



2019 ANNUAL INSPECTION REPORT

Byproduct Storage Area B

St. Johns River Power Park

Submitted to:

JEA/St. Johns River Park

11201 New Berlin Road
Jacksonville, FL 32226 USA

Submitted by:

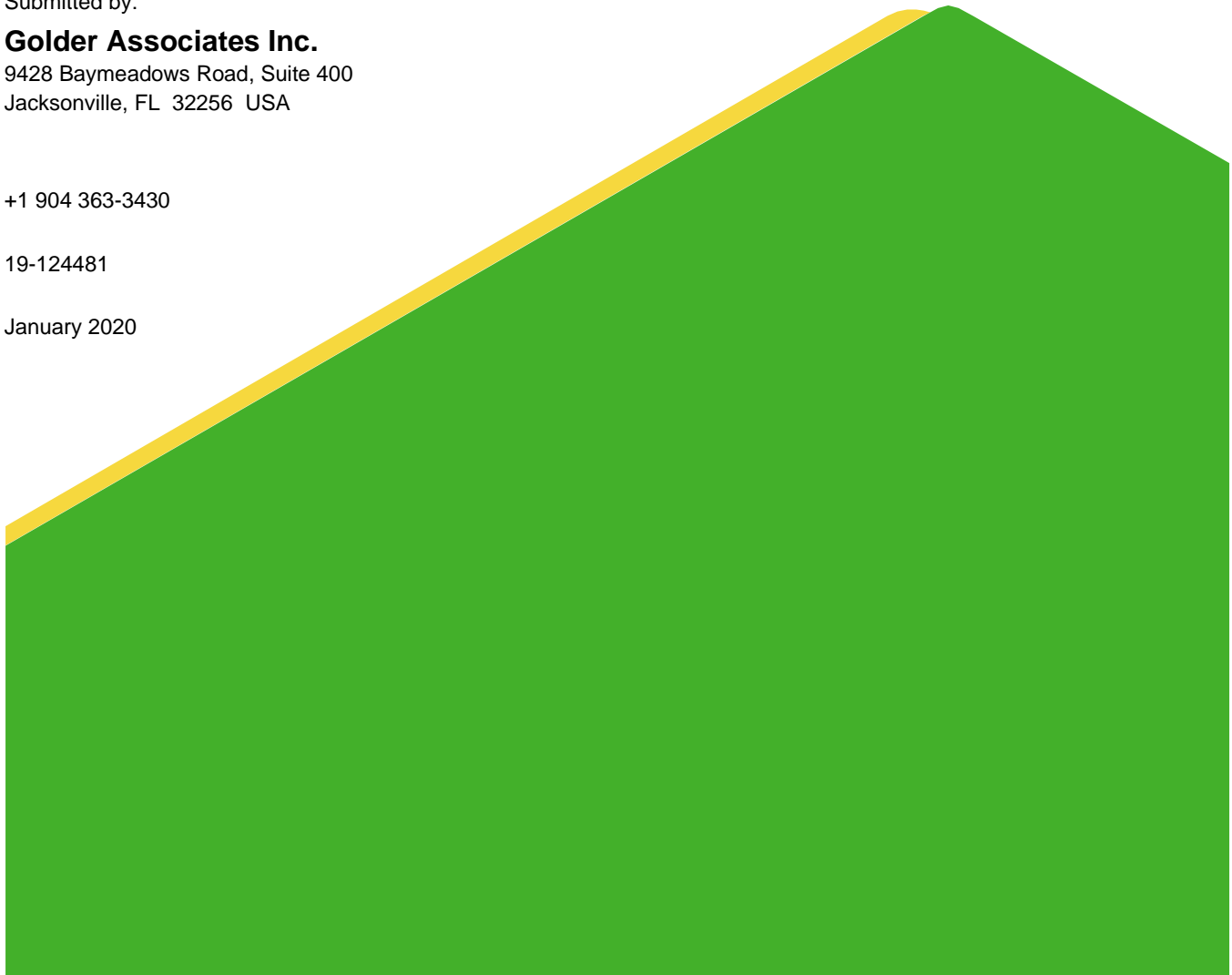
Golder Associates Inc.

9428 Baymeadows Road, Suite 400
Jacksonville, FL 32256 USA

+1 904 363-3430

19-124481

January 2020



Distribution List

JEA

Hopping Green & Sams

INTRODUCTION

Golder Associates Inc. (Golder) conducted the coal combustion residual (CCR) landfill annual inspection for Byproduct Storage Area B (BSA-B) at the St. Johns River Power Park (SJRPP). The inspection, conducted on December 6, 2019, and this report are intended to meet the requirements of 40 CFR §257.84. Golder's inspection was performed by Samuel Stafford, PE.

The Phase I development of BSA-B is located approximately 1.5 miles northeast of the SJRPP main entrance in northeastern Duval County, Jacksonville, Florida (see Figure 1).

REVIEW OF AVAILABLE INFORMATION

In accordance with §257.84(b)(1), Golder reviewed available information regarding the status and conditions of BSA-B include operating record documents. The documents reviewed included:

- Technical Submittal, Hydrogeological and Geotechnical Site Evaluation, Conceptual Design Drawings, dated April 2007 (including associated responses to comments).
- Area B Byproduct Storage Area Phase I Operations Plan, September 2014.
- Run-on and Run-off Control Plan, Byproduct Storage Area B, October 2015.
- Operating records: SJRPP weekly inspection reports.

INSPECTION SUMMARY

Golder conducted a visual inspection of BSA-B on December 6, 2019. The inspection considered cover conditions, exterior slope conditions, erosional conditions, vegetative conditions, stormwater management conditions, placement of CCRs, slope stability, and any other signs of distress or malfunction.

CHANGES IN GEOMETRY

The primary changes in geometry of BSA-B since the past annual inspection are due to material placement in the central portion of BSA-B and relocation of materials from the western portion of the Phase I footprint to the northern slope of BSA-B.

APPROXIMATE CCR VOLUME

The volume of materials in BSA-B at the time of the inspection is estimated to be approximately 1,750,000 cubic yards based on recent topographic survey data.

STRUCTURAL WEAKNESS AND DISRUPTING CONDITIONS

No indications of actual or potential structural weakness were noted during the December 6, 2019 inspection or during the review of available information.

A condition identified during the inspection that could have the potential to disrupt the operations of the BSA is the operation of the contact water pond pump station. The contact water pump station associated with the contact water ponds has been taken off-line due to the ongoing decommissioning of SJRPP. Operations personnel will monitor the contact water levels and make necessary arrangements to transfer contact water to the facility wastewater treatment plant in the event of high contact water levels.

CHANGES AFFECTING STABILITY OR OPERATIONS

Based on the December 6, 2019 inspection and review of available information, no changes from the previous inspection conducted on December 5, 2018 that may affect the operations or stability of BSA-B were observed.

CLOSING

Based on the review of the available information noted above and on the December 6, 2019 field observations, Golder concludes that the design, construction, operation, and maintenance of BSA-B appears to be consistent with recognized and generally accepted good engineering standards.

Golder Associates Inc.



Samuel F. Stafford, PE
Senior Engineer



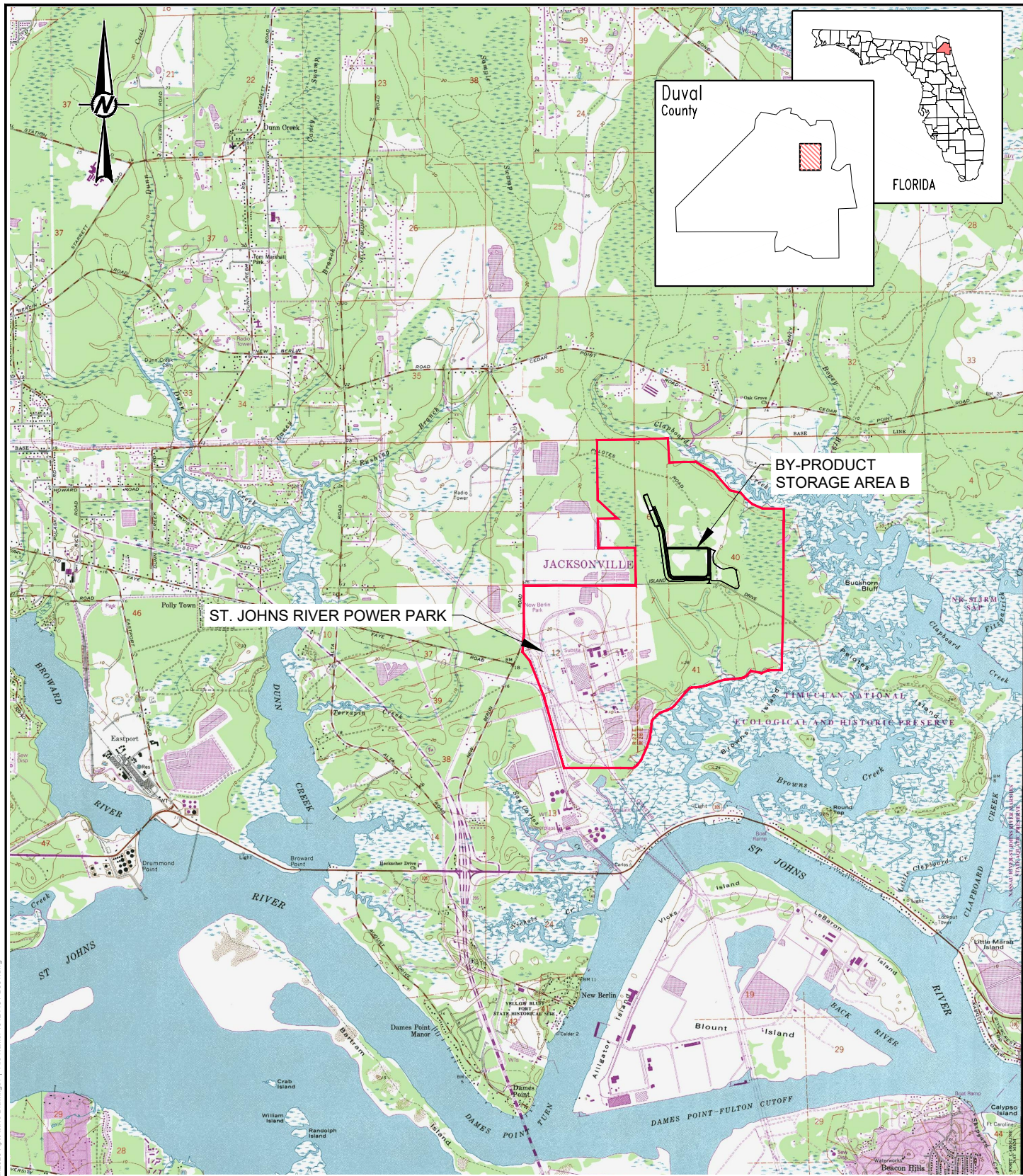
Donald J. Miller
Principal and Practice Leader

SFS/DJM/ams

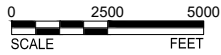
Golder and the G logo are trademarks of Golder Associates Corporation

[https://golderassociates.sharepoint.com/sites/110243/Project Files/6 Deliverables/Annual LF Inspection/SJRPP BSA-B 2019 Inspection.docx](https://golderassociates.sharepoint.com/sites/110243/Project%20Files/6%20Deliverables/Annual%20LF%20Inspection/SJRPP%20BSA-B%202019%20Inspection.docx)

FIGURES



REFERENCE(S)
 1.) USGS TOPOGRAPHIC MAP, 7.5 MIN. QUADRANGLE MAP SERIES:
 EASTPORT QUADRANGLE, DUVAL COUNTY, FLORIDA.



CLIENT
JEA

PROJECT
**ST. JOHNS RIVER POWER PARK - CCR SUPPORT
 JACKSONVILLE, DUVAL COUNTY, FLORIDA**

CONSULTANT

YYYY-MM-DD 2020-01-02
 DESIGNED SFS
 PREPARED BCL
 REVIEWED SFS
 APPROVED DJM

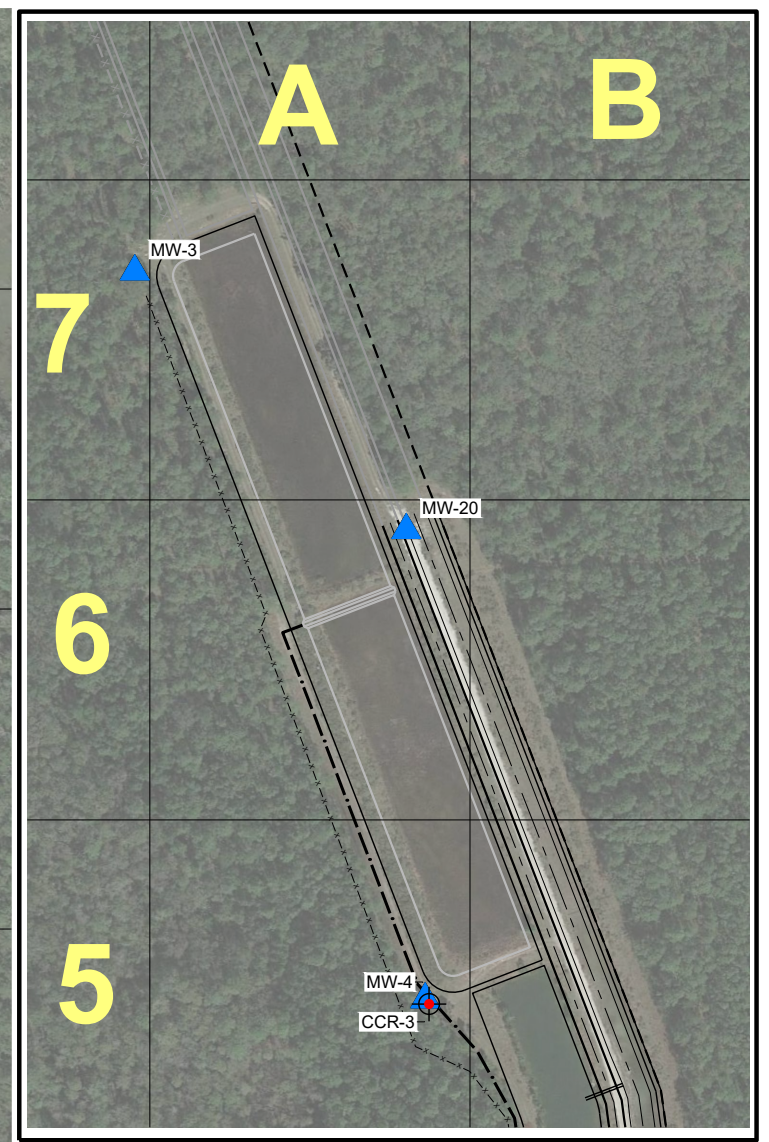
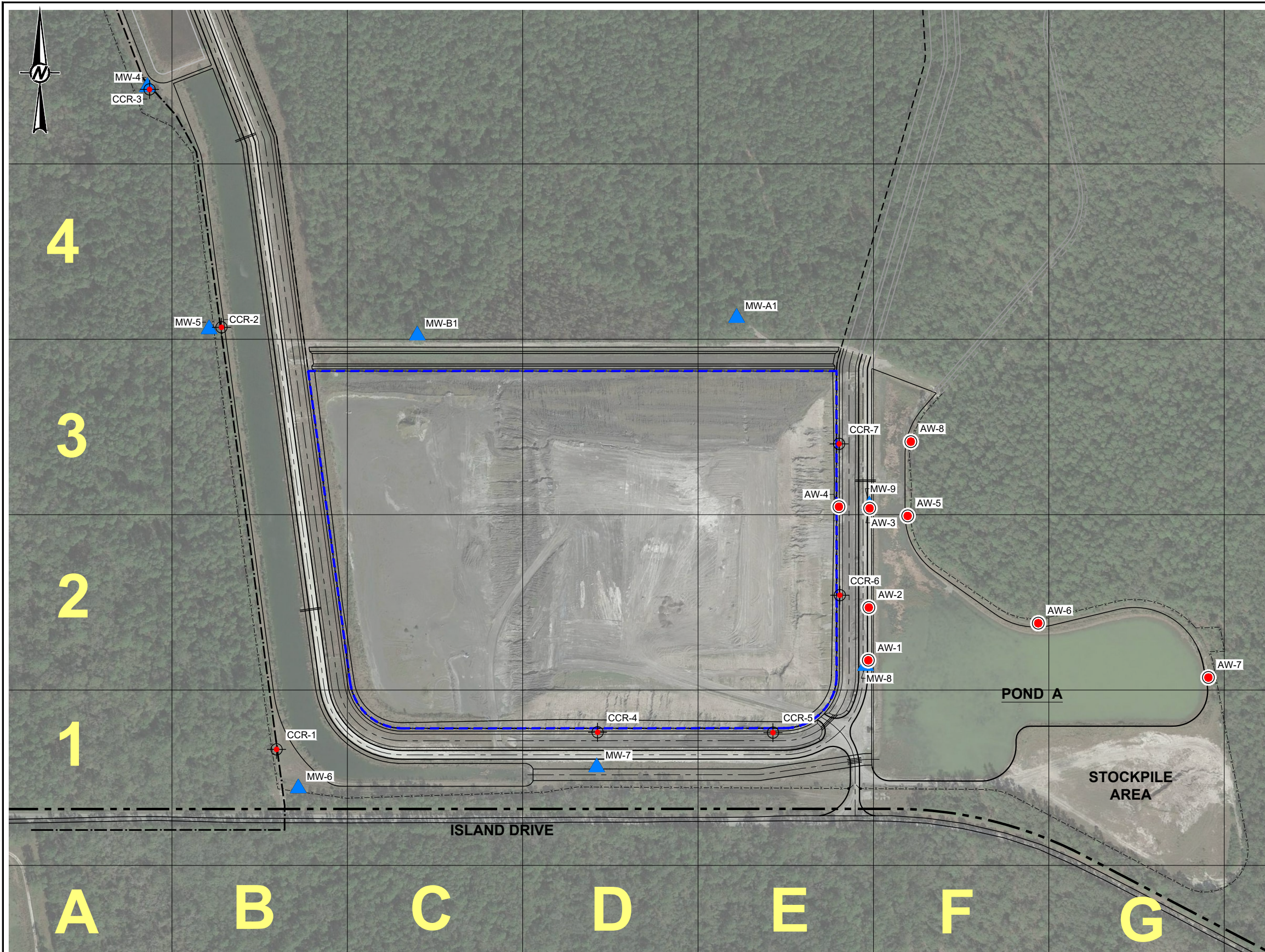


TITLE
SITE LOCATION MAP

PROJECT NO. Phase REV. FIGURE
19-124481 19124481-D001 1

Path: \\jacksonville\redm\proj\19-124481-JEA-SJRPP-CCR-D-2020-01-02\Drawings\1 - File Name: 19124481-D001.dwg

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANS/A



LEGEND

- PROPERTY BOUNDARY
- CHAIN LINK FENCELINE
- PHASE I LIMIT OF WASTE
- MW-8 MW-SERIES MONITORING WELL
- CONTACT WATER FORCEMAIN
- CCR-1 CCR GROUNDWATER MONITORING WELL LOCATIONS
- AW-1 PIEZOMETER LOCATION

0 150 300
SCALE FEET

- REFERENCE(S)**
- 1.) MW-SERIES MONITORING WELL AS-BUILT SURVEY PERFORMED BY POPPEL PUTNAL & ASSOCIATES, INC. ON NOVEMBER 13 AND 15, 2007.
 - 2.) CCR-SERIES MONITORING WELL AS-BUILT SURVEY PERFORMED BY B.V. & ASSOCIATES, INC. ON NOVEMBER 17, 2015.
 - 3.) AERIAL IMAGERY SOURCE: GOOGLE EARTH PRO 2010, IMAGE DATED 10.29.17. IMAGE GEOREFERENCED BY GOLDER AND INTENDED FOR INDICATIVE PURPOSES ONLY.
 - 4.) AW-SERIES PIEZOMETERS FROM SURVEY PERFORMED BY R.E. HOLLAND & ASSOCIATES, INC. IN MARCH 2019.

CLIENT	JEA
CONSULTANT	GOLDER
YYYY-MM-DD	2020-01-02
DESIGNED	SFS
PREPARED	BCL
REVIEWED	SFS
APPROVED	DJM

PROJECT		ST. JOHNS RIVER POWER PARK - CCR SUPPORT JACKSONVILLE, DUVAL COUNTY, FLORIDA	
TITLE			
BYPRODUCT STORAGE AREA B GRID LOCATION MAP			
PROJECT NO.	Phase	REV.	FIGURE
19-124481	19124481-D002		2

Path: \\nascon\delia\working\19124481_JEA_SURPPP_CCRD - June2020_Rpt\Active Drawings\1 File Names: 19124481-D002.dwg

1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSIB



golder.com