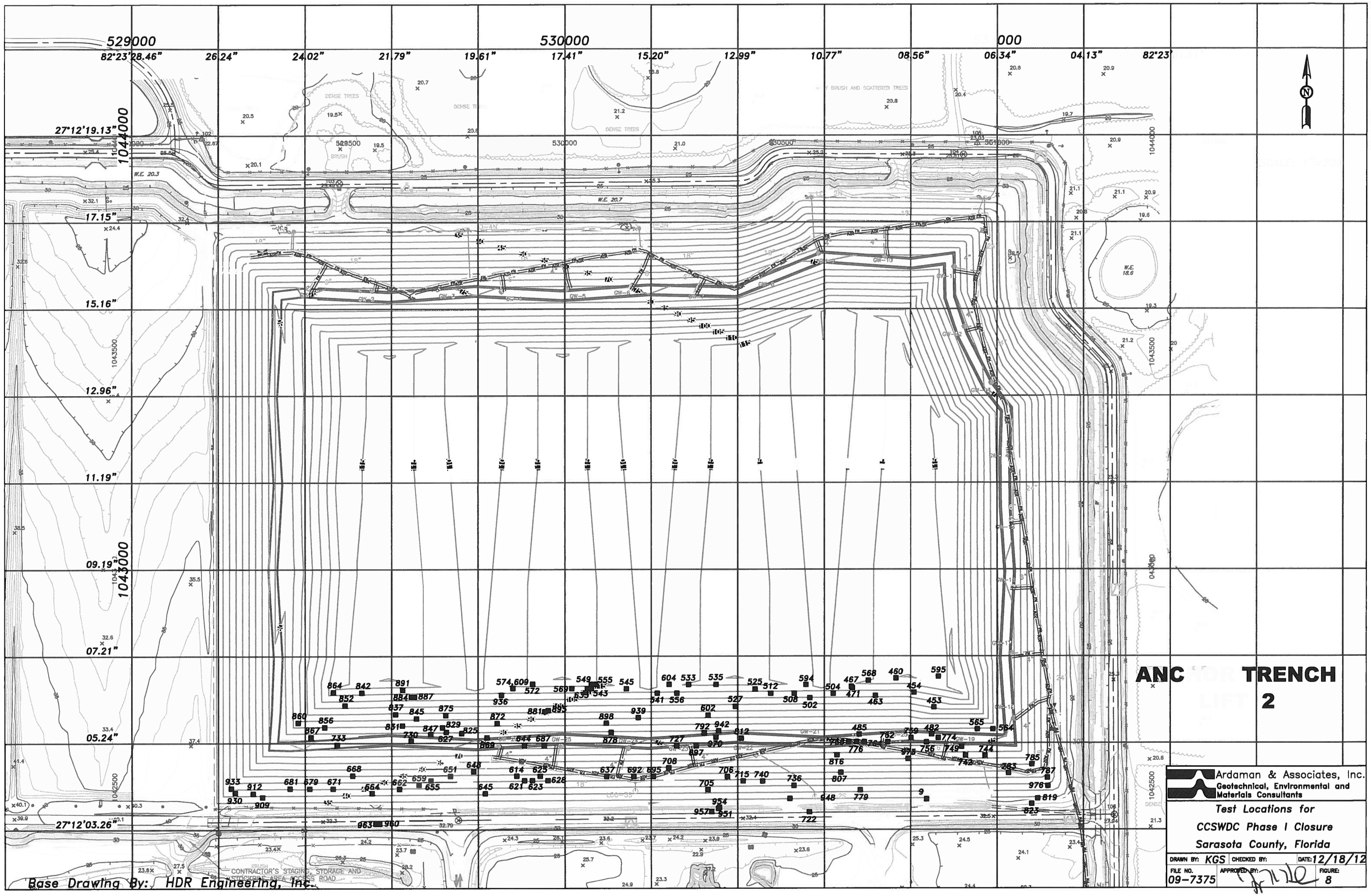
DRAWN BY: KGS	CHECKED BY:	DATE: 12/18/12
FILE NO. 09-7375	APPROVED BY:	FIGURE: 3

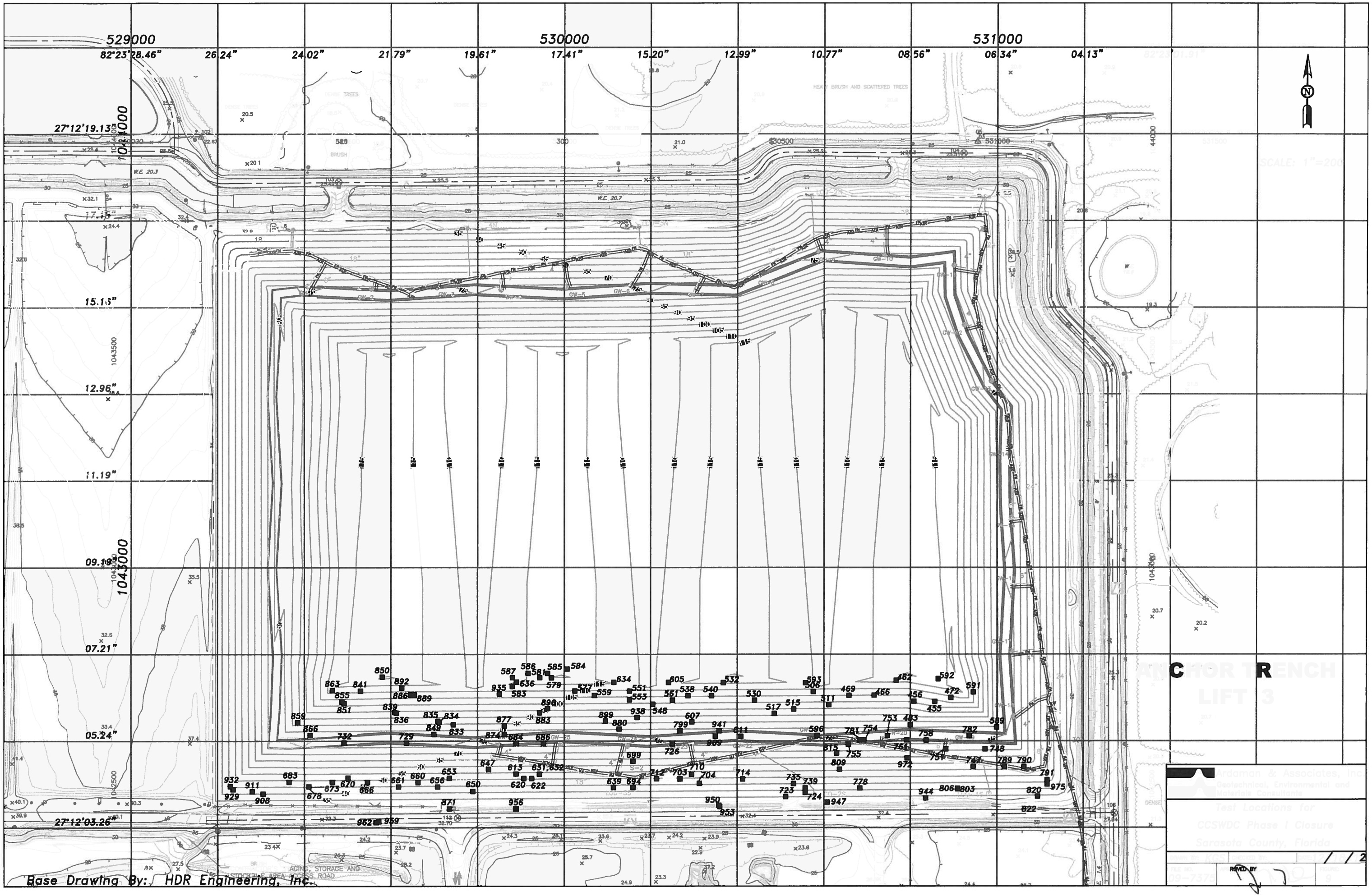

529000
530000
82°23'28.46"
26.24"
24.02"
21.79"
19.61"
17.41"
15.20"
12.99"
10.77"
06.34"
04.13"
27°12'19.13"
17.15"
15.16"
12.96"
11.19"
09.19"
07.21"
05.24"
27°12'03.26"
1044000
1043500
1043000
1042500
DENSE TREES
HEAVY BRUSH AND SCATTERED TREES
W.E. 20.7
W.E. 18.6
233
234
254
251
258
265
266
267
268
376
379
382
385
388
391
394
397
401
405
409
413
Intermediate Cover
LIFT 4 to 7
Ardaman & Associates, Inc.
Geotechnical, Environmental and Materials Consultants
Test Locations for
CCSWDC Phase I Closure
Sarasota County, Florida
DRAWN BY: KGS
CHECKED BY:
DATE: 12/18/12
APPROVED BY:
FIGURE: 4
Base Drawing By: HDR Engineering, Inc.

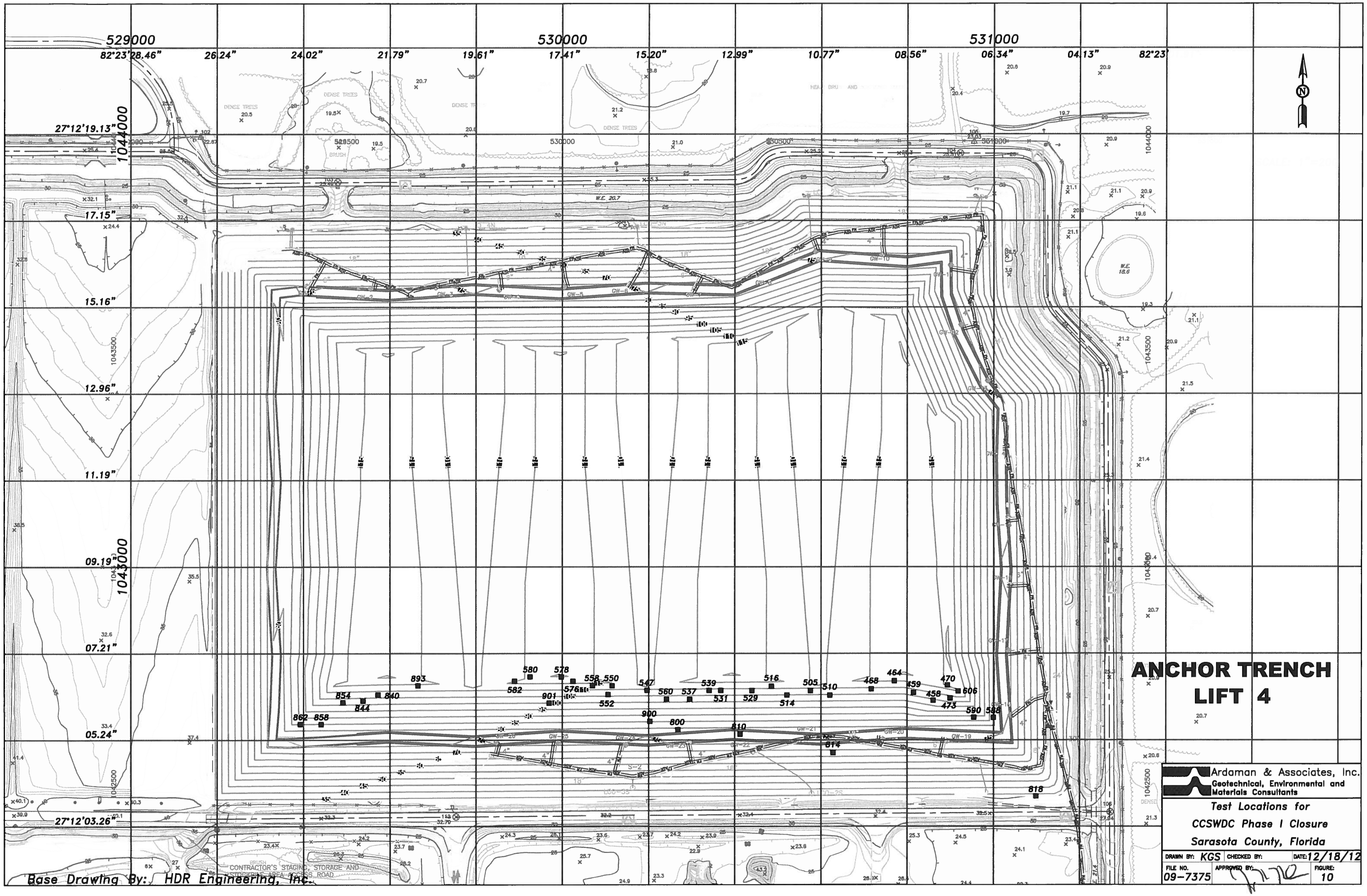

529000
530000
82°23'28.46"
26.24"
24.02"
21.79"
19.61"
17.41"
15.20"
12.99"
10.77"
08.56"
06.34"
04.13"
27°12'19.13"
17.15"
15.16"
12.96"
11.19"
09.19"
07.21"
05.24"
27°12'03.26"
1044000
1043500
1043000
1042500
529500
530500
531000
Final Cover
LIFT 1F and 2F
Ardaman & Associates, Inc.
Geotechnical, Environmental and Materials Consultants
Test Locations for
CCSWDC Phase I Closure
Sarasota County, Florida
DRAWN BY: KGS
CHECKED BY:
DATE: 12/18/12
FILE NO. 09-7375
APPROVED BY:
FIGURE: 5
Base Drawing By: HDR Engineering, Inc.

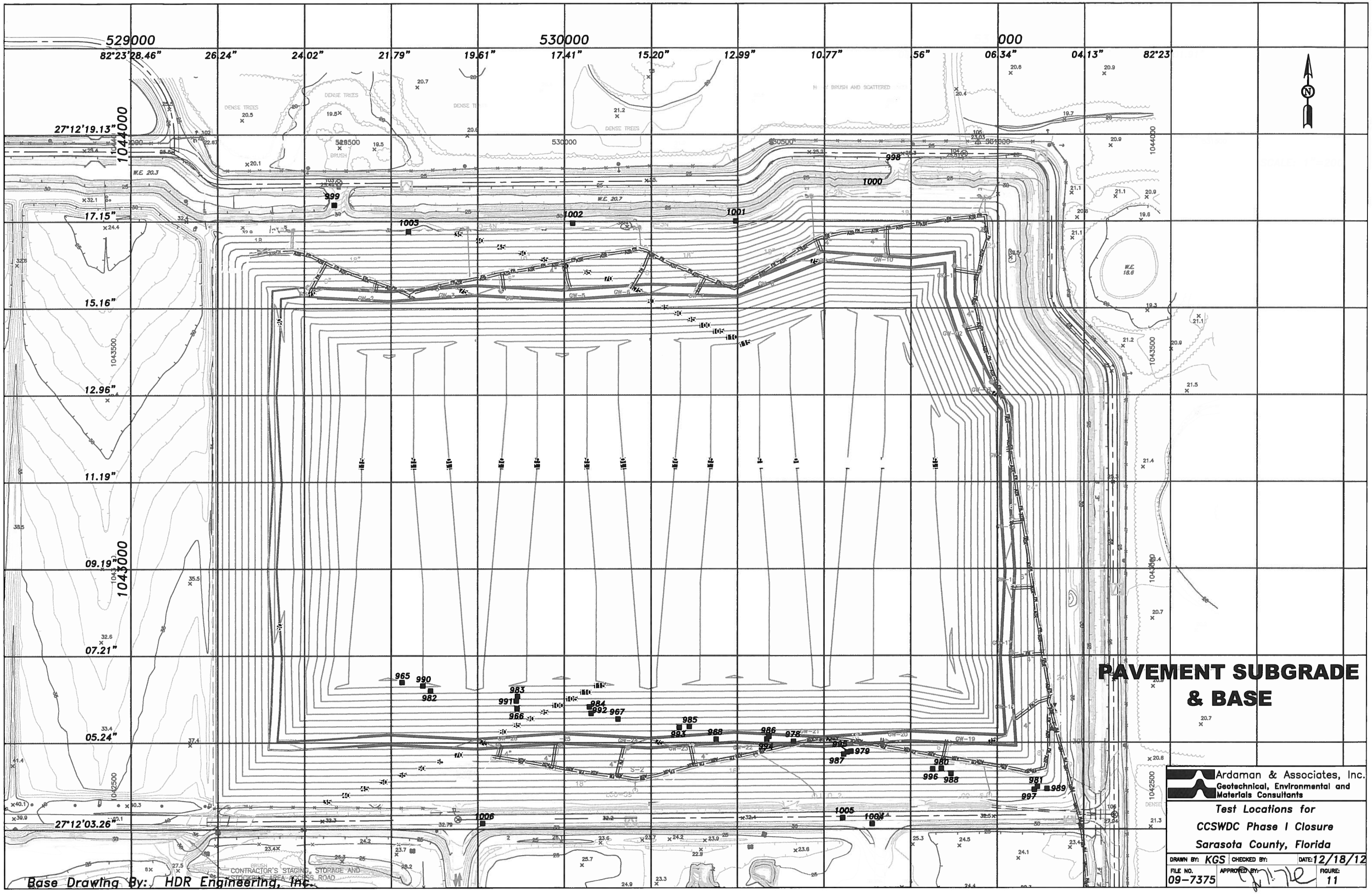

529000
530000
531000
82°23'28.46"
26.24"
24.02"
21.79"
19.61"
17.41"
15.20"
12.99"
10.77"
08.56"
06.34"
04.13"
82°23'
27°12'19.13"
17.15"
15.16"
12.96"
11.19"
09.19"
07.21"
05.24"
27°12'03.26"
1044000
1043500
1043000
1042500
242
243
250
249
488
487
914,915
916,917,918
905
902,903
906,907
925,926,927,928
920
922
923
919
921
493
924
490
494
492
489,491
PIPE BACKFILL
Ardaman & Associates, Inc.
Geotechnical, Environmental and Materials Consultants
Test Locations for
Storm Drain Backfill
CCSWDC Phase I Closure
Sarasota County, Florida
DRAWN BY: KGS
CHECKED BY:
DATE: 12/18/12
FILE NO. 09-7375
APPROVED BY:
FIGURE: 6
Base Drawing By: HDR Engineering, Inc.


529000
530000
531000
82°23'28.46"
26.24"
24.02"
21.79"
19.61"
17.41"
15.20"
12.99"
10.77"
08.56"
06.34"
04.13"
82°23'01.91"
27°12'19.13"
17.15"
15.16"
12.96"
11.19"
09.19"
07.21"
05.24"
27°12'03.26"
1044000
1043500
1043000
1042500
SCALE: 1"=200
ANCHOR TRENCH
LIFT 1
Ardaman & Associates, Inc.
Geotechnical, Environmental and Materials Consultants
Test Locations for
CCSWDC Phase I Closure
Sarasota County, Florida
DRAWN BY: KGS
CHECKED BY:
DATE: 12/18/12
FILE NO. 09-7375
APPROVED BY:
FIGURE: 7
Base Drawing By: HDR Engineering, Inc.


529000
530000
82°23'28.46"
26.24"
24.02"
21.79"
19.61"
17.41"
15.20"
12.99"
10.77"
08.56"
06.34"
04.13"
27°12'19.13"
17.15"
15.16"
12.96"
11.19"
09.19"
07.21"
05.24"
27°12'03.26"
1044000
1043500
1043000
1042500
ANC TRENCH 2
Base Drawing By: HDR Engineering, Inc.
Ardaman & Associates, Inc.
Geotechnical, Environmental and Materials Consultants
Test Locations for
CCSWDC Phase I Closure
Sarasota County, Florida
DRAWN BY: KGS
CHECKED BY:
DATE: 12/18/12
FILE NO. 09-7375
APPROVED BY:
FIGURE: 8


529000
530000
531000
82°23'28.46"
26.24"
24.02"
21.79"
19.61"
17.41"
15.20"
12.99"
10.77"
08.56"
06.34"
04.13"
27°12'19.13"
15.15"
12.96"
11.19"
09.19"
07.21"
05.24"
27°12'03.26"
1044000
1043500
1043000
1042500
W.E. 20.3
W.E. 20.7
HEAVY BRUSH AND SCATTERED TREES
SCALE: 1"=200'
ANCHOR TRENCH
LIFT 3
Test Locations for
CCSWDC Phase I Closure
Sarasota County, Florida
Base Drawing By: HDR Engineering, Inc.


529000
530000
531000
82°23'28.46"
26.24"
24.02"
21.79"
19.61"
17.41"
15.20"
12.99"
10.77"
08.56"
06.34"
04.13"
82°23'
27°12'19.13"
17.15"
15.16"
12.96"
11.19"
09.19"
07.21"
05.24"
27°12'03.26"
1044000
1043500
1043000
1042500
DENSE TREES
BRUSH
W.E. 20.7
W.E. 12.6
GW-1
GW-2
GW-5
GW-6
GW-10
GW-11
GW-19
GW-20
GW-21
GW-22
GW-25
GW-26
S-2
580
578
558
550
547
539
516
505
510
468
464
459
470
606
582
576
552
560
537
531
529
514
458
473
590
588
893
854
840
844
901
862
858
900
800
810
814
818
CONTRACTOR'S STAGING, STORAGE AND
ANCHOR TRENCH
LIFT 4
Ardaman & Associates, Inc.
Geotechnical, Environmental and
Materials Consultants
Test Locations for
CCSWDC Phase I Closure
Sarasota County, Florida
DRAWN BY: KGS
CHECKED BY:
DATE: 12/18/12
FILE NO. 09-7375
APPROVED BY:
FIGURE: 10
Base Drawing By: HDR Engineering, Inc.


529000
530000
82°23'28.46"
26.24"
24.02"
21.79"
19.61"
17.41"
15.20"
12.99"
10.77"
06.34"
04.13"
82°23'
27°12'19.13"
17.15"
15.16"
12.96"
11.19"
09.19"
07.21"
05.24"
27°12'03.26"
1044000
1043500
1043000
1042500
529500
530500
531000
DENSE TREES
BRUSH
W.E. 20.3
W.E. 20.7
W.E. 18.6
999
1003
1002
1001
1000
998
965
990
982
983
991
966
984
992
967
985
993
968
986
978
979
987
980
996
988
981
997
989
1006
1005
1004
CONTRACTOR'S STAGING, STORAGE AND
STOCKPILE AREA ACCESS ROAD
PAVEMENT SUBGRADE
& BASE
Ardaman & Associates, Inc.
Geotechnical, Environmental and
Materials Consultants
Test Locations for
CCSWDC Phase I Closure
Sarasota County, Florida
DRAWN BY: KGS
CHECKED BY:
DATE: 12/18/12
FILE NO. 09-7375
APPROVED BY:
FIGURE: 11
Base Drawing By: HDR Engineering, Inc.