VOLUNTARY REMEDIATION PLAN
SEMI-ANNUAL PROGRESS REPORT #6

SOUTHERN STATES, LLC
30 GEORGIA AVENUE
HAMPTON, GEORGIA

HSI No. 10141

APRIL 15, 2018

Prepared for

SOUTHERN STATES, LLC
30 Georgia Avenue
Hampton, Georgia

VOLUNTARY REMEDIATION PLAN
SEMI-ANNUAL PROGRESS REPORT #6

SOUTHERN STATES, LLC
30 GEORGIA AVENUE
HAMPTON, GEORGIA

HSI No. 10141

John O. Schwaller, PG
GA Registration No. 1617
Project Manager

EMA
Environmental Management Associates, LLC
5262 Belle Wood Court, Suite A
Buford, Georgia 30518

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLES

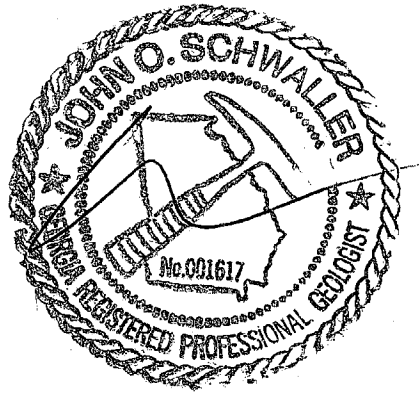
LIST OF APPENDICES

CERTIFICATION OF GROUNDWATER REPORT

I certify that I am a qualified ground-water scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering, and have sufficient training and experience in ground-water hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding ground-water monitoring and contaminant fate and transport. I further certify that this report was prepared by me or by a subordinate working under my direction.

John O. Schwaller
Printed Name (GA Professional Geologist 1617)

Signature (Professional Geologist)



1.0 PROJECT SUMMARY

On behalf of Southern States, LLC (SSL), Environmental Management Associates, LLC (EMA) is submitting this Voluntary Remediation Plan – Semi-Annual Progress Report #6 (Progress Report) to the Georgia Environmental Protection Division for SSI's manufacturing facility located at 30 Georgia Avenue, Hampton, Georgia. This Progress Report has been prepared to meet the requirements contained in the Georgia Voluntary Remediation Program Act and covers the activities conducted since the submittal of Progress Report #5 dated November 15, 2017.

The SSL site (Site) is located at 30 Georgia Avenue, Hampton, Henry County, Georgia. The surrounding properties are predominantly residential. A topographic map (Property Location Map) of the surrounding area is included as Figure 1. A Site Plan is presented as Figure 2.

SSL began manufacturing operations at the Hampton, GA location in 1940. SSL manufactures high-voltage electrical switches and fuses at its 30-acre manufacturing facility located in Hampton, Georgia. In 1986, SSL conducted a focused groundwater investigation to determine the impact from an existing wastewater sludge impoundment. The results of this and subsequent investigations identified a release of select VOCs had occurred at the Property. In December 1989, SSL and the Georgia Environmental Protection Division (EPD) entered into a Consent Order (Order), No. EPD-HW-529. The Property was listed on the Hazardous Site Inventory on June 30, 1997 as Site No. 10141.

Since 1986, the Property has been the subject of a number of investigations which identified the presence of volatile organic compounds in the soil and groundwater.

EMA prepared the VRPAP and submitted to EPD on October 30, 2014. EPD approved the VRPAP with conditions and comments in two letters dated April 10, 2015.

EMA conducted two formal injections (June 2015 and January 2016 as proposed) of an in-situ chemical oxidation (ISCO) reagent (PeroxyChem's (formerly FMC Corporation) Klozur® sodium persulfate mixed with an alkaline activator (sodium hydroxide) to form sulfate and hydroxyl radicals) to reduce the existing groundwater contamination to levels at or below the Type 4 RRS proposed in the VRP. ISCO application was performed at three specific areas identified on Figure 3 with the following rationale:

Treatment Area	*Rationale*
Zone A – MW-39	suspected source zone (~ 200,000 µg/L TCE);
Zone B – TP-1 / TP-2	lateral impact area (~ 2,000 µg/L TCE); and

Zone C – MW-18	pilot study to determine saprolite/shallow bedrock treatment effectiveness on MW-32.

In June 2015, EMA's subcontractors, REM-CON, LLC and Geo Lab Probing Services, installed temporary injection points at each of the three treatment zones. The injection points include open screened areas targeting the contaminant zones from 12 feet (ft) below ground surface (bgs) to 35 ft bgs. The sodium persulfate reagent was injected throughout the overburden aquifer. ISCO injections occurred in June 2015 and January 2016.

This Semi-Annual VRP Progress Report No. 6 was prepared in accordance with the VRP and covers the semi-annual groundwater monitoring event activity conducted since the Semi-Annual Progress Report No. 5 submittal and covers the period November 16, 2017 through April 15, 2018.

2.0 ACTIONS TAKEN SINCE LAST SUBMITTAL

2.1 GROUNDWATER PERFORMANCE MONITORING

Groundwater performance monitoring was performed in January 2018. The following select monitoring wells were utilized for the long term monitored natural attenuation (MNA) groundwater monitoring to determine the effectiveness of the groundwater remediation and confirm fate and transport model:

Monitoring Wells

Overburden

- MW-9;
- MW-13;
- MW-17;
- MW-18;
- MW-19;
- MW-21;
- MW-35;
- MW-39;
- MW-40;
- MW-41;
- TP-1; and
- TP-2.

Bedrock Wells

- MW-20;
- MW-28;
- MW-31;
- MW-32;
- MW-36;

Groundwater samples were collected on January 10, 2018 using the low-flow purging and sampling technique referenced in USEPA Region IV's SESD Operating Procedures - Groundwater Sampling SESDPROC-301-R4, April 2017. Peristaltic pumps using disposable Teflon tubing was used for the purging and sampling. Static groundwater level measurements were recorded at each monitoring well on January 10, 2018. The measurements were made with a pre-cleaned "Slope" electronic water level detector and were reported to the nearest 0.01-foot based on a fixed point on the top of the well casing. A potentiometric contour map for the shallow water table was prepared based on the groundwater elevations presented in Table 1 and is provided as Figure 3. For the bedrock

monitoring wells, a potentiometric contour map is presented as Figure 4. The groundwater flow directions in both the shallow water table and the bedrock are consistent with historic monitoring events.

During the low-flow purging procedure, field measurements of reduction oxidation potential (redox), dissolved oxygen (D.O.), turbidity, pH, conductivity, and temperature were recorded. Once the field measurements stabilized for three consecutive readings, samples were collected directly into the pre-preserved laboratory supplied containers. Monitoring well purge records are presented in Appendix A.

The groundwater samples were delivered under standard chain-of-custody (COC) protocols to Analytical Environmental Services, Inc. (AES) located in Atlanta, Georgia. AES is an accredited laboratory under the National Environmental Laboratory Accreditation Program (NELAC) (Accreditation ID: E87582). The groundwater samples were submitted for select target compound list (TCL) volatile organic compounds (VOCs) including 1,4-dioxane by SW-846 Method 8260B and select MNA parameters.

The detected compounds observed during the monitoring events since the baseline event of June 2015 through the January 2018 monitoring event are summarized in Table 2. Figures 5 and 6 present the most recent overburden total VOC and TCE iso-concentration contours, respectively. Figures 7 and 8 present the most recent bedrock total VOC and TCE iso-concentration contours. The analytical reports are included in Appendix A.

2.2 DISCUSSION AND CONCLUSIONS

Review of the groundwater data presented in Table 2 indicates favorable results following the groundwater remediation activities with minimal to no rebound. Of significant note are the following reductions from the June 2015 total chlorinated VOC baseline concentrations:

Overburden Wells:
MW-13: 143 µg/L to 94 µg/L (approximately 34% reduction);
MW-21: 228 µg/L to 132 (approximately 42% reduction);
MW-39: 214,900 µg/L to 5,897 µg/L (approximately 97% reduction);
MW-40: 5,438 µg/L to 2,055 µg/L (approximately 62% reduction);
MW-41: 4,170 µg/L to 889 µg/L (approximately 79% reduction); and
TP-2: 856 µg/L to 597 µg/L (approximately 30% reduction).

Bedrock Wells:
MW-31: 15 µg/L to ND (approximately 100% reduction)

In general, the groundwater contaminant plume has stabilized. It is important to note that the data has been collected quarterly or semi-annually over a period of three years or more. In addition, where rebound has been observed after remediation, the concentrations observed have not exceeded historic or baseline concentrations (i.e. monitoring well TP-1).

Table 2 presents the summary of analytical data collected since the baseline monitoring event of June 2015. Appendix B presents total VOC and select chlorinated contaminant trend graphs for select performance monitoring wells.

3.0 SCHEDULE AND FUTURE SUBMITTALS

A semi-annual groundwater sampling event including additional monitoring wells and monitored natural attenuation parameters is scheduled for June 2018.

While SS awaits any further EPD comment, engineering and planning for the landfill cap will occur so that this may be initiated in calendar quarter four of 2018. The landfill cap will be designed to prevent further surface water infiltration and potential movement of any subsurface contaminants.

A Projected Milestone Schedule, showing timelines for the above items, is included in Appendix C.

Semiannual progress reports will continue to be submitted updating the progress and implementation of the VRPAP throughout the program. Additionally the Projected Milestone Schedule will be updated to show progress on the VRP objectives. The VRP Progress Report #7 will be submitted by October 15, 2018.

4.0 PROFESSIONAL GEOLOGIST CERTIFICATION STATEMENT

"I certify under penalty of law that this report and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, et seq.). I am a professional engineer/professional geologist who is registered with the Georgia State Board of Registration for Professional Engineers and Land Surveyors/Georgia State Board for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances.

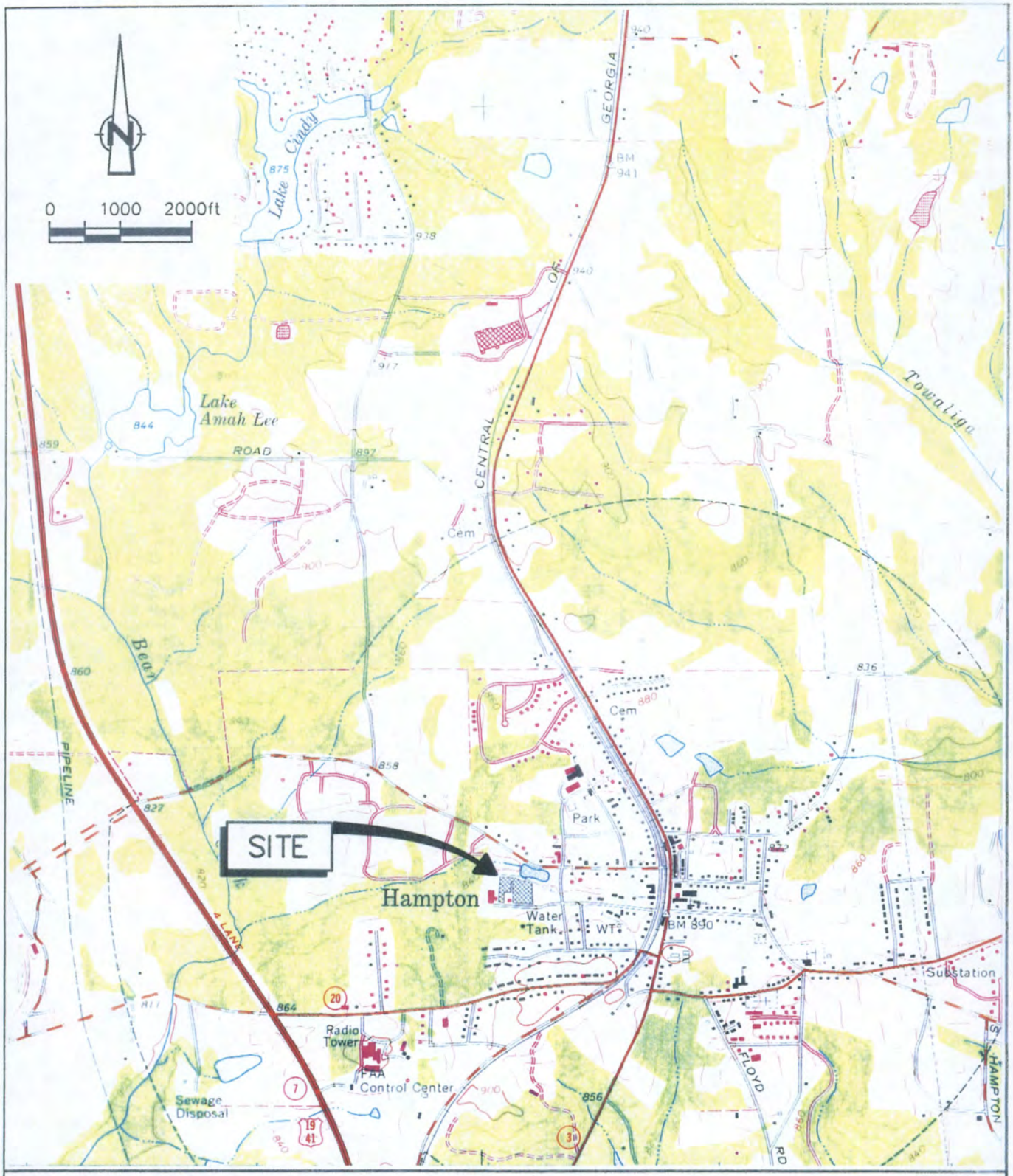
Furthermore, to document my direct oversight of the Voluntary Remediation Plan development, implementation of corrective action, and log term monitoring, I have attached a monthly summary of hours invoiced and description of services provided by me to the Voluntary Remediation Program participant since the previous submittal to the Georgia Environmental Protection Division.

The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. "

Mr. John O. Schwaller, P.G.
Georgia Registration No. 1617

Signature/Stamp

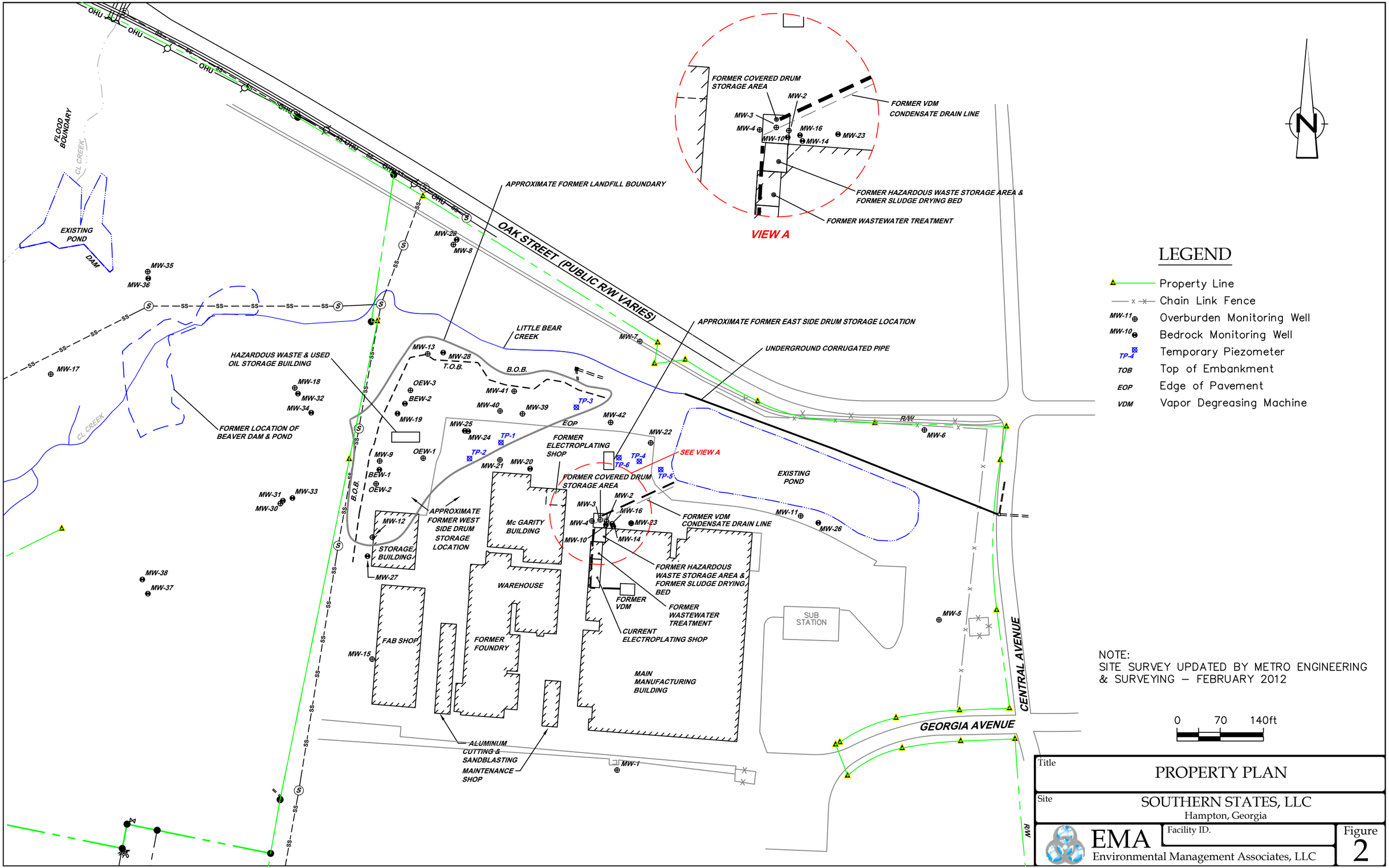
FIGURES



SOURCE: USGS QUADRANGLE;
HAMPTON, GEORGIA

figure 1

LOCATION MAP
SOUTHERN STATES SITE
Hampton, Georgia



LEGEND

- Property Line
- Chain Link Fence
- MW-11 Overburden Monitoring Well
- MW-10 Bedrock Monitoring Well
- TP-4 Temporary Piezometer
- TOB Top of Embankment
- EOP Edge of Pavement
- VDM Vapor Degreasing Machine

NOTE:
SITE SURVEY UPDATED BY METRO ENGINEERING & SURVEYING – FEBRUARY 2012

0 70 140ft

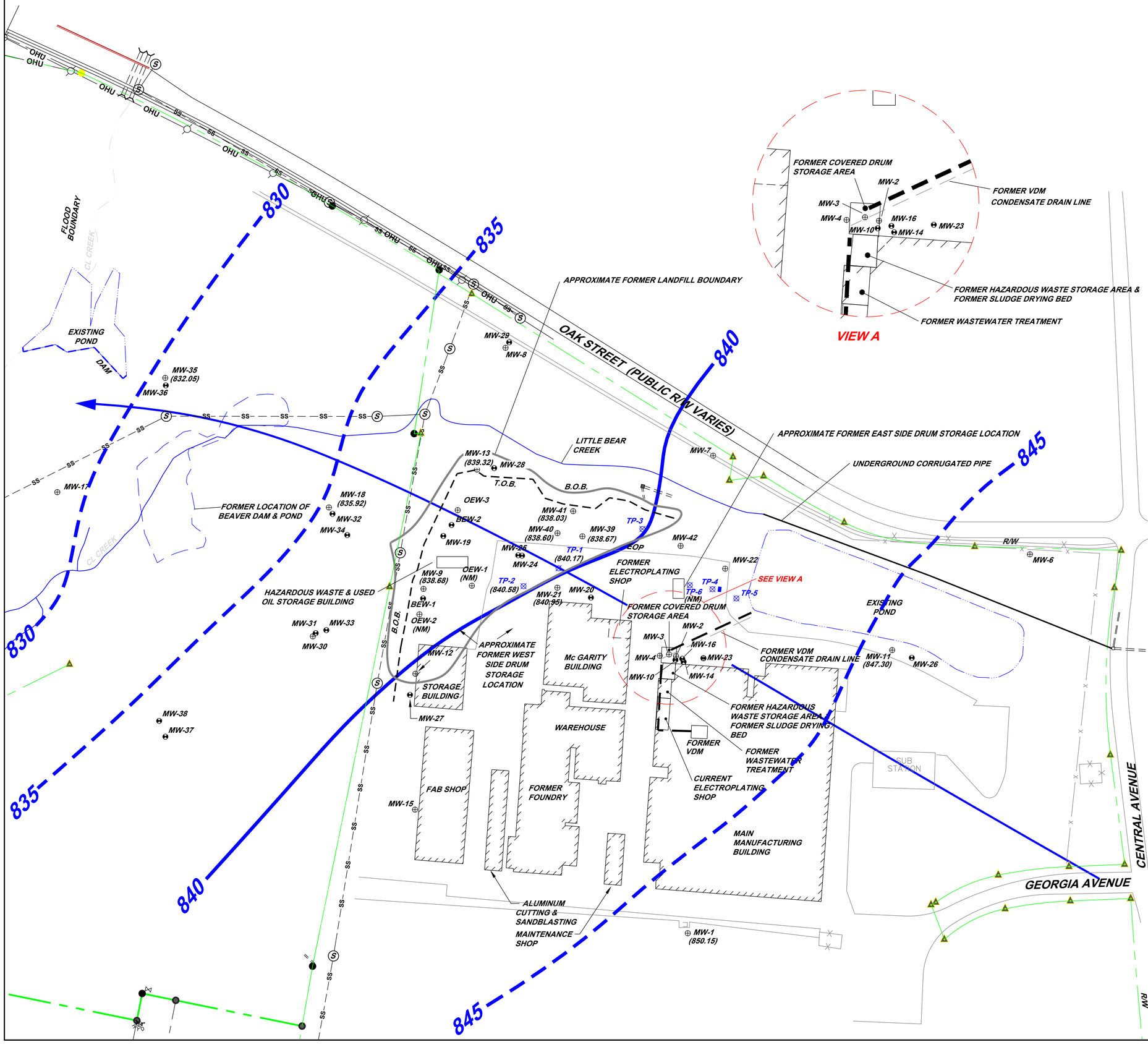
Title: PROPERTY PLAN

Site: SOUTHERN STATES, LLC
Hampton, Georgia

EMA Environmental Management Associates, LLC

Facility ID.

Figure 2



LEGEND

- Property Line
- Chain Link Fence
- MW-11 — Overburden Monitoring Well
- MW-10 — Bedrock Monitoring Well
- TP-4 — Temporary Piezometer
- TOB — Top of Embankment
- EOP — Edge of Pavement
- (848.10) — Groundwater Elevation, ft.
- 850 — Groundwater Elevation Contour, ft.
- Groundwater Flow Direction

NOTE:
SITE SURVEY UPDATED BY METRO ENGINEERING & SURVEYING – FEBRUARY 2012

0 70 140ft

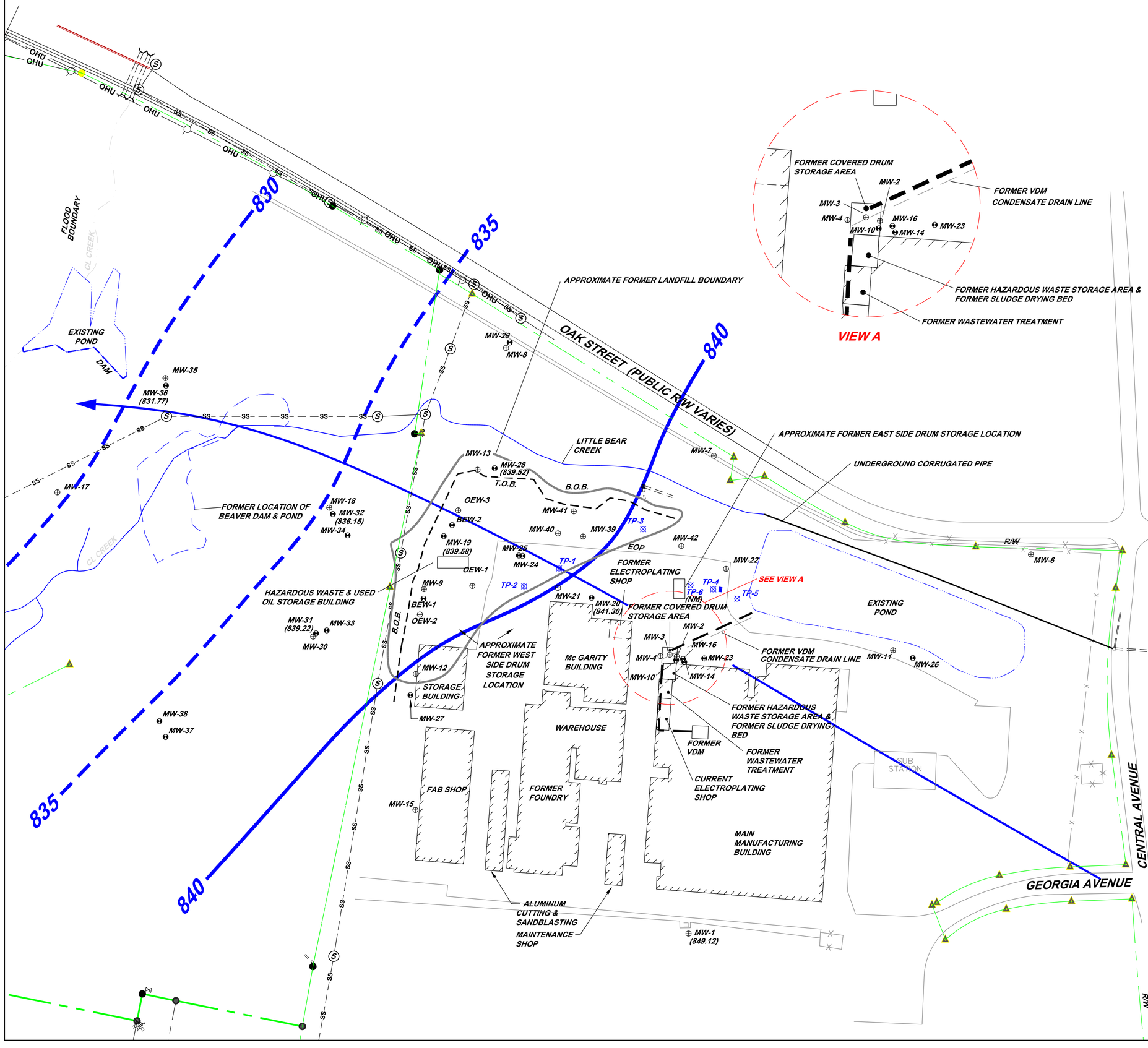
Title: GROUNDWATER ELEVATION MAP OVERBURDEN - JANUARY 10, 2018

Site: SOUTHERN STATES, LLC
Hampton, Georgia

EMA Environmental Management Associates, LLC

Facility ID.

Figure 3



LEGEND

- Property Line
- Chain Link Fence
- MW-11 — Overburden Monitoring Well
- MW-10 — Bedrock Monitoring Well
- TP-4 — Temporary Piezometer
- TOB — Top of Embankment
- EOP — Edge of Pavement
- (848.10) — Groundwater Elevation, ft.
- 850 — Groundwater Elevation Contour, ft.
- Groundwater Flow Direction

NOTE:
SITE SURVEY UPDATED BY METRO ENGINEERING & SURVEYING – FEBRUARY 2012

0 70 140ft

Title: GROUNDWATER ELEVATION MAP BEDROCK - JANUARY 10, 2018

Site: SOUTHERN STATES, LLC
Hampton, Georgia

EMA Environmental Management Associates, LLC

Facility ID.

Figure 4

OAK STREET (PUBLIC R/W VARIES)

OHU

SS

S

FLOOD BOUNDARY

CL CREEK

EXISTING POND

DAM

MW-35 (ND)

MW-36

MW-17 (ND)

MW-29

MW-8

APPROXIMATE FORMER LANDFILL BOUNDARY

MW-13 (94)

LITTLE BEAR CREEK

HAZARDOUS WASTE & USED OIL STORAGE BUILDING

MW-28 T.O.B.

B.O.B.

MW-18 (104)

MW-32

MW-34

OEW-3

100

BEW-2

MW-19

FORMER LOCATION OF BEAVER DAM & POND

MW-41 (889)

10,000

TP-3

MW-39 (5,897)

MW-40 (2,055)

EOP

MW-42

1,000

MW-25

MW-24

TP-1 (2,077)

FORMER ELECTROPLATING SHOP

MW-22

MW-9 (872)

TP-2 (597)

MW-20

TP-6

TP-4

TP-5

SEE VIEW A

BEW-1

OEW-1 (NM)

MW-21 (132)

FORMER COVERED DRUM STORAGE AREA

OEW-2 (NM)

MW-31

MW-33

MW-30

APPROXIMATE FORMER WEST SIDE DRUM STORAGE LOCATION

MW-12

Mc GARITY BUILDING

MW-2

MW-3

MW-16

MW-4

MW-23

FORMER VDM CONDENSATE DRAIN LINE

MW-10

MW-14

STORAGE BUILDING

MW-27

FORMER HAZARDOUS WASTE STORAGE AREA & FORMER SLUDGE DRYING BED

WAREHOUSE

FORMER VDM

FORMER WASTEWATER TREATMENT

MW-38

MW-37

FAB SHOP

MW-15

FORMER FOUNDRY

CURRENT ELECTROPLATING SHOP

MAIN MANUFACTURING BUILDING

ALUMINUM CUTTING & SANDBLASTING MAINTENANCE SHOP

MW-1

APPROXIMATE FORMER EAST SIDE DRUM STORAGE LOCATION

MW-7

UNDERGROUND CORRUGATED PIPE

R/W

MW-6

EXISTING POND

MW-11

MW-26

SUB STATION

MW-5

CENTRAL AVENUE

GEORGIA AVENUE

R/W

VIEW A

FORMER COVERED DRUM STORAGE AREA

MW-2

FORMER VDM CONDENSATE DRAIN LINE

MW-3

MW-4

MW-16

MW-23

MW-10

MW-14

FORMER HAZARDOUS WASTE STORAGE AREA & FORMER SLUDGE DRYING BED

FORMER WASTEWATER TREATMENT

LEGEND

- Property Line
- Chain Link Fence
- MW-11 Overburden Monitoring Well
- MW-10 Bedrock Monitoring Well
- TP-4 Temporary Piezometer
- TOB Top of Embankment
- EOP Edge of Pavement
- (91) TOTAL VOC CONCENTRATION
- 100 TOTAL VOC CONCENTRATION CONTOUR

NOTE:
1.) SITE SURVEY UPDATED BY METRO ENGINEERING & SURVEYING – FEBRUARY 2012

2.) MW–32 IS BEDROCK WELL.

0 70 140FT

Title: OVERBURDEN TOTAL VOC ISO-CONCENTRATION CONTOURS - JAN 2018

Site: SOUTHERN STATES, LLC
Hampton, Georgia

EMA
Environmental Management Associates, LLC

Facility ID.

Figure 5

OAK STREET (PUBLIC R/W VARIES)

OHU

SS

S

FLOOD BOUNDARY

CL CREEK

EXISTING POND

DAM

MW-35 (ND)

MW-36

MW-17 (ND)

MW-18 (24)

MW-32

MW-34

HAZARDOUS WASTE & USED OIL STORAGE BUILDING

FORMER LOCATION OF BEAVER DAM & POND

APPROXIMATE FORMER LANDFILL BOUNDARY

MW-29

MW-8

MW-13 (5.4)

LITTLE BEAR CREEK

MW-28 T.O.B.

B.O.B.

OEW-3

BEW-2

MW-19

100

MW-41 (760)

1,000

10,000

TP-3

MW-40 (1,500)

MW-39 (5,800)

EOP

MW-42

MW-25

MW-24

TP-1 (1,900)

FORMER ELECTROPLATING SHOP

MW-22

MW-9 (820)

TP-2 (510)

MW-20

TP-4

TP-6

TP-5

SEE VIEW A

BEW-1

OEW-1 (NM)

OEW-2 (NM)

MW-21 (120)

FORMER COVERED DRUM STORAGE AREA

MW-31

MW-33

MW-30

APPROXIMATE FORMER WEST SIDE DRUM STORAGE LOCATION

MW-12

Mc GARITY BUILDING

MW-2

MW-3

MW-16

MW-4

MW-23

FORMER VDM CONDENSATE DRAIN LINE

MW-10

MW-14

STORAGE BUILDING

MW-27

WAREHOUSE

FORMER HAZARDOUS WASTE STORAGE AREA & FORMER SLUDGE DRYING BED

FORMER VDM

FORMER WASTEWATER TREATMENT

MW-38

MW-37

FAB SHOP

MW-15

FORMER FOUNDRY

CURRENT ELECTROPLATING SHOP

MAIN MANUFACTURING BUILDING

ALUMINUM CUTTING & SANDBLASTING MAINTENANCE SHOP

MW-1

APPROXIMATE FORMER EAST SIDE DRUM STORAGE LOCATION

MW-7

UNDERGROUND CORRUGATED PIPE

R/W

MW-6

EXISTING POND

MW-11

MW-26

SUB STATION

MW-5

CENTRAL AVENUE

GEORGIA AVENUE

VIEW A

FORMER COVERED DRUM STORAGE AREA

MW-2

FORMER VDM CONDENSATE DRAIN LINE

MW-3

MW-4

MW-16

MW-23

MW-10

MW-14

FORMER HAZARDOUS WASTE STORAGE AREA & FORMER SLUDGE DRYING BED

FORMER WASTEWATER TREATMENT

N

LEGEND

- Property Line
- Chain Link Fence
- MW-11 Overburden Monitoring Well
- MW-10 Bedrock Monitoring Well
- TP-4 Temporary Piezometer
- TOB Top of Embankment
- EOP Edge of Pavement
- (91) TCE CONCENTRATION
- 100 TCE CONCENTRATION CONTOUR

NOTE:
1.) SITE SURVEY UPDATED BY METRO ENGINEERING & SURVEYING – FEBRUARY 2012

2.) MW–32 IS BEDROCK WELL.

0 70 140FT

Title: OVERBURDEN TCE ISO-CONCENTRATION CONTOURS - JAN 2018

Site: SOUTHERN STATES, LLC
Hampton, Georgia

EMA Environmental Management Associates, LLC

Facility ID.

Figure 6

OAK STREET (PUBLIC R/W VARIES)

OHU

SS

S

FLOOD BOUNDARY

CL CREEK

EXISTING POND

DAM

APPROXIMATE FORMER LANDFILL BOUNDARY

APPROXIMATE FORMER EAST SIDE DRUM STORAGE LOCATION

UNDERGROUND CORRUGATED PIPE

LITTLE BEAR CREEK

B.O.B.

T.O.B.

HAZARDOUS WASTE & USED OIL STORAGE BUILDING

FORMER LOCATION OF BEAVER DAM & POND

APPROXIMATE FORMER WEST SIDE DRUM STORAGE LOCATION

STORAGE BUILDING

Mc GARITY BUILDING

WAREHOUSE

FAB SHOP

FORMER FOUNDRY

FORMER ELECTROPLATING SHOP

CURRENT ELECTROPLATING SHOP

MAIN MANUFACTURING BUILDING

ALUMINUM CUTTING & SANDBLASTING MAINTENANCE SHOP

FORMER COVERED DRUM STORAGE AREA

FORMER VDM CONDENSATE DRAIN LINE

FORMER HAZARDOUS WASTE STORAGE AREA & FORMER SLUDGE DRYING BED

FORMER WASTEWATER TREATMENT

FORMER VDM

SEE VIEW A

VIEW A

EXISTING POND

SUB STATION

R/W

CENTRAL AVENUE

GEORGIA AVENUE

MW-1 MW-2 MW-3 MW-4 MW-5 MW-6 MW-7 MW-8 MW-9 MW-10 MW-11 MW-12 MW-13 MW-14 MW-15 MW-16 MW-17 MW-18 MW-19 (14) MW-20 (ND) MW-21 MW-22 MW-23 MW-24 MW-25 MW-26 MW-27 MW-28 (27) MW-29 MW-30 MW-31 (ND) MW-32 (105) MW-33 MW-34 MW-35 MW-36 (ND) MW-37 MW-38 MW-39 MW-40 MW-41 MW-42

TP-1 TP-2 TP-3 TP-4 TP-5 TP-6

OEW-1 OEW-2 BEW-1 BEW-2

TOB EOP

100

LEGEND

- Property Line
- Chain Link Fence
- MW-11 Overburden Monitoring Well
- MW-10 Bedrock Monitoring Well
- TP-4 Temporary Piezometer
- TOB Top of Embankment
- EOP Edge of Pavement
- (91) TOTAL VOC CONCENTRATION
- 100 TOTAL VOC CONCENTRATION CONTOUR

NOTE:
1.) SITE SURVEY UPDATED BY METRO ENGINEERING & SURVEYING – FEBRUARY 2012

2.) MW–32 IS BEDROCK WELL.

0 70 140FT

Title: BEDROCK TOTAL VOC ISO-CONCENTRATION CONTOURS - JAN 2018

Site: SOUTHERN STATES, LLC
Hampton, Georgia

EMA Environmental Management Associates, LLC

Facility ID.

Figure 7

OAK STREET (PUBLIC R/W VARIES)

OHU

SS

S

FLOOD BOUNDARY

CL CREEK

EXISTING POND

DAM

APPROXIMATE FORMER LANDFILL BOUNDARY

APPROXIMATE FORMER EAST SIDE DRUM STORAGE LOCATION

UNDERGROUND CORRUGATED PIPE

LITTLE BEAR CREEK

HAZARDOUS WASTE & USED OIL STORAGE BUILDING

FORMER LOCATION OF BEAVER DAM & POND

APPROXIMATE FORMER WEST SIDE DRUM STORAGE LOCATION

STORAGE BUILDING

Mc GARITY BUILDING

WAREHOUSE

FAB SHOP

FORMER FOUNDRY

FORMER ELECTROPLATING SHOP

CURRENT ELECTROPLATING SHOP

MAIN MANUFACTURING BUILDING

ALUMINUM CUTTING & SANDBLASTING MAINTENANCE SHOP

FORMER COVERED DRUM STORAGE AREA

FORMER VDM CONDENSATE DRAIN LINE

FORMER HAZARDOUS WASTE STORAGE AREA & FORMER SLUDGE DRYING BED

FORMER WASTEWATER TREATMENT

FORMER VDM

FORMER WASTEWATER TREATMENT

VIEW A

SEE VIEW A

EXISTING POND

SUB STATION

R/W

CENTRAL AVENUE

GEORGIA AVENUE

MW-1 MW-2 MW-3 MW-4 MW-5 MW-6 MW-7 MW-8 MW-9 MW-10 MW-11 MW-12 MW-13 MW-14 MW-15 MW-16 MW-17 MW-18 MW-19 (14) MW-20 (ND) MW-21 MW-22 MW-23 MW-24 MW-25 MW-26 MW-27 MW-28 (27) MW-29 MW-30 MW-31 (ND) MW-32 (99) MW-33 MW-34 MW-35 MW-36 (ND) MW-37 MW-38 MW-39 MW-40 MW-41 MW-42

TP-1 TP-2 TP-3 TP-4 TP-5 TP-6

OEW-1 OEW-2 OEW-3 BEW-1 BEW-2

T.O.B. B.O.B. EOP

100

LEGEND

- Property Line
- Chain Link Fence
- MW-11 Overburden Monitoring Well
- MW-10 Bedrock Monitoring Well
- TP-4 Temporary Piezometer
- TOB Top of Embankment
- EOP Edge of Pavement
- (91) TCE CONCENTRATION
- 100 TCE CONCENTRATION CONTOUR

NOTE:
1.) SITE SURVEY UPDATED BY METRO ENGINEERING & SURVEYING – FEBRUARY 2012

2.) MW–32 IS BEDROCK WELL.

0 70 140FT

Title: BEDROCK TCE ISO-CONCENTRATION CONTOURS - JAN 2018

Site: SOUTHERN STATES, LLC
Hampton, Georgia

EMA Environmental Management Associates, LLC

Facility ID.

Figure 8

TABLES

TABLE 1

SUMMARY OF GROUNDWATER ELEVATIONS
PERFORMANCE EVALUATION MONITORING WELLS
PERFORMANCE MONITORING
SOUTHERN STATES, LLC.
JANUARY 10, 2018

Monitoring Well	*Reference Elevation (ft.)* [1]	*Depth to Groundwater (ft.)* [2]	*Groundwater Elevation (ft.)*
MW-9	856.50	17.82	838.68
MW-13	850.30	10.98	839.32
MW-17	833.71	7.40	826.31
MW-18	838.03	2.11	835.92
MW-19 [3]	850.81	11.23	839.58
MW-20 [3]	851.88	10.58	841.30
MW-21	851.32	10.37	840.95
MW-28 [3]	847.20	7.68	839.52
MW-31[3]	843.92	4.70	839.22
MW-32 [3]	838.86	2.71	836.15
MW-35	839.95	7.90	832.05
MW-36 [3]	838.97	7.20	831.77
MW-39	848.47	9.80	838.67
MW-40	851.86	13.26	838.60
MW-41	851.38	13.35	838.03
TP-1	850.44	10.27	840.17
TP-2	851.36	10.78	840.58

Notes:

[1] North Atlantic Vertical Datum in feet

[2] Feet below top of casing

[3] Bedrock Well

NM - Monitoring wells were not evaluated during this sample round

TABLE 2
SUMMARY OF DETECTED COMPOUNDS - PERFORMANCE MONITORING WELLS
SOUTHERN STATES, LLC.
HAMPTON, GEORGIA

Location ID:			***MW-9***	***MW-9***	***MW-9***	***MW-9***	***MW-9***	***MW-9***	***MW-9***	***MW-9***	***MW-9***
Sample Name:			***MW-9***	***MW-9***	***MW-9***	***MW-9***	***MW-9***	***MW-9***	***MW-9***	***MW-9***	***MW-9***
Sample Date:			***7/1/14***	***6/18/15***	***9/3/15***	***12/16/15***	***3/31/16***	***7/7/16***	***11/2/16***	***06/08/2017***	***1/10/2018***
Parameters	***Units***	***Type 4 RRS***	***Historic***	***Baseline***	***Post-Injection #1***	***Pre-injection #2***	***Post-injection #2***	***Post-injection***	***Post-injection***	***Post-injection***	***Post-injection***
Volatile Organic Compounds											
1,1,1-Trichloroethane	ug/L	13600	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	ug/L	5	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	ug/L	4000	8.5	7.2	NS	6.4	5.5	5.6	7.4	5.0 U	6.9
1,1-Dichloroethene	ug/L	524	6.3	7.2	NS	6.4	5.7	5.0 U	7.1	5.0 U	7.5
1,4-Dioxane	ug/L	-	-	150 U	NS	150 U	150 U	150 U	150 U	150 U	150 U
Acetone	ug/L	45620	50 U	50 U	NS	50 U	50 U	50 U	50 U	50 U	50 U
Carbon tetrachloride	ug/L	10.2	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	ug/L	29200	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform (Trichloromethane)	ug/L	80	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	204	38	35	NS	29	24	30	37	24	35
Methyl tert butyl ether (MTBE)	ug/L	263	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	ug/L	5241	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	ug/L	2044	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	ug/L	5.24	**690**	**740**	NS	**810**	**720**	**810**	**840**	**530**	**820**
Vinyl chloride	ug/L	3.27	2.0 U	2.0 U	NS	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.8
Tetrachloroethane	ug/L	98	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
					NS						
Total chlorinated VOCs	ug/L	NC	743	789	NS	852	755	846	892	554	872
MNA's											
Sulfide	mg/L									BDL (2)	BDL (2)
Chloride	mg/L									20	21
Nitrate	mg/L									1.3	1.2
Sulfate	mg/L									4.5	4.8
Ethane	ug/L									BDL(9)	BDL(9)
Ethene	ug/L									BDL(7)	BDL(7)
Methane	ug/L									BDL(4)	18
Iron, Ferrous	mg/L									BDL(0.1)	BDL(0.1)
Carbon dioxide	mg/L									75.3	75.2
Alkalinity	mg/L									41	39

Notes:
ug/L - micrograms per liter
mg/L - milligrams per liter
NC - No established criteria (remediation goal)
5.0 U - not detected at associated method reporting limit
100 UJ - estimated result reported below associated reporting limit
"--" Not analyzed
ND - not detected
230 - Above the Type 4 RRS
NS - Not sampled

TABLE 2
SUMMARY OF DETECTED COMPOUNDS - PERFORMANCE MONITORING WELLS
SOUTHERN STATES, LLC.
HAMPTON, GEORGIA

Location ID:			***MW-13***	***MW-13***	***MW-13***	***MW-13***	***MW-13***	***MW-13***	***MW-13***	***MW-13***	***MW-13***
Sample Name:			***MW-13***	***MW-13***	***MW-13***	***MW-13***	***MW-13***	***MW-13***	***MW-13***	***MW-13***	***MW-13***
Sample Date:			***7/2/14***	***6/18/15***	***9/3/15***	***12/16/15***	***3/31/16***	***7/7/16***	***11/2/16***	***6/8/2017***	***1/10/2018***
Parameters	***Units***	***Type 4 RRS***	***Historic***	***Baseline***	***Post-Injection #1***	***Pre-injection #2***	***Post-injection #2***	***Post-injection***	***Post-injection***	***Post-injection***	***Post-injection***
Volatile Organic Compounds											
1,1,1-Trichloroethane	ug/L	13600	5.0 U	5.0 U	NS	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	ug/L	5	5.0 U	5.0 U	NS	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	ug/L	4000	11	8.1	NS	NS	7.6	5.6	5.0 U	5.1	6.7
1,1-Dichloroethene	ug/L	524	36	24	NS	NS	21	13	7.5	11	10
1,4-Dioxane	ug/L	-		150 U	NS	NS	150 U	150 U	150 U	150 U	150 U
Acetone	ug/L	45620	50 U	50 U	NS	NS	50 U	50 U	50 U	50 U	50 U
Carbon tetrachloride	ug/L	10.2	5.0 U	5.0 U	NS	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	ug/L	29200	10 U	10 U	NS	NS	10 U	10 U	10 U	10 U	10 U
Chloroform (Trichloromethane)	ug/L	80	5.0 U	5.0 U	NS	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	204	170	84	NS	NS	62	66	46	61	72
Methyl tert butyl ether (MTBE)	ug/L	263	5.0 U	5.0 U	NS	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	ug/L	5241	5.0 U	5.0 U	NS	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	ug/L	2044	5.0 U	5.0 U	NS	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	ug/L	5.24	**40**	**23**	NS	NS	**61**	**24**	5.0 U	5.0 U	5.0 U
Vinyl chloride	ug/L	3.27	2.0 U	4	NS	NS	**4**	**3.7**	**5.5**	**5.1**	**5.4**
Tetrachloroethane	ug/L	98	5.0 U	5.0U	NS	NS	5.0U	5.0U	5.0U	5.0U	5.0U
					NS	NS					
Total chlorinated VOCs	ug/L	NC	262	143	NS	NS	156	112	59	82	94
MNA's											
Sulfide	mg/L									BDL(2)	BDL(2)
Chloride	mg/L									17	25
Nitrate	mg/L									BDL(0.25)	BDL(0.25)
Sulfate	mg/L									28	65
Ethane	ug/L									15	10
Ethene	ug/L									BDL(7)	BDL(7)
Methane	ug/L									640	510
Iron, Ferrous	mg/L									BDL(0.1)	BDL(0.1)
Carbon dioxide	mg/L									249	260
Alkalinity	mg/L									185	275

Notes:
ug/L - micrograms per liter
mg/L - milligrams per liter
NC - No established criteria (remediation goal)
5.0 U - not detected at associated method reporting limit
100 UJ - estimated result reported below associated reporting limit
"--" Not analyzed
ND - not detected
230 - Above the Type 4 RRS
NS - Not sampled

TABLE 2
SUMMARY OF DETECTED COMPOUNDS - PERFORMANCE MONITORING WELLS
SOUTHERN STATES, LLC.
HAMPTON, GEORGIA

Location ID:			***MW-17***	***MW-17***	***MW-17***	***MW-18***	***MW-18***	***MW-18***	***MW-18***	***MW-18***	***MW-18***
Sample Name:			***MW-17***	***MW-17***	***MW-17***	***MW-18***	***MW-18***	***MW-18***	***MW-18***	***MW-18***	***MW-18***
Sample Date:			***7/3/2014***	***6/8/2017***	***1/10/2018***	***7/2/14***	***6/18/15***	***9/3/15***	***12/16/15***	***3/31/16***	***7/7/16***
Parameters	***Units***	***Type 4 RRS***	***Historic***	***Post-injection***	***Post-injection***	***Historic***	***Baseline***	***Post-Injection #1***	***Pre-injection #2***	***Post-injection #2***	***Post-injection***
Volatile Organic Compounds											
1,1,1-Trichloroethane	ug/L	13600	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U
1,1,2-Trichloroethane	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U
1,1-Dichloroethane	ug/L	4000	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U
1,1-Dichloroethene	ug/L	524	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U
1,4-Dioxane	ug/L	-	-	150 U	150 U		150 U	150 U	NS	150 U	150 U
Acetone	ug/L	45620	50 U	50 U	50 U	50 U	50 U	50 U	NS	50 U	50 U
Carbon tetrachloride	ug/L	10.2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U
Chloroethane	ug/L	29200	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U
Chloroform (Trichloromethane)	ug/L	80	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	204	5.0 U	5.0 U	5.0 U	120	72	77	NS	5.7	54
Methyl tert butyl ether (MTBE)	ug/L	263	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U
Toluene	ug/L	5241	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U
trans-1,2-Dichloroethene	ug/L	2044	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U
Trichloroethene	ug/L	5.24	5.0 U	5.0 U	5.0 U	**26**	**22**	**14**	NS	5.0 U	**21**
Vinyl chloride	ug/L	3.27	5.0 U	5.0 U	5.0 U	**20**	**12**	**14**	NS	5.0 U	**7**
Tetrachloroethane	ug/L	98	5.0U	5.0U	5.0U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U
									NS		
Total chlorinated VOCs	ug/L	NC	ND	ND	ND	166	106	105	NS	5.7	82
MNA's											
Sulfide	mg/L		NS	BDL(2)	BDL(2)						
Chloride	mg/L		NS	3.2	2.6						
Nitrate	mg/L		NS	BDL(0.25)	BDL(0.25)						
Sulfate	mg/L		NS	7.1	29						
Ethane	ug/L		NS	BDL(9)	BDL(9)						
Ethene	ug/L		NS	BDL(7)	BDL(7)						
Methane	ug/L		NS	330	38						
Iron, Ferrous	mg/L		NS	BDL(0.1)	BDL(0.1)						
Carbon dioxide	mg/L		NS	112	126						
Alkalinity	mg/L		NS	40	37						

Notes:
ug/L - micrograms per liter
mg/L - milligrams per liter
NC - No established criteria (remediation goal)
5.0 U - not detected at associated method reporting limit
100 UJ - estimated result reported below associated reporting limit
"--" Not analyzed
ND - not detected
230 - Above the Type 4 RRS
NS - Not sampled

TABLE 2
SUMMARY OF DETECTED COMPOUNDS - PERFORMANCE MONITORING WELLS
SOUTHERN STATES, LLC.
HAMPTON, GEORGIA

Location ID:			***MW-18***	***MW-18***	***MW-18***	***MW-19***	***MW-19***	***MW-19***	***MW-19***	***MW-20***	***MW-20***	***MW-20***
Sample Name:			***MW-18***	***MW-18***	***MW-18***	***MW-19***	***MW-19***	***MW-19***	***MW-19***	***MW-20***	***MW-20***	***MW-20***
Sample Date:			***11/2/16***	***6/8/2017***	***1/10/2018***	***7/2/14***	***6/18/15***	***6/8/2017***	***1/10/2018***	***7/1/2014***	***6/8/2017***	***1/10/2018***
Parameters	***Units***	***Type 4 RRS***	***Post-injection***	***Post-injection***	***Post-injection***	***Historic***	***Baseline***	***Post-Injection***	***Post-Injection***	***Historic***	***Post-injection***	***Post-injection***
Volatile Organic Compounds												
1,1,1-Trichloroethane	ug/L	13600	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	ug/L	4000	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	8.8	5.0 U	5.9
1,1-Dichloroethene	ug/L	524	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dioxane	ug/L	-	150 U	150 U	150 U		150 U	NS	150 U	-	150 U	150 U
Acetone	ug/L	45620	50 U	50 U	50 U	50 U	50 U	NS	50 U	50 U	50 U	50 U
Carbon tetrachloride	ug/L	10.2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	ug/L	29200	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
Chloroform (Trichloromethane)	ug/L	80	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	204	130	120	76	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert butyl ether (MTBE)	ug/L	263	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	ug/L	5241	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	ug/L	2044	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	ug/L	5.24	**28**	**13**	**24**	**14**	**14**	NS	**14**	5.0 U	5.0 U	5.0 U
Vinyl chloride	ug/L	3.27	**5.3**	**8.8**	**4.2**	2.0 U	2.0 U	NS	2.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethane	ug/L	98	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0U	5.0U	5.0U
Total chlorinated VOCs	ug/L	NC	163	142	104	14	14		14	8.8	ND	5.9
MNA's												
Sulfide	mg/L			BDL(2)	BDL(2)			NS	BDL(2)	NS	BDL(2)	BDL(2)
Chloride	mg/L			15	14				14	NS	13	14
Nitrate	mg/L			BDL(0.25)	BDL(0.25)				0.54	NS	BDL(0.25)	BDL(0.25)
Sulfate	mg/L			18	17				13	NS	4.2	3.4
Ethane	ug/L			BDL(9)	BDL(9)				BDL(9)	NS	BDL(9)	BDL(9)
Ethene	ug/L			BDL(7)	BDL(7)				BDL(7)	NS	BDL(7)	BDL(7)
Methane	ug/L			190	BDL(4)				BDL(4)	NS	56	910
Iron, Ferrous	mg/L			BDL(0.1)	BDL(0.5)				BDL(0.1)	NS	BDL(0.1)	BDL(0.1)
Carbon dioxide	mg/L			163	130				83.5	NS	166	171
Alkalinity	mg/L			129	107				84	NS	167	167

Notes:
ug/L - micrograms per liter
mg/L - milligrams per liter
NC - No established criteria (remediation goal)
5.0 U - not detected at associated method reporting limit
100 UJ - estimated result reported below associated reporting limit
"--" Not analyzed
ND - not detected
230 - Above the Type 4 RRS
NS - Not sampled

TABLE 2
SUMMARY OF DETECTED COMPOUNDS - PERFORMANCE MONITORING WELLS
SOUTHERN STATES, LLC.
HAMPTON, GEORGIA

Location ID:			***MW-21***	***MW-21***	***MW-21***	***MW-21***	***MW-21***	***MW-21***	***MW-21***	***MW-21***	***MW-21***
Sample Name:			***MW-21***	***MW-21***	***MW-21***	***MW-21***	***MW-21***	***MW-21***	***MW-21***	***MW-21***	***MW-21***
Sample Date:			***7/1/14***	***6/18/15***	***9/3/15***	***12/16/15***	***3/31/16***	***7/7/16***	***11/2/16***	***6/8/2017***	***1/10/2018***
Parameters	***Units***	***Type 4 RRS***	***Historic***	***Baseline***	***Post-Injection #1***	***Pre-injection #2***	***Post-injection #2***	***Post-injection***	***Post-injection***	***Post-injection***	***Post-injection***
Volatile Organic Compounds											
1,1,1-Trichloroethane	ug/L	13600	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	ug/L	5	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	ug/L	4000	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	ug/L	524	5.0 U	9.2	NS	6.8	12	5.4	22	13	5.0 U
1,4-Dioxane	ug/L	-		150 U	NS	150 U	150 U	150 U	150 U	150 U	150 U
Acetone	ug/L	45620	50 U	50 U	NS	50 U	50 U	50 U	50 U	50 U	50 U
Carbon tetrachloride	ug/L	10.2	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	ug/L	29200	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform (Trichloromethane)	ug/L	80	5.4	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	204	16	8.9	NS	6.7	5.0 U	5.0 U	7.2	7.2	12
Methyl tert butyl ether (MTBE)	ug/L	263	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	ug/L	5241	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	ug/L	2044	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	ug/L	5.24	**340**	**210**	NS	**160**	**210**	**100**	**250**	**220**	**120**
Vinyl chloride	ug/L	3.27	2.0 U	2.0 U	NS	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethane	ug/L	98	5.0 U	5.0 U	NS	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
					NS						
Total chlorinated VOCs	ug/L	NC	379	228	NS	174	232	105	279	240	132
MNA's											
Sulfide	mg/L									BDL(2)	BDL(2)
Chloride	mg/L									22	16
Nitrate	mg/L									4.2	1.7
Sulfate	mg/L									21	16
Ethane	ug/L									BDL(9)	BDL(9)
Ethene	ug/L									BDL(7)	BDL(7)
Methane	ug/L									8.5	8.5
Iron, Ferrous	mg/L									BDL(0.1)	BDL(0.1)
Carbon dioxide	mg/L									65.6	48
Alkalinity	mg/L									34	28

Notes:
ug/L - micrograms per liter
mg/L - milligrams per liter
NC - No established criteria (remediation goal)
5.0 U - not detected at associated method reporting limit
100 UJ - estimated result reported below associated reporting limit
"--" Not analyzed
ND - not detected
230 - Above the Type 4 RRS
NS - Not sampled

TABLE 2
SUMMARY OF DETECTED COMPOUNDS - PERFORMANCE MONITORING WELLS
SOUTHERN STATES, LLC.
HAMPTON, GEORGIA

Location ID:			***MW-28***	***MW-28***	***MW-28***	***MW-28***	***MW-31***	***MW-31***	***MW-31***	***MW-32***	***MW-32***	***MW-32***	***MW-32***
Sample Name:			***MW-28***	***MW-28***	***MW-28***	***MW-28***	***MW-31***	***MW-31***	***MW-31***	***MW-32***	***MW-32***	***MW-32***	***MW-32***
Sample Date:			***7/1/14***	***6/18/15***	***6/8/2017***	***1/10/2018***	***6/18/15***	***6/8/2017***	***1/10/2018***	***7/2/14***	***6/18/15***	***9/3/15***	***7/7/16***
Parameters	***Units***	***Type 4 RRS***	***Historic***	***Baseline***	***Post-injection***	***Post-injection***	***Baseline***	***Post-injection***	***Post-injection***	***Historic***	***Baseline***	***Post-Injection #1***	***Post-Injection***
Volatile Organic Compounds													
1,1,1-Trichloroethane	ug/L	13600	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	ug/L	4000	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	ug/L	524	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.8	5.0 U	5.0 U	5.0 U
1,4-Dioxane	ug/L	-		150 U	150 U	150 U	150 U	150 U	150 U		150 U	150 U	150 U
Acetone	ug/L	45620	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Carbon tetrachloride	ug/L	10.2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	ug/L	29200	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform (Trichloromethane)	ug/L	80	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	204	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10	7.4	7.9	6.4
Methyl tert butyl ether (MTBE)	ug/L	263	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	ug/L	5241	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	ug/L	2044	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	ug/L	5.24	**16**	**15**	**7.4**	**27**	**15**	5.0 U	5.0 U	**110**	**110**	**120**	**85**
Vinyl chloride	ug/L	3.27	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethane	ug/L	98	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Total chlorinated VOCs	ug/L	NC	16	15	7	27	15	ND	ND	126	118	128	91
MNA's													
Sulfide	mg/L				BDL(2)	BDL(2)		BDL(2)	BDL(2)				
Chloride	mg/L				11	12		16	16				
Nitrate	mg/L				1.1	1.2		BDL(0.25)	BDL(0.25)				
Sulfate	mg/L				7.8	8.7		1.3	2.3				
Ethane	ug/L				BDL(9)	BDL(9)		BDL(9)	BDL(9)				
Ethene	ug/L				BDL(7)	BDL(7)		BDL(7)	BDL(7)				
Methane	ug/L				BDL(4)	BDL(4)		65	8.7				
Iron, Ferrous	mg/L				BDL(0.1)	BDL(0.1)		BDL(0.1)	BDL(0.1)				
Carbon dioxide	mg/L				54.1	101		113	87.8				
Alkalinity	mg/L				33	39		90	84				

Notes:
ug/L - micrograms per liter
mg/L - milligrams per liter
NC - No established criteria (remediation goal)
5.0 U - not detected at associated method reporting limit
100 UJ - estimated result reported below associated reporting limit
"--" Not analyzed
ND - not detected
230 - Above the Type 4 RRS
NS - Not sampled

TABLE 2
SUMMARY OF DETECTED COMPOUNDS - PERFORMANCE MONITORING WELLS
SOUTHERN STATES, LLC.
HAMPTON, GEORGIA

Location ID:			***MW-32***	***MW-32***	***MW-32***	***MW-35***	***MW-35***	***MW-35***	***MW-36***	***MW-36***	***MW-36***
Sample Name:			***MW-32***	***MW-32***	***MW-32***	***MW-35***	***MW-35***	***MW-35***	***MW-36***	***MW-13***	***MW-13***
Sample Date:			***11/2/16***	***6/8/2017***	***1/10/2018***	***7/3/14***	***6/8/2017***	***1/10/2018***	***7/3/14***	***6/8/2017***	***1/10/2018***
Parameters	***Units***	***Type 4 RRS***	***Post-Injection***	***Post-Injection***	***Post-Injection***	***Historic***	***Post-injection***	***Post-injection***	***Historic***	***Post-injection***	***Post-injection***
Volatile Organic Compounds											
1,1,1-Trichloroethane	ug/L	13600	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	ug/L	4000	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	ug/L	524	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dioxane	ug/L	-	150 U	150 U	150 U	150 U	NS	150 U	150 U	150 U	150 U
Acetone	ug/L	45620	50 U	50 U	50 U	50 U	NS	50 U	50 U	50 U	50 U
Carbon tetrachloride	ug/L	10.2	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	ug/L	29200	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
Chloroform (Trichloromethane)	ug/L	80	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	204	7.1	5.2	5.8	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert butyl ether (MTBE)	ug/L	263	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	ug/L	5241	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	ug/L	2044	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	ug/L	5.24	**110**	**83**	**99**	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl chloride	ug/L	3.27	2.0 U	2.0 U	2.0 U	5.0 U	NS	2.0 U	5.0 U	2.0 U	2.0 U
Tetrachloroethane	ug/L	98	5.0 U	5.0 U	5.0 U	5.0U	NS	5.0U	5.0U	5.0U	5.0U
Total chlorinated VOCs	ug/L	NC	117	88	105	ND		ND	ND	ND	ND
MNA's											
Sulfide	mg/L			BDL(2)	BDL(2)			BDL(2)		BDL(2)	BDL(2)
Chloride	mg/L			13	14			9.4		3.6	2.6
Nitrate	mg/L			1.1	1.4			BDL(0.25)		0.36	0.41
Sulfate	mg/L			7.6	7.7			61		6.2	7.3
Ethane	ug/L			BDL(9)	BDL(9)		BDL(9)	BDL(9)		BDL(9)	BDL(9)
Ethene	ug/L			BDL(7)	BDL(7)		BDL97)	BDL(7)		BDL(7)	BDL(7)
Methane	ug/L			BDL(4)	BDL(4)		54	11		BDL(4)	11
Iron, Ferrous	mg/L			BDL(0.1)	BDL(0.1)			BDL(0.1)		BDL(0.1)	BDL(0.1)
Carbon dioxide	mg/L			110	82.8			216		106	52.1
Alkalinity	mg/L			53	51			26		53	52

Notes:
ug/L - micrograms per liter
mg/L - milligrams per liter
NC - No established criteria (remediation goal)
5.0 U - not detected at associated method reporting limit
100 UJ - estimated result reported below associated reporting limit
"--" Not analyzed
ND - not detected
230 - Above the Type 4 RRS
NS - Not sampled

TABLE 2
SUMMARY OF DETECTED COMPOUNDS - PERFORMANCE MONITORING WELLS
SOUTHERN STATES, LLC.
HAMPTON, GEORGIA

Location ID:			***MW-39***	***MW-39***	***MW-39***	***MW-39***	***MW-39***	***MW-39***	***MW-39***	***MW-39***	***MW-39***
Sample Name:			***MW-39***	***MW-39***	***MW-39***	***MW-39***	***MW-39***	***MW-39***	***MW-39***	***MW-39***	***MW-39***
Sample Date:			***7/2/14***	***6/18/15***	***9/3/15***	***12/16/15***	***3/31/16***	***7/7/16***	***11/2/16***	***6/8/2017***	***1/10/2018***
			Historic	***Baseline***	***Post-Injection #1***	***Pre-injection #2***	***Post-injection #2***	***Post-injection***	***Post-injection***	***Post-injection***	***Post-injection***
Parameters	***Units***	***Type 4 RRS***									
Volatile Organic Compounds											
1,1,1-Trichloroethane	ug/L	13600	25000 U	2500 U	25000 U	5000 U	500 U	500 U	500 U	5.0 U	5.0 U
1,1,2-Trichloroethane	ug/L	5	25000 U	2500 U	25000 U	5000 U	500 U	500 U	500 U	5.0 U	5.0 U
1,1-Dichloroethane	ug/L	4000	25000 U	2500 U	25000 U	5000 U	500 U	500 U	500 U	13	12
1,1-Dichloroethene	ug/L	524	25000 U	**4900**	25000 U	5000 U	500 U	500 U	500 U	53	28
1,4-Dioxane	ug/L	-		75000 U	750000 U	150000 U	15000 U	15000 U	15000 U	150 U	150 U
Acetone	ug/L	45620	50000 U	25000 U	50000 U	50000 U	5000 U	5000 U	5000 U	50 U	50 U
Carbon tetrachloride	ug/L	10.2	25000 U	2500 U	25000 U	5000 U	500 U	500 U	500 U	5.0 U	5.0 U
Chloroethane	ug/L	29200	25000 U	2500 U	25000 U	10000 U	1000 U	1000 U	1000 U	10 U	10 U
Chloroform (Trichloromethane)	ug/L	80	25000 U	2500 U	25000 U	5000 U	500 U	500 U	500 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	204	25000 U	2500 U	25000 U	5000 U	500 U	500 U	500 U	29	39
Methyl tert butyl ether (MTBE)	ug/L	263	25000 U	2500 U	25000 U	5000 U	500 U	500 U	500 U	5.0 U	5.0 U
Toluene	ug/L	5241	25000 U	2500 U	25000 U	5000 U	500 U	500 U	500 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	ug/L	2044	25000 U	2500 U	25000 U	5000 U	500 U	500 U	500 U	5.0 U	5.0 U
Trichloroethene	ug/L	5.24	**200,000**	**210000**	**100,000**	**110000**	**19,000**	**8600**	**9800**	**6300**	**5800**
Vinyl chloride	ug/L	3.27	10000 U	1000 U	10000 U	5000 U	500 U	500 U	500 U	2.0 U	2.0 U
Tetrachloroethane	ug/L	98	25000 U	2500 U	25000 U	5000 U	500 U	500 U	500 U	19	18
Total chlorinated VOCs	ug/L	NC	200,000	214,900	100,000	110,000	19,000	8600	9800	6414	5897
MNA's											
Sulfide	mg/L									BDL(2)	BDL(2)
Chloride	mg/L									14	15
Nitrate	mg/L									0.3	0.36
Sulfate	mg/L									110	47
Ethane	ug/L									BDL(9)	BDL(9)
Ethene	ug/L									BDL(7)	BDL(7)
Methane	ug/L									21	17
Iron, Ferrous	mg/L									BDL(0.1)	BDL(0.1)
Carbon dioxide	mg/L									112	106
Alkalinity	mg/L									42	18

Notes:
ug/L - micrograms per liter
mg/L - milligrams per liter
NC - No established criteria (remediation goal)
5.0 U - not detected at associated method reporting limit
100 UJ - estimated result reported below associated reporting limit
"--" Not analyzed
ND - not detected
230 - Above the Type 4 RRS
NS - Not sampled

TABLE 2
SUMMARY OF DETECTED COMPOUNDS - PERFORMANCE MONITORING WELLS
SOUTHERN STATES, LLC.
HAMPTON, GEORGIA

Location ID:			***MW-40***	***MW-40***	***MW-40***	***MW-40***	***MW-40***	***MW-40***	***MW-40***	***MW-40***	***MW-40***
Sample Name:			***MW-40***	***MW-40***	***MW-40***	***MW-40***	***MW-40***	***MW-40***	***MW-40***	***MW-40***	***MW-40***
Sample Date:			***7/1/14***	***6/18/15***	***9/3/15***	***12/16/15***	***3/31/16***	***7/7/16***	***11/2/16***	***6/8/2017***	***1/10/2018***
Parameters	***Units***	***Type 4 RRS***	***Historic***	***Baseline***	***Post-Injection #1***	***Pre-injection #2***	***Post-injection #2***	***Post-injection***	***Post-injection***	***Post-injection***	***Post-injection***
Volatile Organic Compounds											
1,1,1-Trichloroethane	ug/L	13600	5.0 U	5.0 U	250 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	ug/L	5	**16**	**23**	250 U	**6.1**	**14**	**7.1**	**8.4**	5.0 U	5.0 U
1,1-Dichloroethane	ug/L	4000	36	44	250 U	28	14	12	15	12	15
1,1-Dichloroethene	ug/L	524	42	61	250 U	38	61	5.0 U	5.1	5.0 U	5.0 U
1,4-Dioxane	ug/L	-		150 U	7500 U	150 U	150 U	150 U	150 U	150 U	150 U
Acetone	ug/L	45620	50 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U	50 U
Carbon tetrachloride	ug/L	10.2	5.0 U	5.0 U	250 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	ug/L	29200	10 U	10 U	500 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform (Trichloromethane)	ug/L	80	5.0 U	5.0 U	250 U	5.0 U	5.3	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	204	**1500**	**1700**	**1600**	**720**	**250**	**230**	**330**	**210**	**390**
Methyl tert butyl ether (MTBE)	ug/L	263	5.0 U	5.0 U	250 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	ug/L	5241	5.0 U	5.0 U	250 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	ug/L	2044	5.0 U	5.0 U	250 U	6.9	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	ug/L	5.24	**2100**	**3500**	**3200**	**5200**	**1500**	**950**	**900**	**1000**	**1500**
Vinyl chloride	ug/L	3.27	**100**	**110**	**140**	**8.8**	**120**	**66**	**110**	**80**	**150**
Tetrachloroethane	ug/L	98	5.0 U	5.0 U	250 U	14	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Total chlorinated VOCs	ug/L	NC	3794	5438	4940	6001	1964	1265	1369	1302	2055
MNA's											
Sulfide	mg/L									BDL(2)	BDL(2)
Chloride	mg/L									38	42
Nitrate	mg/L									BDL(0.25)	BDL(0.25)
Sulfate	mg/L									53	59
Ethane	ug/L									BDL(9)	BDL(9)
Ethene	ug/L									BDL(7)	BDL(7)
Methane	ug/L									98	130
Iron, Ferrous	mg/L									0.814	2.81
Carbon dioxide	mg/L									106	70.1
Alkalinity	mg/L									16	40

Notes:
ug/L - micrograms per liter
mg/L - milligrams per liter
NC - No established criteria (remediation goal)
5.0 U - not detected at associated method reporting limit
100 UJ - estimated result reported below associated reporting limit
"--" Not analyzed
ND - not detected
230 - Above the Type 4 RRS
NS - Not sampled

TABLE 2
SUMMARY OF DETECTED COMPOUNDS - PERFORMANCE MONITORING WELLS
SOUTHERN STATES, LLC.
HAMPTON, GEORGIA

Location ID:			***MW-41***	***MW-41***	***MW-41***	***MW-41***	***MW-41***	***MW-41***	***MW-41***	***MW-41***	***MW-41***
Sample Name:			***MW-41***	***MW-41***	***MW-41***	***MW-41***	***MW-41***	***MW-41***	***MW-41***	***MW-41***	***MW-41***
Sample Date:			***7/1/14***	***6/18/15***	***9/3/15***	***12/16/15***	***3/31/16***	***7/7/16***	***11/2/16***	***6/8/2017***	***1/10/2018***
Parameters	***Units***	***Type 4 RRS***	***Historic***	***Baseline***	***Post-Injection #1***	***Pre-injection #2***	***Post-injection #2***	***Post-injection***	***Post-injection***	***Post-injection***	***Post-injection***
Volatile Organic Compounds											
1,1,1-Trichloroethane	ug/L	13600	5.0 U	250 U	250 U	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	ug/L	5	5.0 U	250 U	250 U	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	ug/L	4000	23	250 U	250 U	NS	16	9.7	13	6.1	7.7
1,1-Dichloroethene	ug/L	524	24	250 U	250 U	NS	24	10	17	5.0 U	6.8
1,4-Dioxane	ug/L	-		7500 U	7500 U	NS	150 U	150 U	150 U	150 U	150 U
Acetone	ug/L	45620	50 U	250 U	2500 U	NS	50 U	50 U	50 U	50 U	50 U
Carbon tetrachloride	ug/L	10.2	5.0 U	250 U	250 U	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	ug/L	29200	10 U	250 U	500 U	NS	10 U	10 U	10 U	10 U	10 U
Chloroform (Trichloromethane)	ug/L	80	5.0 U	250 U	250 U	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	204	**880**	**670**	**690**	NS	200	170	180	85	110
Methyl tert butyl ether (MTBE)	ug/L	263	5.0 U	250 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	ug/L	5241	5.0 U	250 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	ug/L	2044	5.0 U	250 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	ug/L	5.24	**2800**	**3500**	**4400**	NS	**2800**	**1800**	**1900**	**570**	**760**
Vinyl chloride	ug/L	3.27	**6.8**	100 U	100 U	NS	**4.2**	**3.8**	**4.4**	3.1	**4.6**
Tetrachloroethane	ug/L	98	7.3	250 U	250 U	NS	6.3	5.0 U	5.0 U	5.0 U	5.0 U
						NS					
Total chlorinated VOCs	ug/L	NC	3741	4170	5090	NS	3051	1994	2114	664	889
MNA's											
Sulfide	mg/L									BDL(2)	BDL(2)
Chloride	mg/L									28	28
Nitrate	mg/L									0.93	0.87
Sulfate	mg/L									280	180
Ethane	ug/L									BDL(9)	BDL(9)
Ethene	ug/L									BDL(7)	BDL(7)
Methane	ug/L									35	20
Iron, Ferrous	mg/L									BDL(0.1)	BDL(0.1)
Carbon dioxide	mg/L									53.7	63.4
Alkalinity	mg/L									42	47

Notes:
ug/L - micrograms per liter
mg/L - milligrams per liter
NC - No established criteria (remediation goal)
5.0 U - not detected at associated method reporting limit
100 UJ - estimated result reported below associated reporting limit
"--" Not analyzed
ND - not detected
230 - Above the Type 4 RRS
NS - Not sampled

TABLE 2
SUMMARY OF DETECTED COMPOUNDS - PERFORMANCE MONITORING WELLS
SOUTHERN STATES, LLC.
HAMPTON, GEORGIA

Location ID:			***TP-1***	***TP-1***	***TP-1***	***TP-1***	***TP-1***	***TP-1***	***TP-1***	***TP-1***	***TP-1***
Sample Name:			***TP-1***	***TP-1***	***TP-1***	***TP-1***	***TP-1***	***TP-1***	***TP-1***	***TP-1***	***TP-1***
Sample Date:			***7/1/14***	***6/18/15***	***9/3/15***	***12/16/15***	***3/31/16***	***7/7/16***	***11/2/16***	***6/8/2017***	***1/10/2018***
Parameters	***Units***	***Type 4 RRS***	***Historic***	***Baseline***	***Post-Injection #1***	***Pre-injection #2***	***Post-injection #2***	***Post-injection***	***Post-injection***	***Post-injection***	***Post-injection***
Volatile Organic Compounds											
1,1,1-Trichloroethane	ug/L	13600	5.0 U	250 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	ug/L	5	**19**	250 U	**18**	**12**	**5.5**	**5.2**	**5.6**	**11**	**15**
1,1-Dichloroethane	ug/L	4000	7.5	250 U	7.8	6	5.3	5.0 U	5.0 U	5.5	8.1
1,1-Dichloroethene	ug/L	524	5.0 U	250 U	6.1	6.1	5.0 U	5.0 U	5.0 U	5.0 U	7.3
1,4-Dioxane	ug/L	-		7500 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
Acetone	ug/L	45620	50 U	250 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L	10.2	5.0 U	250 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	ug/L	29200	10 U	250 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform (Trichloromethane)	ug/L	80	26	250 U	24	17	15	9.2	6	15	23
cis-1,2-Dichloroethene	ug/L	204	110	250 U	110	87	69	55	140	110	120
Methyl tert butyl ether (MTBE)	ug/L	263	5.0 U	250 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	ug/L	5241	5.0 U	250 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	ug/L	2044	5.0 U	250 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	ug/L	5.24	**2400**	**2300**	**2300**	**1800**	**1000**	**1100**	**870**	**1800**	**1900**
Vinyl chloride	ug/L	3.27	**3.8**	250 U	**3.3**	2.0 U	2.0 U	2.0 U	**8.8**	**4.2**	**3.6**
Tetrachloroethane	ug/L	98	5.0 U	250 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Total chlorinated VOCs	ug/L	NC	2566	2300	2469	1928	1095	1169	1030	1946	2077
MNA's											
Sulfide	mg/L									BDL(2)	BDL(2)
Chloride	mg/L									43	43
Nitrate	mg/L									9.9	9.9
Sulfate	mg/L									43	43
Ethane	ug/L									BDL(9)	BDL(9)
Ethene	ug/L									BDL(7)	BDL(7)
Methane	ug/L									27	27
Iron, Ferrous	mg/L									BDL(0.1)	BDL(0.1)
Carbon dioxide	mg/L									22.8	22.8
Alkalinity	mg/L									BDL(3)	BDL(3)

Notes:
ug/L - micrograms per liter
mg/L - milligrams per liter
NC - No established criteria (remediation goal)
5.0 U - not detected at associated method reporting limit
100 UJ - estimated result reported below associated reporting limit
"--" Not analyzed
ND - not detected
230 - Above the Type 4 RRS
NS - Not sampled

TABLE 2
SUMMARY OF DETECTED COMPOUNDS - PERFORMANCE MONITORING WELLS
SOUTHERN STATES, LLC.
HAMPTON, GEORGIA

Location ID:			*TP-2*	*TP-2*	*TP-2*	*TP-2*	*TP-2*	*TP-2*	*TP-2*	*TP-2*	*TP-2*
Sample Name:			*TP-2*	*TP-2*	*TP-2*	*TP-2*	*TP-2*	*TP-2*	*TP-2*	*TP-2*	*TP-2*
Sample Date:			*7/1/14*	*6/18/15*	*9/3/15*	*12/16/15*	*3/31/16*	*7/7/16*	*11/2/16*	*6/8/2017*	*6/8/2017*
			Historic	*Baseline*	*Post-Injection #1*	*Pre-injection #2*	*Post-injection #2*	*Post-injection*	*Post-injection*	*Post-injection*	*Post-injection*
Parameters	***Units***	***Type 4 RRS***									
Volatile Organic Compounds											
1,1,1-Trichloroethane	ug/L	13600	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	ug/L	4000	16	16	13	12	11	10	14	9.8	12
1,1-Dichloroethene	ug/L	524	79	68	47	40	32	32	66	34	27
1,4-Dioxane	ug/L	-		150U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
Acetone	ug/L	45620	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Carbon tetrachloride	ug/L	10.2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	ug/L	29200	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform (Trichloromethane)	ug/L	80	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	204	43	46	48	41	37	39	36	31	42
Methyl tert butyl ether (MTBE)	ug/L	263	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	ug/L	5241	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	ug/L	2044	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	ug/L	5.24	**900**	**720**	**500**	**500**	**530**	**590**	**660**	**470**	**510**
Vinyl chloride	ug/L	3.27	**6.3**	**5.7**	**9.8**	**4.8**	**5.0**	3.2	**5.0**	**4.7**	**5.7**
Tetrachloroethane	ug/L	98	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Total chlorinated VOCs	ug/L	NC	1044	856	618	598	615	674	781	550	597
MNA's											
Sulfide	mg/L									BDL(2)	BDL(2)
Chloride	mg/L									14	14
Nitrate	mg/L									0.99	1.1
Sulfate	mg/L									24	25
Ethane	ug/L									BDL(9)	BDL(9)
Ethene	ug/L									BDL(7)	BDL(7)
Methane	ug/L									16	38
Iron, Ferrous	mg/L									BDL(0.1)	BDL(0.1)
Carbon dioxide	mg/L									115	107
Alkalinity	mg/L									16	28

Notes:
ug/L - micrograms per liter
mg/L - milligrams per liter
NC - No established criteria (remediation goal)
5.0 U - not detected at associated method reporting limit
100 UJ - estimated result reported below associated reporting limit
"--" Not analyzed
ND - not detected
230 - Above the Type 4 RRS
NS - Not sampled

APPENDIX A

GROUNDWATER PURGE FORMS

&

ANALYTICAL LABORATORY REPORTS

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Southern States LLC
Ref. No.:

Date: 1/10/18
Personnel: BC

Monitoring Well Data:

Well No.: MW-9
Measurement Point: TOC
Constructed Well Depth (ft): 35.00
Measured Well Depth (ft): 35.00
Depth of Sediment (ft): N/A

Screen Length (ft):
Depth to Pump Intake (ft)[1]: 30
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL):
Initial Depth to Water (ft): 17.82

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level [2] (ft)	pH	Temperature °C	Conductivity [3] (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
			Precision Required[5]:	±0.1 units	±3%	±0.005 or 0.01	±10 mV	±10%	±10%
1158	50	17.82		5.68	16.44	0.201	130	1.91	12.2
1202		17.88		5.76	16.21	0.184	162	1.92	9.6
1210		17.94		5.74	16.38	0.189	151	1.55	8.1
1216		18.02		5.80	16.54	0.190	138	1.48	7.5
1220		18.07		5.80	16.51	0.188	130	1.35	6.2
1225		18.06		5.80	16.05	0.188	130	1.40	5.1
1228	↓	18.08		5.80	16.20	0.188	140	1.38	4.8
Sample ID:	MW-9								
	VOCs								

Notes:

(1) The pump intake was placed at the well mid-screen or 2 ft above any sediment accumulated at the well bottom.
(2) The drawdown from the initial water level should not exceed 0.33 ft. The pumping rate should not exceed 600 mL/min.
(3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.
Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Southern States LLC

Ref. No.: 619

Date: 1/10/18

Personnel: JS

Monitoring Well Data:

Well No.: MW-13

Measurement Point: TOC

Constructed Well Depth (ft): 20.10

Measured Well Depth (ft): 20.10

Depth of Sediment (ft): N/A

Screen Length (ft):

Depth to Pump Intake (ft)[1]: 15

Well Diameter, D (in): 2

Well Screen Volume, V_s (mL):

Initial Depth to Water (ft): 10.98

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level [2] (ft)	pH	Temperature °C	Conductivity [3] (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
			Precision Required[5]:	±0.1 Units	±3%	±0.005 or 0.01	±10 mV	±10%	±10%
1040	50	10.98		7.50	17.70	0.380	14	1.8	33.4
1043	↓	10.99		7.49	18.02	0.378	-10	1.5	28.4
1050		11.08		7.51	17.94	0.381	-32	1.6	26.2
1054		11.16		7.48	17.84	0.376	-65	1.1	21.2
1058		11.05		7.50	17.60	0.374	-60	1.4	18.5
1100		11.15		7.42	17.75	0.374	-68	1.6	19.0
1105	↓	11.10		7.42	17.78	0.374	-66	1.2	18.4
								* ORANGE	
								BACTERIA	
Sample ID:	MW-13								
	VOCs * - Iron bacteria??								

Notes:

(1) The pump intake was placed at the well mid-screen or 2 ft above any sediment accumulated at the well bottom.

(2) The drawdown from the initial water level should not exceed 0.33 ft. The pumping rate should not exceed 600 mL/min.

(3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm. Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Southern States LLC
Ref. No.:
Date: 1/10/18
Personnel:

Monitoring Well Data:

Well No.: MW-17
Measurement Point: TOC
Constructed Well Depth (ft): 16.80
Measured Well Depth (ft): 16.80
Depth of Sediment (ft): N/A
Screen Length (ft):
Depth to Pump Intake (ft)[1]: 15
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL):
Initial Depth to Water (ft): 7.40

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level [2] (ft)	pH	Temperature °C	Conductivity [3] (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
			Precision Required:	±0.1 Yvitσ	±3%	±0.005 or 0.01	±10 mV	±10%	±10%
1348	50	7.40		7.25	16.51	0.183	-31	1.62	8.4
1354		7.48		6.84	17.08	0.184	-74	1.51	6.1
1358		7.55		7.10	16.81	0.190	-62	1.40	3.5
1400		7.62		6.80	17.02	0.191	-80	1.48	4.2
1404		7.60		6.80	16.91	0.191	-85	1.40	3.8
1408	↓	7.61		6.80	16.80	0.191	-84	1.41	3.2
Sample ID:	MW-17	DUP-0510							
	VOCs								

Notes:

(1) The pump intake was placed at the well mid-screen or 2 ft above any sediment accumulated at the well bottom.
(2) The drawdown from the initial water level should not exceed 0.33 ft. The pumping rate should not exceed 600 mL/min.
(3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.
Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Southern States LLC
Ref. No.:

Date: 1/10/18
Personnel: J. Schwaller

Monitoring Well Data:

Well No.: MW-18
Measurement Point: TOC
Constructed Well Depth (ft): 15.00
Measured Well Depth (ft): 15.00
Depth of Sediment (ft): N/A

Screen Length (ft):
Depth to Pump Intake (ft)[1]: 10
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL):
Initial Depth to Water (ft): 2.11

Time	*Pumping Rate* (mL/min)	*Depth to Water* (ft)	*Drawdown from Initial Water Level* [2] (ft)	*pH*	*Temperature* °C	*Conductivity* [3] (mS/cm)	*ORP* (mV)	*DO* (mg/L)	*Turbidity* (NTU)
			Precision Required:	*±0.1 Yvitσ*	*±3%*	*±0.005 or 0.01*	*±10 mV*	*±10%*	*±10%*
0948	50	2.11		7.02	14.74	0.158	54	4.60	9.2
0950	↓	2.18		7.06	14.90	0.161	59	4.75	9.1
0954	↓	2.25		7.04	15.01	0.148	67	4.80	8.6
0958	↓	2.28		7.01	14.88	0.149	61	5.02	6.1
1006	↓	2.30		7.00	14.90	0.149	60	4.90	8.4
1010	↓	2.30		7.01	14.93	0.149	65	4.92	6.7
Sample ID:	MW-18								
	VOCs								

Notes:

(1) The pump intake was placed at the well screen mid-point or 2 ft above any sediment accumulated at the well bottom.
(2) The drawdown from the initial water level should not exceed 0.33 ft. The pumping rate should not exceed 600 mL/min.
(3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.
Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Southern States LLC
Ref. No.: _____

Date: 1/10/18
Personnel: _____

Monitoring Well Data:

Well No.: MW-19
Measurement Point: TOC
Constructed Well Depth (ft): 118.00
Measured Well Depth (ft): 118.00
Depth of Sediment (ft): N/A

Screen Length (ft): _____
Depth to Pump Intake (ft)[1]: 114.5
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL): _____
Initial Depth to Water (ft): 11.23

Time	*Pumping Rate (mL/min)*	*Depth to Water (ft)*	*Drawdown from Initial Water Level (ft)* [2]	*pH*	*Temperature °C*	*Conductivity (mS/cm)* [3]	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*
			Precision Required:	*±0.1 Units*	*±3%*	*±0.005 or 0.01*	*±10 mV*	*±10%*	*±10%*
1118	50	11.23		6.93	17.28	0.184	310	1.21	10.4
1120		11.30		6.90	17.30	0.180	306	1.30	9.8
1125		11.34		6.94	17.22	0.185	302	1.43	7.4
1130		11.44		6.93	17.15	0.185	298	1.65	8.2
1138		11.46		6.89	17.00	0.188	290	1.51	5.8
1143		11.40		6.89	17.20	0.189	290	1.70	6.4
1146	↓	11.48		6.89	17.10	0.189	294	1.80	5.4
Sample ID:	MW-19								
	VOCs								

Notes:

(1) The pump intake was placed at the well mid-screen or approx.2 ft above any sediment accumulated at the well bottom.
(2) The drawdown from the initial water level should not exceed 0.33 ft. The pumping rate should not exceed 600 mL/min.
(3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.
Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Southern States LLC
Ref. No.:

Date: 1/10/18
Personnel: B. Cortelloni

Monitoring Well Data:

Well No.: MW-20
Measurement Point: TOC
Constructed Well Depth (ft): 81.00
Measured Well Depth (ft): 81.00
Depth of Sediment (ft): N/A

Screen Length (ft):
Depth to Pump Intake (ft)[1]: 78
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL):
Initial Depth to Water (ft): 10.58

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level [2] (ft)	pH	Temperature °C	Conductivity [3] (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
			Precision Required:	±0.1 Yvitσ	±3%	±0.005 or 0.01	±10 mV	±10%	±10%
0905	50	10.58		7.15	15.02	0.402	55	0.98	5.2
0906	"	10.66		7.18	18.74	0.410	45	0.95	6.2
0913	"	10.74		7.22	18.56	0.370	38	0.84	4.1
0918	"	10.80		7.15	18.41	0.338	27	0.79	4.9
0920	"	10.84		7.10	17.54	0.375	22	0.74	3.8
0930	"	10.78		7.14	18.30	0.335	20	0.70	4.0
0933	"	10.74		7.14	18.38	0.335	26	0.74	3.7
Sample ID:	MW-20								
	VOCs								

Notes:

(1) The pump intake was placed at the well mid-screen or 2 ft above any sediment accumulated at the well bottom.
(2) The drawdown from the initial water level should not exceed 0.33 ft. The pumping rate should not exceed 600 mL/min.
(3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.
Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Southern States LLC
Ref. No.:

Date: 1/10/18
Personnel: B. Cortelloni

Monitoring Well Data:

Well No.: MW-21
Measurement Point: TOC
Constructed Well Depth (ft): 23.80
Measured Well Depth (ft): 23.80
Depth of Sediment (ft): N/A

Screen Length (ft):
Depth to Pump Intake (ft)[1]: 21
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL):
Initial Depth to Water (ft): 10.37

Time	*Pumping Rate* (mL/min)	*Depth to Water* (ft)	*Drawdown from Initial Water Level* [2] (ft)	*pH*	*Temperature* °C	*Conductivity* [3] (mS/cm)	*ORP* (mV)	*DO* (mg/L)	*Turbidity* (NTU)
Precision Required:				*±0.1 Units*	*±3%*	*±0.005 or 0.01*	*±10 mV*	*±10%*	*±10%*
0940	50	10.37		6.73	20.44	0.134	192	6.40	7.4
0944	↓	10.40		6.65	20.60	0.137	210	6.02	7.3
0948		10.48		6.55	20.55	0.135	221	5.71	7.0
0950		10.49		6.53	20.60	0.135	225	5.64	7.4
0956		10.58		6.54	20.74	0.135	220	5.50	7.2
1004	↓	10.60		6.53	20.78	0.135	223	5.67	7.5
Sample ID:	MW-21								
	VOCs								

Notes:

(1) The pump intake was placed at the well mid-screen or approx. 2 ft above any sediment accumulated at the well bottom.
(2) The drawdown from the initial water level should not exceed 0.33 ft. The pumping rate should not exceed 600 mL/min.
(3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.
Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Southern States LLC
Ref. No.:
Date: 1/10/18
Personnel: J. Schwaller

Monitoring Well Data:

Well No.: MW-28
Measurement Point: TOC
Constructed Well Depth (ft): 78.00
Measured Well Depth (ft): 78.00
Depth of Sediment (ft): N/A
Screen Length (ft):
Depth to Pump Intake (ft)[1]: 75
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL):
Initial Depth to Water (ft): 7.68

Time	*Pumping Rate (mL/min)*	*Depth to Water (ft)*	*Drawdown from Initial Water Level* [2] *(ft)*	*pH*	*Temperature °C*	*Conductivity* [3] *(mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*
			Precision Required:	*±0.1 Units*	*±3%*	*±0.005 or 0.01*	*±10 mV*	*±10%*	*±10%*
1050	65	7.68		6.63	19.02	0.086	127	0.61	3.41
1053	↓	7.74		6.65	18.88	0.084	116	0.50	2.05
1058		7.80		6.60	19.01	0.083	112	0.50	1.91
1102		7.85		6.61	18.90	0.083	110	0.58	1.80
1110	↓	7.90		6.61	18.97	0.083	115	0.52	1.47
Sample ID:	MW-28								
	VOCs								

Notes:

(1) The pump intake was placed at the well mid-screen or 2 ft above any sediment accumulated at the well bottom.
(2) The drawdown from the initial water level should not exceed 0.33 ft. The pumping rate should not exceed 600 mL/min.
(3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.
Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Southern States LLC
Ref. No.:

Date: 1/10/18
Personnel: J. Schwaller

Monitoring Well Data:

Well No.: MW-31
Measurement Point: TOC
Constructed Well Depth (ft): 57.42
Measured Well Depth (ft): 57.42
Depth of Sediment (ft): N/A

Screen Length (ft):
Depth to Pump Intake (ft)[1]: 53
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL):
Initial Depth to Water (ft): 4.70

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level (ft) [2]	pH	Temperature °C	Conductivity (mS/cm) [3]	ORP (mV)	DO (mg/L)	Turbidity (NTU)
			Precision Required:	±0.1 Units	±3%	±0.005 or 0.01	±10 mV	±10%	±10%
0508	55	4.70		7.10	15.51	0.137	-46	0.76	9.1
0512		4.80		7.05	15.81	0.130	-88	0.55	6.2
0518		4.90		7.06	15.66	0.126	-94	0.40	4.4
0522		4.97		7.02	15.84	0.125	-108	0.55	3.8
0530		4.90		7.01	15.70	0.122	-112	0.48	1.9
0536		4.90		7.04	15.60	0.120	-110	0.51	2.4
0540		4.94		7.00	15.66	0.124	-115	0.49	2.6
Sample ID:	MW-31								
	VOCs								

Notes:

(1) The pump intake was placed at the well mid-screen or approx. 2 ft above any sediment accumulated at the well bottom.
(2) The drawdown from the initial water level should not exceed 0.33 ft. The pumping rate should not exceed 600 mL/min.
(3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.
Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Southern States LLC
Ref. No.:

Date: 1/10/18
Personnel: J. Schwaller

Monitoring Well Data:

Well No.: MW-32
Measurement Point: TOC
Constructed Well Depth (ft): 57.00
Measured Well Depth (ft): 57.00
Depth of Sediment (ft): N/A

Screen Length (ft):
Depth to Pump Intake (ft)[1]: 52
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL):
Initial Depth to Water (ft): 2.71

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level [2] (ft)	pH	Temperature °C	Conductivity [3] (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
			Precision Required:	±0.1 Units	±3%	±0.005 or 0.01	±10 mV	±10%	±10%
0955	50	2.71		6.89	15.81	0.134	110	3.22	1.65
0958		2.75		6.83	15.64	0.131	104	3.21	2.81
1002		2.80		6.81	15.70	0.128	98	3.16	4.3
1010		2.84		6.80	15.50	0.125	92	3.10	1.21
1018		2.89		6.81	15.60	0.125	90	3.05	1.08
1025		2.90		6.81	15.57	0.125	96	3.11	1.10
Sample ID:	MW-32								
	VOCs								

Notes:

(1) The pump intake was placed at the well mid-screen or 2 ft above any sediment accumulated at the well bottom.
(2) The drawdown from the initial water level should not exceed 0.33 ft. The pumping rate should not exceed 600 mL/min.
(3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm. Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Southern States LLC
Ref. No.: _____

Date: 6/6/18
Personnel: J. Schwaller

Monitoring Well Data:

Well No.: MW-35
Measurement Point: TOC
Constructed Well Depth (ft): _____
Measured Well Depth (ft): _____
Depth of Sediment (ft): N/A

Screen Length (ft): _____
Depth to Pump Intake (ft)[1]: _____
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL): _____
Initial Depth to Water (ft): 7.90

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level [2] (ft)	pH	Temperature °C	Conductivity [3] (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
			Precision Required:	±0.1 Yvitσ	±3%	±0.005 or 0.01	±10 mV	±10%	±10%
1308	45	7.90		5.81	16.14	0.263	102	1.23	8.6
1310	1	8.08		5.76	16.43	0.241	90	1.14	8.1
1314	1	8.16		5.70	15.70	0.264	81	1.09	9.1
1318	1	8.11		5.70	16.76	0.260	77	1.04	5.4
1320	1	8.10		5.70	16.90	0.264	70	1.08	6.0
1324	1	8.18		5.70	~~0.264~~	0.264	85	1.04	6.3
Sample ID:	MW-35				16.84				
	VOCs								

Notes:

(1) The pump intake was placed at the well mid-screen or approx. 2 ft above any sediment accumulated at the well bottom.
(2) The drawdown from the initial water level should not exceed 0.33 ft. The pumping rate should not exceed 600 mL/min.
(3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.
Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Southern States LLC
Ref. No.:
Date: 6/10/18
Personnel: J. Schwaller

Monitoring Well Data:

Well No.: MW-36
Measurement Point: TOC
Constructed Well Depth (ft):
Measured Well Depth (ft): 35.34
Depth of Sediment (ft): N/A
Screen Length (ft):
Depth to Pump Intake (ft)[1]: 33
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL):
Initial Depth to Water (ft): 7.20

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level [2] (ft)	pH	Temperature °C	Conductivity [3] (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
			Precision Required:	±0.1 Yvito	±3%	±0.005 or 0.01	±10 mV	±10%	±10%
1314	50	7.20		7.16	17.71	0.161	46	1.44	5.8
1318		7.28		7.10	16.94	0.135	38	1.34	11.2
1322		7.31		7.08	17.10	0.130	29	1.21	6.1
1326		7.38		7.01	16.81	0.134	20	1.28	5.4
1330		7.40		7.02	17.02	0.130	20	1.26	4.0
1331		7.41		7.02	16.71	0.130	28	1.24	4.2
Sample ID:	MW-36								
	VOCs								

Notes:

(1) The pump intake was placed at the well mid-screen or approx. 2 ft above any sediment accumulated at the well bottom.

(2) The drawdown from the initial water level should not exceed 0.33 ft. The pumping rate should not exceed 600 mL/min.

(3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.
Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Southern States LLC
Ref. No.:

Date: 1/10/18
Personnel: B. Cortelloni

Monitoring Well Data:

Well No.: MW-39
Measurement Point: TOC
Constructed Well Depth (ft): 32.00
Measured Well Depth (ft): 32.00
Depth of Sediment (ft): N/A

Screen Length (ft):
Depth to Pump Intake (ft)[1]: 22
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL):
Initial Depth to Water (ft): 9.80

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level [2] (ft)	pH	Temperature °C	Conductivity [3] (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
			Precision Required:	±0.1 Units	±3%	±0.005 or 0.01	±10 mV	±10%	±10%
1245	50		9.80	5.45	20.05	0.161	256	0.38	4.9
1255			9.54	5.43	20.55	0.160	260	0.29	5.4
1304			10.26	5.40	20.73	0.162	265	0.25	4.9
1309			10.81	5.38	20.80	0.114	258	0.07	6.3
1315			10.02	5.37	20.75	0.112	268	0.08	4.8
1320			10.08	5.38	20.88	0.163	254	0.05	4.2
1325	↓		10.05	5.37	20.91	0.162	266	0.09	4.5
Sample ID:	MW-39								
	VOCs								

Notes:

(1) The pump intake was placed at the well screen mid-point or at approx. 2 ft above any sediment accumulated at the well bottom.
(2) The drawdown from the initial water level should not exceed 0.33 ft. The pumping rate should not exceed 600 mL/min.
(3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.
Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Southern States LLC
Ref. No.:

Date: 1/10/18
Personnel: B. Cortelloni

Monitoring Well Data:

Well No.: MW-40
Measurement Point: TOC
Constructed Well Depth (ft): 32.00
Measured Well Depth (ft): 32.00
Depth of Sediment (ft): N/A

Screen Length (ft):
Depth to Pump Intake (ft)[1]: 22
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL):
Initial Depth to Water (ft): 13.26

Time	*Pumping Rate* (mL/min)	*Depth to Water* (ft)	*Drawdown from Initial Water Level* [2] (ft)	*pH*	*Temperature* °C	*Conductivity* [3] (mS/cm)	*ORP* (mV)	*DO* (mg/L)	*Turbidity* (NTU)
			Precision Required:	*±0.1 Units*	*±3%*	*±0.005 or 0.01*	*±10 mV*	*±10%*	*±10%*
1135	50	13.26		6.41	20.60	0.330	125	0.35	11.4
1140				6.38	20.70	0.334	125	0.23	8.5
1143				6.30	20.80	0.330	115	0.15	8.4
1150				6.29	20.83	0.329	106	0.08	9.1
1156				6.30	20.74	0.327	102	0.09	6.7
1204				6.31	20.80	0.328	99	0.05	6.0
1209	↓			6.31	20.79	0.328	105	0.08	6.5
Sample ID:	MW-40								
	VOCs								

Notes:

(1) The pump intake was placed at the well screen mid-point or at approx. 2 ft above any sediment accumulated at the well bottom.
(2) The drawdown from the initial water level should not exceed 0.33 ft. The pumping rate should not exceed 600 mL/min.
(3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.
Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Southern States LLC
Ref. No.:

Date: 1/10/18
Personnel: B. Cortelloni

Monitoring Well Data:

Well No.: MW-41
Measurement Point: TOC
Constructed Well Depth (ft): 32.00
Measured Well Depth (ft): 32.00
Depth of Sediment (ft): N/A

Screen Length (ft):
Depth to Pump Intake (ft)[1]: 22
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL):
Initial Depth to Water (ft): 13.35

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level [2] (ft)	pH	Temperature °C	Conductivity [3] (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
Precision Required:				±0.1 Yvitσ	±3%	±0.005 or 0.01	±10 mV	±10%	±10%
1216	50	13.35		6.17	20.55	0.381	191	1.12	~~7.31~~ 7.3
1223		13.48		6.16	20.50	0.399	185	1.85	8.4
1230		13.50		6.15	20.38	0.0460	206	2.01	8.2
1233		13.54		6.13	20.44	0.473	199	2.25	8.1
1238		13.60		6.18	20.30	0.470	200	2.20	7.0
1240	↓	13.58		6.13	20.24	0.472	203	2.24	6.9
Sample ID:	MW-41								
	VOCs								

Notes:

(1) The pump intake was placed at the well screen mid-point or at approx. 2 ft above any sediment accumulated at the well bottom.
(2) The drawdown from the initial water level should not exceed 0.33 ft. The pumping rate should not exceed 600 mL/min.
(3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.
Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Southern States LLC
Ref. No.:

Date: 1/10/18
Personnel: B. Cottelloni

Monitoring Well Data:

Well No.: TP-1
Measurement Point: TOC
Constructed Well Depth (ft): 22.40
Measured Well Depth (ft):
Depth of Sediment (ft): N/A

Screen Length (ft):
Depth to Pump Intake (ft)[1]: 20
Well Diameter, D (in): 1
Well Screen Volume, V_s (mL):
Initial Depth to Water (ft): 10.27

Time	*Pumping Rate* (mL/min)	*Depth to Water* (ft)	*Drawdown from Initial Water Level* [2] (ft)	*pH*	*Temperature* ^{o}C	*Conductivity* [3] (mS/cm)	*ORP* (mV)	*DO* (mg/L)	*Turbidity* (NTU)
Precision Required:				*±0.1 Yvito*	*±3%*	*±0.005 or 0.01*	*±10 mV*	*±10%*	*±10%*
1045	50	10.27		5.48	21.80	0.210	315	1.15	14.4
1049		10.34		5.38	21.84	0.299	331	1.10	12.5
1055		10.41		5.28	21.75	0.310	325	1.01	11.2
1102		10.42		5.16	21.71	0.325	358	0.84	5.5
1109		10.45		5.13	21.60	0.322	360	0.86	6.9
1115		10.49		5.14	21.70	0.322	360	0.80	6.2
1120	↓	10.50		5.14	21.67	0.322	361	0.81	4.8
Sample ID:	TP-1								
	VOCs								

Notes:

(1) The pump intake was placed at the well mid-screen at approx.2 ft above any sediment accumulated at the well bottom.
(2) The drawdown from the initial water level should not exceed 0.33 ft. The pumping rate should not exceed 600 mL/min.
(3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.
Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Southern States LLC
Ref. No.: _____

Date: 1/10/18
Personnel: B. Cortelloni

Monitoring Well Data:

Well No.: TP-2
Measurement Point: TOC
Constructed Well Depth (ft): 30.00
Measured Well Depth (ft): 30.00
Depth of Sediment (ft): N/A

Screen Length (ft): _____
Depth to Pump Intake (ft)[1]: 25
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL): _____
Initial Depth to Water (ft): 10.78

Time	*Pumping Rate (mL/min)*	*Depth to Water (ft)*	*Drawdown from Initial Water Level (ft)* [2]	*pH*	*Temperature °C*	*Conductivity (mS/cm)* [3]	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*
			Precision Required:	*±0.1 Units*	*±3%*	*±0.005 or 0.01*	*±10 mV*	*±10%*	*±10%*
1011	50	10.78		6.27	21.27	0.131	296	6.15	1.8
1018	〃	10.80		6.15	21.48	0.130	304	5.88	1.4
1024	〃	10.90		5.52	21.50	0.128	310	5.16	1.8
1030	〃	10.98		5.90	21.40	0.130	315	4.65	1.6
1035	〃	11.01		5.91	21.60	0.125	320	4.60	1.7
1038	〃	11.04		5.91	21.67	0.127	330	4.68	1.6
Sample ID: TP-2									
	VOCs								

Notes:

(1) The pump intake was placed at the well mid-screen or 2 ft above any sediment accumulated at the well bottom.
(2) The drawdown from the initial water level should not exceed 0.33 ft. The pumping rate should not exceed 600 mL/min.
(3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.
Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing)

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

January 22, 2018

John Schwaller
Environmental Management Associates, LLC

5262 Belle Wood Ct.
Buford GA 30518

RE: Southern States

Dear John Schwaller: Order No: 1801848

Analytical Environmental Services, Inc. received 21 samples on January 11, 2018 3:27 pm for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES's accreditations are as follows:
-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.
-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.
These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Mirzeta Kararic

Mirzeta Kararic

Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
AES Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1801848

Date: _____ Page 1 of 2

COMPANY: EMD/JS

ADDRESS:

PHONE:

EMAIL:

SAMPLED BY: J. SCHWANER/D. Conklin

SIGNATURE:

ANALYSIS REQUESTED

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes) H	PRESERVATION (see codes) I	TCL VOC	MNA	REMARKS	Number of Containers
1	MW-9	1/10/18	1228	X		GW	Y	Y				
2	MW-13		1105									
3	MW-17		1408								+ INCLUDE	
4	MW-18		1010								1,4 DIOXANE	
5	MW-19		1146									
6	MW-20		0933								MNA	
7	MW-21		1004								DISS. FERROUS IRON	
8	MW-28		1110								SULFIDE/SULFATE	
9	MW-31		0940								NITRATE, ALKALINITY	
10	MW-32		1025								~~NITRATE~~ CHLORIDE	
11	MW-35		1325								CO_2 ETHANE	
12	MW-36		1331								ETHENE	
13	MW-39		1325								DISS METHANE	
14	MW-40		1209				Y	Y				

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1.	1/11/18 1510	1. MONIQUE Atkinson	1/11/2018 3:27pm
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
client FedEx UPS US mail courier Greyhound
other: _____

PROJECT INFORMATION
PROJECT NAME: SOUTHERN STATES
PROJECT #:
SITE ADDRESS:
SEND REPORT TO: SCHWANER
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers

Turnaround Time (TAT) Request
- [x] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same-Day Rush (auth req.)
- [ ] Other _____

STATE PROGRAM (if any): _____
E-mail? ☐ Fax? ☐
DATA PACKAGE: I ○ II ○ III ○ IV ○

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

1801848

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1

Date: ______ Page 2 of 2

COMPANY: EMA/JJ

ADDRESS:

PHONE:

EMAIL:

SAMPLED BY: J. Schwaller / B Cantrell

SIGNATURE: [signature]

ANALYSIS REQUESTED: TCL VOC, MNA

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

#	SAMPLE ID	DATE	TIME	GRAB	COMPOSITE	MATRIX (see codes)	TCL VOC	MNA	REMARKS	Number of Containers
	PRESERVATION (see codes)									
1	MW-41	1/10/18	1240	X		GW	X	X		
2	TP-1	↓	1120	↓		↓	↓	↓		
3	TP-2	↓	1038	↓		↓	↓	↓		
4	DUP	↓	1105	↓		↓	↓	↓		
5	TRIP BLANK						X			
6										
7										
8										
9										
10										
11										
12										
13										
14										

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. [signature]	1/11/18 1510	1. Monique Alonzo	1/11/2018 3:27pm
2.		2.	
3.		3.	

PROJECT INFORMATION

PROJECT NAME: Southern States

PROJECT #:

SITE ADDRESS:

SEND REPORT TO: Schwaller

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: ______ PO#: ______

RECEIPT

Total # of Containers

Turnaround Time (TAT) Request
- [x] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same-Day Rush (auth req.)
- [ ] Other ______

STATE PROGRAM (if any): ______

E-mail? ☐ Fax? ☐

DATA PACKAGE: I ○ II ○ III ⊘ IV ○

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT: / / VIA:

IN: / / VIA:

(client) FedEx UPS US mail courier Greyhound other: ______

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Client: Environmental Management Associates, LLC
Project: Southern States
Lab ID: 1801848

Case Narrative

Sample Receiving Nonconformance:

Sample ID "MW-30" was received but not listed on the Chain of Custody. Per John Schwaller on 1/11/18, no analysis is needed.

DUP sample was analyzed for VOC only per John Schwaller on 1/11/18.

Ferrous Iron Analysis by Method SM3500-FE D:

All samples were received outside EPA/Method specified holding time of 24 hours for method SM3500-FE D. Per project history the lab proceeded with the analysis.

Method 3500Fe-B as listed in Standard Methods for the Examination of Water and Wastewater 22nd Edition is applicable for analyzing Ferrous Iron in the field. All samples under WO 1801848 were analyzed in the laboratory which is a deviation from the method.

Due to sample matrix, samples 1801848-002D, -003D, -004D, -009D, -011D, -014E, -016E required dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc

Date: 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-9
Project Name:	Southern States	**Collection Date:**	1/10/2018 12:28:00 PM
Lab ID:	1801848-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
1,1-Dichloroethane	6.9	5.0		ug/L	254346	1	01/16/2018 12:59	NP
1,1-Dichloroethene	7.5	5.0		ug/L	254346	1	01/16/2018 12:59	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
1,2-Dibromoethane	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
1,2-Dichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
1,2-Dichloropropane	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
1,4-Dioxane	BRL	150		ug/L	254346	1	01/16/2018 12:59	NP
2-Butanone	BRL	50		ug/L	254346	1	01/16/2018 12:59	NP
2-Hexanone	BRL	10		ug/L	254346	1	01/16/2018 12:59	NP
4-Methyl-2-pentanone	BRL	10		ug/L	254346	1	01/16/2018 12:59	NP
Acetone	BRL	50		ug/L	254346	1	01/16/2018 12:59	NP
Benzene	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
Bromodichloromethane	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
Bromoform	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
Bromomethane	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
Carbon disulfide	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
Carbon tetrachloride	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
Chlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
Chloroethane	BRL	10		ug/L	254346	1	01/16/2018 12:59	NP
Chloroform	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
Chloromethane	BRL	10		ug/L	254346	1	01/16/2018 12:59	NP
cis-1,2-Dichloroethene	35	5.0		ug/L	254346	1	01/16/2018 12:59	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
Cyclohexane	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
Dibromochloromethane	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
Dichlorodifluoromethane	BRL	10		ug/L	254346	1	01/16/2018 12:59	NP
Ethylbenzene	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
Freon-113	BRL	10		ug/L	254346	1	01/16/2018 12:59	NP
Isopropylbenzene	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
m,p-Xylene	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
Methyl acetate	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
Methylcyclohexane	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
Methylene chloride	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-9
Project Name:	Southern States	**Collection Date:**	1/10/2018 12:28:00 PM
Lab ID:	1801848-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
o-Xylene	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
Styrene	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
Tetrachloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
Toluene	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
Trichloroethene	820	50		ug/L	254346	10	01/16/2018 14:35	NP
Trichlorofluoromethane	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
Vinyl chloride	2.8	2.0		ug/L	254346	1	01/16/2018 12:59	NP
1,2-Dichloroethene, Total	35	5.0		ug/L	254346	1	01/16/2018 12:59	NP
Xylenes, Total	BRL	5.0		ug/L	254346	1	01/16/2018 12:59	NP
Surr: 4-Bromofluorobenzene	90.5	68-127		%REC	254346	10	01/16/2018 14:35	NP
Surr: 4-Bromofluorobenzene	93.8	68-127		%REC	254346	1	01/16/2018 12:59	NP
Surr: Dibromofluoromethane	107	84.4-122		%REC	254346	10	01/16/2018 14:35	NP
Surr: Dibromofluoromethane	112	84.4-122		%REC	254346	1	01/16/2018 12:59	NP
Surr: Toluene-d8	104	80.1-116		%REC	254346	1	01/16/2018 12:59	NP
Surr: Toluene-d8	105	80.1-116		%REC	254346	10	01/16/2018 14:35	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	254344	1	01/16/2018 16:30	AK
ION SCAN SW9056A								
Chloride	21	1.0		mg/L	R360860	1	01/11/2018 17:55	JM
Nitrate	1.2	0.25		mg/L	R360860	1	01/11/2018 17:55	JM
Sulfate	4.8	1.0		mg/L	R360860	1	01/11/2018 17:55	JM
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	254298	1	01/16/2018 11:45	UH
Ethylene	BRL	7.0		ug/L	254298	1	01/16/2018 11:45	UH
Methane	18	4.0		ug/L	254298	1	01/16/2018 11:45	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100	H	mg/L	R360779	1	01/11/2018 16:55	LM
CARBON DIOXIDE SM4500-CO2								
Total Carbon Dioxide	75.2	10.0		mg/L	R360938	1	01/15/2018 15:00	AK
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	39.0	3.00		mg/L	R360938	1	01/15/2018 15:00	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-13
Project Name:	Southern States	**Collection Date:**	1/10/2018 11:05:00 AM
Lab ID:	1801848-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
1,1-Dichloroethane	6.7	5.0		ug/L	254346	1	01/16/2018 15:24	NP
1,1-Dichloroethene	10	5.0		ug/L	254346	1	01/16/2018 15:24	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
1,2-Dibromoethane	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
1,2-Dichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
1,2-Dichloropropane	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
1,4-Dioxane	BRL	150		ug/L	254346	1	01/16/2018 15:24	NP
2-Butanone	BRL	50		ug/L	254346	1	01/16/2018 15:24	NP
2-Hexanone	BRL	10		ug/L	254346	1	01/16/2018 15:24	NP
4-Methyl-2-pentanone	BRL	10		ug/L	254346	1	01/16/2018 15:24	NP
Acetone	BRL	50		ug/L	254346	1	01/16/2018 15:24	NP
Benzene	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
Bromodichloromethane	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
Bromoform	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
Bromomethane	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
Carbon disulfide	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
Carbon tetrachloride	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
Chlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
Chloroethane	BRL	10		ug/L	254346	1	01/16/2018 15:24	NP
Chloroform	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
Chloromethane	BRL	10		ug/L	254346	1	01/16/2018 15:24	NP
cis-1,2-Dichloroethene	72	5.0		ug/L	254346	1	01/16/2018 15:24	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
Cyclohexane	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
Dibromochloromethane	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
Dichlorodifluoromethane	BRL	10		ug/L	254346	1	01/16/2018 15:24	NP
Ethylbenzene	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
Freon-113	BRL	10		ug/L	254346	1	01/16/2018 15:24	NP
Isopropylbenzene	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
m,p-Xylene	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
Methyl acetate	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
Methylcyclohexane	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
Methylene chloride	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-13
Project Name:	Southern States	**Collection Date:**	1/10/2018 11:05:00 AM
Lab ID:	1801848-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
o-Xylene	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
Styrene	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
Tetrachloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
Toluene	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
Trichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
Trichlorofluoromethane	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
Vinyl chloride	5.4	2.0		ug/L	254346	1	01/16/2018 15:24	NP
1,2-Dichloroethene, Total	72	5.0		ug/L	254346	1	01/16/2018 15:24	NP
Xylenes, Total	BRL	5.0		ug/L	254346	1	01/16/2018 15:24	NP
Surr: 4-Bromofluorobenzene	95.1	68-127		%REC	254346	1	01/16/2018 15:24	NP
Surr: Dibromofluoromethane	107	84.4-122		%REC	254346	1	01/16/2018 15:24	NP
Surr: Toluene-d8	102	80.1-116		%REC	254346	1	01/16/2018 15:24	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	254344	1	01/16/2018 16:30	AK
ION SCAN SW9056A								
Chloride	25	1.0		mg/L	R360821	1	01/11/2018 19:47	JM
Nitrate	BRL	0.25		mg/L	R360821	1	01/11/2018 19:47	JM
Sulfate	65	1.0		mg/L	R360821	1	01/11/2018 19:47	JM
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	10	9.0		ug/L	254298	1	01/16/2018 11:49	UH
Ethylene	BRL	7.0		ug/L	254298	1	01/16/2018 11:49	UH
Methane	510	20		ug/L	254298	5	01/16/2018 14:56	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.500	H	mg/L	R360779	5	01/11/2018 16:55	LM
CARBON DIOXIDE SM4500-CO2								
Total Carbon Dioxide	260	10.0		mg/L	R360938	1	01/15/2018 15:00	AK
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	275	15.0		mg/L	R360938	5	01/15/2018 15:00	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-17
Project Name:	Southern States	**Collection Date:**	1/10/2018 2:08:00 PM
Lab ID:	1801848-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
1,1-Dichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
1,1-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
1,2-Dibromoethane	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
1,2-Dichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
1,2-Dichloropropane	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
1,4-Dioxane	BRL	150		ug/L	254346	1	01/16/2018 15:48	NP
2-Butanone	BRL	50		ug/L	254346	1	01/16/2018 15:48	NP
2-Hexanone	BRL	10		ug/L	254346	1	01/16/2018 15:48	NP
4-Methyl-2-pentanone	BRL	10		ug/L	254346	1	01/16/2018 15:48	NP
Acetone	BRL	50		ug/L	254346	1	01/16/2018 15:48	NP
Benzene	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
Bromodichloromethane	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
Bromoform	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
Bromomethane	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
Carbon disulfide	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
Carbon tetrachloride	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
Chlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
Chloroethane	BRL	10		ug/L	254346	1	01/16/2018 15:48	NP
Chloroform	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
Chloromethane	BRL	10		ug/L	254346	1	01/16/2018 15:48	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
Cyclohexane	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
Dibromochloromethane	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
Dichlorodifluoromethane	BRL	10		ug/L	254346	1	01/16/2018 15:48	NP
Ethylbenzene	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
Freon-113	BRL	10		ug/L	254346	1	01/16/2018 15:48	NP
Isopropylbenzene	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
m,p-Xylene	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
Methyl acetate	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
Methylcyclohexane	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
Methylene chloride	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-17
Project Name:	Southern States	**Collection Date:**	1/10/2018 2:08:00 PM
Lab ID:	1801848-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
o-Xylene	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
Styrene	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
Tetrachloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
Toluene	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
Trichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
Trichlorofluoromethane	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
Vinyl chloride	BRL	2.0		ug/L	254346	1	01/16/2018 15:48	NP
1,2-Dichloroethene, Total	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
Xylenes, Total	BRL	5.0		ug/L	254346	1	01/16/2018 15:48	NP
Surr: 4-Bromofluorobenzene	92.9	68-127		%REC	254346	1	01/16/2018 15:48	NP
Surr: Dibromofluoromethane	107	84.4-122		%REC	254346	1	01/16/2018 15:48	NP
Surr: Toluene-d8	103	80.1-116		%REC	254346	1	01/16/2018 15:48	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	254344	1	01/16/2018 16:30	AK
ION SCAN SW9056A								
Chloride	2.6	1.0		mg/L	R360860	1	01/11/2018 19:26	JM
Nitrate	BRL	0.25		mg/L	R360860	1	01/11/2018 19:26	JM
Sulfate	29	1.0		mg/L	R360860	1	01/11/2018 19:26	JM
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	254298	1	01/16/2018 11:54	UH
Ethylene	BRL	7.0		ug/L	254298	1	01/16/2018 11:54	UH
Methane	38	4.0		ug/L	254298	1	01/16/2018 11:54	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	2.50	H	mg/L	R360779	25	01/11/2018 16:55	LM
CARBON DIOXIDE SM4500-CO2								
Total Carbon Dioxide	126	10.0		mg/L	R360938	1	01/15/2018 15:00	AK
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	37.0	3.00		mg/L	R360938	1	01/15/2018 15:00	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-18
Project Name:	Southern States	**Collection Date:**	1/10/2018 10:10:00 AM
Lab ID:	1801848-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
1,1-Dichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
1,1-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
1,2-Dibromoethane	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
1,2-Dichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
1,2-Dichloropropane	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
1,4-Dioxane	BRL	150		ug/L	254346	1	01/16/2018 16:12	NP
2-Butanone	BRL	50		ug/L	254346	1	01/16/2018 16:12	NP
2-Hexanone	BRL	10		ug/L	254346	1	01/16/2018 16:12	NP
4-Methyl-2-pentanone	BRL	10		ug/L	254346	1	01/16/2018 16:12	NP
Acetone	BRL	50		ug/L	254346	1	01/16/2018 16:12	NP
Benzene	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
Bromodichloromethane	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
Bromoform	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
Bromomethane	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
Carbon disulfide	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
Carbon tetrachloride	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
Chlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
Chloroethane	BRL	10		ug/L	254346	1	01/16/2018 16:12	NP
Chloroform	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
Chloromethane	BRL	10		ug/L	254346	1	01/16/2018 16:12	NP
cis-1,2-Dichloroethene	76	5.0		ug/L	254346	1	01/16/2018 16:12	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
Cyclohexane	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
Dibromochloromethane	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
Dichlorodifluoromethane	BRL	10		ug/L	254346	1	01/16/2018 16:12	NP
Ethylbenzene	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
Freon-113	BRL	10		ug/L	254346	1	01/16/2018 16:12	NP
Isopropylbenzene	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
m,p-Xylene	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
Methyl acetate	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
Methylcyclohexane	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
Methylene chloride	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-18
Project Name:	Southern States	**Collection Date:**	1/10/2018 10:10:00 AM
Lab ID:	1801848-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
o-Xylene	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
Styrene	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
Tetrachloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
Toluene	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
Trichloroethene	24	5.0		ug/L	254346	1	01/16/2018 16:12	NP
Trichlorofluoromethane	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
Vinyl chloride	4.2	2.0		ug/L	254346	1	01/16/2018 16:12	NP
1,2-Dichloroethene, Total	76	5.0		ug/L	254346	1	01/16/2018 16:12	NP
Xylenes, Total	BRL	5.0		ug/L	254346	1	01/16/2018 16:12	NP
Surr: 4-Bromofluorobenzene	93.6	68-127		%REC	254346	1	01/16/2018 16:12	NP
Surr: Dibromofluoromethane	108	84.4-122		%REC	254346	1	01/16/2018 16:12	NP
Surr: Toluene-d8	105	80.1-116		%REC	254346	1	01/16/2018 16:12	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	254344	1	01/16/2018 16:30	AK
ION SCAN SW9056A								
Chloride	14	1.0		mg/L	R360821	1	01/11/2018 19:02	JM
Nitrate	BRL	0.25		mg/L	R360821	1	01/11/2018 19:02	JM
Sulfate	17	1.0		mg/L	R360821	1	01/11/2018 19:02	JM
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	254298	1	01/16/2018 11:58	UH
Ethylene	BRL	7.0		ug/L	254298	1	01/16/2018 11:58	UH
Methane	BRL	4.0		ug/L	254298	1	01/16/2018 11:58	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.500	H	mg/L	R360779	5	01/11/2018 16:55	LM
CARBON DIOXIDE SM4500-CO2								
Total Carbon Dioxide	130	10.0		mg/L	R360938	1	01/16/2018 09:30	AK
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	107	3.00		mg/L	R360938	1	01/16/2018 09:30	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-19
Project Name:	Southern States	**Collection Date:**	1/10/2018 11:46:00 AM
Lab ID:	1801848-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
1,1-Dichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
1,1-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
1,2-Dibromoethane	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
1,2-Dichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
1,2-Dichloropropane	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
1,4-Dioxane	BRL	150		ug/L	254346	1	01/16/2018 16:36	NP
2-Butanone	BRL	50		ug/L	254346	1	01/16/2018 16:36	NP
2-Hexanone	BRL	10		ug/L	254346	1	01/16/2018 16:36	NP
4-Methyl-2-pentanone	BRL	10		ug/L	254346	1	01/16/2018 16:36	NP
Acetone	BRL	50		ug/L	254346	1	01/16/2018 16:36	NP
Benzene	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
Bromodichloromethane	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
Bromoform	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
Bromomethane	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
Carbon disulfide	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
Carbon tetrachloride	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
Chlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
Chloroethane	BRL	10		ug/L	254346	1	01/16/2018 16:36	NP
Chloroform	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
Chloromethane	BRL	10		ug/L	254346	1	01/16/2018 16:36	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
Cyclohexane	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
Dibromochloromethane	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
Dichlorodifluoromethane	BRL	10		ug/L	254346	1	01/16/2018 16:36	NP
Ethylbenzene	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
Freon-113	BRL	10		ug/L	254346	1	01/16/2018 16:36	NP
Isopropylbenzene	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
m,p-Xylene	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
Methyl acetate	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
Methylcyclohexane	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
Methylene chloride	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-19
Project Name:	Southern States	**Collection Date:**	1/10/2018 11:46:00 AM
Lab ID:	1801848-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
o-Xylene	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
Styrene	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
Tetrachloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
Toluene	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
Trichloroethene	14	5.0		ug/L	254346	1	01/16/2018 16:36	NP
Trichlorofluoromethane	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
Vinyl chloride	BRL	2.0		ug/L	254346	1	01/16/2018 16:36	NP
1,2-Dichloroethene, Total	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
Xylenes, Total	BRL	5.0		ug/L	254346	1	01/16/2018 16:36	NP
Surr: 4-Bromofluorobenzene	88.6	68-127		%REC	254346	1	01/16/2018 16:36	NP
Surr: Dibromofluoromethane	111	84.4-122		%REC	254346	1	01/16/2018 16:36	NP
Surr: Toluene-d8	105	80.1-116		%REC	254346	1	01/16/2018 16:36	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	254344	1	01/16/2018 16:30	AK
ION SCAN SW9056A								
Chloride	14	1.0		mg/L	R360860	1	01/11/2018 18:25	JM
Nitrate	0.54	0.25		mg/L	R360860	1	01/11/2018 18:25	JM
Sulfate	13	1.0		mg/L	R360860	1	01/11/2018 18:25	JM
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	254298	1	01/16/2018 12:06	UH
Ethylene	BRL	7.0		ug/L	254298	1	01/16/2018 12:06	UH
Methane	BRL	4.0		ug/L	254298	1	01/16/2018 12:06	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100	H	mg/L	R360779	1	01/11/2018 16:55	LM
CARBON DIOXIDE SM4500-CO2								
Total Carbon Dioxide	83.5	10.0		mg/L	R360938	1	01/16/2018 09:30	AK
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	84.0	3.00		mg/L	R360938	1	01/16/2018 09:30	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-20
Project Name:	Southern States	**Collection Date:**	1/10/2018 9:33:00 AM
Lab ID:	1801848-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
1,1-Dichloroethane	5.9	5.0		ug/L	254346	1	01/16/2018 17:00	NP
1,1-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
1,2-Dibromoethane	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
1,2-Dichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
1,2-Dichloropropane	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
1,4-Dioxane	BRL	150		ug/L	254346	1	01/16/2018 17:00	NP
2-Butanone	BRL	50		ug/L	254346	1	01/16/2018 17:00	NP
2-Hexanone	BRL	10		ug/L	254346	1	01/16/2018 17:00	NP
4-Methyl-2-pentanone	BRL	10		ug/L	254346	1	01/16/2018 17:00	NP
Acetone	BRL	50		ug/L	254346	1	01/16/2018 17:00	NP
Benzene	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
Bromodichloromethane	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
Bromoform	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
Bromomethane	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
Carbon disulfide	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
Carbon tetrachloride	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
Chlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
Chloroethane	BRL	10		ug/L	254346	1	01/16/2018 17:00	NP
Chloroform	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
Chloromethane	BRL	10		ug/L	254346	1	01/16/2018 17:00	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
Cyclohexane	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
Dibromochloromethane	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
Dichlorodifluoromethane	BRL	10		ug/L	254346	1	01/16/2018 17:00	NP
Ethylbenzene	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
Freon-113	BRL	10		ug/L	254346	1	01/16/2018 17:00	NP
Isopropylbenzene	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
m,p-Xylene	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
Methyl acetate	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
Methylcyclohexane	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
Methylene chloride	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-20
Project Name:	Southern States	**Collection Date:**	1/10/2018 9:33:00 AM
Lab ID:	1801848-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
o-Xylene	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
Styrene	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
Tetrachloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
Toluene	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
Trichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
Trichlorofluoromethane	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
Vinyl chloride	BRL	2.0		ug/L	254346	1	01/16/2018 17:00	NP
1,2-Dichloroethene, Total	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
Xylenes, Total	BRL	5.0		ug/L	254346	1	01/16/2018 17:00	NP
Surr: 4-Bromofluorobenzene	93.8	68-127		%REC	254346	1	01/16/2018 17:00	NP
Surr: Dibromofluoromethane	108	84.4-122		%REC	254346	1	01/16/2018 17:00	NP
Surr: Toluene-d8	104	80.1-116		%REC	254346	1	01/16/2018 17:00	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	254344	1	01/16/2018 16:30	AK
ION SCAN SW9056A								
Chloride	14	1.0		mg/L	R360821	1	01/11/2018 18:18	JM
Nitrate	BRL	0.25		mg/L	R360821	1	01/11/2018 18:18	JM
Sulfate	3.4	1.0		mg/L	R360821	1	01/11/2018 18:18	JM
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	254298	1	01/16/2018 12:10	UH
Ethylene	BRL	7.0		ug/L	254298	1	01/16/2018 12:10	UH
Methane	910	40		ug/L	254298	10	01/16/2018 15:10	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100	H	mg/L	R360779	1	01/11/2018 16:55	LM
CARBON DIOXIDE SM4500-CO2								
Total Carbon Dioxide	171	10.0		mg/L	R360938	1	01/16/2018 09:30	AK
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	167	3.00		mg/L	R360938	1	01/16/2018 09:30	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-21
Project Name:	Southern States	**Collection Date:**	1/10/2018 10:04:00 AM
Lab ID:	1801848-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
1,1-Dichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
1,1-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
1,2-Dibromoethane	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
1,2-Dichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
1,2-Dichloropropane	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
1,4-Dioxane	BRL	150		ug/L	254346	1	01/16/2018 17:24	NP
2-Butanone	BRL	50		ug/L	254346	1	01/16/2018 17:24	NP
2-Hexanone	BRL	10		ug/L	254346	1	01/16/2018 17:24	NP
4-Methyl-2-pentanone	BRL	10		ug/L	254346	1	01/16/2018 17:24	NP
Acetone	BRL	50		ug/L	254346	1	01/16/2018 17:24	NP
Benzene	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
Bromodichloromethane	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
Bromoform	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
Bromomethane	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
Carbon disulfide	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
Carbon tetrachloride	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
Chlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
Chloroethane	BRL	10		ug/L	254346	1	01/16/2018 17:24	NP
Chloroform	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
Chloromethane	BRL	10		ug/L	254346	1	01/16/2018 17:24	NP
cis-1,2-Dichloroethene	12	5.0		ug/L	254346	1	01/16/2018 17:24	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
Cyclohexane	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
Dibromochloromethane	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
Dichlorodifluoromethane	BRL	10		ug/L	254346	1	01/16/2018 17:24	NP
Ethylbenzene	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
Freon-113	BRL	10		ug/L	254346	1	01/16/2018 17:24	NP
Isopropylbenzene	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
m,p-Xylene	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
Methyl acetate	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
Methylcyclohexane	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
Methylene chloride	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-21
Project Name:	Southern States	**Collection Date:**	1/10/2018 10:04:00 AM
Lab ID:	1801848-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
o-Xylene	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
Styrene	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
Tetrachloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
Toluene	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
Trichloroethene	120	5.0		ug/L	254346	1	01/16/2018 17:24	NP
Trichlorofluoromethane	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
Vinyl chloride	BRL	2.0		ug/L	254346	1	01/16/2018 17:24	NP
1,2-Dichloroethene, Total	12	5.0		ug/L	254346	1	01/16/2018 17:24	NP
Xylenes, Total	BRL	5.0		ug/L	254346	1	01/16/2018 17:24	NP
Surr: 4-Bromofluorobenzene	89.3	68-127		%REC	254346	1	01/16/2018 17:24	NP
Surr: Dibromofluoromethane	109	84.4-122		%REC	254346	1	01/16/2018 17:24	NP
Surr: Toluene-d8	104	80.1-116		%REC	254346	1	01/16/2018 17:24	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	254344	1	01/16/2018 16:30	AK
ION SCAN SW9056A								
Chloride	16	1.0		mg/L	R360821	1	01/11/2018 18:48	JM
Nitrate	1.7	0.25		mg/L	R360821	1	01/11/2018 18:48	JM
Sulfate	16	1.0		mg/L	R360821	1	01/11/2018 18:48	JM
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	254298	1	01/16/2018 12:15	UH
Ethylene	BRL	7.0		ug/L	254298	1	01/16/2018 12:15	UH
Methane	BRL	4.0		ug/L	254298	1	01/16/2018 12:15	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100	H	mg/L	R360779	1	01/11/2018 16:55	LM
CARBON DIOXIDE SM4500-CO2								
Total Carbon Dioxide	48.0	10.0		mg/L	R360938	1	01/16/2018 09:30	AK
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	28.0	3.00		mg/L	R360938	1	01/16/2018 09:30	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-28
Project Name:	Southern States	**Collection Date:**	1/10/2018 11:10:00 AM
Lab ID:	1801848-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
1,1-Dichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
1,1-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
1,2-Dibromoethane	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
1,2-Dichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
1,2-Dichloropropane	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
1,4-Dioxane	BRL	150		ug/L	254346	1	01/16/2018 18:12	NP
2-Butanone	BRL	50		ug/L	254346	1	01/16/2018 18:12	NP
2-Hexanone	BRL	10		ug/L	254346	1	01/16/2018 18:12	NP
4-Methyl-2-pentanone	BRL	10		ug/L	254346	1	01/16/2018 18:12	NP
Acetone	BRL	50		ug/L	254346	1	01/16/2018 18:12	NP
Benzene	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
Bromodichloromethane	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
Bromoform	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
Bromomethane	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
Carbon disulfide	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
Carbon tetrachloride	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
Chlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
Chloroethane	BRL	10		ug/L	254346	1	01/16/2018 18:12	NP
Chloroform	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
Chloromethane	BRL	10		ug/L	254346	1	01/16/2018 18:12	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
Cyclohexane	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
Dibromochloromethane	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
Dichlorodifluoromethane	BRL	10		ug/L	254346	1	01/16/2018 18:12	NP
Ethylbenzene	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
Freon-113	BRL	10		ug/L	254346	1	01/16/2018 18:12	NP
Isopropylbenzene	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
m,p-Xylene	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
Methyl acetate	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
Methylcyclohexane	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
Methylene chloride	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-28
Project Name:	Southern States	**Collection Date:**	1/10/2018 11:10:00 AM
Lab ID:	1801848-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
o-Xylene	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
Styrene	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
Tetrachloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
Toluene	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
Trichloroethene	27	5.0		ug/L	254346	1	01/16/2018 18:12	NP
Trichlorofluoromethane	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
Vinyl chloride	BRL	2.0		ug/L	254346	1	01/16/2018 18:12	NP
1,2-Dichloroethene, Total	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
Xylenes, Total	BRL	5.0		ug/L	254346	1	01/16/2018 18:12	NP
Surr: 4-Bromofluorobenzene	88.9	68-127		%REC	254346	1	01/16/2018 18:12	NP
Surr: Dibromofluoromethane	107	84.4-122		%REC	254346	1	01/16/2018 18:12	NP
Surr: Toluene-d8	102	80.1-116		%REC	254346	1	01/16/2018 18:12	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	254344	1	01/16/2018 16:30	AK
ION SCAN SW9056A								
Chloride	12	1.0		mg/L	R360821	1	01/11/2018 20:16	JM
Nitrate	1.2	0.25		mg/L	R360821	1	01/11/2018 20:16	JM
Sulfate	8.7	1.0		mg/L	R360821	1	01/11/2018 20:16	JM
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	254298	1	01/16/2018 12:38	UH
Ethylene	BRL	7.0		ug/L	254298	1	01/16/2018 12:38	UH
Methane	BRL	4.0		ug/L	254298	1	01/16/2018 12:38	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100	H	mg/L	R360779	1	01/11/2018 16:55	LM
CARBON DIOXIDE SM4500-CO2								
Total Carbon Dioxide	101	10.0		mg/L	R360938	1	01/16/2018 09:30	AK
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	39.0	3.00		mg/L	R360938	1	01/16/2018 09:30	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-31
Project Name:	Southern States	**Collection Date:**	1/10/2018 9:40:00 AM
Lab ID:	1801848-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
1,1-Dichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
1,1-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
1,2-Dibromoethane	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
1,2-Dichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
1,2-Dichloropropane	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
1,4-Dioxane	BRL	150		ug/L	254346	1	01/16/2018 18:36	NP
2-Butanone	BRL	50		ug/L	254346	1	01/16/2018 18:36	NP
2-Hexanone	BRL	10		ug/L	254346	1	01/16/2018 18:36	NP
4-Methyl-2-pentanone	BRL	10		ug/L	254346	1	01/16/2018 18:36	NP
Acetone	BRL	50		ug/L	254346	1	01/16/2018 18:36	NP
Benzene	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
Bromodichloromethane	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
Bromoform	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
Bromomethane	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
Carbon disulfide	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
Carbon tetrachloride	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
Chlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
Chloroethane	BRL	10		ug/L	254346	1	01/16/2018 18:36	NP
Chloroform	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
Chloromethane	BRL	10		ug/L	254346	1	01/16/2018 18:36	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
Cyclohexane	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
Dibromochloromethane	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
Dichlorodifluoromethane	BRL	10		ug/L	254346	1	01/16/2018 18:36	NP
Ethylbenzene	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
Freon-113	BRL	10		ug/L	254346	1	01/16/2018 18:36	NP
Isopropylbenzene	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
m,p-Xylene	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
Methyl acetate	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
Methylcyclohexane	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
Methylene chloride	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-31
Project Name:	Southern States	**Collection Date:**	1/10/2018 9:40:00 AM
Lab ID:	1801848-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
o-Xylene	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
Styrene	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
Tetrachloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
Toluene	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
Trichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
Trichlorofluoromethane	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
Vinyl chloride	BRL	2.0		ug/L	254346	1	01/16/2018 18:36	NP
1,2-Dichloroethene, Total	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
Xylenes, Total	BRL	5.0		ug/L	254346	1	01/16/2018 18:36	NP
Surr: 4-Bromofluorobenzene	91.7	68-127		%REC	254346	1	01/16/2018 18:36	NP
Surr: Dibromofluoromethane	109	84.4-122		%REC	254346	1	01/16/2018 18:36	NP
Surr: Toluene-d8	100	80.1-116		%REC	254346	1	01/16/2018 18:36	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	254344	1	01/16/2018 16:30	AK
ION SCAN SW9056A								
Chloride	16	1.0		mg/L	R360821	1	01/11/2018 18:33	JM
Nitrate	BRL	0.25		mg/L	R360821	1	01/11/2018 18:33	JM
Sulfate	2.3	1.0		mg/L	R360821	1	01/11/2018 18:33	JM
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	254298	1	01/16/2018 12:44	UH
Ethylene	BRL	7.0		ug/L	254298	1	01/16/2018 12:44	UH
Methane	8.7	4.0		ug/L	254298	1	01/16/2018 12:44	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	2.50	H	mg/L	R360779	25	01/11/2018 16:55	LM
CARBON DIOXIDE SM4500-CO2								
Total Carbon Dioxide	87.8	10.0		mg/L	R360938	1	01/16/2018 09:30	AK
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	84.0	3.00		mg/L	R360938	1	01/16/2018 09:30	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-32
Project Name:	Southern States	**Collection Date:**	1/10/2018 10:25:00 AM
Lab ID:	1801848-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
1,1-Dichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
1,1-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
1,2-Dibromoethane	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
1,2-Dichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
1,2-Dichloropropane	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
1,4-Dioxane	BRL	150		ug/L	254346	1	01/16/2018 19:00	NP
2-Butanone	BRL	50		ug/L	254346	1	01/16/2018 19:00	NP
2-Hexanone	BRL	10		ug/L	254346	1	01/16/2018 19:00	NP
4-Methyl-2-pentanone	BRL	10		ug/L	254346	1	01/16/2018 19:00	NP
Acetone	BRL	50		ug/L	254346	1	01/16/2018 19:00	NP
Benzene	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
Bromodichloromethane	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
Bromoform	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
Bromomethane	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
Carbon disulfide	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
Carbon tetrachloride	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
Chlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
Chloroethane	BRL	10		ug/L	254346	1	01/16/2018 19:00	NP
Chloroform	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
Chloromethane	BRL	10		ug/L	254346	1	01/16/2018 19:00	NP
cis-1,2-Dichloroethene	5.8	5.0		ug/L	254346	1	01/16/2018 19:00	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
Cyclohexane	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
Dibromochloromethane	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
Dichlorodifluoromethane	BRL	10		ug/L	254346	1	01/16/2018 19:00	NP
Ethylbenzene	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
Freon-113	BRL	10		ug/L	254346	1	01/16/2018 19:00	NP
Isopropylbenzene	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
m,p-Xylene	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
Methyl acetate	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
Methylcyclohexane	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
Methylene chloride	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-32
Project Name:	Southern States	**Collection Date:**	1/10/2018 10:25:00 AM
Lab ID:	1801848-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
o-Xylene	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
Styrene	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
Tetrachloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
Toluene	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
Trichloroethene	99	5.0		ug/L	254346	1	01/16/2018 19:00	NP
Trichlorofluoromethane	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
Vinyl chloride	BRL	2.0		ug/L	254346	1	01/16/2018 19:00	NP
1,2-Dichloroethene, Total	5.8	5.0		ug/L	254346	1	01/16/2018 19:00	NP
Xylenes, Total	BRL	5.0		ug/L	254346	1	01/16/2018 19:00	NP
Surr: 4-Bromofluorobenzene	86.7	68-127		%REC	254346	1	01/16/2018 19:00	NP
Surr: Dibromofluoromethane	112	84.4-122		%REC	254346	1	01/16/2018 19:00	NP
Surr: Toluene-d8	103	80.1-116		%REC	254346	1	01/16/2018 19:00	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	254344	1	01/16/2018 16:30	AK
ION SCAN SW9056A								
Chloride	14	1.0		mg/L	R360821	1	01/11/2018 19:17	JM
Nitrate	1.4	0.25		mg/L	R360821	1	01/11/2018 19:17	JM
Sulfate	7.7	1.0		mg/L	R360821	1	01/11/2018 19:17	JM
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	254298	1	01/16/2018 12:48	UH
Ethylene	BRL	7.0		ug/L	254298	1	01/16/2018 12:48	UH
Methane	BRL	4.0		ug/L	254298	1	01/16/2018 12:48	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100	H	mg/L	R360779	1	01/11/2018 16:55	LM
CARBON DIOXIDE SM4500-CO2								
Total Carbon Dioxide	82.8	10.0		mg/L	R360938	1	01/16/2018 09:30	AK
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	51.0	3.00		mg/L	R360938	1	01/16/2018 09:30	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-35
Project Name:	Southern States	**Collection Date:**	1/10/2018 1:25:00 PM
Lab ID:	1801848-011	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
1,1-Dichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
1,1-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
1,2-Dibromoethane	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
1,2-Dichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
1,2-Dichloropropane	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
1,4-Dioxane	BRL	150		ug/L	254346	1	01/16/2018 19:24	NP
2-Butanone	BRL	50		ug/L	254346	1	01/16/2018 19:24	NP
2-Hexanone	BRL	10		ug/L	254346	1	01/16/2018 19:24	NP
4-Methyl-2-pentanone	BRL	10		ug/L	254346	1	01/16/2018 19:24	NP
Acetone	BRL	50		ug/L	254346	1	01/16/2018 19:24	NP
Benzene	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
Bromodichloromethane	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
Bromoform	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
Bromomethane	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
Carbon disulfide	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
Carbon tetrachloride	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
Chlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
Chloroethane	BRL	10		ug/L	254346	1	01/16/2018 19:24	NP
Chloroform	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
Chloromethane	BRL	10		ug/L	254346	1	01/16/2018 19:24	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
Cyclohexane	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
Dibromochloromethane	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
Dichlorodifluoromethane	BRL	10		ug/L	254346	1	01/16/2018 19:24	NP
Ethylbenzene	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
Freon-113	BRL	10		ug/L	254346	1	01/16/2018 19:24	NP
Isopropylbenzene	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
m,p-Xylene	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
Methyl acetate	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
Methylcyclohexane	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
Methylene chloride	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-35
Project Name:	Southern States	**Collection Date:**	1/10/2018 1:25:00 PM
Lab ID:	1801848-011	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
o-Xylene	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
Styrene	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
Tetrachloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
Toluene	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
Trichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
Trichlorofluoromethane	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
Vinyl chloride	BRL	2.0		ug/L	254346	1	01/16/2018 19:24	NP
1,2-Dichloroethene, Total	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
Xylenes, Total	BRL	5.0		ug/L	254346	1	01/16/2018 19:24	NP
Surr: 4-Bromofluorobenzene	89.8	68-127		%REC	254346	1	01/16/2018 19:24	NP
Surr: Dibromofluoromethane	115	84.4-122		%REC	254346	1	01/16/2018 19:24	NP
Surr: Toluene-d8	105	80.1-116		%REC	254346	1	01/16/2018 19:24	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	254344	1	01/16/2018 16:30	AK
ION SCAN SW9056A								
Chloride	9.4	1.0		mg/L	R360860	1	01/11/2018 18:56	JM
Nitrate	BRL	0.25		mg/L	R360860	1	01/11/2018 18:56	JM
Sulfate	61	1.0		mg/L	R360860	1	01/11/2018 18:56	JM
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	254298	1	01/16/2018 12:55	UH
Ethylene	BRL	7.0		ug/L	254298	1	01/16/2018 12:55	UH
Methane	11	4.0		ug/L	254298	1	01/16/2018 12:55	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	1.00	H	mg/L	R360779	10	01/11/2018 16:55	LM
CARBON DIOXIDE SM4500-CO2								
Total Carbon Dioxide	216	10.0		mg/L	R360938	1	01/16/2018 09:30	AK
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	26.0	3.00		mg/L	R360938	1	01/16/2018 09:30	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-36
Project Name:	Southern States	**Collection Date:**	1/10/2018 1:31:00 PM
Lab ID:	1801848-012	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
1,1-Dichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
1,1-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
1,2-Dibromoethane	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
1,2-Dichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
1,2-Dichloropropane	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
1,4-Dioxane	BRL	150		ug/L	254346	1	01/16/2018 19:48	NP
2-Butanone	BRL	50		ug/L	254346	1	01/16/2018 19:48	NP
2-Hexanone	BRL	10		ug/L	254346	1	01/16/2018 19:48	NP
4-Methyl-2-pentanone	BRL	10		ug/L	254346	1	01/16/2018 19:48	NP
Acetone	BRL	50		ug/L	254346	1	01/16/2018 19:48	NP
Benzene	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
Bromodichloromethane	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
Bromoform	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
Bromomethane	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
Carbon disulfide	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
Carbon tetrachloride	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
Chlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
Chloroethane	BRL	10		ug/L	254346	1	01/16/2018 19:48	NP
Chloroform	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
Chloromethane	BRL	10		ug/L	254346	1	01/16/2018 19:48	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
Cyclohexane	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
Dibromochloromethane	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
Dichlorodifluoromethane	BRL	10		ug/L	254346	1	01/16/2018 19:48	NP
Ethylbenzene	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
Freon-113	BRL	10		ug/L	254346	1	01/16/2018 19:48	NP
Isopropylbenzene	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
m,p-Xylene	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
Methyl acetate	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
Methylcyclohexane	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
Methylene chloride	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-36
Project Name:	Southern States	**Collection Date:**	1/10/2018 1:31:00 PM
Lab ID:	1801848-012	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
o-Xylene	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
Styrene	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
Tetrachloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
Toluene	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
Trichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
Trichlorofluoromethane	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
Vinyl chloride	BRL	2.0		ug/L	254346	1	01/16/2018 19:48	NP
1,2-Dichloroethene, Total	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
Xylenes, Total	BRL	5.0		ug/L	254346	1	01/16/2018 19:48	NP
Surr: 4-Bromofluorobenzene	91.9	68-127		%REC	254346	1	01/16/2018 19:48	NP
Surr: Dibromofluoromethane	116	84.4-122		%REC	254346	1	01/16/2018 19:48	NP
Surr: Toluene-d8	103	80.1-116		%REC	254346	1	01/16/2018 19:48	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	254344	1	01/16/2018 16:30	AK
ION SCAN SW9056A								
Chloride	2.6	1.0		mg/L	R360860	1	01/11/2018 19:11	JM
Nitrate	0.41	0.25		mg/L	R360860	1	01/11/2018 19:11	JM
Sulfate	7.3	1.0		mg/L	R360860	1	01/11/2018 19:11	JM
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	254298	1	01/16/2018 13:00	UH
Ethylene	BRL	7.0		ug/L	254298	1	01/16/2018 13:00	UH
Methane	BRL	4.0		ug/L	254298	1	01/16/2018 13:00	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100	H	mg/L	R360779	1	01/11/2018 16:55	LM
CARBON DIOXIDE SM4500-CO2								
Total Carbon Dioxide	52.1	10.0		mg/L	R360938	1	01/16/2018 09:30	AK
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	52.0	3.00		mg/L	R360938	1	01/16/2018 09:30	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-39
Project Name:	Southern States	**Collection Date:**	1/10/2018 1:25:00 PM
Lab ID:	1801848-013	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
1,1-Dichloroethane	12	5.0		ug/L	254346	1	01/18/2018 14:51	NP
1,1-Dichloroethene	28	5.0		ug/L	254346	1	01/18/2018 14:51	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
1,2-Dibromoethane	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
1,2-Dichloroethane	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
1,2-Dichloropropane	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
1,4-Dioxane	BRL	150		ug/L	254346	1	01/18/2018 14:51	NP
2-Butanone	BRL	50		ug/L	254346	1	01/18/2018 14:51	NP
2-Hexanone	BRL	10		ug/L	254346	1	01/18/2018 14:51	NP
4-Methyl-2-pentanone	BRL	10		ug/L	254346	1	01/18/2018 14:51	NP
Acetone	BRL	50		ug/L	254346	1	01/18/2018 14:51	NP
Benzene	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
Bromodichloromethane	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
Bromoform	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
Bromomethane	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
Carbon disulfide	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
Carbon tetrachloride	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
Chlorobenzene	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
Chloroethane	BRL	10		ug/L	254346	1	01/18/2018 14:51	NP
Chloroform	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
Chloromethane	BRL	10		ug/L	254346	1	01/18/2018 14:51	NP
cis-1,2-Dichloroethene	39	5.0		ug/L	254346	1	01/18/2018 14:51	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
Cyclohexane	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
Dibromochloromethane	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
Dichlorodifluoromethane	BRL	10		ug/L	254346	1	01/18/2018 14:51	NP
Ethylbenzene	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
Freon-113	BRL	10		ug/L	254346	1	01/18/2018 14:51	NP
Isopropylbenzene	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
m,p-Xylene	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
Methyl acetate	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
Methylcyclohexane	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
Methylene chloride	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-39
Project Name:	Southern States	**Collection Date:**	1/10/2018 1:25:00 PM
Lab ID:	1801848-013	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
o-Xylene	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
Styrene	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
Tetrachloroethene	18	5.0		ug/L	254346	1	01/18/2018 14:51	NP
Toluene	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
Trichloroethene	5800	250		ug/L	254346	50	01/16/2018 11:22	NP
Trichlorofluoromethane	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
Vinyl chloride	BRL	2.0		ug/L	254346	1	01/18/2018 14:51	NP
1,2-Dichloroethene, Total	39	5.0		ug/L	254346	1	01/18/2018 14:51	NP
Xylenes, Total	BRL	5.0		ug/L	254346	1	01/18/2018 14:51	NP
Surr: 4-Bromofluorobenzene	93.9	68-127		%REC	254346	50	01/16/2018 11:22	NP
Surr: 4-Bromofluorobenzene	86.9	68-127		%REC	254346	1	01/18/2018 14:51	NP
Surr: Dibromofluoromethane	106	84.4-122		%REC	254346	50	01/16/2018 11:22	NP
Surr: Dibromofluoromethane	112	84.4-122		%REC	254346	1	01/18/2018 14:51	NP
Surr: Toluene-d8	103	80.1-116		%REC	254346	50	01/16/2018 11:22	NP
Surr: Toluene-d8	108	80.1-116		%REC	254346	1	01/18/2018 14:51	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	254344	1	01/16/2018 16:30	AK
ION SCAN SW9056A								
Chloride	15	1.0		mg/L	R360821	1	01/11/2018 21:45	JM
Nitrate	0.36	0.25		mg/L	R360821	1	01/11/2018 21:45	JM
Sulfate	47	1.0		mg/L	R360821	1	01/11/2018 21:45	JM
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	254298	1	01/16/2018 13:05	UH
Ethylene	BRL	7.0		ug/L	254298	1	01/16/2018 13:05	UH
Methane	17	4.0		ug/L	254298	1	01/16/2018 13:05	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100	H	mg/L	R360779	1	01/11/2018 16:55	LM
CARBON DIOXIDE SM4500-CO2								
Total Carbon Dioxide	106	10.0		mg/L	R361184	1	01/18/2018 16:45	AK
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	18.0	3.00		mg/L	R361184	1	01/18/2018 16:45	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-40
Project Name:	Southern States	**Collection Date:**	1/10/2018 12:09:00 PM
Lab ID:	1801848-014	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
1,1-Dichloroethane	15	5.0		ug/L	254346	1	01/18/2018 12:26	NP
1,1-Dichloroethene	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
1,2-Dibromoethane	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
1,2-Dichloroethane	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
1,2-Dichloropropane	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
1,4-Dioxane	BRL	150		ug/L	254346	1	01/18/2018 12:26	NP
2-Butanone	BRL	50		ug/L	254346	1	01/18/2018 12:26	NP
2-Hexanone	BRL	10		ug/L	254346	1	01/18/2018 12:26	NP
4-Methyl-2-pentanone	BRL	10		ug/L	254346	1	01/18/2018 12:26	NP
Acetone	BRL	50		ug/L	254346	1	01/18/2018 12:26	NP
Benzene	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
Bromodichloromethane	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
Bromoform	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
Bromomethane	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
Carbon disulfide	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
Carbon tetrachloride	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
Chlorobenzene	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
Chloroethane	BRL	10		ug/L	254346	1	01/18/2018 12:26	NP
Chloroform	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
Chloromethane	BRL	10		ug/L	254346	1	01/18/2018 12:26	NP
cis-1,2-Dichloroethene	390	50		ug/L	254346	10	01/18/2018 12:50	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
Cyclohexane	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
Dibromochloromethane	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
Dichlorodifluoromethane	BRL	10		ug/L	254346	1	01/18/2018 12:26	NP
Ethylbenzene	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
Freon-113	BRL	10		ug/L	254346	1	01/18/2018 12:26	NP
Isopropylbenzene	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
m,p-Xylene	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
Methyl acetate	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
Methylcyclohexane	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
Methylene chloride	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-40
Project Name:	Southern States	**Collection Date:**	1/10/2018 12:09:00 PM
Lab ID:	1801848-014	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
o-Xylene	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
Styrene	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
Tetrachloroethene	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
Toluene	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
Trichloroethene	1500	50		ug/L	254346	10	01/18/2018 12:50	NP
Trichlorofluoromethane	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
Vinyl chloride	150	2.0		ug/L	254346	1	01/18/2018 12:26	NP
1,2-Dichloroethene, Total	390	50		ug/L	254346	10	01/18/2018 12:50	NP
Xylenes, Total	BRL	5.0		ug/L	254346	1	01/18/2018 12:26	NP
Surr: 4-Bromofluorobenzene	87.8	68-127		%REC	254346	1	01/18/2018 12:26	NP
Surr: 4-Bromofluorobenzene	88.7	68-127		%REC	254346	10	01/18/2018 12:50	NP
Surr: Dibromofluoromethane	103	84.4-122		%REC	254346	1	01/18/2018 12:26	NP
Surr: Dibromofluoromethane	109	84.4-122		%REC	254346	10	01/18/2018 12:50	NP
Surr: Toluene-d8	102	80.1-116		%REC	254346	1	01/18/2018 12:26	NP
Surr: Toluene-d8	104	80.1-116		%REC	254346	10	01/18/2018 12:50	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	254344	1	01/17/2018 12:30	AK
ION SCAN SW9056A								
Chloride	42	1.0		mg/L	R360860	1	01/11/2018 18:40	JM
Nitrate	BRL	0.25		mg/L	R360860	1	01/11/2018 18:40	JM
Sulfate	59	1.0		mg/L	R360860	1	01/11/2018 18:40	JM
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	254298	1	01/16/2018 13:10	UH
Ethylene	BRL	7.0		ug/L	254298	1	01/16/2018 13:10	UH
Methane	130	4.0		ug/L	254298	1	01/16/2018 13:10	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	2.81	1.00	H	mg/L	R360779	10	01/11/2018 16:55	LM
CARBON DIOXIDE SM4500-CO2								
Total Carbon Dioxide	70.1	10.0		mg/L	R361184	1	01/18/2018 16:45	AK
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	40.0	3.00		mg/L	R361184	1	01/18/2018 16:45	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-41
Project Name:	Southern States	**Collection Date:**	1/10/2018 12:40:00 PM
Lab ID:	1801848-015	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
1,1-Dichloroethane	7.7	5.0		ug/L	254346	1	01/18/2018 13:14	NP
1,1-Dichloroethene	6.8	5.0		ug/L	254346	1	01/18/2018 13:14	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
1,2-Dibromoethane	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
1,2-Dichloroethane	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
1,2-Dichloropropane	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
1,4-Dioxane	BRL	150		ug/L	254346	1	01/18/2018 13:14	NP
2-Butanone	BRL	50		ug/L	254346	1	01/18/2018 13:14	NP
2-Hexanone	BRL	10		ug/L	254346	1	01/18/2018 13:14	NP
4-Methyl-2-pentanone	BRL	10		ug/L	254346	1	01/18/2018 13:14	NP
Acetone	BRL	50		ug/L	254346	1	01/18/2018 13:14	NP
Benzene	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
Bromodichloromethane	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
Bromoform	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
Bromomethane	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
Carbon disulfide	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
Carbon tetrachloride	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
Chlorobenzene	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
Chloroethane	BRL	10		ug/L	254346	1	01/18/2018 13:14	NP
Chloroform	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
Chloromethane	BRL	10		ug/L	254346	1	01/18/2018 13:14	NP
cis-1,2-Dichloroethene	110	5.0		ug/L	254346	1	01/18/2018 13:14	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
Cyclohexane	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
Dibromochloromethane	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
Dichlorodifluoromethane	BRL	10		ug/L	254346	1	01/18/2018 13:14	NP
Ethylbenzene	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
Freon-113	BRL	10		ug/L	254346	1	01/18/2018 13:14	NP
Isopropylbenzene	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
m,p-Xylene	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
Methyl acetate	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
Methylcyclohexane	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
Methylene chloride	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-41
Project Name:	Southern States	**Collection Date:**	1/10/2018 12:40:00 PM
Lab ID:	1801848-015	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
o-Xylene	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
Styrene	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
Tetrachloroethene	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
Toluene	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
Trichloroethene	760	50		ug/L	254346	10	01/18/2018 13:39	NP
Trichlorofluoromethane	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
Vinyl chloride	4.6	2.0		ug/L	254346	1	01/18/2018 13:14	NP
1,2-Dichloroethene, Total	110	5.0		ug/L	254346	1	01/18/2018 13:14	NP
Xylenes, Total	BRL	5.0		ug/L	254346	1	01/18/2018 13:14	NP
Surr: 4-Bromofluorobenzene	84.6	68-127		%REC	254346	1	01/18/2018 13:14	NP
Surr: 4-Bromofluorobenzene	89	68-127		%REC	254346	10	01/18/2018 13:39	NP
Surr: Dibromofluoromethane	110	84.4-122		%REC	254346	1	01/18/2018 13:14	NP
Surr: Dibromofluoromethane	111	84.4-122		%REC	254346	10	01/18/2018 13:39	NP
Surr: Toluene-d8	101	80.1-116		%REC	254346	1	01/18/2018 13:14	NP
Surr: Toluene-d8	104	80.1-116		%REC	254346	10	01/18/2018 13:39	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	254344	1	01/17/2018 12:30	AK
ION SCAN SW9056A								
Chloride	28	1.0		mg/L	R360860	1	01/11/2018 18:10	JM
Nitrate	0.87	0.25		mg/L	R360860	1	01/11/2018 18:10	JM
Sulfate	180	10		mg/L	R360860	10	01/12/2018 12:40	JM
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	254298	1	01/16/2018 13:14	UH
Ethylene	BRL	7.0		ug/L	254298	1	01/16/2018 13:14	UH
Methane	20	4.0		ug/L	254298	1	01/16/2018 13:14	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100	H	mg/L	R360779	1	01/11/2018 16:55	LM
CARBON DIOXIDE SM4500-CO2								
Total Carbon Dioxide	63.4	10.0		mg/L	R361184	1	01/18/2018 16:45	AK
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	47.0	3.00		mg/L	R361184	1	01/18/2018 16:45	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	TP-1
Project Name:	Southern States	**Collection Date:**	1/10/2018 11:20:00 AM
Lab ID:	1801848-016	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
1,1,2-Trichloroethane	15	5.0		ug/L	254346	1	01/18/2018 15:15	NP
1,1-Dichloroethane	8.1	5.0		ug/L	254346	1	01/18/2018 15:15	NP
1,1-Dichloroethene	7.3	5.0		ug/L	254346	1	01/18/2018 15:15	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
1,2-Dibromoethane	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
1,2-Dichloroethane	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
1,2-Dichloropropane	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
1,4-Dioxane	BRL	150		ug/L	254346	1	01/18/2018 15:15	NP
2-Butanone	BRL	50		ug/L	254346	1	01/18/2018 15:15	NP
2-Hexanone	BRL	10		ug/L	254346	1	01/18/2018 15:15	NP
4-Methyl-2-pentanone	BRL	10		ug/L	254346	1	01/18/2018 15:15	NP
Acetone	BRL	50		ug/L	254346	1	01/18/2018 15:15	NP
Benzene	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
Bromodichloromethane	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
Bromoform	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
Bromomethane	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
Carbon disulfide	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
Carbon tetrachloride	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
Chlorobenzene	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
Chloroethane	BRL	10		ug/L	254346	1	01/18/2018 15:15	NP
Chloroform	23	5.0		ug/L	254346	1	01/18/2018 15:15	NP
Chloromethane	BRL	10		ug/L	254346	1	01/18/2018 15:15	NP
cis-1,2-Dichloroethene	120	5.0		ug/L	254346	1	01/18/2018 15:15	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
Cyclohexane	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
Dibromochloromethane	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
Dichlorodifluoromethane	BRL	10		ug/L	254346	1	01/18/2018 15:15	NP
Ethylbenzene	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
Freon-113	BRL	10		ug/L	254346	1	01/18/2018 15:15	NP
Isopropylbenzene	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
m,p-Xylene	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
Methyl acetate	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
Methylcyclohexane	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
Methylene chloride	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	TP-1
Project Name:	Southern States	**Collection Date:**	1/10/2018 11:20:00 AM
Lab ID:	1801848-016	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
o-Xylene	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
Styrene	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
Tetrachloroethene	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
Toluene	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
Trichloroethene	1900	100		ug/L	254346	20	01/16/2018 15:00	NP
Trichlorofluoromethane	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
Vinyl chloride	3.6	2.0		ug/L	254346	1	01/18/2018 15:15	NP
1,2-Dichloroethene, Total	120	5.0		ug/L	254346	1	01/18/2018 15:15	NP
Xylenes, Total	BRL	5.0		ug/L	254346	1	01/18/2018 15:15	NP
Surr: 4-Bromofluorobenzene	86.7	68-127		%REC	254346	1	01/18/2018 15:15	NP
Surr: 4-Bromofluorobenzene	93.1	68-127		%REC	254346	20	01/16/2018 15:00	NP
Surr: Dibromofluoromethane	111	84.4-122		%REC	254346	20	01/16/2018 15:00	NP
Surr: Dibromofluoromethane	112	84.4-122		%REC	254346	1	01/18/2018 15:15	NP
Surr: Toluene-d8	104	80.1-116		%REC	254346	20	01/16/2018 15:00	NP
Surr: Toluene-d8	105	80.1-116		%REC	254346	1	01/18/2018 15:15	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	254344	1	01/17/2018 12:30	AK
ION SCAN SW9056A								
Chloride	45	1.0		mg/L	R360821	1	01/11/2018 20:31	JM
Nitrate	13	2.5		mg/L	R360821	10	01/11/2018 22:00	JM
Sulfate	35	1.0		mg/L	R360821	1	01/11/2018 20:31	JM
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	254298	1	01/16/2018 13:19	UH
Ethylene	BRL	7.0		ug/L	254298	1	01/16/2018 13:19	UH
Methane	31	4.0		ug/L	254298	1	01/16/2018 13:19	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	1.00	H	mg/L	R360779	10	01/11/2018 16:55	LM
CARBON DIOXIDE SM4500-CO2								
Total Carbon Dioxide	140	10.0		mg/L	R361184	1	01/18/2018 16:45	AK
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	8.00	3.00		mg/L	R361184	1	01/18/2018 16:45	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	TP-2
Project Name:	Southern States	**Collection Date:**	1/10/2018 10:38:00 AM
Lab ID:	1801848-017	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
1,1-Dichloroethane	12	5.0		ug/L	254346	1	01/18/2018 14:03	NP
1,1-Dichloroethene	27	5.0		ug/L	254346	1	01/18/2018 14:03	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
1,2-Dibromoethane	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
1,2-Dichloroethane	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
1,2-Dichloropropane	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
1,4-Dioxane	BRL	150		ug/L	254346	1	01/18/2018 14:03	NP
2-Butanone	BRL	50		ug/L	254346	1	01/18/2018 14:03	NP
2-Hexanone	BRL	10		ug/L	254346	1	01/18/2018 14:03	NP
4-Methyl-2-pentanone	BRL	10		ug/L	254346	1	01/18/2018 14:03	NP
Acetone	BRL	50		ug/L	254346	1	01/18/2018 14:03	NP
Benzene	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
Bromodichloromethane	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
Bromoform	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
Bromomethane	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
Carbon disulfide	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
Carbon tetrachloride	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
Chlorobenzene	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
Chloroethane	BRL	10		ug/L	254346	1	01/18/2018 14:03	NP
Chloroform	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
Chloromethane	BRL	10		ug/L	254346	1	01/18/2018 14:03	NP
cis-1,2-Dichloroethene	42	5.0		ug/L	254346	1	01/18/2018 14:03	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
Cyclohexane	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
Dibromochloromethane	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
Dichlorodifluoromethane	BRL	10		ug/L	254346	1	01/18/2018 14:03	NP
Ethylbenzene	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
Freon-113	BRL	10		ug/L	254346	1	01/18/2018 14:03	NP
Isopropylbenzene	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
m,p-Xylene	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
Methyl acetate	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
Methylcyclohexane	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
Methylene chloride	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	TP-2
Project Name:	Southern States	**Collection Date:**	1/10/2018 10:38:00 AM
Lab ID:	1801848-017	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
o-Xylene	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
Styrene	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
Tetrachloroethene	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
Toluene	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
Trichloroethene	510	50		ug/L	254346	10	01/18/2018 14:27	NP
Trichlorofluoromethane	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
Vinyl chloride	5.7	2.0		ug/L	254346	1	01/18/2018 14:03	NP
1,2-Dichloroethene, Total	42	5.0		ug/L	254346	1	01/18/2018 14:03	NP
Xylenes, Total	BRL	5.0		ug/L	254346	1	01/18/2018 14:03	NP
Surr: 4-Bromofluorobenzene	85.8	68-127		%REC	254346	10	01/18/2018 14:27	NP
Surr: 4-Bromofluorobenzene	93.1	68-127		%REC	254346	1	01/18/2018 14:03	NP
Surr: Dibromofluoromethane	110	84.4-122		%REC	254346	10	01/18/2018 14:27	NP
Surr: Dibromofluoromethane	112	84.4-122		%REC	254346	1	01/18/2018 14:03	NP
Surr: Toluene-d8	103	80.1-116		%REC	254346	10	01/18/2018 14:27	NP
Surr: Toluene-d8	106	80.1-116		%REC	254346	1	01/18/2018 14:03	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	254344	1	01/17/2018 12:30	AK
ION SCAN SW9056A								
Chloride	14	1.0		mg/L	R360821	1	01/11/2018 19:32	JM
Nitrate	1.1	0.25		mg/L	R360821	1	01/11/2018 19:32	JM
Sulfate	25	1.0		mg/L	R360821	1	01/11/2018 19:32	JM
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9.0		ug/L	254298	1	01/16/2018 13:24	UH
Ethylene	BRL	7.0		ug/L	254298	1	01/16/2018 13:24	UH
Methane	38	4.0		ug/L	254298	1	01/16/2018 13:24	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100	H	mg/L	R361110	1	01/12/2018 13:55	LM
CARBON DIOXIDE SM4500-CO2								
Total Carbon Dioxide	107	10.0		mg/L	R361184	1	01/18/2018 16:45	AK
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	28.0	3.00		mg/L	R361184	1	01/18/2018 16:45	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	DUP
Project Name:	Southern States	**Collection Date:**	1/10/2018 11:05:00 AM
Lab ID:	1801848-018	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
1,1-Dichloroethane	6.7	5.0		ug/L	254346	1	01/18/2018 11:14	NP
1,1-Dichloroethene	12	5.0		ug/L	254346	1	01/18/2018 11:14	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
1,2-Dibromoethane	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
1,2-Dichloroethane	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
1,2-Dichloropropane	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
1,4-Dioxane	BRL	150		ug/L	254346	1	01/18/2018 11:14	NP
2-Butanone	BRL	50		ug/L	254346	1	01/18/2018 11:14	NP
2-Hexanone	BRL	10		ug/L	254346	1	01/18/2018 11:14	NP
4-Methyl-2-pentanone	BRL	10		ug/L	254346	1	01/18/2018 11:14	NP
Acetone	BRL	50		ug/L	254346	1	01/18/2018 11:14	NP
Benzene	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
Bromodichloromethane	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
Bromoform	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
Bromomethane	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
Carbon disulfide	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
Carbon tetrachloride	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
Chlorobenzene	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
Chloroethane	BRL	10		ug/L	254346	1	01/18/2018 11:14	NP
Chloroform	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
Chloromethane	BRL	10		ug/L	254346	1	01/18/2018 11:14	NP
cis-1,2-Dichloroethene	71	5.0		ug/L	254346	1	01/18/2018 11:14	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
Cyclohexane	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
Dibromochloromethane	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
Dichlorodifluoromethane	BRL	10		ug/L	254346	1	01/18/2018 11:14	NP
Ethylbenzene	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
Freon-113	BRL	10		ug/L	254346	1	01/18/2018 11:14	NP
Isopropylbenzene	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
m,p-Xylene	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
Methyl acetate	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
Methylcyclohexane	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
Methylene chloride	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	DUP
Project Name:	Southern States	**Collection Date:**	1/10/2018 11:05:00 AM
Lab ID:	1801848-018	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
o-Xylene	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
Styrene	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
Tetrachloroethene	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
Toluene	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
Trichloroethene	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
Trichlorofluoromethane	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
Vinyl chloride	6.9	2.0		ug/L	254346	1	01/18/2018 11:14	NP
1,2-Dichloroethene, Total	71	5.0		ug/L	254346	1	01/18/2018 11:14	NP
Xylenes, Total	BRL	5.0		ug/L	254346	1	01/18/2018 11:14	NP
Surr: 4-Bromofluorobenzene	86	68-127		%REC	254346	1	01/18/2018 11:14	NP
Surr: Dibromofluoromethane	107	84.4-122		%REC	254346	1	01/18/2018 11:14	NP
Surr: Toluene-d8	103	80.1-116		%REC	254346	1	01/18/2018 11:14	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	TRIP BLANK #1
Project Name:	Southern States	**Collection Date:**	1/10/2018
Lab ID:	1801848-019	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
1,1-Dichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
1,1-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
1,2-Dibromoethane	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
1,2-Dichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
1,2-Dichloropropane	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
1,4-Dioxane	BRL	150		ug/L	254346	1	01/16/2018 10:33	NP
2-Butanone	BRL	50		ug/L	254346	1	01/16/2018 10:33	NP
2-Hexanone	BRL	10		ug/L	254346	1	01/16/2018 10:33	NP
4-Methyl-2-pentanone	BRL	10		ug/L	254346	1	01/16/2018 10:33	NP
Acetone	BRL	50		ug/L	254346	1	01/16/2018 10:33	NP
Benzene	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
Bromodichloromethane	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
Bromoform	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
Bromomethane	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
Carbon disulfide	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
Carbon tetrachloride	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
Chlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
Chloroethane	BRL	10		ug/L	254346	1	01/16/2018 10:33	NP
Chloroform	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
Chloromethane	BRL	10		ug/L	254346	1	01/16/2018 10:33	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
Cyclohexane	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
Dibromochloromethane	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
Dichlorodifluoromethane	BRL	10		ug/L	254346	1	01/16/2018 10:33	NP
Ethylbenzene	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
Freon-113	BRL	10		ug/L	254346	1	01/16/2018 10:33	NP
Isopropylbenzene	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
m,p-Xylene	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
Methyl acetate	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
Methylcyclohexane	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
Methylene chloride	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	TRIP BLANK #1
Project Name:	Southern States	**Collection Date:**	1/10/2018
Lab ID:	1801848-019	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
o-Xylene	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
Styrene	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
Tetrachloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
Toluene	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
Trichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
Trichlorofluoromethane	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
Vinyl chloride	BRL	2.0		ug/L	254346	1	01/16/2018 10:33	NP
1,2-Dichloroethene, Total	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
Xylenes, Total	BRL	5.0		ug/L	254346	1	01/16/2018 10:33	NP
Surr: 4-Bromofluorobenzene	97.7	68-127		%REC	254346	1	01/16/2018 10:33	NP
Surr: Dibromofluoromethane	103	84.4-122		%REC	254346	1	01/16/2018 10:33	NP
Surr: Toluene-d8	104	80.1-116		%REC	254346	1	01/16/2018 10:33	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	TRIP BLANK #2
Project Name:	Southern States	**Collection Date:**	1/10/2018
Lab ID:	1801848-020	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
1,1-Dichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
1,1-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
1,2-Dibromoethane	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
1,2-Dichloroethane	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
1,2-Dichloropropane	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
1,4-Dioxane	BRL	150		ug/L	254346	1	01/16/2018 10:58	NP
2-Butanone	BRL	50		ug/L	254346	1	01/16/2018 10:58	NP
2-Hexanone	BRL	10		ug/L	254346	1	01/16/2018 10:58	NP
4-Methyl-2-pentanone	BRL	10		ug/L	254346	1	01/16/2018 10:58	NP
Acetone	BRL	50		ug/L	254346	1	01/16/2018 10:58	NP
Benzene	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
Bromodichloromethane	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
Bromoform	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
Bromomethane	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
Carbon disulfide	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
Carbon tetrachloride	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
Chlorobenzene	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
Chloroethane	BRL	10		ug/L	254346	1	01/16/2018 10:58	NP
Chloroform	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
Chloromethane	BRL	10		ug/L	254346	1	01/16/2018 10:58	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
Cyclohexane	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
Dibromochloromethane	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
Dichlorodifluoromethane	BRL	10		ug/L	254346	1	01/16/2018 10:58	NP
Ethylbenzene	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
Freon-113	BRL	10		ug/L	254346	1	01/16/2018 10:58	NP
Isopropylbenzene	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
m,p-Xylene	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
Methyl acetate	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
Methylcyclohexane	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
Methylene chloride	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Jan-18

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	TRIP BLANK #2
Project Name:	Southern States	**Collection Date:**	1/10/2018
Lab ID:	1801848-020	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
o-Xylene	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
Styrene	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
Tetrachloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
Toluene	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
Trichloroethene	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
Trichlorofluoromethane	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
Vinyl chloride	BRL	2.0		ug/L	254346	1	01/16/2018 10:58	NP
1,2-Dichloroethene, Total	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
Xylenes, Total	BRL	5.0		ug/L	254346	1	01/16/2018 10:58	NP
Surr: 4-Bromofluorobenzene	92.9	68-127		%REC	254346	1	01/16/2018 10:58	NP
Surr: Dibromofluoromethane	107	84.4-122		%REC	254346	1	01/16/2018 10:58	NP
Surr: Toluene-d8	104	80.1-116		%REC	254346	1	01/16/2018 10:58	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC. AES

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **Environmental Management Associates, LLC** AES Work Order Number: **1801848**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ■ Courier ☐ Other _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	●	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	○	●	○		
5.	Custody seals intact on shipping container?	○	○	●		
6.	Temperature blanks present?	●	○	○		
7.	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	●	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	●	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	●	○	○		
10.	Sampler name and/or signature on COC?	●	○	○		
11.	Were all samples received within holding time?	○	●	○		
12.	TAT marked on the COC?	●	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 0.6 °C Cooler 2 Temperature 1.1 °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). TR 1/11/18

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	●	○	○		
17.	Custody seals present on sample containers?	○	●	○		
18.	Custody seals intact on sample containers?	○	○	●		
19.	Do sample container labels match the COC?	●	○	○	incomplete info ☐ illegible ☐ no label ☐ other ☐	
20.	Are analyses requested indicated on the COC?	●	○	○		
21.	Were all of the samples listed on the COC received?	●	○	○	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22.	Was the sample collection date/time noted?	●	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	●	○	○		
24.	Were samples received in appropriate containers?	●	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	●	○	○		
26.	Were trip blanks submitted?	●	○	○	listed on COC ■ not listed on COC ☐	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). TR 1/11/18

This section only applies to samples where pH can be checked at Sample Receipt.

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked? *	●	○	○		
29.	Containers meet preservation guidelines?	●	○	○		
30.	Was pH adjusted at Sample Receipt?	○	○	●		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). TR 1/11/18

Checklist 6.9.17 Rev 2

Locked

Analytical Environmental Services, Inc

Date: 22-Jan-18

Client: Environmental Management Associates, LLC
Project Name: Southern States
Lab Order: 1801848

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1801848-001A	MW-9	1/10/2018 12:28:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/16/2018 8:56:00 AM	01/16/2018
1801848-001B	MW-9	1/10/2018 12:28:00PM	Groundwater	GC Analysis of Gaseous Samples		1/16/2018 10:59:18 AM	01/16/2018
1801848-001C	MW-9	1/10/2018 12:28:00PM	Groundwater	Sulfide by SW9030/9034		1/16/2018 1:45:00 PM	01/16/2018
1801848-001D	MW-9	1/10/2018 12:28:00PM	Groundwater	ION SCAN			01/11/2018
1801848-001D	MW-9	1/10/2018 12:28:00PM	Groundwater	Alkalinity by SM2320B			01/15/2018
1801848-001D	MW-9	1/10/2018 12:28:00PM	Groundwater	Ferrous Iron			01/11/2018
1801848-001D	MW-9	1/10/2018 12:28:00PM	Groundwater	Carbon Dioxide and Forms of Alkalinity			01/15/2018
1801848-002A	MW-13	1/10/2018 11:05:00AM	Groundwater	Volatile Organic Compounds by GC/MS		1/16/2018 8:56:00 AM	01/16/2018
1801848-002B	MW-13	1/10/2018 11:05:00AM	Groundwater	GC Analysis of Gaseous Samples		1/16/2018 10:59:18 AM	01/16/2018
1801848-002C	MW-13	1/10/2018 11:05:00AM	Groundwater	Sulfide by SW9030/9034		1/16/2018 1:45:00 PM	01/16/2018
1801848-002D	MW-13	1/10/2018 11:05:00AM	Groundwater	ION SCAN			01/11/2018
1801848-002D	MW-13	1/10/2018 11:05:00AM	Groundwater	Alkalinity by SM2320B			01/15/2018
1801848-002D	MW-13	1/10/2018 11:05:00AM	Groundwater	Ferrous Iron			01/11/2018
1801848-002D	MW-13	1/10/2018 11:05:00AM	Groundwater	Carbon Dioxide and Forms of Alkalinity			01/15/2018
1801848-003A	MW-17	1/10/2018 2:08:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/16/2018 8:56:00 AM	01/16/2018
1801848-003B	MW-17	1/10/2018 2:08:00PM	Groundwater	GC Analysis of Gaseous Samples		1/16/2018 10:59:18 AM	01/16/2018
1801848-003C	MW-17	1/10/2018 2:08:00PM	Groundwater	Sulfide by SW9030/9034		1/16/2018 1:45:00 PM	01/16/2018
1801848-003D	MW-17	1/10/2018 2:08:00PM	Groundwater	ION SCAN			01/11/2018
1801848-003D	MW-17	1/10/2018 2:08:00PM	Groundwater	Alkalinity by SM2320B			01/15/2018
1801848-003D	MW-17	1/10/2018 2:08:00PM	Groundwater	Ferrous Iron			01/11/2018
1801848-003D	MW-17	1/10/2018 2:08:00PM	Groundwater	Carbon Dioxide and Forms of Alkalinity			01/15/2018
1801848-004A	MW-18	1/10/2018 10:10:00AM	Groundwater	Volatile Organic Compounds by GC/MS		1/16/2018 8:56:00 AM	01/16/2018
1801848-004B	MW-18	1/10/2018 10:10:00AM	Groundwater	GC Analysis of Gaseous Samples		1/16/2018 10:59:18 AM	01/16/2018
1801848-004C	MW-18	1/10/2018 10:10:00AM	Groundwater	Sulfide by SW9030/9034		1/16/2018 1:45:00 PM	01/16/2018
1801848-004D	MW-18	1/10/2018 10:10:00AM	Groundwater	ION SCAN			01/11/2018
1801848-004D	MW-18	1/10/2018 10:10:00AM	Groundwater	Alkalinity by SM2320B			01/16/2018
1801848-004D	MW-18	1/10/2018 10:10:00AM	Groundwater	Ferrous Iron			01/11/2018
1801848-004D	MW-18	1/10/2018 10:10:00AM	Groundwater	Carbon Dioxide and Forms of Alkalinity			01/16/2018
1801848-005A	MW-19	1/10/2018 11:46:00AM	Groundwater	Volatile Organic Compounds by GC/MS		1/16/2018 8:56:00 AM	01/16/2018

Analytical Environmental Services, Inc

Date: 22-Jan-18

Client: Environmental Management Associates, LLC
Project Name: Southern States
Lab Order: 1801848

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1801848-005B	MW-19	1/10/2018 11:46:00AM	Groundwater	GC Analysis of Gaseous Samples		1/16/2018 10:59:18 AM	01/16/2018
1801848-005C	MW-19	1/10/2018 11:46:00AM	Groundwater	Sulfide by SW9030/9034		1/16/2018 1:45:00 PM	01/16/2018
1801848-005D	MW-19	1/10/2018 11:46:00AM	Groundwater	ION SCAN			01/11/2018
1801848-005D	MW-19	1/10/2018 11:46:00AM	Groundwater	Alkalinity by SM2320B			01/16/2018
1801848-005D	MW-19	1/10/2018 11:46:00AM	Groundwater	Ferrous Iron			01/11/2018
1801848-005D	MW-19	1/10/2018 11:46:00AM	Groundwater	Carbon Dioxide and Forms of Alkalinity			01/16/2018
1801848-006A	MW-20	1/10/2018 9:33:00AM	Groundwater	Volatile Organic Compounds by GC/MS		1/16/2018 8:56:00 AM	01/16/2018
1801848-006B	MW-20	1/10/2018 9:33:00AM	Groundwater	GC Analysis of Gaseous Samples		1/16/2018 10:59:18 AM	01/16/2018
1801848-006C	MW-20	1/10/2018 9:33:00AM	Groundwater	Sulfide by SW9030/9034		1/16/2018 3:15:00 PM	01/16/2018
1801848-006D	MW-20	1/10/2018 9:33:00AM	Groundwater	ION SCAN			01/11/2018
1801848-006E	MW-20	1/10/2018 9:33:00AM	Groundwater	Alkalinity by SM2320B			01/16/2018
1801848-006E	MW-20	1/10/2018 9:33:00AM	Groundwater	Ferrous Iron			01/11/2018
1801848-006E	MW-20	1/10/2018 9:33:00AM	Groundwater	Carbon Dioxide and Forms of Alkalinity			01/16/2018
1801848-007A	MW-21	1/10/2018 10:04:00AM	Groundwater	Volatile Organic Compounds by GC/MS		1/16/2018 8:56:00 AM	01/16/2018
1801848-007B	MW-21	1/10/2018 10:04:00AM	Groundwater	GC Analysis of Gaseous Samples		1/16/2018 10:59:18 AM	01/16/2018
1801848-007C	MW-21	1/10/2018 10:04:00AM	Groundwater	Sulfide by SW9030/9034		1/16/2018 3:15:00 PM	01/16/2018
1801848-007D	MW-21	1/10/2018 10:04:00AM	Groundwater	ION SCAN			01/11/2018
1801848-007E	MW-21	1/10/2018 10:04:00AM	Groundwater	Alkalinity by SM2320B			01/16/2018
1801848-007E	MW-21	1/10/2018 10:04:00AM	Groundwater	Ferrous Iron			01/11/2018
1801848-007E	MW-21	1/10/2018 10:04:00AM	Groundwater	Carbon Dioxide and Forms of Alkalinity			01/16/2018
1801848-008A	MW-28	1/10/2018 11:10:00AM	Groundwater	Volatile Organic Compounds by GC/MS		1/16/2018 8:56:00 AM	01/16/2018
1801848-008B	MW-28	1/10/2018 11:10:00AM	Groundwater	GC Analysis of Gaseous Samples		1/16/2018 10:59:18 AM	01/16/2018
1801848-008C	MW-28	1/10/2018 11:10:00AM	Groundwater	Sulfide by SW9030/9034		1/16/2018 3:15:00 PM	01/16/2018
1801848-008D	MW-28	1/10/2018 11:10:00AM	Groundwater	ION SCAN			01/11/2018
1801848-008D	MW-28	1/10/2018 11:10:00AM	Groundwater	Alkalinity by SM2320B			01/16/2018
1801848-008D	MW-28	1/10/2018 11:10:00AM	Groundwater	Ferrous Iron			01/11/2018
1801848-008D	MW-28	1/10/2018 11:10:00AM	Groundwater	Carbon Dioxide and Forms of Alkalinity			01/16/2018
1801848-009A	MW-31	1/10/2018 9:40:00AM	Groundwater	Volatile Organic Compounds by GC/MS		1/16/2018 8:56:00 AM	01/16/2018
1801848-009B	MW-31	1/10/2018 9:40:00AM	Groundwater	GC Analysis of Gaseous Samples		1/16/2018 10:59:18 AM	01/16/2018

Analytical Environmental Services, Inc

Date: 22-Jan-18

Client: Environmental Management Associates, LLC
Project Name: Southern States
Lab Order: 1801848

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1801848-009C	MW-31	1/10/2018 9:40:00AM	Groundwater	Sulfide by SW9030/9034		1/16/2018 3:15:00 PM	01/16/2018
1801848-009D	MW-31	1/10/2018 9:40:00AM	Groundwater	ION SCAN			01/11/2018
1801848-009D	MW-31	1/10/2018 9:40:00AM	Groundwater	Alkalinity by SM2320B			01/16/2018
1801848-009D	MW-31	1/10/2018 9:40:00AM	Groundwater	Ferrous Iron			01/11/2018
1801848-009D	MW-31	1/10/2018 9:40:00AM	Groundwater	Carbon Dioxide and Forms of Alkalinity			01/16/2018
1801848-010A	MW-32	1/10/2018 10:25:00AM	Groundwater	Volatile Organic Compounds by GC/MS		1/16/2018 8:56:00 AM	01/16/2018
1801848-010B	MW-32	1/10/2018 10:25:00AM	Groundwater	GC Analysis of Gaseous Samples		1/16/2018 10:59:18 AM	01/16/2018
1801848-010C	MW-32	1/10/2018 10:25:00AM	Groundwater	Sulfide by SW9030/9034		1/16/2018 3:15:00 PM	01/16/2018
1801848-010D	MW-32	1/10/2018 10:25:00AM	Groundwater	ION SCAN			01/11/2018
1801848-010D	MW-32	1/10/2018 10:25:00AM	Groundwater	Alkalinity by SM2320B			01/16/2018
1801848-010D	MW-32	1/10/2018 10:25:00AM	Groundwater	Ferrous Iron			01/11/2018
1801848-010D	MW-32	1/10/2018 10:25:00AM	Groundwater	Carbon Dioxide and Forms of Alkalinity			01/16/2018
1801848-011A	MW-35	1/10/2018 1:25:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/16/2018 8:56:00 AM	01/16/2018
1801848-011B	MW-35	1/10/2018 1:25:00PM	Groundwater	GC Analysis of Gaseous Samples		1/16/2018 10:59:18 AM	01/16/2018
1801848-011C	MW-35	1/10/2018 1:25:00PM	Groundwater	Sulfide by SW9030/9034		1/16/2018 3:15:00 PM	01/16/2018
1801848-011D	MW-35	1/10/2018 1:25:00PM	Groundwater	ION SCAN			01/11/2018
1801848-011D	MW-35	1/10/2018 1:25:00PM	Groundwater	Alkalinity by SM2320B			01/16/2018
1801848-011D	MW-35	1/10/2018 1:25:00PM	Groundwater	Ferrous Iron			01/11/2018
1801848-011D	MW-35	1/10/2018 1:25:00PM	Groundwater	Carbon Dioxide and Forms of Alkalinity			01/16/2018
1801848-012A	MW-36	1/10/2018 1:31:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/16/2018 8:56:00 AM	01/16/2018
1801848-012B	MW-36	1/10/2018 1:31:00PM	Groundwater	GC Analysis of Gaseous Samples		1/16/2018 10:59:18 AM	01/16/2018
1801848-012C	MW-36	1/10/2018 1:31:00PM	Groundwater	Sulfide by SW9030/9034		1/16/2018 3:15:00 PM	01/16/2018
1801848-012D	MW-36	1/10/2018 1:31:00PM	Groundwater	ION SCAN			01/11/2018
1801848-012D	MW-36	1/10/2018 1:31:00PM	Groundwater	Alkalinity by SM2320B			01/16/2018
1801848-012D	MW-36	1/10/2018 1:31:00PM	Groundwater	Ferrous Iron			01/11/2018
1801848-012D	MW-36	1/10/2018 1:31:00PM	Groundwater	Carbon Dioxide and Forms of Alkalinity			01/16/2018
1801848-013A	MW-39	1/10/2018 1:25:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/16/2018 8:56:00 AM	01/16/2018
1801848-013A	MW-39	1/10/2018 1:25:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/16/2018 8:56:00 AM	01/18/2018
1801848-013B	MW-39	1/10/2018 1:25:00PM	Groundwater	GC Analysis of Gaseous Samples		1/16/2018 10:59:18 AM	01/16/2018

Client: Environmental Management Associates, LLC
Project Name: Southern States
Lab Order: 1801848

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1801848-013C	MW-39	1/10/2018 1:25:00PM	Groundwater	Sulfide by SW9030/9034		1/16/2018 3:15:00 PM	01/16/2018
1801848-013D	MW-39	1/10/2018 1:25:00PM	Groundwater	ION SCAN			01/11/2018
1801848-013E	MW-39	1/10/2018 1:25:00PM	Groundwater	Alkalinity by SM2320B			01/18/2018
1801848-013E	MW-39	1/10/2018 1:25:00PM	Groundwater	Ferrous Iron			01/11/2018
1801848-013E	MW-39	1/10/2018 1:25:00PM	Groundwater	Carbon Dioxide and Forms of Alkalinity			01/18/2018
1801848-014A	MW-40	1/10/2018 12:09:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/16/2018 8:56:00 AM	01/18/2018
1801848-014B	MW-40	1/10/2018 12:09:00PM	Groundwater	GC Analysis of Gaseous Samples		1/16/2018 10:59:18 AM	01/16/2018
1801848-014C	MW-40	1/10/2018 12:09:00PM	Groundwater	Sulfide by SW9030/9034		1/17/2018 12:00:00 PM	01/17/2018
1801848-014D	MW-40	1/10/2018 12:09:00PM	Groundwater	ION SCAN			01/11/2018
1801848-014E	MW-40	1/10/2018 12:09:00PM	Groundwater	Alkalinity by SM2320B			01/18/2018
1801848-014E	MW-40	1/10/2018 12:09:00PM	Groundwater	Ferrous Iron			01/11/2018
1801848-014E	MW-40	1/10/2018 12:09:00PM	Groundwater	Carbon Dioxide and Forms of Alkalinity			01/18/2018
1801848-015A	MW-41	1/10/2018 12:40:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/16/2018 8:56:00 AM	01/18/2018
1801848-015B	MW-41	1/10/2018 12:40:00PM	Groundwater	GC Analysis of Gaseous Samples		1/16/2018 10:59:18 AM	01/16/2018
1801848-015C	MW-41	1/10/2018 12:40:00PM	Groundwater	Sulfide by SW9030/9034		1/17/2018 12:00:00 PM	01/17/2018
1801848-015D	MW-41	1/10/2018 12:40:00PM	Groundwater	ION SCAN			01/11/2018
1801848-015D	MW-41	1/10/2018 12:40:00PM	Groundwater	ION SCAN			01/12/2018
1801848-015E	MW-41	1/10/2018 12:40:00PM	Groundwater	Alkalinity by SM2320B			01/18/2018
1801848-015E	MW-41	1/10/2018 12:40:00PM	Groundwater	Ferrous Iron			01/11/2018
1801848-015E	MW-41	1/10/2018 12:40:00PM	Groundwater	Carbon Dioxide and Forms of Alkalinity			01/18/2018
1801848-016A	TP-1	1/10/2018 11:20:00AM	Groundwater	Volatile Organic Compounds by GC/MS		1/16/2018 8:56:00 AM	01/16/2018
1801848-016A	TP-1	1/10/2018 11:20:00AM	Groundwater	Volatile Organic Compounds by GC/MS		1/16/2018 8:56:00 AM	01/18/2018
1801848-016B	TP-1	1/10/2018 11:20:00AM	Groundwater	GC Analysis of Gaseous Samples		1/16/2018 10:59:18 AM	01/16/2018
1801848-016C	TP-1	1/10/2018 11:20:00AM	Groundwater	Sulfide by SW9030/9034		1/17/2018 12:00:00 PM	01/17/2018
1801848-016D	TP-1	1/10/2018 11:20:00AM	Groundwater	ION SCAN			01/11/2018
1801848-016E	TP-1	1/10/2018 11:20:00AM	Groundwater	Alkalinity by SM2320B			01/18/2018
1801848-016E	TP-1	1/10/2018 11:20:00AM	Groundwater	Ferrous Iron			01/11/2018
1801848-016E	TP-1	1/10/2018 11:20:00AM	Groundwater	Carbon Dioxide and Forms of Alkalinity			01/18/2018
1801848-017A	TP-2	1/10/2018 10:38:00AM	Groundwater	Volatile Organic Compounds by GC/MS		1/16/2018 8:56:00 AM	01/18/2018

Client: Environmental Management Associates, LLC
Project Name: Southern States
Lab Order: 1801848

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1801848-017B	TP-2	1/10/2018 10:38:00AM	Groundwater	GC Analysis of Gaseous Samples		1/16/2018 10:59:18 AM	01/16/2018
1801848-017C	TP-2	1/10/2018 10:38:00AM	Groundwater	Sulfide by SW9030/9034		1/17/2018 12:00:00 PM	01/17/2018
1801848-017D	TP-2	1/10/2018 10:38:00AM	Groundwater	ION SCAN			01/11/2018
1801848-017E	TP-2	1/10/2018 10:38:00AM	Groundwater	Alkalinity by SM2320B			01/18/2018
1801848-017E	TP-2	1/10/2018 10:38:00AM	Groundwater	Ferrous Iron			01/12/2018
1801848-017E	TP-2	1/10/2018 10:38:00AM	Groundwater	Carbon Dioxide and Forms of Alkalinity			01/18/2018
1801848-018A	DUP	1/10/2018 11:05:00AM	Groundwater	Volatile Organic Compounds by GC/MS		1/16/2018 8:56:00 AM	01/18/2018
1801848-019A	TRIP BLANK #1	1/10/2018 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		1/16/2018 8:56:00 AM	01/16/2018
1801848-020A	TRIP BLANK #2	1/10/2018 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		1/16/2018 8:56:00 AM	01/16/2018
1801848-021D	MW-30		Groundwater	ION SCAN			01/11/2018

Client: Environmental Management Associates, LLC
Project Name: Southern States
Workorder: 1801848

ANALYTICAL QC SUMMARY REPORT

BatchID: 254298

Sample ID: **MB-254298**	Client ID:			Units: **ug/L**	Prep Date: **01/16/2018**	Run No: **361055**
SampleType: **MBLK**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **254298**	Analysis Date: **01/16/2018**	Seq No: **7971797**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	BRL	9.0									
Ethylene	BRL	7.0									
Methane	BRL	4.0									

Sample ID: **LCS-254298**	Client ID:			Units: **ug/L**	Prep Date: **01/16/2018**	Run No: **361055**
SampleType: **LCS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **254298**	Analysis Date: **01/16/2018**	Seq No: **7971799**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	102.2	9.0	200.0		51.1	40.1	115				
Ethylene	69.48	7.0	200.0		34.7	26.3	115				
Methane	115.5	4.0	200.0		57.8	45.1	115				

Sample ID: **LCSD-254298**	Client ID:			Units: **ug/L**	Prep Date: **01/16/2018**	Run No: **361055**
SampleType: **LCSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **254298**	Analysis Date: **01/16/2018**	Seq No: **7971801**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	95.89	9.0	200.0		47.9	40.1	115	102.2	6.35	20	
Ethylene	65.08	7.0	200.0		32.5	26.3	115	69.48	6.53	20	
Methane	108.8	4.0	200.0		54.4	45.1	115	115.5	6.02	20	

Sample ID: **1801848-005BMS**	Client ID: **MW-19**			Units: **ug/L**	Prep Date: **01/16/2018**	Run No: **361055**
SampleType: **MS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **254298**	Analysis Date: **01/16/2018**	Seq No: **7971839**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	95.56	9.0	200.0		47.8	34.7	115				
Ethylene	62.75	7.0	200.0		31.4	27.3	115				
Methane	105.5	4.0	200.0		52.8	42	115				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Management Associates, LLC
Project Name: Southern States
Workorder: 1801848

ANALYTICAL QC SUMMARY REPORT

BatchID: 254298

Sample ID: **1801848-005BMSD**	Client ID: **MW-19**	Units: **ug/L**	Prep Date: **01/16/2018**	Run No: **361055**
SampleType: **MSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**	BatchID: **254298**	Analysis Date: **01/16/2018**	Seq No: **7971840**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	92.08	9.0	200.0		46.0	34.7	115	95.56	3.72	20	
Ethylene	60.05	7.0	200.0		30.0	27.3	115	62.75	4.41	20	
Methane	101.5	4.0	200.0		50.7	42	115	105.5	3.91	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Management Associates, LLC
Project Name: Southern States
Workorder: 1801848

ANALYTICAL QC SUMMARY REPORT

BatchID: 254344

Sample ID: **MB-254344**	Client ID:			Units: **mg/L**	Prep Date: **01/16/2018**	Run No: **361071**
SampleType: **MBLK**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **254344**	Analysis Date: **01/16/2018**	Seq No: **7972261**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	BRL	2.00									

Sample ID: **LCS-254344**	Client ID:			Units: **mg/L**	Prep Date: **01/16/2018**	Run No: **361071**
SampleType: **LCS**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **254344**	Analysis Date: **01/16/2018**	Seq No: **7972262**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	368.0	2.00	368.0		100	70	130				

Sample ID: **1801848-001CMS**	Client ID: **MW-9**			Units: **mg/L**	Prep Date: **01/16/2018**	Run No: **361071**
SampleType: **MS**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **254344**	Analysis Date: **01/16/2018**	Seq No: **7972282**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	18.20	2.00	18.40		98.9	62.8	125				

Sample ID: **1801848-001CMSD**	Client ID: **MW-9**			Units: **mg/L**	Prep Date: **01/16/2018**	Run No: **361071**
SampleType: **MSD**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **254344**	Analysis Date: **01/16/2018**	Seq No: **7972283**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	17.80	2.00	18.40		96.7	62.8	125	18.20	2.22	20	

Sample ID: **1801890-030FDUP**	Client ID:			Units: **mg/L**	Prep Date: **01/17/2018**	Run No: **361071**
SampleType: **DUP**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **254344**	Analysis Date: **01/17/2018**	Seq No: **7972284**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	BRL	2.00						0	0	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Management Associates, LLC
Project Name: Southern States
Workorder: 1801848

ANALYTICAL QC SUMMARY REPORT

BatchID: 254344

Sample ID: **1801890-031FDUP**	Client ID:				Units: **mg/L**		Prep Date: **01/17/2018**		Run No: **361071**		
SampleType: **DUP**	TestCode: **Sulfide by SW9030B/9034**				BatchID: **254344**		Analysis Date: **01/17/2018**		Seq No: **7972285**		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	BRL	2.00						0	0	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Management Associates, LLC
Project Name: Southern States
Workorder: 1801848

ANALYTICAL QC SUMMARY REPORT

BatchID: 254346

Sample ID: **MB-254346** Client ID: Units: **ug/L** Prep Date: **01/16/2018** Run No: **361038**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **254346** Analysis Date: **01/16/2018** Seq No: **7972479**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloroethene, Total	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
1,4-Dioxane	BRL	150									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Management Associates, LLC
Project Name: Southern States
Workorder: 1801848

ANALYTICAL QC SUMMARY REPORT

BatchID: 254346

Sample ID: **MB-254346** Client ID: Units: **ug/L** Prep Date: **01/16/2018** Run No: **361038**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **254346** Analysis Date: **01/16/2018** Seq No: **7972479**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	45.50	0	50.00		91.0	68	127				
Surr: Dibromofluoromethane	53.00	0	50.00		106	84.4	122				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Management Associates, LLC
Project Name: Southern States
Workorder: 1801848

ANALYTICAL QC SUMMARY REPORT

BatchID: 254346

Sample ID: **MB-254346**	Client ID:		Units: **ug/L**	Prep Date: **01/16/2018**	Run No: **361038**
SampleType: **MBLK**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **254346**	Analysis Date: **01/16/2018**	Seq No: **7972479**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: Toluene-d8	51.23	0	50.00		102	80.1	116				

Sample ID: **LCS-254346**	Client ID:		Units: **ug/L**	Prep Date: **01/16/2018**	Run No: **361038**
SampleType: **LCS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **254346**	Analysis Date: **01/16/2018**	Seq No: **7972478**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	56.44	5.0	50.00		113	69	136				
Benzene	49.48	5.0	50.00		99.0	73.7	126				
Chlorobenzene	47.96	5.0	50.00		95.9	73.5	124				
Toluene	50.62	5.0	50.00		101	76.8	125				
Trichloroethene	46.36	5.0	50.00		92.7	70.9	124				
Surr: 4-Bromofluorobenzene	48.95	0	50.00		97.9	68	127				
Surr: Dibromofluoromethane	51.97	0	50.00		104	84.4	122				
Surr: Toluene-d8	51.25	0	50.00		102	80.1	116				

Sample ID: **1801848-013AMS**	Client ID: **MW-39**		Units: **ug/L**	Prep Date: **01/16/2018**	Run No: **361038**
SampleType: **MS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **254346**	Analysis Date: **01/16/2018**	Seq No: **7972483**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	2996	250	2500		120	65.7	143				
Benzene	2587	250	2500		103	66.1	137				
Chlorobenzene	2434	250	2500		97.4	70.9	132				
Toluene	2512	250	2500		100	63.8	141				
Trichloroethene	8934	250	2500	5770	127	70.6	128				
Surr: 4-Bromofluorobenzene	2303	0	2500		92.1	68	127				
Surr: Dibromofluoromethane	2649	0	2500		106	84.4	122				
Surr: Toluene-d8	2550	0	2500		102	80.1	116				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Management Associates, LLC
Project Name: Southern States
Workorder: 1801848

ANALYTICAL QC SUMMARY REPORT

BatchID: 254346

Sample ID: **1801848-013AMSD** Client ID: **MW-39** Units: **ug/L** Prep Date: **01/16/2018** Run No: **361038**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **254346** Analysis Date: **01/16/2018** Seq No: **7972484**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	2656	250	2500		106	65.7	143	2996	12.0	17.7	
Benzene	2422	250	2500		96.9	66.1	137	2587	6.57	20	
Chlorobenzene	2382	250	2500		95.3	70.9	132	2434	2.20	20	
Toluene	2451	250	2500		98.0	63.8	141	2512	2.48	20	
Trichloroethene	8280	250	2500	5770	100	70.6	128	8934	7.60	20	
Surr: 4-Bromofluorobenzene	2314	0	2500		92.5	68	127	2303	0	0	
Surr: Dibromofluoromethane	2646	0	2500		106	84.4	122	2649	0	0	
Surr: Toluene-d8	2496	0	2500		99.8	80.1	116	2550	0	0	

Client: Environmental Management Associates, LLC
Project Name: Southern States
Workorder: 1801848

ANALYTICAL QC SUMMARY REPORT

BatchID: R360779

Sample ID: **MB-R360779**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **360779**	
SampleType: **MBLK**	TestCode: **Ferrous Iron**					BatchID: **R360779**		Analysis Date: **01/11/2018**		Seq No: **7965254**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	BRL	0.100									

Sample ID: **LCS-R360779**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **360779**	
SampleType: **LCS**	TestCode: **Ferrous Iron**					BatchID: **R360779**		Analysis Date: **01/11/2018**		Seq No: **7965255**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.4950	0.100	0.5000		99.0	85	115				

Sample ID: **1801848-001DMS**	Client ID: **MW-9**					Units: **mg/L**		Prep Date:		Run No: **360779**	
SampleType: **MS**	TestCode: **Ferrous Iron**					BatchID: **R360779**		Analysis Date: **01/11/2018**		Seq No: **7973169**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5000	0.100	0.5000		100	80	120				H

Sample ID: **1801848-001DMSD**	Client ID: **MW-9**					Units: **mg/L**		Prep Date:		Run No: **360779**	
SampleType: **MSD**	TestCode: **Ferrous Iron**					BatchID: **R360779**		Analysis Date: **01/11/2018**		Seq No: **7973170**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.4810	0.100	0.5000		96.2	80	120	0.5000	3.87	30	H

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Management Associates, LLC
Project Name: Southern States
Workorder: 1801848

ANALYTICAL QC SUMMARY REPORT

BatchID: R360821

Sample ID: **MB-R360821**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **360821**
SampleType: **MBLK**	TestCode: **ION SCAN SW9056A**			BatchID: **R360821**	Analysis Date: **01/11/2018**		Seq No: **7966506**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	1.0									
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R360821**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **360821**
SampleType: **LCS**	TestCode: **ION SCAN SW9056A**			BatchID: **R360821**	Analysis Date: **01/11/2018**		Seq No: **7966505**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.873	1.0	10.00		98.7	90	110				
Nitrate	4.850	0.25	5.000		97.0	90	110				
Sulfate	24.17	1.0	25.00		96.7	90	110				

Sample ID: **1801744-001AMS**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **360821**
SampleType: **MS**	TestCode: **ION SCAN SW9056A**			BatchID: **R360821**	Analysis Date: **01/11/2018**		Seq No: **7966509**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	123.2	10	100.0	23.39	99.8	90	110				
Nitrate	72.18	2.5	50.00	17.70	109	90	110				
Sulfate	264.5	10	250.0	13.66	100	90	110				

Sample ID: **1801848-016DMS**	Client ID: **TP-1**			Units: **mg/L**	Prep Date:		Run No: **360821**
SampleType: **MS**	TestCode: **ION SCAN SW9056A**			BatchID: **R360821**	Analysis Date: **01/11/2018**		Seq No: **7966531**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	57.99	1.0	25.00	35.42	90.2	90	110				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Management Associates, LLC
Project Name: Southern States
Workorder: 1801848

ANALYTICAL QC SUMMARY REPORT

BatchID: R360821

Sample ID: **1801848-016DMS**	Client ID: **TP-1**	Units: **mg/L**	Prep Date:	Run No: **360821**
SampleType: **MS**	TestCode: **ION SCAN SW9056A**	BatchID: **R360821**	Analysis Date: **01/11/2018**	Seq No: **7966536**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	52.44	10	10.00	46.89	55.4	90	110				S
Nitrate	17.55	2.5	5.000	13.14	88.3	90	110				S

Sample ID: **1801744-001AMSD**	Client ID:	Units: **mg/L**	Prep Date:	Run No: **360821**
SampleType: **MSD**	TestCode: **ION SCAN SW9056A**	BatchID: **R360821**	Analysis Date: **01/11/2018**	Seq No: **7966510**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	123.0	10	100.0	23.39	99.6	90	110	123.2	0.166	20	
Nitrate	72.14	2.5	50.00	17.70	109	90	110	72.18	0.065	20	
Sulfate	264.6	10	250.0	13.66	100	90	110	264.5	0.024	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Management Associates, LLC
Project Name: Southern States
Workorder: 1801848

ANALYTICAL QC SUMMARY REPORT

BatchID: R360860

Sample ID: **MB-R360860** Client ID: Units: **mg/L** Prep Date: Run No: **360860**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R360860** Analysis Date: **01/11/2018** Seq No: **7967068**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	1.0									
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R360860** Client ID: Units: **mg/L** Prep Date: Run No: **360860**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R360860** Analysis Date: **01/11/2018** Seq No: **7967067**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.382	1.0	10.00		93.8	90	110				
Nitrate	4.721	0.25	5.000		94.4	90	110				
Sulfate	24.06	1.0	25.00		96.2	90	110				

Sample ID: **1801848-001DMS** Client ID: **MW-9** Units: **mg/L** Prep Date: Run No: **360860**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R360860** Analysis Date: **01/11/2018** Seq No: **7967087**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	32.89	1.0	10.00	21.32	116	90	110				S
Nitrate	7.167	0.25	5.000	1.222	119	90	110				S
Sulfate	32.54	1.0	25.00	4.849	111	90	110				S

Sample ID: **1801848-001DMSD** Client ID: **MW-9** Units: **mg/L** Prep Date: Run No: **360860**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R360860** Analysis Date: **01/11/2018** Seq No: **7967088**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	29.51	1.0	10.00	21.32	81.8	90	110	32.89	10.8	20	S
Nitrate	7.113	0.25	5.000	1.222	118	90	110	7.167	0.757	20	S
Sulfate	32.50	1.0	25.00	4.849	111	90	110	32.54	0.117	20	S

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Management Associates, LLC
Project Name: Southern States
Workorder: 1801848

ANALYTICAL QC SUMMARY REPORT

BatchID: R360938

Sample ID: **MB-R360938**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **360938**	
SampleType: **MBLK**	TestCode: **Alkalinity by SM2320B**				BatchID: **R360938**		Analysis Date: **01/15/2018**		Seq No: **7968795**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	BRL	3.00									

Sample ID: **LCS-R360938**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **360938**	
SampleType: **LCS**	TestCode: **Alkalinity by SM2320B**				BatchID: **R360938**		Analysis Date: **01/15/2018**		Seq No: **7968796**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	123.0	3.00	125.0		98.4	75	125				

Sample ID: **1801553-001ADUP**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **360938**	
SampleType: **DUP**	TestCode: **Alkalinity by SM2320B**				BatchID: **R360938**		Analysis Date: **01/15/2018**		Seq No: **7968822**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	175.0	15.0						200.0	13.3	30	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Management Associates, LLC
Project Name: Southern States
Workorder: 1801848

ANALYTICAL QC SUMMARY REPORT

BatchID: R361110

Sample ID: **MB-R361110**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **361110**	
SampleType: **MBLK**	TestCode: **Ferrous Iron**					BatchID: **R361110**		Analysis Date: **01/12/2018**		Seq No: **7973287**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	BRL	0.100									

Sample ID: **LCS-R361110**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **361110**	
SampleType: **LCS**	TestCode: **Ferrous Iron**					BatchID: **R361110**		Analysis Date: **01/12/2018**		Seq No: **7973288**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.4950	0.100	0.5000		99.0	85	115				

Sample ID: **1801848-017EMS**	Client ID: **TP-2**					Units: **mg/L**		Prep Date:		Run No: **361110**	
SampleType: **MS**	TestCode: **Ferrous Iron**					BatchID: **R361110**		Analysis Date: **01/12/2018**		Seq No: **7973297**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5990	0.100	0.5000	0.05700	108	80	120				H

Sample ID: **1801848-017EMSD**	Client ID: **TP-2**					Units: **mg/L**		Prep Date:		Run No: **361110**	
SampleType: **MSD**	TestCode: **Ferrous Iron**					BatchID: **R361110**		Analysis Date: **01/12/2018**		Seq No: **7973298**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5880	0.100	0.5000	0.05700	106	80	120	0.5990	1.85	30	H

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Management Associates, LLC
Project Name: Southern States
Workorder: 1801848

ANALYTICAL QC SUMMARY REPORT

BatchID: R361184

Sample ID: **MB-R361184**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **361184**	
SampleType: **MBLK**	TestCode: **Alkalinity by SM2320B**				BatchID: **R361184**		Analysis Date: **01/18/2018**		Seq No: **7975047**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	BRL	3.00									

Sample ID: **MB-R361184**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **361184**	
SampleType: **MBLK**	TestCode: **CARBON DIOXIDE**	**SM4500-CO2**			BatchID: **R361184**		Analysis Date: **01/18/2018**		Seq No: **7975594**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Total Carbon Dioxide	BRL	10.0									

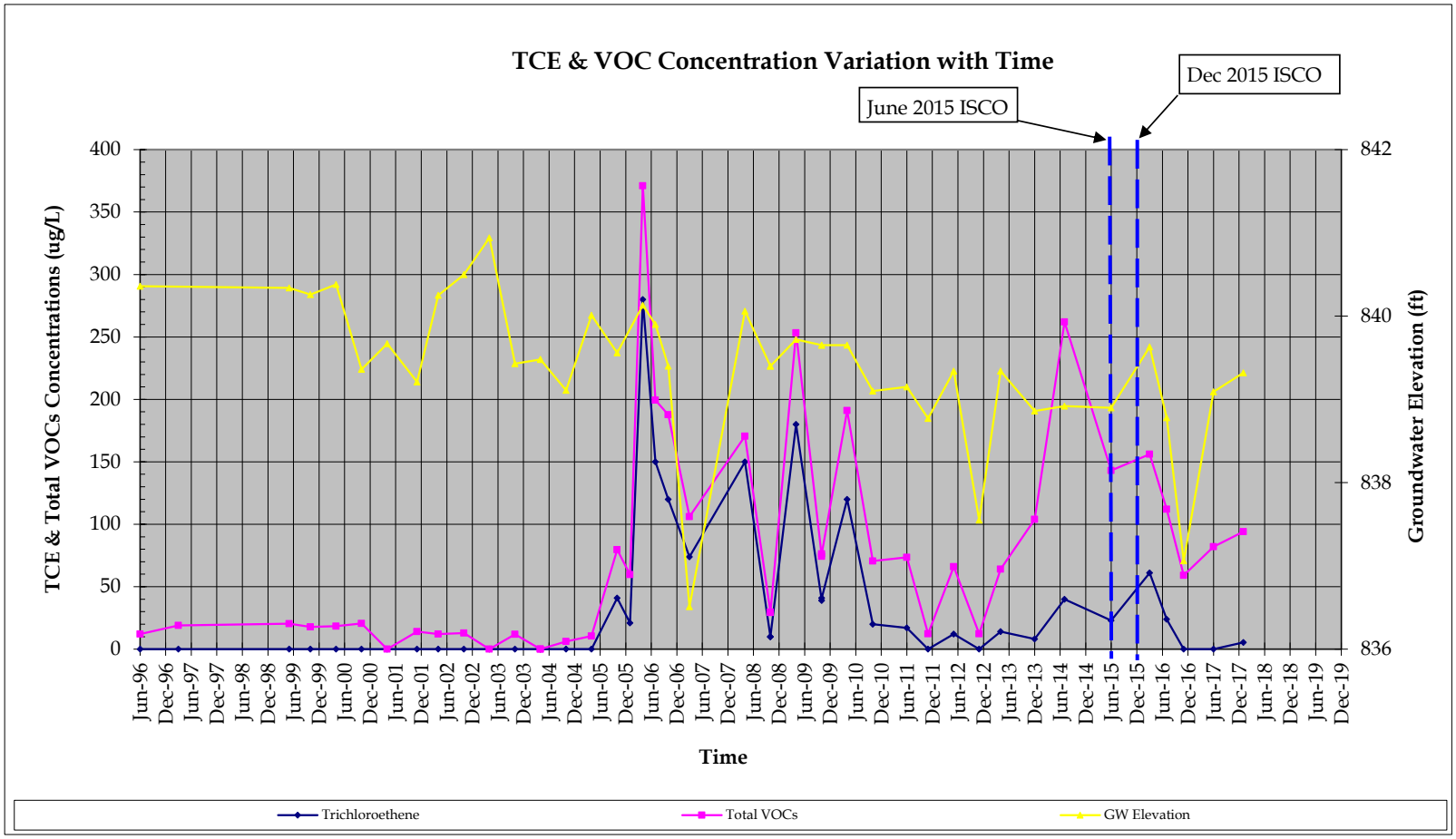
Sample ID: **LCS-R361184**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **361184**	
SampleType: **LCS**	TestCode: **Alkalinity by SM2320B**				BatchID: **R361184**		Analysis Date: **01/18/2018**		Seq No: **7975048**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	123.0	3.00	125.0		98.4	75	125				

Sample ID: **1801848-013EDUP**	Client ID: **MW-39**				Units: **mg/L**		Prep Date:		Run No: **361184**	
SampleType: **DUP**	TestCode: **Alkalinity by SM2320B**				BatchID: **R361184**		Analysis Date: **01/18/2018**		Seq No: **7975054**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	18.00	3.00						18.00	0	30	

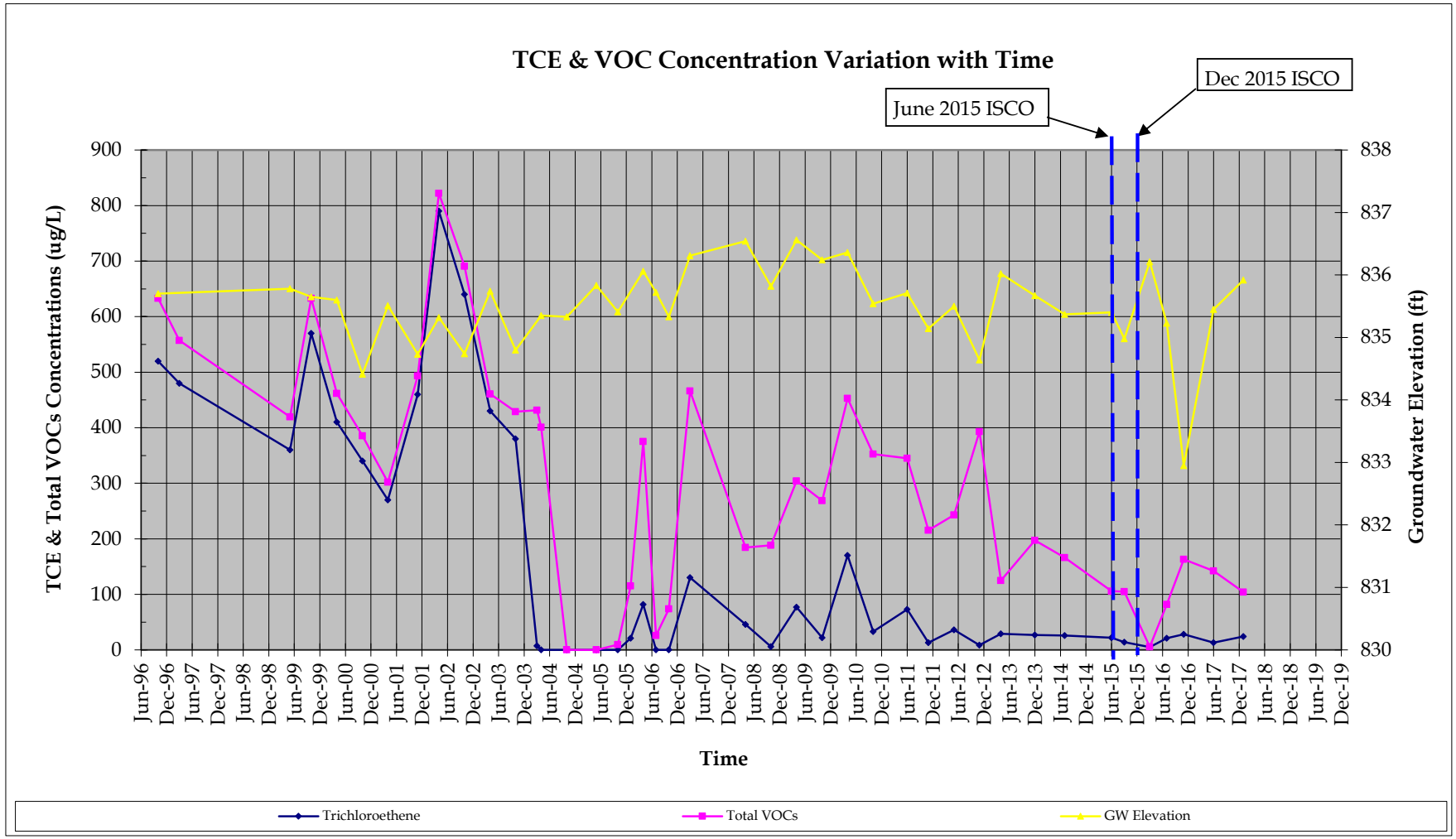
Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

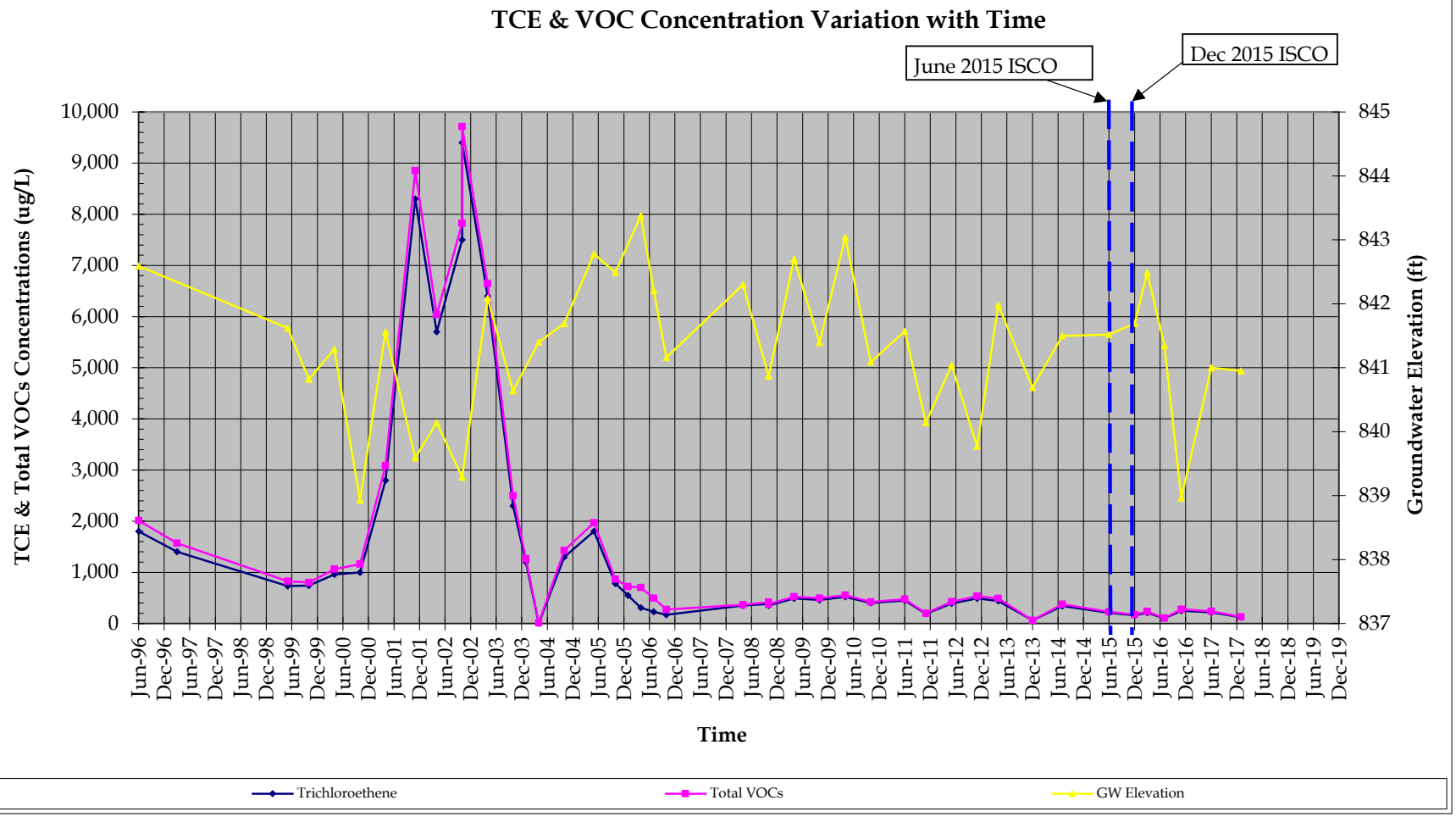
APPENDIX B
TOTAL VOC TREND GRAPHS FOR SELECT PERFORMANCE MONITORING WELLS



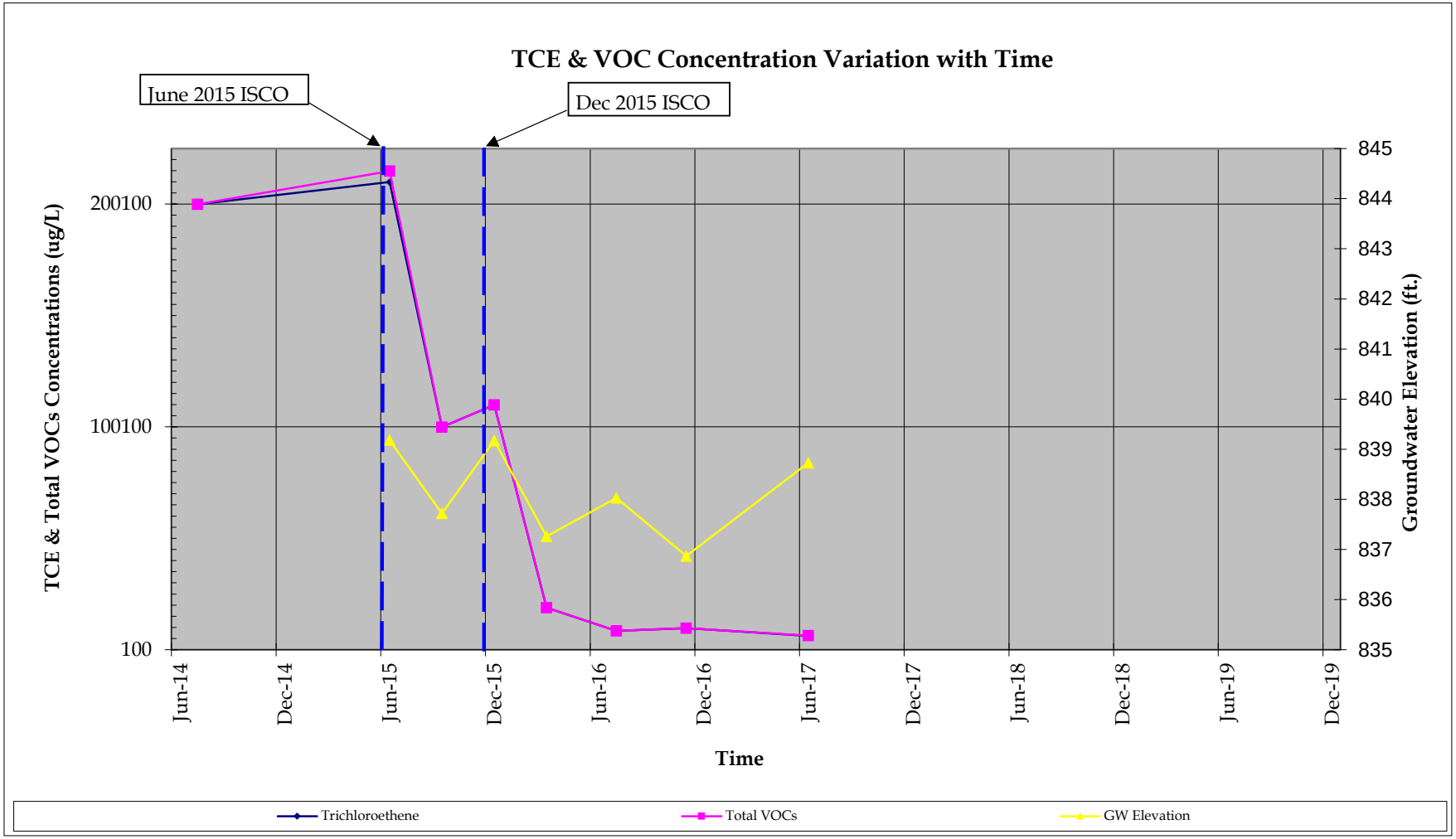
ORGANIC CONCENTRATIONS AT MW-13
OVERBURDEN MONITORING WELL
SOUTHERN STATES, LLC
Hampton, Georgia



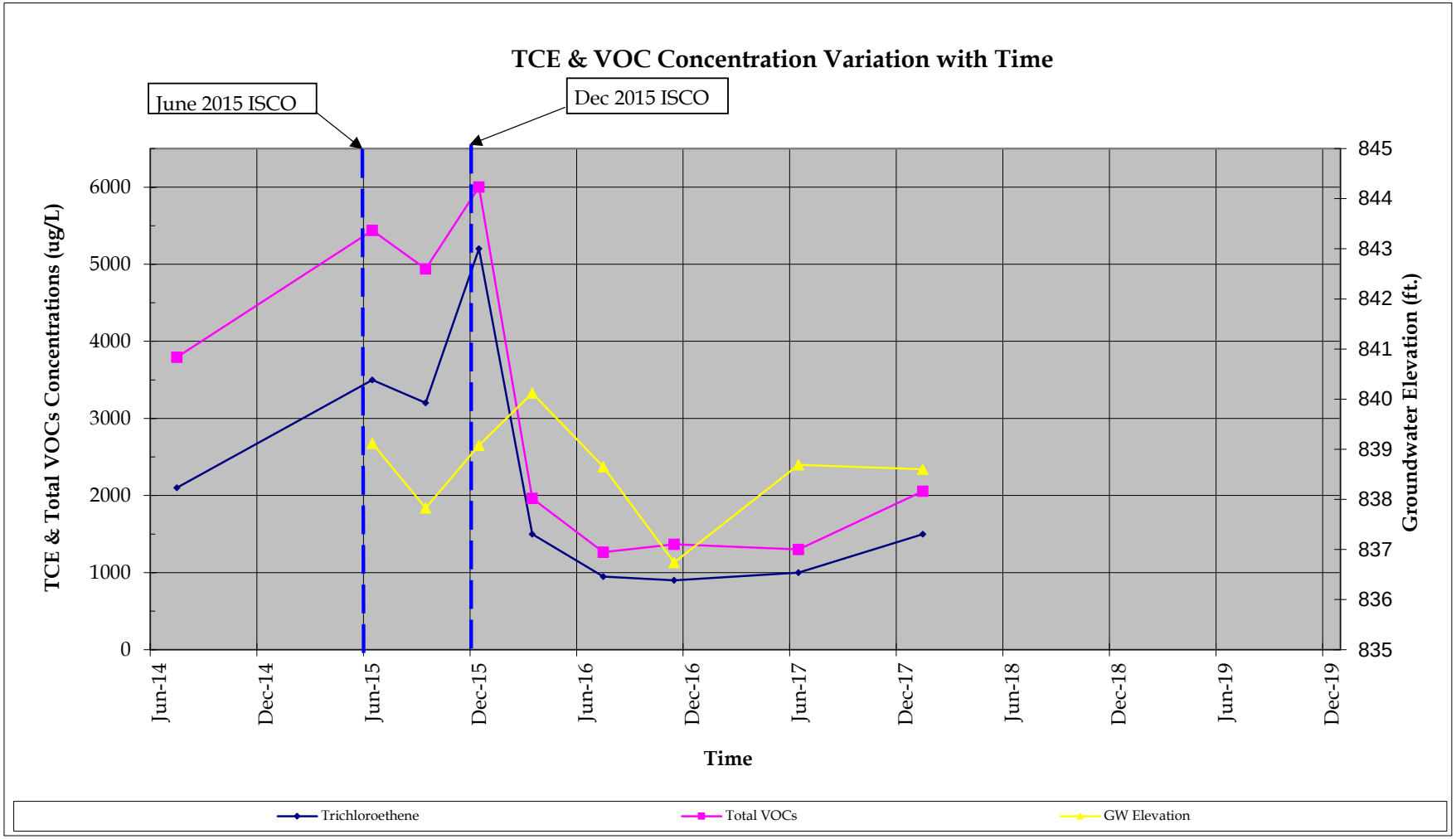
ORGANIC CONCENTRATIONS AT MW-18
OVERBURDEN MONITORING WELL
SOUTHERN STATES, LLC
Hampton, Georgia



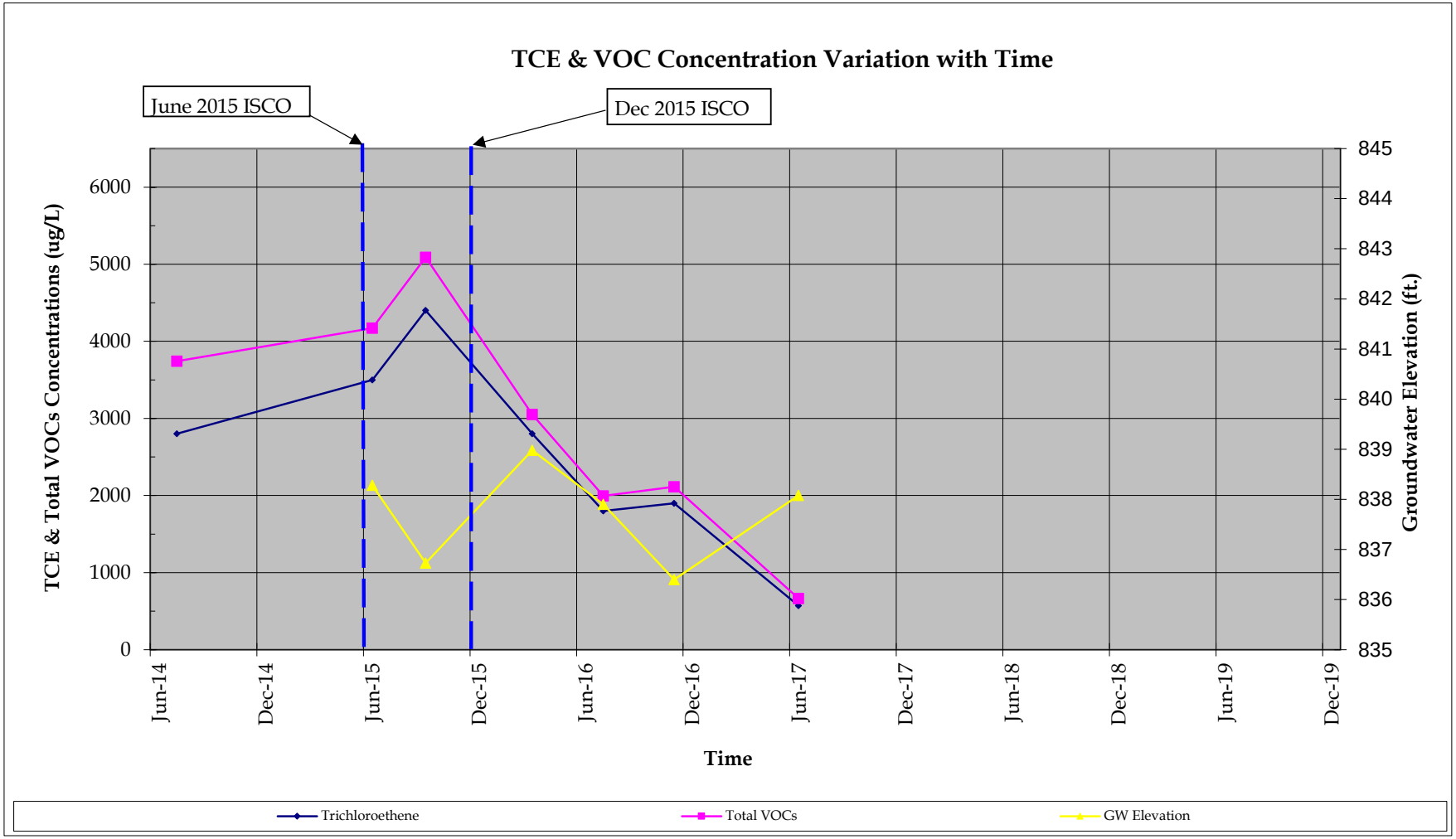
ORGANIC CONCENTRATIONS AT MW-21
OVERBURDEN MONITORING WELL
SOUTHERN STATES, LLC
Hampton, Georgia



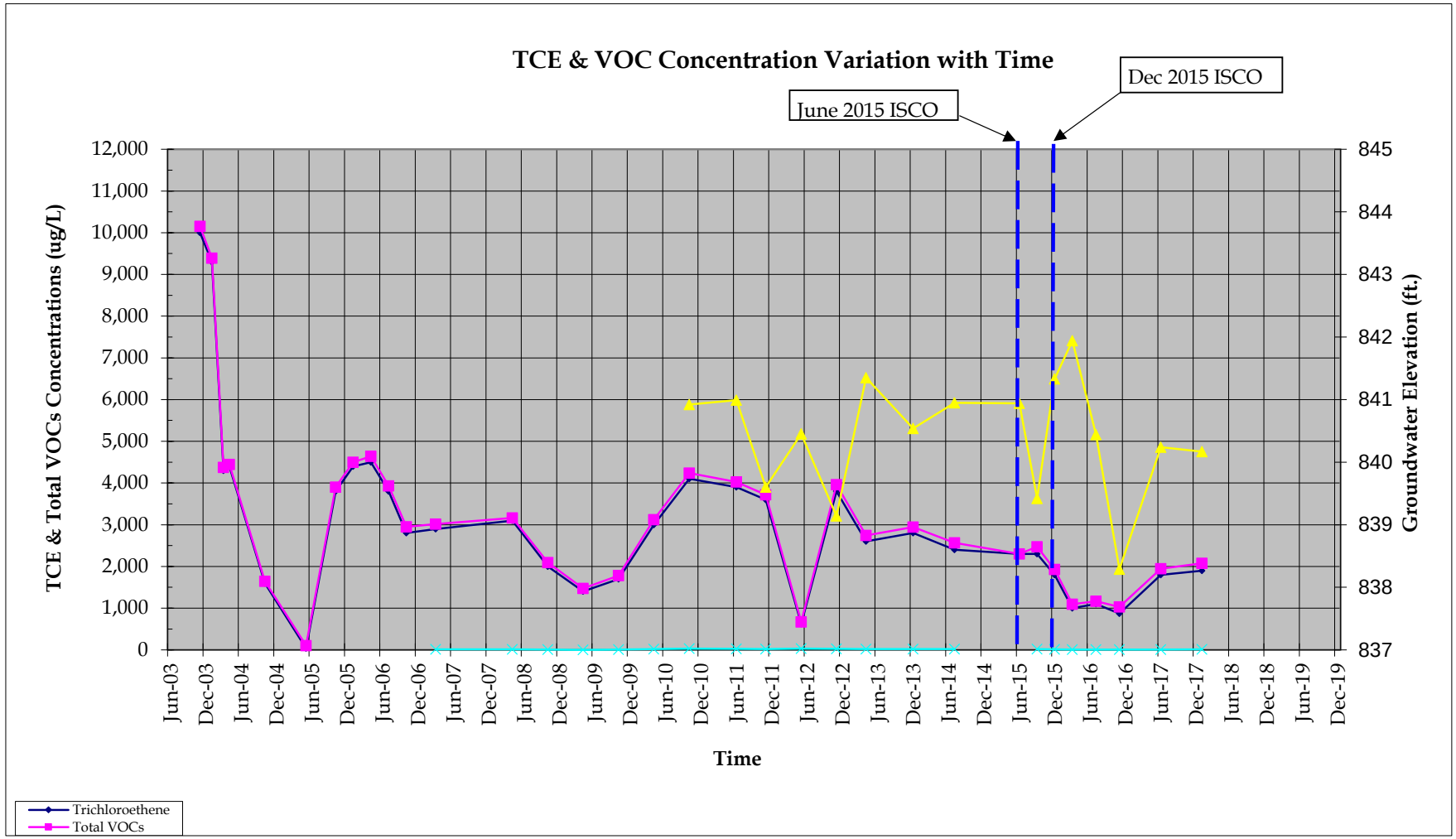
ORGANIC CONCENTRATIONS AT MW-39
OVERBURDEN MONITORING WELL
SOUTHERN STATES, LLC
Hampton, Georgia



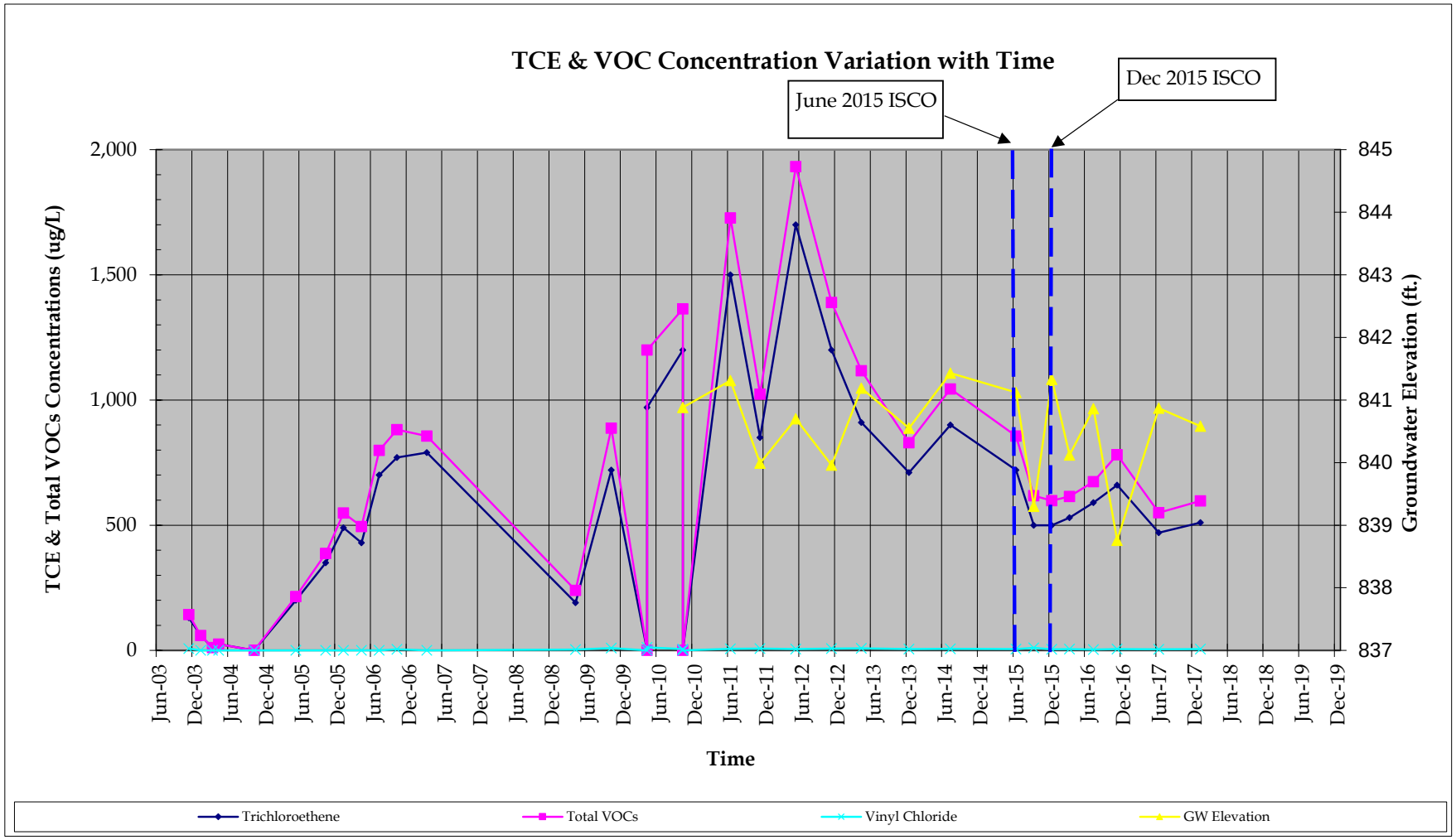
ORGANIC CONCENTRATIONS AT MW-40
OVERBURDEN MONITORING WELL
SOUTHERN STATES, LLC
Hampton, Georgia



ORGANIC CONCENTRATIONS AT MW-41
OVERBURDEN MONITORING WELL
SOUTHERN STATES, LLC
Hampton, Georgia



ORGANIC CONCENTRATIONS AT TP-1
OVERBURDEN MONITORING WELL
SOUTHERN STATES, LLC
Hampton, Georgia



ORGANIC CONCENTRATIONS AT TP-2
OVERBURDEN MONITORING WELL
SOUTHERN STATES, LLC
Hampton, Georgia

APPENDIX C

UPDATED MILESTONE SCHEDULE

MILESTONE SCHEDULE
SOUTHERN STATES, LLC
30 GEORGIA AVENUE
HAMPTON, GEORGIA

First Year - 2015

	April 2015				May 2015				June 2015				July 2015				August 2015				September 2015				October 2015				November 2015				December 2015				January 2016				February 2016				March 2016			
Month After Enrollment	0				1				2				3				4				5				6				7				8				9				10				11			
Corrective Action Activity	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*
VRPAP Approval		√																																														
ISCO injection (Dec 2015 / Jan 2016 - split event)																																															
Groundwater Sampling																																															
Semiannual Progress Report																										√																						

Second Year - 2016 / Third Year - 2017

	April 2016				May 2016				June 2016				July 2016				August 2016				September 2016				October 2016				November 2016				December 2016				January 2017				February 2017				March 2017			
Month After Enrollment	12				13				14				15				16				17				18				19				20				21				22				23			
Corrective Action Activity	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*
Semi-Annual Groundwater Sampling																																																
Groundwater Modeling /Cleanup goals																																																
Semiannual Progress Reports		√																								√																						

Third Year - 2017 / Fourth Year - 2018

	April 2017				May 2017				June 2017				July 2017				August 2017				September 2017				October 2017				November 2017				December 2017				January 2018				February 2018				March 2018			
Month After Enrollment	24				25				26				27				28				29				30				31				32				33				34				35			
Corrective Action Activity	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*
Semi-Annual Groundwater Sampling (MNA)																																																
Updated CSM		√																																														
Ecological Risk Assessment Report																																																
Limited Soil Removal (SED-3 & SED-4 location)																																																
Limited Capping																																																
Semiannual Progress Reports		√																								√																						

Fourth Year - 2018 / Fifth Year - 2019

	April 2018				May 2018				June 2018				July 2018				August 2018				September 2018				October 2018				November 2018				December 2018				January 2019				February 2019				March 2019			
Month After Enrollment	36				37				38				39				40				41				42				43				44				45				46				47			
Corrective Action Activity	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*
Semi-Annual Groundwater Sampling (MNA)																																																
Updated CSM																																																
Ecological Risk Assessment Report																																																
Limited Soil Removal (SED-3 & SED-4 location)																																																
Limited Capping																																																
Semiannual Progress Reports		√																								√																						
Voluntary Compliance Status Report*																																																

* - A VCSR will be submitted within 60 months of enrollment or May 2021.

PG OVERSIGHT SUMMARY
SOUTHERN STATES, LLC
HAMPTON, GEORGIA

	Units	Unit Cost	
PG Summary Time	Hours	$140	Sub-total
10/16/17 – 10/31/17	0	$140	$0
11/1/17 - 11/30/17	0	$140	$0
12/1/17 - 12/31/17	0	$140	$0
1/1/18 - 1/31/18	30	$140	$4,200
2/1/18 - 2/28/18	0	$140	$0
3/1/18 – 3/31/18	10	$140	$1,400
4/1/18 – 4/15/18	25	$140	$3,500