

**Corrective Measures Effectiveness Report
November 2019 to May 2020 Monitoring Events
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly
Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

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TABLE OF CONTENTS

LIST OF TABLES II

LIST OF FIGURES II

LIST OF APPENDICES II

LIST OF ACRONYMS III

EXECUTIVE SUMMARY 1

1.0 INTRODUCTION..... 1-1

 1.1 REPORT ORGANIZATION 1-1

2.0 SITE CHARACTERIZATION 2-1

 2.1 SITE DESCRIPTION AND PHYSICAL SETTING SUMMARY 2-1

 2.2 LAND USE AND LAND USE CONTROLS 2-1

 2.3 SUMMARY OF PREVIOUS INVESTIGATIONS 2-2

 2.4 CORRECTIVE MEASURES 2-2

3.0 SUMMARY OF ACTIVITIES 3-1

 3.1 GROUNDWATER SAMPLING 3-2

 3.2 MANAGEMENT OF INVESTIGATION DERIVED WASTE 3-2

 3.3 DATA QUALITY REVIEW 3-3

4.0 RESULTS FROM REPORTING PERIOD 4-1

 4.1 GROUNDWATER SAMPLING 4-1

 4.1.1 Groundwater Levels 4-1

 4.1.2 Groundwater Field Parameter Results 4-2

 4.1.3 Analytical Data and Data Quality Review 4-2

 4.1.4 Summary of Groundwater Analytical Results 4-2

 4.2 DISTRIBUTION OF CORRECTIVE ACTION COCs IN GROUNDWATER 4-2

5.0 SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS 5-1

 5.1 SUMMARY OF ACTIVITIES 5-1

 5.2 SUMMARY OF RESULTS 5-1

 5.3 CONCLUSIONS AND RECOMMENDATIONS 5-1

6.0 REFERENCES..... 6-1

LIST OF TABLES

- 3-1 Groundwater Monitoring Summary, November 2019 to May 2020
- 4-1 Groundwater Elevations, November 2019 to May 2020
- 4-2 Horizontal Hydraulic Gradients, November 2019
- 4-3 Vertical Hydraulic Gradients, November 2019
- 4-4 Groundwater Field Parameters, November 2019 to May 2020
- 4-5 On-Site Groundwater Analytical Results for Corrective Action COCs
- 4-6 Off-Site Groundwater Analytical Results for Corrective Action COCs

LIST OF FIGURES

- 1 Parcel Location Map
- 2 Well Location Map
- 3 November 2019 Potentiometric Map for the Residuum and Transition Wells
- 4 November 2019 Potentiometric Map for the Bedrock and Deep Bedrock Wells
- 5 May 2020 Potentiometric Map for the Residuum and Transition Wells
- 6 May 2020 Potentiometric Map for the Residuum and Transition Wells
- 7 Corrective Action COCs in On-Site Groundwater Wells
- 8 Corrective Action COCs in Off-Site Groundwater Wells

LIST OF APPENDICES

- Appendix A Groundwater Levels and Sample Collection Logs
- Appendix B Chain of Custody
- Appendix C Data Quality Summary
- Appendix D Analytical Data and Laboratory Reports

LIST OF ACRONYMS

1,1,2,2 – PCA	1,1,2,2 - Tetrachlorethane
1,1,2 – TCA	1,1,2 - Trichloroethane
ADEM	Alabama Department of Environmental Management
CA	Cleanup Agreement
Cis-1,2 – DCE	Cis-1,2 - Dichloroethene
CMER	Corrective Measures Effectiveness Report
CMIP	Corrective Measures Implementation Report
COC	Constituent of Concern
DHG	Dissolved Hydrocarbon Gas
DO	Dissolved oxygen
DQS	Data Quality Summary
EBS	Environmental Baseline Study
EE/CA	Engineering Evaluation and Cost Analysis
ESE	Environmental Science & Engineering, Inc.
EVO	Emulsified vegetable oil
FANWR	Fill Area Northwest of Reilly Airfield, Parcel 229(7)
Final RFI	Final Resource Conservation Recovery Act Facility Investigation Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly, Parcel 229(7) (MES, 2008)
FLUTe	Flexible Underground Technologies
GPS	Groundwater Protection Standard
IDW	Investigation Derived Waste
ISB	In situ bioremediation
IT	IT Corporation
LF3	Landfill 3, Parcel 80(6)
LUC	Land use control
McClellan	Former Fort McClellan
MCL	Maximum Contaminant Level
MDA	McClellan Development Authority
MES	Matrix Environmental Services, LLC
ORP	Oxidation-reduction potential
PERC	Tetrachloroethene
QA	Quality Assurance
QAP	Quality Assurance Plan
RBTL	Risk-Based Target Level
RCRA	Resource Conservation Recovery Act
RFI	RCRA Facility Investigation
RI	Remedial Investigation
SAIC	Science Applications International Corporation
SAP	Sampling and Analysis Plan
Shaw	Shaw Environmental, Inc.
SI	Site Investigation
Site	Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)

TCE	Trichloroethene
TDS	Total Dissolved Solids
TOC	Total Organic Carbon
UIC	Underground Injection Control
VC	Vinyl Chloride
VOC	Volatile Organic Compound

EXECUTIVE SUMMARY

This Corrective Measures Effectiveness Report (CMER) presents information regarding groundwater remediation at Landfill 3 (LF3), Parcel 80(6) and Fill Area Northwest of Reilly Airfield (FANWR), Parcel 229(7) (collectively referred to as the Site) located at the former Fort McClellan (McClellan) in Anniston, Alabama. Figure 1 shows a parcel location map of the Site. This report was prepared by Matrix Environmental Services, LLC (MES) on behalf of the McClellan Development Authority (MDA). The purpose of this CMER is to document the effectiveness of the remedial action for contaminated groundwater at the Site during the reporting period from November 2019 to May 2020.

Previous investigations at the Site identified 1,1,2,2-tetrachloroethane (1,1,2,2-PCA), 1,1,2-trichloroethane (1,1,2-TCA), tetrachloroethene (PERC), trichloroethene (TCE) and vinyl chloride (VC) as the primary corrective action constituents of concern (COCs) in groundwater requiring corrective measures. In situ bioremediation (ISB) was implemented from March 20 through May 23, 2017 for the remediation of the volatile organic compounds (VOCs) through a transect of 17 injection wells. The injected solutions included the following permitted amendments: (i) a custom formulation of SRS[®]-SD, an emulsified vegetable oil (EVO) product pre-mixed with the pH buffer sodium bicarbonate (i.e., baking soda); (ii) KB-1[®] Primer, a blend of amino acids, potassium bicarbonate, and sodium sulfite; (iii) KB-1[®] Plus (bioaugmentation culture [bacteria]); and (iv) potable water, in both aerobic and anaerobic states.

Semi-annual sampling was performed in November 2019 and May 2020 during this reporting period. To aid in assessing groundwater flow at the Site, horizontal and vertical hydraulic gradients were calculated and groundwater elevation maps with estimated potentiometric contours for November 2019 were constructed for the residuum zone, transition zone, fractured bedrock, and deep fractured bedrock. Groundwater elevation maps with estimated potentiometric contours for May 2020 were constructed for the transition zone, fractured bedrock, and deep fractured bedrock.

Groundwater samples were collected in November 2019 and May 2020 in select on-site and off-site residuum, transition, bedrock, and deep bedrock monitoring wells and analyzed for VOCs, dissolved hydrocarbon gases (DHGs), total organic carbon (TOC), and field parameters in accordance with the 2018 Corrective Measures Implementation Report (CMIR) which includes all the wells in the Cleanup Agreement. The analytical results for the primary COCs were compared to historical analytical results from previous sampling events and to groundwater protection standards (GPS). During this reporting period, three of the five COCs (1,1,2,2-PCA, TCE, VC) exceeded the GPS in off-site groundwater samples and four of the five COCs exceeded the GPS in the on-site groundwater samples (1,1,2,2-PCA, TCE, PERC, VC). No GPSs were exceeded in on-site wells OLF-G19, OLF-G72, OLF-G75, and PPMP-229-GP12 and off-site wells OLF-G18, OLF-G21, OLF-G24, OLF-G26, OLF-G31, OLF-G32, OLF-G35, OLF-G36, OLF-G47, OLF-G48, OLF-G49, OLF-G52 and OLF-G70.

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1.0 INTRODUCTION

This Corrective Measures Effectiveness Report (CMER) presents information regarding groundwater remediation at Landfill 3 (LF3), Parcel 80(6) and Fill Area Northwest of Reilly Airfield (FANWR), Parcel 229(7) (collectively referred to as the Site) located at the former Fort McClellan (McClellan) in Anniston, Alabama. Figure 1 shows a parcel location map of the Site. This report was prepared by Matrix Environmental Services, LLC (MES) on behalf of the McClellan Development Authority (MDA). The purpose of this CMER is to document the effectiveness of the remedial action for contaminated groundwater at the Site during the reporting period from November 2019 to May 2020.

1.1 Report Organization

This CMER is organized as follows:

- Section 1.0 - summarizes the project background, purpose of the CMER, and report organization
- Section 2.0 - presents a summary of the Site characterization
- Section 3.0 - describes the activities conducted during this reporting period
- Section 4.0 - presents the results during this reporting period
- Section 5.0 - presents the summary, conclusions, and recommendations
- Section 6.0 - provides the references cited in this report
- Tables that support the CMER
- Figures that support the CMER
- Appendix A contains the groundwater levels and sample collection logs
- Appendix B contains the chain-of-custody records
- Appendix C contains the data quality summary
- Appendix D contains the analytical data and laboratory reports

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2.0 SITE CHARACTERIZATION

This section summarizes the Site description and physical setting, land use, previous investigations, and corrective measures activities performed at the Site.

2.1 Site Description and Physical Setting Summary

LF3 and FANWR are located in the northwestern corner of McClellan just east of Alabama State Highway 21, approximately 4.5 miles north-northeast of central Anniston, Alabama; 1.3 miles east of central Weaver, Alabama; and 3.9 miles south-southwest of Jacksonville, Alabama. Land in the vicinity of LF3 and the FANWR is generally undeveloped, with limited residential and commercial land use clustered along Alabama State Highway 21.

LF3 is approximately 23 acres in size. The landfill is bounded by Alabama State Highway 21 to the west, Gobbler Road to the east, wooded areas and the boundary of McClellan to the north, and wetlands and Cave Creek to the south. LF3 served as the primary sanitary landfill at McClellan from 1946 to 1967. Reports indicate that landfill received residential/municipal refuse, industrial wastes (i.e., empty pesticide containers, paint containers, waste oil), and construction debris. The landfill is unlined and was constructed using trench/fill operations with waste placed in trenches to an average depth of 22 feet (ft).

FANWR is approximately 8 acres in size and is also located in the northwestern corner of McClellan, adjacent to the former Reilly Airfield and west-southwest of Reilly Lake. The northeastern boundary of FANWR is adjacent to small streams and forested wetlands that form the headwaters of Reilly Lake. FANWR was first identified from an aerial photograph taken in 1954. Disposal practices at the FANWR are not known. Wastes reportedly observed in the unit include paint containers, fluorescent bulbs and ballasts, waste oils, and construction debris. The maximum waste depth encountered during field investigation activities was 15 ft.

Both LF3 and FANWR were operated by the U.S. Army and closed prior to the existence of any Federal or State environmental regulations governing landfills. Neither LF3 or FANWR were closed with an engineered cap or cover system. To comply with the substantive intent of Federal and State environmental regulations for historical (i.e., legacy) landfills, an engineered cover was constructed at both locations (MES, 2010). This included the placement of a low permeability soil cover designed to minimize future direct exposure to wastes which were disposed of at each location, to promote drainage while controlling erosion, to minimize leaching of contaminants to groundwater, and to function with low maintenance requirements.

2.2 Land Use and Land Use Controls

Proposed future land use for the Site is categorized as industrial conservation district in accordance with City of Anniston McClellan, Overlay Redevelopment District, April 2012 prepared by The East Alabama Regional Planning and Development Commission.

Environmental Covenant Number FY11-01.00 filed in Calhoun County Probate on September 23, 2011 documents the land use control measures placed on FANWR to ensure there are no unacceptable risks to human health and the environment and to prevent exposure to

contaminants. Land use controls include: required maintenance and repair of the engineered cap; signs and monuments to outline the parcel boundary; prohibition of residential use, digging or excavation and installation of any well for extraction of groundwater for purposes of consumptive or other uses; and use of the property is restricted to surface use only.

2.3 Summary of Previous Investigations

Numerous investigations have been performed to evaluate site conditions at LF3 and FANWR. These investigations can be summarized as follows:

- 1993 Site Investigation at LF 3 (Science Applications International Corporation [SAIC])
- 1994 – 1995 Remedial Investigation (RI) by SAIC
- 1998 Environmental Baseline Study (EBS) performed by Environmental Science & Engineering, Inc. (ESE)
- 1999 FANWR SI by IT
- 2002 Fill Area Definition Investigations at LF3 and FANWR by IT
- 2002 Engineering Evaluation/Cost Analysis performed by IT
- 2001 – 2003 Phase I-III Supplemental RIs performed by Shaw Environmental, Inc. (Shaw)
- 2002 – 2006 miscellaneous wetland determinations, fill area delineation, and landfill gas investigation performed by Shaw, MES, and Geosyntec
- 2008 RCRA Facility Investigation (RFI) performed by MES
- 2008 Corrective Measures Implementation Plan (CMIP) and 2011 CMIP Addendum for Groundwater performed by MES and Geosyntec included pre-design investigations in preparation of the in situ bioremediation (ISB) remedy design
- 2018 Corrective Measures Implementation Report (CMIR) for Groundwater by MES and Geosyntec included additional pre-design investigations for the ISB design performed after the submission of the CMIP and CMIP Addendum

2.4 Corrective Measures

Based on the risk assessment performed in the *Final RFI* (MES, 2008), the primary corrective action constituents of concern (COCs) in groundwater are 1,1,2,2-tetrachloroethane (1,1,2,2-PCA), 1,1,2-trichloroethane (1,1,2-TCA), tetrachloroethene (PERC), trichloroethene (TCE) and vinyl chloride (VC). A secondary tier of ancillary COCs was also identified; these COCs play a minor role in groundwater risk levels and mitigation of these COCs is not expected to materially affect groundwater risk levels. Based on the data assessment presented in the *Final RFI* (MES, 2008), there were no complete surface water, sediment, or soil exposure pathways for the human or ecological receptors at the Site.

Groundwater in situ bioremediation (ISB) corrective measures was implemented between March and May 2017 for treatment of chlorinated VOCs in accordance with the Underground Injection Control (UIC) permit (ALSI9908665; dated January 27, 2017). A total volume of 437,710

gallons of amendment solutions were injected. The following amendments were injected into 17 injection wells: (i) a custom formulation of SRS[®]-SD, a food-grade, biodegradable emulsified vegetable oil (EVO) pre-mixed with pH buffer sodium bicarbonate (i.e., baking soda); (ii) KB-1[®] Primer a blend of amino acids, potassium bicarbonate, and sodium sulfite; (iii) KB-1[®] Plus (bioaugmentation culture [bacteria]); and (iv) potable water, in both aerobic and anaerobic states. Details of the corrective measures activities are documented in the *Corrective Measures Implementation Report (CMIR) For Groundwater, Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7) (CMIR)* (MES, 2018).

The goal of ISB is to create a biologically active zone in the immediate vicinity of the injection transect to promote favorable geochemical conditions to achieve the following corrective action objectives:

- protect downgradient groundwater in a residential scenario at the point of exposure well OLF-G52
- protect City of Weaver and City of Jacksonville drinking water supplies
- control ongoing contributions of solvent mass to the off-Site plume
- reduce solvent mass and plume footprint within the off-Site plume

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3.0 SUMMARY OF ACTIVITIES

This section describes the groundwater sampling activities performed during this reporting period. Table 3-1 summarizes the wells and analytes sampled.

**Table 3-1: Groundwater Monitoring Summary, November 2019 to May 2020
 Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
 McClellan, Anniston, Alabama**

Well ID	November 2019				May 2020			
	Field Parameters	VOCs	DHGs	TOC	Field Parameters	VOCs	DHGs	TOC
OLF-G07	x	x			x	x		
OLF-G12	x	x			x	x	x	
OLF-G18	x	x			x	x		
OLF-G19	x	x			x	x		
OLF-G20	x	x			x	x		
OLF-G21	x	x			x	x		
OLF-G22	x	x			x	x		
OLF-G23	x	x			x	x	x	
OLF-G24	x	x			x	x		
OLF-G26	x	x			x	x		
OLF-G31	x	x			x	x		
OLF-G32	x	x			x	x		
OLF-G35	x	x			x	x		
OLF-G36	x	x			x	x		
OLF-G42	x	x			x	x		
OLF-G43	x	x			x	x		
OLF-G47	x	x			x	x		
OLF-G48	x	x			x	x		
OLF-G49	x	x			x	x		
OLF-G50	x	x			x	x		
OLF-G51	x	x			x	x		
OLF-G52	x	x			x	x		
OLF-G70	x	x			x	x		
OLF-G71 Port 1	x	x			x	x		
OLF-G71 Port 2	x	x			x	x		
OLF-G71 Port 3	x	x			x	x		
OLF-G71 Port 4	x	x			x	x		
OLF-G71 Port 5	x	x			x	x		
OLF-G72 Port 1	x	x	x	x	x	x	x	x
OLF-G72 Port 2	x	x	x	x	x	x	x	x
OLF-G72 Port 3	x	x	x	x	x	x	x	x
OLF-G72 Port 4	x	x	x	x	x	x	x	x
OLF-G72 Port 5	x	x	x	x	x	x	x	x
OLF-G72 Port 6	x	x	x	x	x	x	x	x
OLF-G73 Port 1	x	x	x	x	x	x	x	x
OLF-G73 Port 2	x	x	x	x	x	x	x	x
OLF-G73 Port 3	x	x	x	x	x	x	x	x
OLF-G73 Port 4	x	x	x	x	x	x	x	x

OLF-G73 Port 5	x	x	x	x	x	x	x	x
OLF-G74 Port 1	x	x			x	x		x
OLF-G74 Port 2	x	x			x	x		x
OLF-G74 Port 3	x	x			x	x		x
OLF-G74 Port 4	x	x			x	x		x
OLF-G74 Port 5	x	x			x	x		x
OLF-G75 Screen 1	x	x			x	x		
OLF-G75 Screen 2	x	x			x	x		
OLF-G75 Screen 3	x	x			x	x		
OLF-G75 Screen 4	x	x			x	x		
OLF-G75 Screen 5	x	x			x	x		
OLF-G75 Screen 6	x	x			x	x		
OLF-G77	x	x	x	x	x	x	x	x
OLF-G78	x	x			x	x		
PPMP-229-GP12	x	x			x	x		

Note: OLF-G16 was dry in November 2019 and insufficient volume for sample in May 2020.

3.1 Groundwater Sampling

Figure 2 shows locations of the monitoring wells and injection wells at the Site. Before groundwater samples were collected, water levels were measured to the nearest hundredth of a foot using a Solinst™ water level indicator and recorded. Depth to water measurements at the multi-level (Flexible Liner Underground Technologies (FLUTE) wells were collected from within the sample tubing of each FLUTE port following the manufacture’s procedures using a narrow-diameter Solinst™ water level indicator and recorded.

Groundwater samples from conventional monitoring wells were collected using low-flow sampling procedures, i.e., using an adjustable rate pump to remove water from the screened interval at a rate that produces minimal drawdown, as well as turbidity in the sample. Teflon tubing leading from the discharge side of the submersible pump was connected to a flow-through cell equipped with either a YSI 556 Multiparameter Meter or YSI Professional Plus to measure chemical and physical parameters. These measurements were used to indicate when groundwater quality stabilized and sampling could begin. Groundwater samples from FLUTE wells were collected using inert nitrogen gas to purge water from the sample port following the manufacture’s procedures.

Chemical and physical field screening parameters included pH, conductivity, dissolved oxygen (DO), oxidation-reduction potential (ORP), total dissolved solids (TDS), turbidity, and temperature. Groundwater levels and volume of groundwater removed were also recorded. The monitoring well sample collection logs are provided in Appendix A.

Laboratory-supplied sample bottles were filled, labeled, placed in a chilled cooler, and shipped under chain-of-custody procedures to TestAmerica Laboratories, Inc. (TestAmerica). The chain-of-custody forms for the groundwater samples collected during the sampling events are provided in Appendix B.

3.2 Management of Investigation Derived Waste

Investigative derived waste (IDW) was managed as described in the *SAP* (MES, 2016). The aqueous IDW generated during the groundwater sampling was collected and containerized in a 55-gallon drum stored onsite.

3.3 Data Quality Review

MES reviewed the analytical data for the groundwater samples in accordance with the *Quality Assurance Plan (QAP)* (MES, 2005) to assess compliance with the Quality Assurance (QA) objectives, and to assess hard copy and electronic deliverable consistency and integrity. The Data Quality Summary (DQS) is included in Appendix C. The analytical data and laboratory reports are included in Appendix D.

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4.0 RESULTS FROM REPORTING PERIOD

This section discusses results from groundwater sampling conducted at the Site during the November 2019 – May 2020 reporting period. Two sampling events were conducted during this reporting period as designated in the CMIR (Table 7 – Performance and Monitoring Program) and met the requirements for monitoring as specified in the Cleanup Agreement (Table V.1).

4.1 Groundwater Sampling

This section discusses the results of the groundwater sampling events at the Site.

4.1.1 Groundwater Levels

Groundwater elevations measured in the residuum, transition, bedrock, and deep bedrock monitoring wells during the November 2019 and May 2020 groundwater sampling events are presented in Table 4-1. Groundwater elevation maps with estimated potentiometric contours for November 2019 and May 2020 for residuum zone, transition zone, fractured bedrock and deep fractured bedrock are presented in Figures 3 – 6.

Regional groundwater flow directions in residuum, transition, and bedrock zones typically follow topography, which at the Site generally slopes gently towards the north. The main geologic influence on local groundwater flow is the inferred fault located west of the Site that roughly parallels Alabama State Highway 21. Groundwater in the transition zone shows essentially uniform northwesterly flow towards the inferred splay fault. Groundwater within the fractured bedrock at the Site generally flows north-northwest toward the inferred fault then follows along the path of the fault toward the north-northeast. On the northwest side of the fault, local groundwater also flows toward the fault before following the fault toward the north-northeast.

To further aid in assessing groundwater flow at the Site, horizontal and vertical hydraulic gradients were calculated for November 2019 and are presented in Tables 4-2. The horizontal hydraulic gradients in November 2019 in the residuum, transition and bedrock zones ranged from 0.007 ft/ft to 0.033 ft/ft with the highest hydraulic gradients measured in the transition zone. The horizontal hydraulic gradients in May 2020 in the residuum, transition and bedrock zones ranged from 0.009 ft/ft to 0.047 ft/ft with the highest hydraulic gradients measured in the transition zone.

Vertical hydraulic gradients in November 2019 between the residuum, transition zone, and fractured bedrock ranged from -0.148 ft /ft to 0.193 ft/ft. The strongest upward vertical gradient (-0.148 ft/ft) was observed between bedrock well OLF-G69 and transition well OLF-G68. The strongest downward vertical gradient (0.193 ft/ft) was observed between residuum well OLF-G58 and transition well OLF-G68. The convergent vertical gradients may indicate that the transition zone has greater groundwater flow in this area, drawing groundwater from zones above and below the transitional geology. Vertical hydraulic gradients in May 2020 between the residuum, transition zone, and fractured bedrock ranged from -0.157 ft /ft to 0.199 ft/ft. The strongest upward vertical gradient (-0.157 ft/ft) was observed between bedrock well OLF-G47

and deep bedrock OLF-G48. The strongest downward vertical gradient (0.199 ft/ft) was observed between transition well OLF-G04 and bedrock well OLF-G42.

4.1.2 Groundwater Field Parameter Results

Measurements of field screening parameters, including pH, conductivity, DO, ORP, TDS, turbidity, and temperature, were used to indicate when groundwater quality had stabilized and sampling could begin during the November 2019 and May 2020 groundwater sampling events and are presented in Table 4-4.

4.1.3 Analytical Data and Data Quality Review

The analytical data and laboratory reports for the November 2019 and May 2020 sampling events are provided in Appendix D. Appendix C provides the DQS. MES reviewed the analytical data in accordance with the QAP (MES, 2005). Based on the data quality review, the analytical data generated for these monitoring events are adequate to fulfill program objectives and are suitable for preparation of this report. A more detailed discussion of the analytical results can be found in the DQS.

4.1.4 Summary of Groundwater Analytical Results

The primary COC analytical results for the November 2019 and May 2020 groundwater sampling events, along with historical analytical results from previous sampling events, for on-site and off-site wells are shown in Tables 4-5 and 4-6, respectively. The COC concentrations were compared to the groundwater protection standards (GPS). The GPS for on-site wells is the groundskeeper risk-based target level (RBTL) and in off-site wells is the residential RBTL, except in cases where the RBTL is less than the maximum contaminant level (MCL), the MCL is the GPS. During this reporting period, three of the five COCs (1,1,2,2-PCA, TCE, VC) exceeded the GPS in off-site groundwater samples collected and four of the five COCs exceeded the GPS in the on-site groundwater samples (1,1,2,2-PCA, TCE, PERC, VC). Elevated DHGs (Appendix D) were observed in on-site multi-level wells OLF-G72 and OLF-G73, located downgradient of the injection transect indicating ongoing dichlorination of the primary COCs.

4.2 Distribution of Corrective Action COCs in Groundwater

The distribution of the primary COCs during the November 2019 and May 2020 sampling events are shown for on-site and off-site wells in Figures 7 and 8, respectively. In the on-site wells, 1,1,2,2-PCA GPS was exceeded in OLF-G07, and OLF-G78 (May 2020). VC GPS was exceeded in OLF-G20 and OLF-G42 (November 2019 only), OLF-G71, OLF-G73 (November 2019 only), 1,1,2,2 – PCA and VC GPSs were exceeded in OLF-G74. Well OLF-G77 exceeded GPSs for 1,1,2,2 – PCA, PERC, TCE and VC. No GPSs were exceeded in wells OLF-G19, OLF-G72, OLF-G75 and PPMP-229-GP12.

In the off-site wells, 1,1,2,2 – PCA, TCE, and VC GPSs were exceeded in OLF-G23. Wells OLF-G12, OLF-G22, OLF-G33 and OLF-G50 exceeded the GPS for 1,1,2,2-PCA and TCE. Wells OLF-G43 (November 2019 only) and OLF-G51 (November 2019 only) exceeded the GPS

for 1,1,2,2-PCA. No GPSs were exceeded in wells OLF-G18, OLF-G21, OLF-G24, OLF-G26, OLF-G31, OLF-G32, OLF-G35, OLF-G36, OLF-G47, OLF-G48, OLF-G49, OLF-G52 and OLF-G70. Off-site well COC concentrations during this reporting period are similar to historical concentrations and is expected to show gradual improvements over time from the ISB corrective measures effect of decreasing the continued contribution of solvents to off-site groundwater and the effects of natural attenuation processes of dilution, diffusion, and sorption.

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5.0 SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

This section summarizes the activities performed during the reporting period from November 2019 to May 2020 and presents the results, conclusions, and recommendations.

5.1 Summary of Activities

Activities conducted at the Site included:

- Collected groundwater level measurements and field parameters during November 2019 and May 2020 sampling events
- Collected groundwater samples from select wells for VOCs, DHGs and TOC
- Compared analytical results to GPSs

5.2 Summary of Results

Three of the five COCs (1,1,2,2-PCA, TCE, VC) exceeded the GPS in off-site groundwater samples and four of the five COCs exceeded the GPS in the on-site groundwater samples (1,1,2,2-PCA, TCE, PERC, VC). No GPSs were exceeded in on-site wells OLF-G19, OLF-G72, OLF-G75, and PPMP-229-GP12 and off-site wells OLF-G18, OLF-G21, OLF-G24, OLF-G26, OLF-G31, OLF-G32, OLF-G35, OLF-G36, OLF-G47, OLF-G48, OLF-G49, OLF-G52 and OLF-G70.

5.3 Conclusions and Recommendations

One year of semi-annual monitoring was conducted as specified in the Cleanup Agreement. The presence of DHGs in on-site multi-level wells OLF-G72 and OLF-G73, located downgradient of the injection transect, indicate favorable geochemical conditions have been established for dichlorination of the primary COCs and is occurring at the Site. MDA will submit a CMIP modification request to switch to annual monitoring but until then will continue with semiannual monitoring until receipt of concurrence on the CMIP modification.

We note ADEM has requested the installation of additional transition wells be located west of the site in their comments dated June 14, 2019 on the CMIR.

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6.0 REFERENCES

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Tables

**Table 4-1: Groundwater Elevations,
November 2019 to May 2020
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

Well ID	Well Type	Measurement Date	Ground Surface Elevation (feet)	Top of Casing Elevation (feet)	Depth to Water (feet BTOC)	Groundwater Elevation (feet)
November 2019						
LF4-MW01	Residuum	11/6/2019	737.13	739.79	24.43	715.36
LF4-MW02	Residuum	11/6/2019	738.50	738.50	27.35	711.15
LF4-MW03	Residuum	11/6/2019	739.78	739.78	15.65	724.13
LF4-MW04	Residuum	11/6/2019	743.35	743.35	10.53	732.82
LF4-MW05	Residuum	11/6/2019	753.32	753.32	16.96	736.36
OLF-G04	Transition	11/6/2019	745.03	747.45	51.24	696.21
OLF-G05	Transition	11/6/2019	738.23	740.23	42.91	697.32
OLF-G06	Transition	11/6/2019	747.78	750.06	DRY	DRY
OLF-G07	Transition	11/6/2019	739.10	741.36	50.45	690.91
OLF-G08	Transition	11/6/2019	737.60	739.30	39.74	699.56
OLF-G09	Residuum	11/6/2019	738.95	741.25	DRY	DRY
OLF-G10	Residuum	11/6/2019	746.35	748.42	DRY	DRY
OLF-G12	Transition	11/6/2019	745.75	745.43	70.91	674.52
OLF-G17	Transition	11/6/2019	739.56	741.24	31.05	710.19
OLF-G18	Transition	11/6/2019	742.01	741.60	47.46	694.14
OLF-G19	Transition	11/6/2019	744.50	744.08	54.96	689.12
OLF-G20	Bedrock	11/6/2019	739.17	741.43	62.42	679.01
OLF-G21	Bedrock	11/6/2019	742.76	742.57	61.56	681.01
OLF-G22	Bedrock	11/6/2019	746.67	746.54	72.27	674.27
OLF-G23	Bedrock	11/6/2019	744.17	743.89	69.65	674.24
OLF-G24	Transition	11/6/2019	743.90	743.56	70.00	673.56
OLF-G25	Bedrock	11/6/2019	745.17	745.04	62.06	682.98
OLF-G26	Transition	11/6/2019	745.16	745.04	69.99	675.05
OLF-G29	Bedrock	11/6/2019	770.62	770.25	96.13	674.12
OLF-G30	Deep Bedrock	11/6/2019	770.92	770.66	97.54	673.12
OLF-G31	Bedrock	11/6/2019	794.25	793.69	112.30	681.39
OLF-G32	Deep Bedrock	11/6/2019	793.64	793.41	120.31	673.10
OLF-G35	Deep Bedrock	11/6/2019	743.40	742.82	69.65	673.17
OLF-G36	Deep Bedrock	11/6/2019	746.74	746.09	71.96	674.13
OLF-G37	Bedrock	11/6/2019	769.57	769.37	90.61	678.76
OLF-G40	Transition	11/6/2019	737.20	739.51	25.63	713.88
OLF-G41	Transition	11/6/2019	746.50	748.62	30.85	717.77
OLF-G42	Bedrock	11/6/2019	746.20	748.41	74.52	673.89
OLF-G43	Bedrock	11/6/2019	761.50	761.05	94.89	666.16
OLF-G44	Deep Bedrock	11/6/2019	760.00	759.82	97.43	662.39
OLF-G45	Bedrock	11/6/2019	719.00	721.50	43.05	678.45

**Table 4-1: Groundwater Elevations,
November 2019 to May 2020
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

Well ID	Well Type	Measurement Date	Ground Surface Elevation (feet)	Top of Casing Elevation (feet)	Depth to Water (feet BTOC)	Groundwater Elevation (feet)
OLF-G46	Deep Bedrock	11/6/2019	719.80	722.08	45.70	676.38
OLF-G47	Bedrock	11/6/2019	717.40	717.46	60.81	656.65
OLF-G48	Deep Bedrock	11/6/2019	717.60	717.63	51.44	666.19
OLF-G49	Transition	11/6/2019	753.30	753.30	83.50	669.80
OLF-G50	Bedrock	11/6/2019	753.49	753.62	84.09	669.53
OLF-G51	Deep Bedrock	11/6/2019	753.63	753.69	81.99	671.70
OLF-G52	Deep Bedrock	11/6/2019	723.99	723.83	63.46	660.37
OLF-G53	Transition	11/6/2019	739.74	742.56	46.85	695.71
OLF-G54	Residuum	11/6/2019	737.03	739.65	23.98	715.67
OLF-G55	Transition	11/6/2019	737.10	740.09	30.53	709.56
OLF-G56	Residuum	11/6/2019	744.09	747.27	32.49	714.78
OLF-G57	Transition	11/6/2019	744.09	747.57	32.75	714.82
OLF-G58	Residuum	11/6/2019	740.01	743.42	21.57	721.85
OLF-G66	Transition	11/6/2019	741.11	743.95	28.55	715.40
OLF-G67	Bedrock	11/6/2019	741.52	743.98	28.32	715.66
OLF-G68	Transition	11/6/2019	739.59	742.30	39.87	702.43
OLF-G69	Bedrock	11/6/2019	740.64	742.94	33.96	708.98
OLF-G70	Deep Bedrock	11/6/2019	722.11	722.11	62.51	659.60
OLF-G71 (Port 1)	Multi-Level	11/6/2019	739.49	742.76	46.98	695.78
OLF-G71 (Port 2)	Multi-Level	11/6/2019	739.49	742.77	62.15	680.62
OLF-G71 (Port 3)	Multi-Level	11/6/2019	739.49	742.75	62.10	680.65
OLF-G71 (Port 4)	Multi-Level	11/6/2019	739.49	742.73	67.85	674.88
OLF-G71 (Port 5)	Multi-Level	11/6/2019	739.49	742.72	67.23	675.49
OLF-G72 (Port 1)	Multi-Level	11/6/2019	744.11	747.40	72.48	674.92
OLF-G72 (Port 2)	Multi-Level	11/6/2019	744.11	747.42	68.95	678.47
OLF-G72 (Port 3)	Multi-Level	11/6/2019	744.11	747.43	72.89	674.54
OLF-G72 (Port 4)	Multi-Level	11/6/2019	744.11	747.37	73.11	674.26
OLF-G72 (Port 5)	Multi-Level	11/6/2019	744.11	747.40	73.84	673.56
OLF-G72 (Port 6)	Multi-Level	11/6/2019	744.11	747.36	69.50	677.86
OLF-G73 (Port 1)	Multi-Level	11/6/2019	745.97	749.56	73.73	675.83
OLF-G73 (Port 2)	Multi-Level	11/6/2019	745.97	749.56	75.01	674.55
OLF-G73 (Port 3)	Multi-Level	11/6/2019	745.97	749.58	73.87	675.71
OLF-G73 (Port 4)	Multi-Level	11/6/2019	745.97	749.56	75.01	674.55
OLF-G73 (Port 5)	Multi-Level	11/6/2019	745.97	749.62	73.84	675.78
OLF-G74 (Port1)	Multi-Level	11/6/2019	747.28	750.79	72.15	678.64
OLF-G74 (Port2)	Multi-Level	11/6/2019	747.28	750.79	76.63	674.16
OLF-G74 (Port3)	Multi-Level	11/6/2019	747.28	750.79	75.32	675.47
OLF-G74 (Port4)	Multi-Level	11/6/2019	747.28	750.77	76.67	674.10

**Table 4-1: Groundwater Elevations,
November 2019 to May 2020
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

Well ID	Well Type	Measurement Date	Ground Surface Elevation (feet)	Top of Casing Elevation (feet)	Depth to Water (feet BTOC)	Groundwater Elevation (feet)
OLF-G74 (Port5)	Multi-Level	11/6/2019	747.28	750.77	72.29	678.48
OLF-G75	Multi-Level	11/6/2019	TBD	749.71	75.75	673.96
OLF-G76	Multi-Level	11/6/2019	TBD	747.00	73.67	673.33
OLF-G77	Transition	11/6/2019	744.08	747.04	65.35	681.69
OLF-G78	Transition	11/6/2019	745.92	748.99	73.61	675.38
OLF-G79	Deep Bedrock	11/6/2019	743.70	746.31	72.08	674.23
PPMP-229-GP08	Bedrock	11/6/2019	728.91	731.89	24.97	706.92
PPMP-229-GP09	Residuum	11/6/2019	730.50	733.24	16.62	716.62
PPMP-229-GP10	Transition	11/6/2019	729.59	732.31	17.56	714.75
PPMP-229-GP11	Transition	11/6/2019	741.54	744.13	32.19	711.94
PPMP-229-GP12	Bedrock	11/6/2019	741.47	743.79	32.62	711.17
PPMP-229-GP13	Residuum	11/6/2019	717.87	720.16	41.04	679.12
PPMP-229-GP14	Transition	11/6/2019	718.31	720.98	42.77	678.21
May 2020						
LF4-MW01	Residuum	5/14/2020	737.13	739.79	11.85	727.94
LF4-MW02	Residuum	5/14/2020	738.50	738.50	19.79	718.71
LF4-MW03	Residuum	5/14/2020	739.78	739.78	13.16	726.62
LF4-MW04	Residuum	5/14/2020	743.35	743.35	5.69	737.66
LF4-MW05	Residuum	5/14/2020	753.32	753.32	11.10	742.22
OLF-G04	Transition	5/14/2020	745.03	747.45	39.37	708.08
OLF-G05	Transition	5/14/2020	738.23	740.23	33.80	706.43
OLF-G06	Transition	5/14/2020	747.78	750.06	63.79	686.27
OLF-G07	Transition	5/14/2020	739.10	741.36	41.24	700.12
OLF-G08	Transition	5/14/2020	737.60	739.30	30.79	708.51
OLF-G09	Residuum	5/14/2020	738.95	741.25	23.64	717.61
OLF-G10	Residuum	5/14/2020	746.35	748.42	13.91	734.51
OLF-G12	Transition	5/14/2020	745.75	745.43	59.88	685.55
OLF-G17	Transition	5/14/2020	739.56	741.24	21.62	719.62
OLF-G18	Transition	5/14/2020	742.01	741.60	37.92	703.68
OLF-G19	Transition	5/14/2020	744.50	744.08	46.30	697.78
OLF-G20	Bedrock	5/14/2020	739.17	741.43	51.25	690.18
OLF-G21	Bedrock	5/14/2020	742.76	742.57	49.94	692.63
OLF-G22	Bedrock	5/14/2020	746.67	746.54	61.20	685.34
OLF-G23	Bedrock	5/14/2020	744.17	743.89	58.64	685.25
OLF-G24	Transition	5/14/2020	743.9	743.56	59.51	684.05
OLF-G25	Bedrock	5/14/2020	745.17	745.04	50.63	694.41
OLF-G26	Transition	5/14/2020	745.16	745.04	58.52	686.52

**Table 4-1: Groundwater Elevations,
November 2019 to May 2020
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

Well ID	Well Type	Measurement Date	Ground Surface Elevation (feet)	Top of Casing Elevation (feet)	Depth to Water (feet BTOC)	Groundwater Elevation (feet)
OLF-G29	Bedrock	5/19/2020	770.62	770.25	84.29	685.96
OLF-G30	Deep Bedrock	5/19/2020	770.92	770.66	85.17	685.49
OLF-G31	Bedrock	5/14/2020	794.25	793.69	97.63	696.06
OLF-G32	Deep Bedrock	5/14/2020	793.64	793.41	107.36	686.05
OLF-G35	Deep Bedrock	5/14/2020	743.40	742.82	58.70	684.12
OLF-G36	Deep Bedrock	5/14/2020	746.74	746.09	60.60	685.49
OLF-G37	Bedrock	5/14/2020	769.57	769.37	76.85	692.52
OLF-G40	Transition	5/14/2020	737.20	739.51	13.55	725.96
OLF-G41	Transition	5/14/2020	746.50	748.62	16.80	731.82
OLF-G42	Bedrock	5/14/2020	746.20	748.41	63.64	684.77
OLF-G43	Bedrock	5/14/2020	761.50	761.05	86.17	674.88
OLF-G44	Deep Bedrock	5/14/2020	760.00	759.82	90.03	669.79
OLF-G45	Bedrock	5/14/2020	719.00	721.50	32.99	688.51
OLF-G46	Deep Bedrock	5/14/2020	719.80	722.08	35.98	686.10
OLF-G47	Bedrock	5/14/2020	717.40	717.46	56.70	660.76
OLF-G48	Deep Bedrock	5/14/2020	717.60	717.63	43.87	673.76
OLF-G49	Transition	5/14/2020	753.30	753.30	73.31	679.99
OLF-G50	Bedrock	5/14/2020	753.49	753.62	74.11	679.51
OLF-G51	Deep Bedrock	5/14/2020	753.63	753.69	71.33	682.36
OLF-G52	Deep Bedrock	5/14/2020	723.99	723.83	57.51	666.32
OLF-G53	Transition	5/14/2020	739.74	742.56	35.56	707.00
OLF-G54	Residuum	5/14/2020	737.03	739.65	12.08	727.57
OLF-G55	Transition	5/14/2020	737.10	740.09	19.61	720.48
OLF-G56	Residuum	5/14/2020	744.09	747.27	19.58	727.69
OLF-G57	Transition	5/14/2020	744.09	747.57	19.89	727.68
OLF-G58	residuum	5/14/2020	740.01	743.42	11.94	731.48
OLF-G66	Transition	5/14/2020	741.11	743.95	17.07	726.88
OLF-G67	Bedrock	5/14/2020	741.52	743.98	16.89	727.09
OLF-G68	Transition	5/14/2020	739.59	742.30	28.20	714.10
OLF-G69	Bedrock	5/14/2020	740.64	742.94	22.18	720.76
OLF-G70	Deep Bedrock	5/14/2020	722.11	722.11	57.21	664.90
OLF-G71 (Port 1)	Multi-Level	5/14/2020	739.49	742.76	38.27	704.49
OLF-G71 (Port 2)	Multi-Level	5/14/2020	739.49	742.77	38.22	704.55
OLF-G71 (Port 3)	Multi-Level	5/14/2020	739.49	742.75	37.87	704.88
OLF-G71 (Port 4)	Multi-Level	5/14/2020	739.49	742.73	37.77	704.96
OLF-G71 (Port 5)	Multi-Level	5/14/2020	739.49	742.72	37.74	704.98
OLF-G72 (Port 1)	Multi-Level	5/14/2020	744.11	747.40	60.89	686.51
OLF-G72 (Port 2)	Multi-Level	5/14/2020	744.11	747.42	61.12	686.30

**Table 4-1: Groundwater Elevations,
November 2019 to May 2020
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

Well ID	Well Type	Measurement Date	Ground Surface Elevation (feet)	Top of Casing Elevation (feet)	Depth to Water (feet BTOC)	Groundwater Elevation (feet)
OLF-G72 (Port 3)	Multi-Level	5/14/2020	744.11	747.43	62.00	685.43
OLF-G72 (Port 4)	Multi-Level	5/14/2020	744.11	747.37	61.93	685.44
OLF-G72 (Port 5)	Multi-Level	5/14/2020	744.11	747.40	62.01	685.39
OLF-G72 (Port 6)	Multi-Level	5/14/2020	744.11	747.36	61.98	685.38
OLF-G73 (Port 1)	Multi-Level	5/14/2020	745.97	749.56	63.44	686.12
OLF-G73 (Port 2)	Multi-Level	5/14/2020	745.97	749.56	63.76	685.80
OLF-G73 (Port 3)	Multi-Level	5/14/2020	745.97	749.58	63.71	685.87
OLF-G73 (Port 4)	Multi-Level	5/14/2020	745.97	749.56	63.68	685.88
OLF-G73 (Port 5)	Multi-Level	5/14/2020	745.97	749.62	63.62	686.00
OLF-G74 (Port 1)	Multi-Level	5/14/2020	747.28	750.79	*	NA
OLF-G74 (Port 2)	Multi-Level	5/14/2020	747.28	750.79	65.66	685.13
OLF-G74 (Port 3)	Multi-Level	5/14/2020	747.28	750.79	65.40	685.39
OLF-G74 (Port 4)	Multi-Level	5/14/2020	747.28	750.77	65.51	685.26
OLF-G74 (Port 5)	Multi-Level	5/14/2020	747.28	750.77	65.16	685.61
OLF-G75	Multi-Level	5/14/2020	TBD	749.71	64.73	684.98
OLF-G76	Multi-Level	5/14/2020	TBD	747.00	63.36	683.64
OLF-G77	Transition	5/14/2020	744.08	747.04	55.41	691.63
OLF-G78	Transition	5/14/2020	745.92	748.99	62.37	686.62
OLF-G79	Deep Bedrock	5/14/2020	743.70	746.31	60.65	685.66
PPMP-229-GP08	Bedrock	5/14/2020	728.91	731.89	15.46	716.43
PPMP-229-GP09	Residuum	5/14/2020	730.50	733.24	5.34	727.90
PPMP-229-GP10	Transition	5/14/2020	729.59	732.31	5.79	726.52
PPMP-229-GP11	Transition	5/14/2020	741.54	744.13	25.05	719.08
PPMP-229-GP12	Bedrock	5/14/2020	741.47	743.79	25.29	718.50
PPMP-229-GP13	Residuum	5/14/2020	717.87	720.16	28.49	691.67
PPMP-229-GP14	Transition	5/14/2020	718.31	720.98	32.25	688.73

Notes:

BTOC = Below top of casing

* Unable to get water level meter in port.

**Table 4-2: Horizontal Hydraulic Gradients,
November 2019 and May 2020
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

Upgradient Monitoring Well	Well Type	Groundwater Elevation	Downgradient Monitoring Well	Well Type	Groundwater Elevation	Estimated Groundwater Flow Direction	Horizontal Distance	Elevation Difference (feet)	Horizontal Gradient (feet per foot)
<u>November 2019</u>									
OLF-G56	Residuum	714.78	OLF-G15	Residuum	NC	North	1854	NA	NA
OLF-G40	Transition	713.88	OLF-G12	Transition	674.52	Northwest	1201	39.36	0.033
OLF-G17	Transition	710.19	OLF-G26	Transition	675.05	North	700	35.14	0.050
OLF-G21	Bedrock	681.01	OLF-G43	Bedrock	666.16	Northeast	2050	14.85	0.007
OLF-G22	Bedrock	674.27	OLF-G47	Bedrock	656.65	Northeast	1849	17.62	0.010
OLF-G37	Bedrock	678.76	OLF-G43	Bedrock	666.16	Northeast	1717	12.60	0.007
OLF-G30	Deep Bedrock	673.12	OLF-G44	Deep Bedrock	662.39	Northeast	1349	10.73	0.008
OLF-G46	Deep Bedrock	676.38	OLF-G52	Deep Bedrock	660.37	Northwest	909	16.01	0.018
OLF-G36	Deep Bedrock	674.13	OLF-G44	Deep Bedrock	662.39	North	1293	11.74	0.009
<u>May 2020</u>									
OLF-G56	Residuum	727.69	OLF-G15	Residuum	NC	North	1854	NA	NA
OLF-G40	Transition	725.96	OLF-G12	Transition	685.55	Northwest	1201	40.41	0.034
OLF-G17	Transition	719.62	OLF-G26	Transition	686.52	North	700	33.10	0.047
OLF-G21	Bedrock	692.63	OLF-G43	Bedrock	674.88	Northeast	2050	17.75	0.009
OLF-G22	Bedrock	685.34	OLF-G47	Bedrock	660.76	Northeast	1849	24.58	0.013
OLF-G37	Bedrock	692.52	OLF-G43	Bedrock	674.88	Northeast	1717	17.64	0.010
OLF-G30	Deep Bedrock	685.49	OLF-G44	Deep Bedrock	669.79	Northeast	1349	15.70	0.012
OLF-G46	Deep Bedrock	686.10	OLF-G52	Deep Bedrock	666.32	Northwest	909	19.78	0.022
OLF-G36	Deep Bedrock	685.49	OLF-G44	Deep Bedrock	669.79	North	1293	15.70	0.012

Notes:

Elevations in feet above mean sea level.

NC - Not collected

**Table 4-3: Vertical Hydraulic Gradients,
November 2019 and May 2020
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

Well Cluster IDs	Well Completion Zone	Midpoint of Screen Elevation	Groundwater Elevation (Nov 19)	dH (Nov 19)	dL	Vertical Hydraulic Gradient (Nov 19) (feet per foot)
<u>November 2019</u>						
OLF-G10	residuum	723.85	dry	NA	52.35	NA
OLF-G41	transition	671.50	717.77			
OLF-G56	residuum	709.09	714.78	-0.07	22.50	-0.003
OLF-G57	transition	686.59	714.85			
LF4-MW1	residuum	709.63	715.36	1.48	86.63	0.0171
OLF-G40	transition	623.00	713.88			
OLF-G58	residuum	716.01	721.85	19.42	100.71	0.193
OLF-G68	transition	615.30	702.43			
OLF-G68	transition	615.30	702.43	-6.55	44.36	-0.148
OLF-G69	bedrock	570.94	708.98			
OLF-G54	residuum	705.03	715.67	6.11	40.43	0.151
OLF-G55	transition	664.6	709.56			
PPMP-229-GP09	residuum	699.24	716.62	1.87	18.93	0.099
PPMP-229-GP10	transition	680.31	714.75			
PPMP-229-GP10	transition	680.31	714.75	7.83	148.90	0.053
PPMP-229-GP08	bedrock	531.41	706.92			
PPMP-229-GP13	residuum	680.16	679.12	0.91	17.18	0.053
PPMP-229-GP14	transition	662.98	678.21			
PPMP-229-GP14	transition	662.98	678.21	-0.24	115.18	-0.002
OLF-G45	bedrock	547.80	678.45			
OLF-G45	bedrock	547.80	678.45	2.07	67.20	0.031
OLF-G46	deep bedrock	480.60	676.38			
OLF-G24	transition	656.80	673.56	-0.68	74.73	-0.009

**Table 4-3: Vertical Hydraulic Gradients,
November 2019 and May 2020
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

Well Cluster IDs	Well Completion Zone	Midpoint of Screen Elevation	Groundwater Elevation (Nov 19)	dH (Nov 19)	dL	Vertical Hydraulic Gradient (Nov 19) (feet per foot)
OLF-G23	bedrock	582.07	674.24			
OLF-G66	transition	644.95	715.40	-0.26	44.97	-0.006
OLF-G67	bedrock	599.98	715.66			
PPMP-229-GP11	transition	675.13	711.94	0.77	94.34	0.008
PPMP-229-GP12	bedrock	580.79	711.17			
OLF-G18	transition	689.01	694.14	13.13	108.35	0.121
OLF-G21	bedrock	580.66	681.01			
OLF-G26	transition	653.06	675.05	-7.93	70.49	-0.112
OLF-G25	bedrock	582.57	682.98			
OLF-G07	transition	682.10	690.91	11.90	105.03	0.113
OLF-G20	bedrock	577.07	679.01			
OLF-G12	transition	665.75	674.52	0.25	81.58	0.003
OLF-G22	bedrock	584.17	674.27			
OLF-49	transition	653.30	669.80	0.27	48.81	0.0055
OLF-50	bedrock	604.49	669.53			
OLF-G22	bedrock	584.17	674.27	0.14	88.73	0.002
OLF-G36	deep bedrock	495.44	674.13			
OLF-G23	bedrock	582.07	674.24	1.07	91.17	0.012
OLF-G35	deep bedrock	490.90	673.17			
OLF-50	bedrock	604.49	669.53	--	99.86	--
OLF-51	deep bedrock	504.63	671.70			
OLF-G43	bedrock	548.40	666.16	3.77	76.00	0.050
OLF-G44	deep bedrock	472.40	662.39			
OLF-G04	transition	699.53	696.21	22.32	117.03	0.191

**Table 4-3: Vertical Hydraulic Gradients,
November 2019 and May 2020
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

Well Cluster IDs	Well Completion Zone	Midpoint of Screen Elevation	Groundwater Elevation (Nov 19)	dH (Nov 19)	dL	Vertical Hydraulic Gradient (Nov 19) (feet per foot)
OLF-G42	bedrock	582.50	673.89			
OLF-G47	bedrock	405.40	656.65	-9.54	82.80	-0.115
OLF-G48	deep bedrock	322.60	666.19			
OLF-G29	bedrock	555.52	674.12	1.00	71.40	0.014
OLF-G30	deep bedrock	484.12	673.12			
OLF-G31	bedrock	579.25	681.39	8.29	66.61	0.124
OLF-G32	deep bedrock	512.64	673.10			
<u>May 2020</u>						
OLF-G10	residuum	723.85	734.51	2.69	52.35	0.051
OLF-G41	transition	671.50	731.82			
OLF-G56	residuum	709.09	727.69	0.01	22.50	0.000
OLF-G57	transition	686.59	727.68			
LF4-MW1	residuum	709.63	727.94	1.98	86.63	0.0229
OLF-G40	transition	623.00	725.96			
OLF-G58	residuum	716.01	731.48	17.38	100.71	0.173
OLF-G68	transition	615.30	714.10			
OLF-G68	transition	615.30	714.10	-6.66	44.36	-0.150
OLF-G69	bedrock	570.94	720.76			
OLF-G54	residuum	705.03	727.57	7.09	40.43	0.175
OLF-G55	transition	664.6	720.48			
PPMP-229-GP09	residuum	699.24	727.90	1.38	18.93	0.073
PPMP-229-GP10	transition	680.31	726.52			
PPMP-229-GP10	transition	680.31	726.52	10.09	148.90	0.068
PPMP-229-GP08	bedrock	531.41	716.43			

**Table 4-3: Vertical Hydraulic Gradients,
November 2019 and May 2020
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

Well Cluster IDs	Well Completion Zone	Midpoint of Screen Elevation	Groundwater Elevation (Nov 19)	dH (Nov 19)	dL	Vertical Hydraulic Gradient (Nov 19) (feet per foot)
PPMP-229-GP13	residuum	680.16	691.67	2.94	17.18	0.171
PPMP-229-GP14	transition	662.98	688.73			
PPMP-229-GP14	transition	662.98	688.73	0.22	115.18	0.002
OLF-G45	bedrock	547.80	688.51			
OLF-G45	bedrock	547.80	688.51	2.41	67.20	0.036
OLF-G46	deep bedrock	480.60	686.10			
OLF-G24	transition	656.80	684.05	-1.20	74.73	-0.016
OLF-G23	bedrock	582.07	685.25			
OLF-G66	transition	644.95	726.88	-0.21	44.97	-0.005
OLF-G67	bedrock	599.98	727.09			
PPMP-229-GP11	transition	675.13	719.08	0.58	94.34	0.006
PPMP-229-GP12	bedrock	580.79	718.50			
OLF-G18	transition	689.01	703.68	11.05	108.35	0.102
OLF-G21	bedrock	580.66	692.63			
OLF-G26	transition	653.06	686.52	-7.89	70.49	-0.112
OLF-G25	bedrock	582.57	694.41			
OLF-G07	transition	682.10	700.12	9.94	105.03	0.095
OLF-G20	bedrock	577.07	690.18			
OLF-G12	transition	665.75	685.55	0.21	81.58	0.003
OLF-G22	bedrock	584.17	685.34			
OLF-49	transition	653.30	679.99	0.48	48.81	0.0098
OLF-50	bedrock	604.49	679.51			
OLF-G22	bedrock	584.17	685.34	-0.15	88.73	-0.002
OLF-G36	deep bedrock	495.44	685.49			

**Table 4-3: Vertical Hydraulic Gradients,
November 2019 and May 2020
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

Well Cluster IDs	Well Completion Zone	Midpoint of Screen Elevation	Groundwater Elevation (Nov 19)	dH (Nov 19)	dL	Vertical Hydraulic Gradient (Nov 19) (feet per foot)
OLF-G23	bedrock	582.07	685.25	1.13	91.17	0.012
OLF-G35	deep bedrock	490.90	684.12			
OLF-50	bedrock	604.49	679.51	-2.85	99.86	-0.029
OLF-51	deep bedrock	504.63	682.36			
OLF-G43	bedrock	548.40	674.88	5.09	76.00	0.067
OLF-G44	deep bedrock	472.40	669.79			
OLF-G04	transition	699.53	708.08	23.31	117.03	0.199
OLF-G42	bedrock	582.50	684.77			
OLF-G47	bedrock	405.40	660.76	-13.00	82.80	-0.157
OLF-G48	deep bedrock	322.60	673.76			
OLF-G29	bedrock	555.52	685.96	0.47	71.40	0.007
OLF-G30	deep bedrock	484.12	685.49			
OLF-G31	bedrock	579.25	696.06	10.01	66.61	0.150
OLF-G32	deep bedrock	512.64	686.05			

Notes:

Elevations in feet above mean sea level.

A negative value for vertical hydraulic gradient signifies an upward hydraulic gradient

ID = identification

dH = difference in groundwater elevation (feet)

dL = distance between screened intervals (feet)

NA = not applicable

**Table 4-4: Groundwater Field Parameters,
November 2019 to May 2020
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

Well ID	Well Type	Sample Date	Temperature (°C)	Conductivity (µs/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH
November 2019									
OLF-G07	Transition	11/20/2019	18.10	75.5	2.99	236.1	0.049	2.6	5.38
OLF-G12	Transition	11/19/2020	18.80	75.4	5.38	207.9	0.049	2.98	5.31
OLF-G18	Transition	11/19/2019	16.00	122.9	2.50	94.6	0.080	15.97	6.42
OLF-G19	Transition	11/19/2019	19.20	118.6	1.62	31.3	0.077	2.22	6.72
OLF-G20	Bedrock	11/20/2019	15.10	757	0.60	-82.8	0.494	2.46	7.06
OLF-G21	Bedrock	11/19/2019	15.90	488.9	0.70	-145.8	0.317	2.05	7.53
OLF-G22	Bedrock	11/19/2019	19.50	406.6	0.72	34.2	0.265	3.19	6.33
OLF-G23	Bedrock	11/18/2019	20.00	334.9	3.01	137.3	0.218	1.12	6.08
OLF-G24	Transition	11/18/2019	20.30	57.3	2.75	202.9	0.037	15.08	5.27
OLF-G26	Transition	11/20/2019	18.70	208.7	8.98	69.2	0.135	4.41	6.35
OLF-G31	Bedrock	11/11/2019	18.00	353.2	1.60	-100.5	0.229	12.26	7.79
OLF-G32	Deep Bedrock	11/11/2019	18.90	232.5	2.54	36.5	0.151	11.91	7.87
OLF-G35	Deep Bedrock	11/19/2019	16.60	94.3	0.49	-122.2	0.061	6.58	7.25
OLF-G36	Deep Bedrock	11/19/2019	18.90	428.2	1.16	-62.1	0.279	6.15	7.46
OLF-G42	Bedrock	11/20/2019	16.00	663	0.51	-95.4	0.429	4.52	7.35
OLF-G43	Bedrock	11/19/2019	17.00	170.3	4.79	117.8	0.111	1.55	6.43
OLF-G47	Bedrock	11/18/2019	18.60	354.6	3.59	57.4	0.231	3.98	7.56
OLF-G48	Deep Bedrock	11/18/2019	16.50	313.3	2.34	4.1	0.204	9.43	7.80
OLF-G49	Transition	11/13/2019	15.90	69.0	6.02	240.1	0.045	49.88	5.23
OLF-G50	Bedrock	11/13/2019	15.70	195.3	5.22	151.0	0.127	11.09	6.13
OLF-G51	Deep Bedrock	11/13/2019	15.10	334.2	4.49	109.0	0.217	12.08	6.59
OLF-G52	Deep Bedrock	11/11/2019	18.80	336.5	2.51	-172.9	0.219	17.99	9.36
OLF-G70	Deep Bedrock	11/18/2019	18.30	346.6	2.35	43.1	0.225	31.08	7.73
OLF-G71 (Port 1)	Multi-Level	11/12/2019	12.80	1004	0.88	-106.1	0.650	1.06	6.97
OLF-G71 (Port 2)	Multi-Level	11/12/2019	9.10	737.0	1.07	-113.1	0.481	0.94	7.19
OLF-G71 (Port 3)	Multi-Level	11/12/2019	7.0	912	1.40	-45.1	0.592	3.4	6.95
OLF-G71 (Port 4)	Multi-Level	11/12/2019	8.8	633.9	2.04	-116.8	0.412	0.86	7.21
OLF-G71 (Port 5)	Multi-Level	11/12/2019	8.7	613.3	1.02	-138.4	0.399	0.69	7.34

**Table 4-4: Groundwater Field Parameters,
November 2019 to May 2020
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

Well ID	Well Type	Sample Date	Temperature (°C)	Conductivity (µs/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH
OLF-G72 (Port 1)	Multi-Level	11/12/2019	8.0	1094.0	2.32	-81.4	0.709	4.63	6.85
OLF-G72 (Port 2)	Multi-Level	11/12/2019	13.4	1183.0	1.00	-53.1	0.767	30.77	6.44
OLF-G72 (Port 3)	Multi-Level	11/12/2019	13.2	727.0	3.48	-60.3	0.475	4.44	6.90
OLF-G72 (Port 4)	Multi-Level	11/12/2019	12.1	1335.0	1.61	-25.3	0.871	25.3	6.22
OLF-G72 (Port 5)	Multi-Level	11/12/2019	8.3	470.4	1.73	-94.3	0.306	7.32	6.79
OLF-G72 (Port 6)	Multi-Level	11/12/2019	5.5	478.6	1.64	-102.3	0.311	5.86	6.90
OLF-G73 (Port 1)	Multi-Level	11/11/2019	19.6	727	0.63	-82.6	0.475	2.03	6.75
OLF-G73 (Port 2)	Multi-Level	11/11/2019	19.2	511.1	1.30	-45.7	0.332	1.41	6.63
OLF-G73 (Port 3)	Multi-Level	11/11/2019	18.9	460.1	1.50	-149.6	0.299	2.76	6.79
OLF-G73 (Port 4)	Multi-Level	11/11/2019	18.7	473.1	1.04	-135.2	0.308	3.54	7.23
OLF-G73 (Port 5)	Multi-Level	11/11/2019	18.2	436.5	0.97	-127.3	0.283	0.73	7.20
OLF-G74 (Port 1)	Multi-Level	11/11/2019	18.2	71.1	3.02	196.1	0.046	1.19	6.35
OLF-G74 (Port 2)	Multi-Level	11/11/2019	18.4	340.5	0.87	56.0	0.222	1.21	6.09
OLF-G74 (Port 3)	Multi-Level	11/11/2019	18.5	470.3	0.94	7.5	0.306	1.12	7.07
OLF-G74 (Port 4)	Multi-Level	11/11/2019	18.6	445.5	1.25	-73.4	0.290	0.84	7.22
OLF-G74 (Port 5)	Multi-Level	11/11/2019	19.1	434.8	0.90	-79.7	0.283	2.23	7.29
OLF-G75 (Screen 1)	Multi-Level	11/13/2019	9.9	26.9	5.11	212.4	0.018	30.63	5.44
OLF-G75 (Screen 2)	Multi-Level	11/13/2019	10.8	129.7	4.28	108.2	0.085	17.86	6.45
OLF-G75 (Screen 3)	Multi-Level	11/13/2019	14.5	454.8	1.73	86.3	0.296	12.36	7.46
OLF-G75 (Screen 4)	Multi-Level	11/12/2019	7.3	261.2	3.06	90.0	0.170	144.1	6.87
OLF-G75 (Screen 5)	Multi-Level	11/12/2019	7.2	405.7	7.15	9.4	0.263	351.6	7.38
OLF-G75 (Screen 6)	Multi-Level	11/12/2019	12.1	461.5	1.43	24.9	0.300	179.5	7.49
OLF-G77	Transition	11/20/2019	18.8	344.9	1.01	129.7	0.225	1.1	6.05
OLF-G78	Transition	11/20/2019	21.0	94.7	3.32	170.3	0.062	1.1	5.57
PPMP-229-GP12	Bedrock	11/13/2019	14.6	247.7	0.39	-118.0	0.161	2.1	8.98
May 2020									
OLF-G07	Transition	5/28/2020	19.30	84.3	3.30	264.4	0.055	7.5	4.76
OLF-G12	Transition	5/29/2020	26.50	89.6	5.03	165.4	0.059	4.4	5.27
OLF-G18	Transition	5/27/2020	23.90	109.5	0.59	-69.2	0.072	12.0	5.49

**Table 4-4: Groundwater Field Parameters,
November 2019 to May 2020
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

Well ID	Well Type	Sample Date	Temperature (°C)	Conductivity (µs/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH
OLF-G19	Transition	5/27/2020	22.70	56.4	5.62	14.1	0.036	25.6	4.99
OLF-G20	Bedrock	5/28/2020	22.50	718.0	1.19	-224.3	0.468	0.0	7.20
OLF-G21	Bedrock	5/27/2020	20.60	489.5	1.03	-100.8	0.319	3.0	7.31
OLF-G22	Bedrock	5/27/2020	20.70	392.7	4.75	-26.4	0.255	0.0	6.39
OLF-G23	Bedrock	5/28/2020	29.00	329.7	4.08	-103.7	0.215	0.4	6.15
OLF-G24	Transition	5/26/2020	20.90	47.1	3.60	181.5	0.031	19.8	5.08
OLF-G26	Transition	5/20/2020	23.90	198.1	4.02	49.9	0.129	6.1	6.10
OLF-G31	Bedrock	5/19/2020	19.10	347.3	0.93	-146.3	0.225	4.0	7.96
OLF-G32	Deep Bedrock	5/19/2020	17.90	213.5	3.33	69.0	0.139	6.1	7.82
OLF-G35	Deep Bedrock	5/26/2020	21.70	123.3	0.82	-66.4	0.080	2.5	7.09
OLF-G36	Deep Bedrock	5/27/2020	20.40	449.3	4.84	31.4	0.292	10.5	7.56
OLF-G42	Bedrock	5/28/2020	21.10	451.1	5.22	-157.0	0.293	3.3	7.68
OLF-G43	Bedrock	5/20/2020	20.00	214.4	4.15	99.5	0.139	0.5	6.65
OLF-G47	Bedrock	5/26/2020	22.00	71.9	4.45	23.4	0.029	2.5	7.08
OLF-G48	Deep Bedrock	5/26/2020	21.60	344.9	2.98	54.9	0.224	5.0	7.73
OLF-G49	Transition	5/20/2020	18.30	74.8	4.14	233.5	0.049	48.6	5.13
OLF-G50	Bedrock	5/20/2020	18.20	168.9	7.79	179.1	0.110	22.8	6.16
OLF-G51	Deep Bedrock	5/20/2020	18.90	332.0	4.43	124.2	0.217	8.2	6.91
OLF-G52	Deep Bedrock	5/19/2020	20.70	342.1	1.72	-112.8	0.222	7.6	8.41
OLF-G70	Deep Bedrock	5/19/2020	21.00	340.3	2.54	4.6	0.221	3.7	7.78
OLF-G71 (Port 1)	Multi-Level	5/19/2020	18.60	974.0	0.50	-101.1	0.631	7.2	7.62
OLF-G71 (Port 2)	Multi-Level	5/19/2020	18.30	711.0	1.11	-93.8	0.462	4.4	7.37
OLF-G71 (Port 3)	Multi-Level	5/19/2020	19.40	881.0	1.01	-48.9	0.572	1.3	7.08
OLF-G71 (Port 4)	Multi-Level	5/19/2020	18.60	606.0	0.98	-91.4	0.397	1.4	7.39
OLF-G71 (Port 5)	Multi-Level	5/19/2020	18.30	551.4	0.91	-56.6	0.358	1.1	7.33
OLF-G72 (Port 1)	Multi-Level	5/19/2020	21.30	1037.0	1.20	-108.6	0.676	7.5	6.88
OLF-G72 (Port 2)	Multi-Level	5/19/2020	22.40	1172.0	0.75	-86.6	0.761	4.0	6.73
OLF-G72 (Port 3)	Multi-Level	5/19/2020	21.50	688.0	0.41	-72.5	0.449	1.6	7.21
OLF-G72 (Port 4)	Multi-Level	5/19/2020	23.60	1054.0	1.38	-73.6	0.683	14.7	6.80

**Table 4-4: Groundwater Field Parameters,
November 2019 to May 2020
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

Well ID	Well Type	Sample Date	Temperature (°C)	Conductivity (µs/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH
OLF-G72 (Port 5)	Multi-Level	5/19/2020	21.80	454.8	0.81	-84.1	0.296	5.6	7.03
OLF-G72 (Port 6)	Multi-Level	5/19/2020	22.60	451.3	1.42	-41.4	0.293	2.9	7.02
OLF-G73 (Port 1)	Multi-Level	5/18/2020	20.00	633.0	0.74	-77.3	0.429	1.8	6.49
OLF-G73 (Port 2)	Multi-Level	5/18/2020	26.50	537.0	0.76	-45.4	0.351	1.8	6.83
OLF-G73 (Port 3)	Multi-Level	5/18/2020	26.80	565.0	0.78	-127.5	0.371	4.6	7.09
OLF-G73 (Port 4)	Multi-Level	5/18/2020	22.40	461.0	0.80	-136.8	0.300	4.4	7.05
OLF-G73 (Port 5)	Multi-Level	5/18/2020	22.90	438.1	0.94	-112.0	0.285	4.2	7.39
OLF-G74 (Port 1)	Multi-Level	5/18/2020	25.80	90.9	1.01	50.4	0.059	5.0	5.67
OLF-G74 (Port 2)	Multi-Level	5/18/2020	23.00	360.7	0.95	-9.3	0.235	1.8	6.09
OLF-G74 (Port 3)	Multi-Level	5/18/2020	28.20	465.8	1.52	-128.5	0.303	4.1	6.93
OLF-G74 (Port 4)	Multi-Level	5/18/2020	22.10	445.6	0.76	-96.9	0.290	3.2	7.39
OLF-G74 (Port 5)	Multi-Level	5/18/2020	25.10	434.0	0.80	-104.7	0.282	1.6	8.10
OLF-G75 (Screen 1)	Multi-Level	5/18/2020	23.20	30.5	5.03	231.1	0.020	42.3	5.15
OLF-G75 (Screen 2)	Multi-Level	5/18/2020	23.10	440.7	1.17	41.3	0.287	9.3	7.53
OLF-G75 (Screen 3)	Multi-Level	5/18/2020	19.10	439.9	1.68	29.2	0.286	9.4	7.54
OLF-G75 (Screen 4)	Multi-Level	5/18/2020	28.80	445.6	2.01	13.2	0.289	10.8	7.51
OLF-G75 (Screen 5)	Multi-Level	5/18/2020	24.70	444.1	2.96	36.6	0.289	5.6	7.57
OLF-G75 (Screen 6)	Multi-Level	5/18/2020	19.80	446.4	1.37	64.3	0.290	3.1	7.55
OLF-G77	Transition	5/28/2020	19.10	351.0	2.19	151.7	0.228	10.0	5.92
OLF-G78	Transition	5/28/2020	20.30	110.1	3.16	183.5	0.072	11.0	5.47
PPMP-229-GP12	Bedrock	5/20/2020	20.80	240.2	4.34	-137.7	0.157	1.3	10.66

Notes:

°C = Degrees Celsius

mg/L = Milligrams per liter

µs/cm = Microsiemens per centimeter

mV = Millivolts

NM = Not measured

NTU = Nephelometric turbidity units

ORP = Oxidation-reduction potential

TDS = Total Dissolved Solids

**Table 4-5: On-Site Groundwater Analytical Results for Corrective Action COCs,
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

VOCs (µg/L)	GPS	GPS Basis	OLF-G07										
			7/29/04	2/22/06	1/14/08	1/20/11	6/14/16	11/13/17	5/16/18	11/13/18	5/7/19	11/20/19	5/28/20
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	39	130	150	96	48	25	51	29 F1	96	67	180
1,1,2-Trichloroethane	50.2	GS RBTL	0.55 J	1.1	1.9	1.3	0.71 J	0.4 J	0.61 J	< 1	1.2	1.0	2.0
Tetrachloroethylene	5	MCL	0.28 J	< 1	0.47 J	0.34 J	0.28 J	0.32 J	< 1	< 1	< 1	< 1	0.99 J
Trichloroethene	205	GS RBTL	17	18	43	32	22	20	26	19	48	34	83
Vinyl Chloride	3.86	GS RBTL	< 1	< 1	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1	< 1	< 1

VOCs (µg/L)	GPS	GPS Basis	OLF-G19		
			8/13/04	11/19/19	5/27/20
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1
Trichloroethene	205	GS RBTL	< 1	< 1	< 1
Vinyl Chloride	3.86	GS RBTL	< 1	< 1	< 1

VOCs (µg/L)	GPS	GPS Basis	OLF-G20										
			7/29/04	2/24/06	1/15/08	1/20/11	6/22/16	11/13/17	5/23/18	11/13/18	5/7/19	11/20/19	5/28/20
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	0.69 J	< 1	< 1	< 1	18	< 1	< 1	1.3	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	0.6 J	0.6 J	0.73 J	< 1	1.4	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	0.29 J	< 1	< 1	< 1	0.48 J	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	205	GS RBTL	50	36	51	0.31 J	120	25	15	16	9.2	11	7.7
Vinyl Chloride	3.86	GS RBTL	7.3	7	11	< 0.8	10	7.5	8	10	6.5	7.8	8.4

VOCs (µg/L)	GPS	GPS Basis	OLF-G42										
			8/12/04	2/21/06	1/15/08	1/24/11	9/21/15	5/23/18	11/19/18	5/13/19	11/20/19	5/28/20	
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.4
1,1,2-Trichloroethane	50.2	GS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	205	GS RBTL	2.9	4.6	3.7	2.8	3.1	0.55 J	0.82 J	11	0.69 J	9.3	
Vinyl Chloride	3.86	GS RBTL	5.4	0.94 J	75	47	12	1.9	29	1.4	27	1.8	

VOCs (µg/L)	GPS	GPS Basis	OLF-G71-PORT1							
			2/18/16	6/22/16	11/7/17	5/16/18	11/14/18	5/6/19	11/12/19	5/19/20
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	32	9.4	0.21	5	5.8	7.4	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	2.0 J	1.1	< 1	< 2	< 1	0.55 J	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	0.46 J	< 1	< 2	< 1	< 1	< 1	< 1
Trichloroethene	205	GS RBTL	99	77	15	47	47	83	43	46
Vinyl Chloride	3.86	GS RBTL	5.5	5	4.8	6.9	6.7	6.2	4.7	10

**Table 4-5: On-Site Groundwater Analytical Results for Corrective Action COCs,
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

VOCs (µg/L)	GPS	GPS Basis	OLF-G71-PORT2								
			2/18/16	6/22/16	11/7/17	5/16/18	11/14/18	5/6/19	11/12/19	5/19/20	
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	36	4.1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	2.2 J	0.81 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	0.25 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	205	GS RBTL	99	39	12	9.7	11	10	5.3	0.70 J	
Vinyl Chloride	3.86	GS RBTL	5.1	3.8	2	2.8	2.4	2.3	1.9	0.84 J	

VOCs (µg/L)	GPS	GPS Basis	OLF-G71-PORT3								
			2/18/16	6/22/16	11/7/17	5/16/18	11/14/18	5/6/19	11/12/19	5/19/20	
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	35	8.9	1.4	1.1	0.88 J	0.73 J	< 1	< 1	
1,1,2-Trichloroethane	50.2	GS RBTL	2.1 J	0.64 J	< 1	< 1	< 1	< 1	< 1	< 1	
Tetrachloroethylene	5	MCL	< 1	0.35 J	< 1	< 1	< 1	< 1	< 1	< 1	
Trichloroethene	205	GS RBTL	93	46	47	58	54	52	33	49	
Vinyl Chloride	3.86	GS RBTL	5.7	6.9	3.8	3.8	4.3	3.6	2.6	4.5	

VOCs (µg/L)	GPS	GPS Basis	OLF-G71-PORT4								
			2/18/2016	6/22/16	11/7/17	5/16/18	11/14/18	5/6/19	11/12/19	5/19/20	
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	30	2.3	1.9	1.1	0.73 J	< 1	< 1	< 1	
1,1,2-Trichloroethane	50.2	GS RBTL	2.1 J	0.99 J	0.25 J	< 1	< 1	< 1	< 1	< 1	
Tetrachloroethylene	5	MCL	0.6 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	
Trichloroethene	205	GS RBTL	100	12	23	25	24	22	3.2	8.2	
Vinyl Chloride	3.86	GS RBTL	5.9	2.2	1.7	1.7	2.2	1.6	0.90 J	1.7	

VOCs (µg/L)	GPS	GPS Basis	OLF-G71-PORT5								
			2/18/2016	6/22/16	11/7/17	5/16/18	11/14/18	5/6/19	11/12/19	5/19/20	
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	30	0.64 J	< 1	< 1	< 1	< 1	< 1	< 1	
1,1,2-Trichloroethane	50.2	GS RBTL	2.2 J	0.57 J	< 1	< 1	< 1	< 1	< 1	< 1	
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	
Trichloroethene	205	GS RBTL	61	4.8	0.97 J	< 1	< 1	1.3	< 1	< 1	
Vinyl Chloride	3.86	GS RBTL	5.1	1.3	0.71 J	< 1	< 1	0.5 J	< 1	< 1	

VOCs (µg/L)	GPS	GPS Basis	OLF-G72-PORT1									
			2/18/2016	6/23/16	8/15/17	11/8/17	2/22/18	5/17/18	11/13/18	5/2/19	11/12/19	5/19/20
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	800	990	160	55	0.99 J	< 1	< 1	< 1 (UJ)	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	19 J	23	26	19	3.6	< 1	< 1	< 1 (UJ)	< 1	< 1
Tetrachloroethylene	5	MCL	6.3	11	0.98 J	0.56 J	0.55 J	< 1	< 1	< 1	< 1	< 1
Trichloroethene	205	GS RBTL	1100	1300	11	4.6	0.75 J	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	3.86	GS RBTL	37	30	25	26	1.9	0.52 J	< 1	< 1	0.81 J	< 1

**Table 4-5: On-Site Groundwater Analytical Results for Corrective Action COCs,
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

VOCs (µg/L)	GPS	GPS Basis	OLF-G72-PORT2									
			2/18/16	6/23/16	8/15/17	11/8/17	2/22/18	5/17/18	11/13/18	5/2/19	11/12/19	5/19/20
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	350	650	110	52	15 (J)	5.1	< 5	0.76 J	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	13 J	19	18	7.2	3.8 (J)	< 5	< 5	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	4.5 J	9.2	0.74 J	0.41 J	0.27 J (J)	< 5	< 5	< 1	< 1	< 1
Trichloroethene	205	GS RBTL	730	1200	51	28	12 (J)	6.6	3.2 J	1.7	0.61 J	1.9
Vinyl Chloride	3.86	GS RBTL	47	38	35	18	23 (J)	18	13	4.4	1.0	< 1

VOCs (µg/L)	GPS	GPS Basis	OLF-G72-PORT3									
			2/18/2016	6/23/16	8/15/17	11/8/17	2/22/18	5/17/18	11/13/18	5/2/19	11/12/19	5/19/20
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	610	130	75	21	1.6	1.5	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	19 J	7.9	27	12	0.87 J	0.5 J	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	4.8 J	1.9	0.63 J	0.33 J	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	205	GS RBTL	790	250	49	28	12	19	0.95 J	17	7.8	< 1
Vinyl Chloride	3.86	GS RBTL	29	17	22	16	15	6.1	< 1	1.9	0.73 J	0.67 J

VOCs (µg/L)	GPS	GPS Basis	OLF-G72-PORT4									
			2/18/2016	6/23/16	8/15/17	11/8/17	2/22/18	5/17/18	11/13/18	5/2/19	11/12/19	5/19/20
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	290	42	100	38	12	2.3	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	9.1 J	2.4	40	19	5.3	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	2.7	0.7 J	0.58 J	0.74 J	0.43 J	< 1	< 1	< 1	< 1	< 1
Trichloroethene	205	GS RBTL	460	94	100	70	28	10	1.9	1.5	< 1	< 1
Vinyl Chloride	3.86	GS RBTL	16	3	22	13	12	5.9	2.4	0.58 J	< 1	1.4

VOCs (µg/L)	GPS	GPS Basis	OLF-G72-PORT5									
			2/18/2016	6/23/16	8/15/17	11/8/17	2/22/18	5/17/18	11/13/18	5/2/19	11/12/19	5/19/20
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	570	19	6.8	1.2	0.28 J	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	16 J	3.2	5.6	3.5	0.49 J	0.34 J	0.33 J	0.48 J	< 1	< 1
Tetrachloroethylene	5	MCL	4.5 J	0.32 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	205	GS RBTL	780	28	12	2.6	6.2	9.9	8.7	22	8.8	14
Vinyl Chloride	3.86	GS RBTL	29	2	2.3	2	2.5	1.3	1.8	2.2	1.1	1.3

VOCs (µg/L)	GPS	GPS Basis	OLF-G72-PORT6									
			2/18/2016	6/23/16	8/15/17	11/8/17	2/22/18	5/17/18	11/13/18	5/2/19	11/12/19	5/19/20
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	410	2.8	8.3	3.4	2.1	0.75 J	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	11 J	0.39 J	1.7	1.1	0.9 J	0.68 J	0.69 J	0.47 J	0.47 J	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	0.38 J	0.26 J	0.26 J	< 1	< 1	< 1	< 1	< 1
Trichloroethene	205	GS RBTL	390	16	64	41	42	47	40	29	27	17
Vinyl Chloride	3.86	GS RBTL	16	0.48 J	0.86	0.46 J	0.53 J	< 1	0.59 J	< 1	< 1	< 1

**Table 4-5: On-Site Groundwater Analytical Results for Corrective Action COCs,
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

VOCs (µg/L)	GPS	GPS Basis	OLF-G73-PORT1									
			2/18/2016	6/23/16	8/14/17	11/8/17	2/20/18	5/17/18	11/13/18	5/2/19	11/11/19	5/18/20
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	530	540	110	6.5	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	12	13	19	5.1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	2.6	4.8	0.57 J	0.23 J	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	205	GS RBTL	380	490	4.8	1.3	0.24 J	< 1	< 1	< 2 (UB)	< 1	< 1
Vinyl Chloride	3.86	GS RBTL	2.3	1.3	16	1.6	0.31 J	< 1	< 1	< 1	< 1	< 1

VOCs (µg/L)	GPS	GPS Basis	OLF-G73-PORT2									
			2/18/2016	6/23/16	8/14/17	11/8/17	2/20/18	5/17/18	11/13/18	5/1/19	11/11/19	5/18/20
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	110	82	92	50	9.2	2	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	4.3 J	3.4	7.9	4.3	0.72 J	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	1.1	1.4	1.1	0.68 J	0.22 J	< 1	< 1	< 1	< 1	< 1
Trichloroethene	205	GS RBTL	140	160	98	52	25	15	2.9	3.5 B (B)	3.7	1.6
Vinyl Chloride	3.86	GS RBTL	< 0.8	< 0.8	3.2	9.4	7	4.1	0.81 J	< 1	< 1	< 1

VOCs (µg/L)	GPS	GPS Basis	OLF-G73-PORT3									
			2/18/2016	6/23/16	8/14/17	11/8/17	2/20/18	5/17/18	11/13/18	5/1/19	11/11/19	5/18/20
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	16	10	23 (J)	28	37	< 1	7.8	3.1	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	1.3 J	3.1	3.1 J	2.8	3	< 1	1.2	0.96 J	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	0.33 J	< 5	0.88 J	0.79 J	< 1	< 1	< 1	< 1	< 1
Trichloroethene	205	GS RBTL	34.0	58	100	130	150	7.7	89	61 B (B)	33	13
Vinyl Chloride	3.86	GS RBTL	< 0.8	< 0.8	< 4	< 0.8	0.85	< 1	2.4	2.8	5.6	3.2

VOCs (µg/L)	GPS	GPS Basis	OLF-G73-PORT4									
			2/18/2016	6/23/16	8/14/17	11/8/17	2/20/18	5/17/18	11/13/18	5/1/19	11/11/19	5/18/20
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	2.7	0.25 J	4.1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	1.7 J	0.84 J	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	205	GS RBTL	12	7.5	7.5	9.8	9.7	6.6	5.3	6.2 H	3.5	1.6
Vinyl Chloride	3.86	GS RBTL	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1	< 1	< 1

VOCs (µg/L)	GPS	GPS Basis	OLF-G73-PORT5									
			2/18/2016	6/23/16	8/14/17	11/8/17	2/20/18	5/16/18	11/13/18	5/1/19	11/11/19	5/18/20
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	205	GS RBTL	0.5 J	0.27 J	< 1	< 1	< 1	< 1	0.53 J	< 1	< 1	< 1
Vinyl Chloride	3.86	GS RBTL	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1	< 1	< 1

**Table 4-5: On-Site Groundwater Analytical Results for Corrective Action COCs,
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

VOCs (µg/L)	GPS	GPS Basis	OLF-G74-PORT1					
			2/17/2016	5/16/18	11/12/18	5/1/19	11/11/19	5/18/20
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	2.9	3.4	4	3.3 H	3.0	2.8
1,1,2-Trichloroethane	50.2	GS RBTL	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	205	GS RBTL	1.1	2.4	2.5	2.6 H	1.9	1.3
Vinyl Chloride	3.86	GS RBTL	< 0.8	< 1	< 1	< 1	< 1	< 1

VOCs (µg/L)	GPS	GPS Basis	OLF-G74-PORT2					
			2/17/2016	5/16/18	11/12/18	5/1/19	11/11/19	5/18/20
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	17	160	89	39 H	19	7
1,1,2-Trichloroethane	50.2	GS RBTL	0.9 J	7.8	9	2.3 H	1.0	< 1
Tetrachloroethylene	5	MCL	< 5	< 5	0.82 J	< 1	< 1	< 1
Trichloroethene	205	GS RBTL	17	100	76	76 H	53	23
Vinyl Chloride	3.86	GS RBTL	< 0.8	16	25	14 H	11	6.6

VOCs (µg/L)	GPS	GPS Basis	OLF-G74-PORT3					
			2/17/16	5/16/18	11/12/18	5/1/19	11/11/19	5/18/20
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	< 1	1.6	2.5	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	< 1	0.67 J	1	< 1	0.59 J	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	205	GS RBTL	9	74	98	35 H	44	17
Vinyl Chloride	3.86	GS RBTL	< 0.8	< 1	< 1	< 1	< 1	< 1

VOCs (µg/L)	GPS	GPS Basis	OLF-G74-PORT4					
			2/17/16	5/16/18	11/12/18	5/1/19	11/11/19	5/18/20
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	205	GS RBTL	< 1	7.4	8.3	9.7 H	6.0	4.4
Vinyl Chloride	3.86	GS RBTL	< 0.8	< 1	< 1	< 1	< 1	< 1

VOCs (µg/L)	GPS	GPS Basis	OLF-G74-PORT5					
			2/17/16	5/16/18	11/12/18	5/1/19	11/11/19	5/18/20
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	205	GS RBTL	< 1	2.6	3.2	2.4 H	1.6	1.2
Vinyl Chloride	3.86	GS RBTL	< 0.8	< 1	< 1	< 1	< 1	< 1

**Table 4-5: On-Site Groundwater Analytical Results for Corrective Action COCs,
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

VOCs (µg/L)	GPS	GPS Basis	OLF-G75-SCREEN1						
			7/29/15	9/22/15	5/30/18	11/26/18	5/13/19	11/13/19	5/18/20
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	205	GS RBTL	< 1	0.6 J	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	3.86	GS RBTL	< 0.8	< 0.8	< 1	< 1	< 1	< 1	< 1

VOCs (µg/L)	GPS	GPS Basis	OLF-G75-SCREEN2						
			7/29/15	9/22/15	5/31/18	11/26/18	5/13/19	11/13/19	5/18/20
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	< 1	1.4	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	205	GS RBTL	< 1	5.1	< 1	0.81 J	< 1	0.79 J	< 1
Vinyl Chloride	3.86	GS RBTL	< 0.8	< 0.8	< 1	< 1	< 1	< 1	< 1

VOCs (µg/L)	GPS	GPS Basis	OLF-G75-SCREEN3						
			7/29/15	9/22/15	5/31/18	11/26/18	5/13/19	11/13/19	5/18/20
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	< 1	1.3	RNA	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	< 1	< 1	RNA	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	RNA	< 1	< 1	< 1	< 1
Trichloroethene	205	GS RBTL	< 1	9.1	RNA	3.4	< 1	4.0	< 1
Vinyl Chloride	3.86	GS RBTL	< 0.8	< 0.8	RNA	< 1	< 1	< 1	< 1

VOCs (µg/L)	GPS	GPS Basis	OLF-G75-SCREEN4						
			7/29/15	9/22/15	5/30/18	11/27/18	5/14/19	11/12/19	5/18/20
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1
Trichloroethene	205	GS RBTL	< 1	< 1	< 1	< 1	< 1 (UJ)	6.3	< 1
Vinyl Chloride	3.86	GS RBTL	< 0.8	< 0.8	< 1	< 1	< 1 (UJ)	< 1	< 1

VOCs (µg/L)	GPS	GPS Basis	OLF-G75-SCREEN5						
			7/29/15	9/22/15	5/30/18	11/27/18	5/14/19	11/12/19	5/18/20
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1
Trichloroethene	205	GS RBTL	< 1	< 1	< 1	< 1	< 1 (UJ)	8.8	< 1
Vinyl Chloride	3.86	GS RBTL	< 0.8	< 0.8	< 1	< 1	< 1 (UJ)	< 1	< 1

**Table 4-5: On-Site Groundwater Analytical Results for Corrective Action COCs,
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

VOCs (µg/L)	GPS	GPS Basis	OLF-G75-SCREEN6						
			7/29/15	9/22/15	5/30/18	11/27/18	5/14/19	11/12/19	5/18/20
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1
Trichloroethene	205	GS RBTL	< 1	0.6 J	< 1	< 1	< 1 (UJ)	< 1	< 1
Vinyl Chloride	3.86	GS RBTL	< 0.8	< 0.8	< 1	< 1	< 1 (UJ)	< 1	< 1

VOCs (µg/L)	GPS	GPS Basis	OLF-G77									
			9/21/15	6/23/16	8/14/17	11/13/17	2/15/18	5/17/18	11/13/18	5/6/19	11/20/19	5/28/20
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	1600	2200	1700	1200	1400	1200	1000	1200	1100	980
1,1,2-Trichloroethane	50.2	GS RBTL	30 J	37	29	28	33	26	27	32	21	28
Tetrachloroethylene	5	MCL	38	15	13	9.7	7.1	7	< 10	6.7	6.2	5.3
Trichloroethene	205	GS RBTL	1600	1600	1400	1100	870	790	620	670	490 (J)	380
Vinyl Chloride	3.86	GS RBTL	< 0.8	5.2	3.8	2.2	3.2	5.6	< 10	9.4	8.2	15

VOCs (µg/L)	GPS	GPS Basis	OLF-G78							
			9/21/2015	6/23/16	11/13/17	5/16/18	11/12/18	5/6/19	11/20/19	5/28/20
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	25	34	9.9	18	8	9.8	5	14
1,1,2-Trichloroethane	50.2	GS RBTL	< 1	0.81 J	1.3	0.58 J	0.39 J	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	0.31 J	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	205	GS RBTL	30	42	12	22	7	11	3.3	16
Vinyl Chloride	3.86	GS RBTL	< 0.8	0.2 J	0.2 J	< 1	< 1	< 1	< 1	< 1

VOCs (µg/L)	GPS	GPS Basis	PPMP-229-GP12								
			1/20/11	9/24/15	6/14/16	11/9/17	5/17/18	11/14/18	5/14/19	11/13/19	5/20/20
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1
Trichloroethene	205	GS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1
Vinyl Chloride	3.86	GS RBTL	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1 (UJ)	< 1	< 1

**Table 4-5: On-Site Groundwater Analytical Results for Corrective Action COCs,
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

Notes:

µg/L = micrograms per liter

Shaded indicates detection greater than the GPS.

GPS = Groundwater Protection Standard

GS = Groundskeeper

MCL = Maximum Contamination Limit

RBTL = Risk-Based Target Level

RNA = Requested; not analyzed due to an oversight.

Lab Flag

B = Analyte detected in an associated blank.

H = Extraction or analysis holding time exceeded.

J = Result is estimated; detected between the method detection limit and the reporting limit.

Validation Flag (in parentheses)

B = Analyte detected in an associated blank.

J = Result is estimated based on data validation.

UB = Analyte considered not detected based on concentration in associated blank.

UJ = Reporting limit estimated based on QC acceptance criteria outliers.

**Table 4-6: Off-Site Groundwater Analytical Results for Corrective Action COCs,
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

VOCs (µg/L)	GPS	GPS Basis	OLF-G12										
			8/15/04	3/2/06	1/14/08	2/1/11	6/20/16	11/16/17	5/22/18	11/19/18	5/9/19	11/19/19	5/29/20
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	390	770	510	370	320	360	390	310	230	150	130
1,1,2-Trichloroethane	7.2	RS RBTL	4.2	8.3	5.9	5	4.9	6.5	6	6.5	4.7 J	3.6	3.0
Tetrachloroethylene	5	MCL	2.3	2.2	1.1	1.3	2.4	2.8	< 5	< 5	< 5	1.2	1.1
Trichloroethene	38.3	RS RBTL	170	230	190	160	210	230	240	200	170	120	99
Vinyl Chloride	2	MCL	< 1	< 1	< 1	< 0.8	< 0.8	< 0.8	< 5	< 5	< 5	< 1	< 1

VOCs (µg/L)	GPS	GPS Basis	OLF-G18										
			8/12/04	1/14/08	2/1/11	6/21/16	11/15/17	5/23/18	11/19/18	5/9/19	11/19/19	5/27/20	
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	7.2	RS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	38.3	RS RBTL	< 1	< 1	< 1	< 1	0.59 J	< 1	< 1	52	< 1	< 1	< 1
Vinyl Chloride	2	MCL	< 1	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1	< 1	< 1	< 1

VOCs (µg/L)	GPS	GPS Basis	OLF-G21										
			8/12/04	1/16/08	1/31/11	6/21/16	11/14/17	5/23/18	11/19/18	5/9/19	11/19/19	5/27/20	
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	7.2	RS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	38.3	RS RBTL	< 1	< 1	< 1	< 1	0.63 J	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	2	MCL	< 1	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1	< 1	< 1	< 1

VOCs (µg/L)	GPS	GPS Basis	OLF-G22										
			8/15/04	3/2/06	1/16/08	2/1/11	6/20/16	11/15/17	5/22/18	11/27/18	5/9/19	11/19/19	5/27/20
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	58	37	66	73	100	190	140	100	58	59	49
1,1,2-Trichloroethane	7.2	RS RBTL	0.94 J	0.92 J	1.3	1.8	2.6	5.3	4.1 J	3	2.3	2.5	2.0
Tetrachloroethylene	5	MCL	0.64 J	0.25 J	0.38 J	0.5 J	1.3	1.3	< 5	1	0.96 J	0.82 J	< 1
Trichloroethene	38.3	RS RBTL	63	39	51	87	160	180	160	110	100	110	110
Vinyl Chloride	2	MCL	< 1	< 1	< 1	< 0.8	< 0.8	< 0.8	< 5 (UJ)	1.4	0.7 J	1.9	1.2

**Table 4-6: Off-Site Groundwater Analytical Results for Corrective Action COCs,
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

VOCs (µg/L)	GPS	GPS Basis	OLF-G23										
			8/15/04	3/1/06	1/16/08	2/1/11	6/21/16	11/14/17	5/21/18	11/15/18	5/8/19	11/18/19	5/28/20
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	220	220	300	290	210	260	200	230	150	100 (J)	96
1,1,2-Trichloroethane	7.2	RS RBTL	2.4	2.9	2.9	4.7	4.5	6.5	5.5	7.7	5.5	3.8 (J)	3.1
Tetrachloroethylene	5	MCL	1.7	0.64 J	0.87 J	1.1	1.8	1.4	1.3	< 5	< 5	0.76 J (J)	0.74 J
Trichloroethene	38.3	RS RBTL	130	93	150	190	210	170	150	160	150	110 (J)	100
Vinyl Chloride	2	MCL	< 1	< 1	< 1	< 0.8	< 0.8	0.51 J	2.8	3.2 J	< 5	< 1 (UJ)	2.5

VOCs (µg/L)	GPS	GPS Basis	OLF-G24										
			8/15/04	3/1/06	1/14/08	2/1/11	6/21/16	11/14/17	5/21/18	11/15/18	5/8/19	11/18/19	5/26/20
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	7.2	RS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	38.3	RS RBTL	< 1	< 1	< 1	< 1	< 1	1.1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	2	MCL	< 1	< 1	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1	< 1	< 1

VOCs (µg/L)	GPS	GPS Basis	OLF-G26			
			8/13/04	2/17/06	11/20/19	5/20/20
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	7.2	RS RBTL	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	0.39 J	< 1	< 1
Trichloroethene	38.3	RS RBTL	< 1	< 1	< 1	< 1
Vinyl Chloride	2	MCL	< 1	< 1	1.0	< 1

VOCs (µg/L)	GPS	GPS Basis	OLF-G31										
			8/14/04	2/27/06	1/17/08	1/25/11	6/22/16	11/9/17	5/18/18	11/26/18	5/15/19	11/11/19	5/19/20
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	7.2	RS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	38.3	RS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	0.57 J	< 1	< 1	< 1	< 1
Vinyl Chloride	2	MCL	< 1	< 1	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1 (UJ)	< 1	< 1

**Table 4-6: Off-Site Groundwater Analytical Results for Corrective Action COCs,
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

VOCs (µg/L)	GPS	GPS Basis	OLF-G32											
			8/18/04	2/27/06	1/17/08	1/25/11	6/22/16	11/9/17	5/18/18	11/26/18	5/14/19	11/11/19	5/19/20	
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1
1,1,2-Trichloroethane	7.2	RS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1
Trichloroethene	38.3	RS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1
Vinyl Chloride	2	MCL	< 1	< 1	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1

VOCs (µg/L)	GPS	GPS Basis	OLF-G33							
			8/16/04	3/1/06	1/16/08	2/2/11	6/15/16	11/14/17	5/21/18	11/20/18
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	2.2	2.3	2.2	< 1	4.4	3.4	3.8	4.5
1,1,2-Trichloroethane	7.2	RS RBTL	0.35 J	0.34 J	0.39 J	< 1	0.78 J	0.79 J	0.69 J	0.56 J
Tetrachloroethylene	5	MCL	0.54 J	0.21 J	0.29 J	< 1	0.59 J	0.59 J	< 1	< 1
Trichloroethene	38.3	RS RBTL	85	44	60	16	91	74	89	97
Vinyl Chloride	2	MCL	< 1	< 1	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1

VOCs (µg/L)	GPS	GPS Basis	OLF-G34							
			8/16/04	3/1/06	1/16/08	2/2/11	6/17/16	11/14/17	5/30/18	11/19/18
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	6.7	5.6	5	< 1	34	0.45 J	< 1	< 1
1,1,2-Trichloroethane	7.2	RS RBTL	< 1	0.25 J	0.35 J	< 1	1.1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	0.37 J	< 1	< 1	< 1	0.65 J	< 1	< 1	< 1
Trichloroethene	38.3	RS RBTL	34	20	34	1.3	86	2.8	2.3	1.2
Vinyl Chloride	2	MCL	< 1	< 1	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1

VOCs (µg/L)	GPS	GPS Basis	OLF-G35										
			8/15/04	3/1/06	1/16/08	2/1/11	6/21/16	11/15/17	5/21/18	11/15/18	5/8/19	11/19/19	5/26/20
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	< 1	< 1	1.8	< 1	< 1	0.43 J	1.8	1.9	< 1	< 1	< 1
1,1,2-Trichloroethane	7.2	RS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	38.3	RS RBTL	0.39 J	< 1	2.2	< 1	1.4	1.4	9.3	11	4.7	0.64 J	< 1
Vinyl Chloride	2	MCL	< 1	< 1	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1	< 1	< 1

**Table 4-6: Off-Site Groundwater Analytical Results for Corrective Action COCs,
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

VOCs (µg/L)	GPS	GPS Basis	OLF-G36								
			8/15/04	3/2/06	6/20/16	11/15/17	5/30/18	11/19/18	5/9/19	11/19/19	5/27/20
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	< 1	< 1	< 1	0.33 J	< 1	< 1	1.4	1.2	< 1
1,1,2-Trichloroethane	7.2	RS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	38.3	RS RBTL	< 1	< 1	< 1	4	1.3	0.61 J	0.61 J	< 1	< 1
Vinyl Chloride	2	MCL	< 1	< 1	< 0.8	< 0.8	< 1	< 1	< 1	< 1	< 1

VOCs (µg/L)	GPS	GPS Basis	OLF-G43					
			8/16/04	2/28/06	1/16/08	1/31/11	11/19/20	5/20/20
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	< 1	< 1	< 1	< 1	3.1	< 1
1,1,2-Trichloroethane	7.2	RS RBTL	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	38.3	RS RBTL	0.46 J	0.34 J	0.31 J	0.48 J	0.89 J	0.80 J
Vinyl Chloride	2	MCL	< 1	< 1	< 1	< 1	< 1	< 1

VOCs (µg/L)	GPS	GPS Basis	OLF-G47										
			8/18/04	2/28/06	1/18/08	2/2/11	6/16/16	11/14/17	5/22/18	11/28/18	5/9/19	11/18/19	5/26/20
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	1	1.4	1.5	< 1	2.5	2	1.9	1.9	2.3	1.3	< 1
1,1,2-Trichloroethane	7.2	RS RBTL	< 1	< 1	0.2 J	< 1	0.32 J	0.38 J	< 1	0.4 J	0.35 J	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.75 J	< 1
Trichloroethene	38.3	RS RBTL	15	9.6	11	3.8	28	29	32	34	34	24	1.8
Vinyl Chloride	2	MCL	< 1	< 1	< 1	0.28 J	< 0.8	< 0.8	< 1	< 1	< 1	< 1	< 1

VOCs (µg/L)	GPS	GPS Basis	OLF-G48										
			8/18/04	2/28/06	1/18/08	2/3/11	6/16/16	11/14/17	5/22/18	11/15/18	5/8/19	11/18/19	5/26/20
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	< 1	< 1	< 1	< 1	0.22 J	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	7.2	RS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	38.3	RS RBTL	1	0.46 J	1.4	1.7	3.9	3.5	3.9	3.8	1.2	3.9	4.3
Vinyl Chloride	2	MCL	< 1	< 1	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1	< 1	< 1

**Table 4-6: Off-Site Groundwater Analytical Results for Corrective Action COCs,
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

VOCs (µg/L)	GPS	GPS Basis	OLF-G49			
			8/16/04	2/17/06	11/13/19	05/20/20
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	7.2	RS RBTL	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1
Trichloroethene	38.3	RS RBTL	1	0.46 J	1.4	1.7
Vinyl Chloride	2	MCL	< 1	< 1	< 1	< 0.8

VOCs (µg/L)	GPS	GPS Basis	OLF-G50					
			8/16/04	2/17/06	1/17/08	2/3/11	11/13/19	5/20/20
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	11	16	17	15	13	18
1,1,2-Trichloroethane	7.2	RS RBTL	0.28 J	0.5 J	0.53 J	0.46 J	0.57 J	0.57 J
Tetrachloroethylene	5	MCL	0.42 J	0.27 J	0.29 J	0.29 J	< 1	< 1
Trichloroethene	38.3	RS RBTL	51	50	53	46	53	59
Vinyl Chloride	2	MCL	< 1	< 1	< 1	< 0.8	< 1	< 1

VOCs (µg/L)	GPS	GPS Basis	OLF-G51					
			8/16/04	2/17/06	1/17/08	1/31/11	11/13/19	5/20/20
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	< 1	< 1	5.8	5.2	2.5	0.89 J
1,1,2-Trichloroethane	7.2	RS RBTL	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	38.3	RS RBTL	0.42 J	< 1	9.4	12	14	3.2
Vinyl Chloride	2	MCL	< 1	< 1	< 1	< 0.8	< 1	< 1

VOCs (µg/L)	GPS	GPS Basis	OLF-G52										
			8/18/04	2/27/06	1/18/08	1/31/11	6/15/16	11/8/17	5/21/18	11/20/18	5/9/19	11/11/19	5/19/20
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	7.2	RS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1
Trichloroethene	38.3	RS RBTL	4.2	2.1	2.6	3	6.4	6.7	7.7	8.7	5.9	7.7 (J)	9.7
Vinyl Chloride	2	MCL	< 1	< 1	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1	< 1 (UJ)	< 1

**Table 4-6: Off-Site Groundwater Analytical Results for Corrective Action COCs,
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

VOCs (µg/L)	GPS	GPS Basis	OLF-G70									
			2/28/06	1/17/08	1/27/11	6/15/16	11/8/17	5/21/18	11/26/18	5/15/19	11/18/19	5/19/20
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	7.2	RS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	38.3	RS RBTL	2	2.8	3.7	6.5	7.4	8.2	8.1	9.3	8.3	12
Vinyl Chloride	2	MCL	< 1	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1 (UJ)	< 1	< 1

Notes:

µg/L = micrograms per liter

Shaded indicates detection greater than the GPS.

GPS = Groundwater Protection Standard

RS = Residential

MCL = Maximum Contamination Limit

NS = Not scheduled to be sampled

RBTL = Risk-Based Target Level

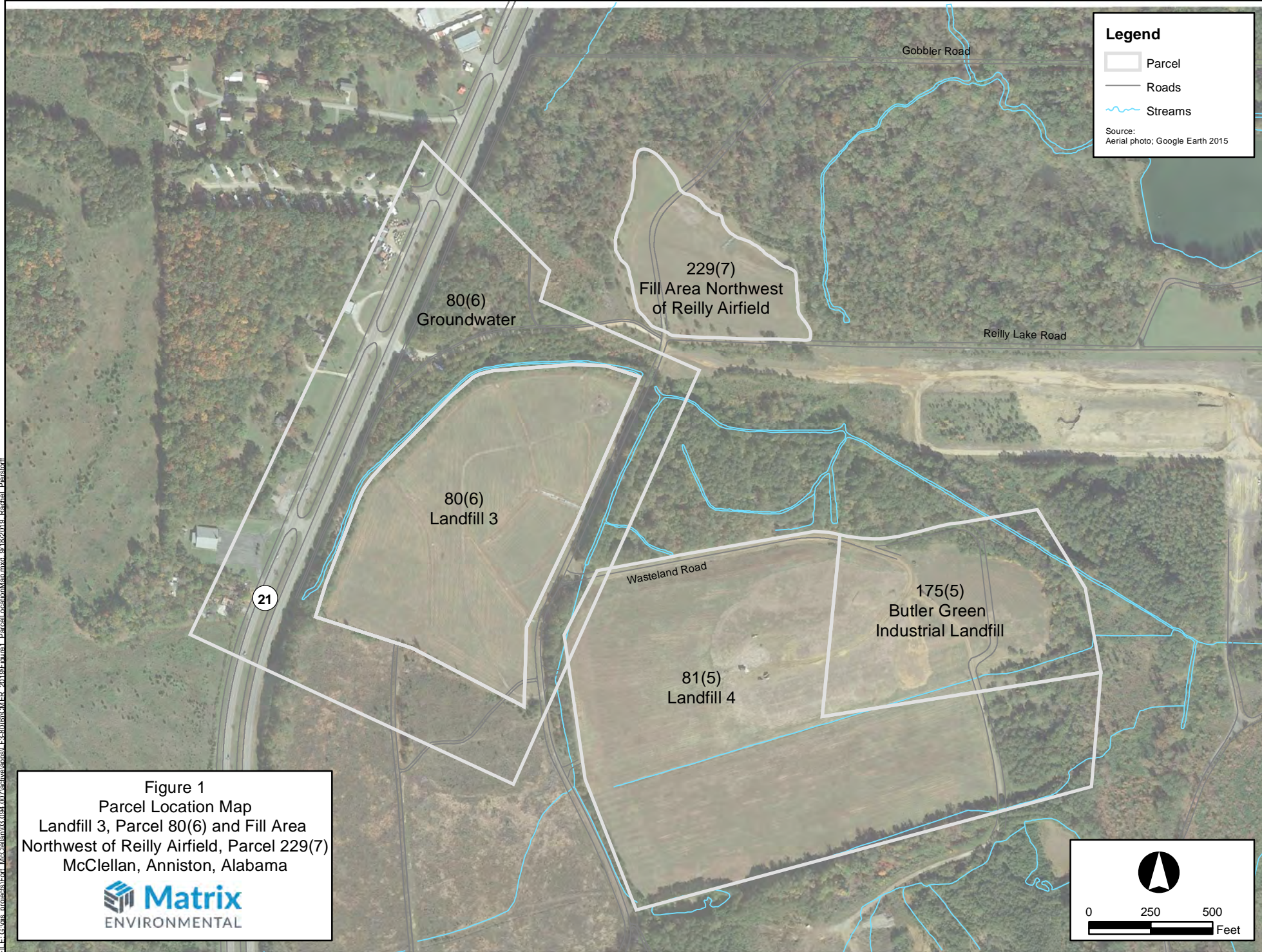
Lab Flag

J = Result is estimated; detected between the method detection limit and the reporting limit.

Validation Flag (in parenthesis)

UJ = Reporting limit is estimated based on data validation.

Figures





Legend

- Parcel
- Roads
- ~ Streams

Source:
Aerial photo; Google Earth 2015

Figure 1
Parcel Location Map
 Landfill 3, Parcel 80(6) and Fill Area
 Northwest of Reilly Airfield, Parcel 229(7)
 McClellan, Anniston, Alabama

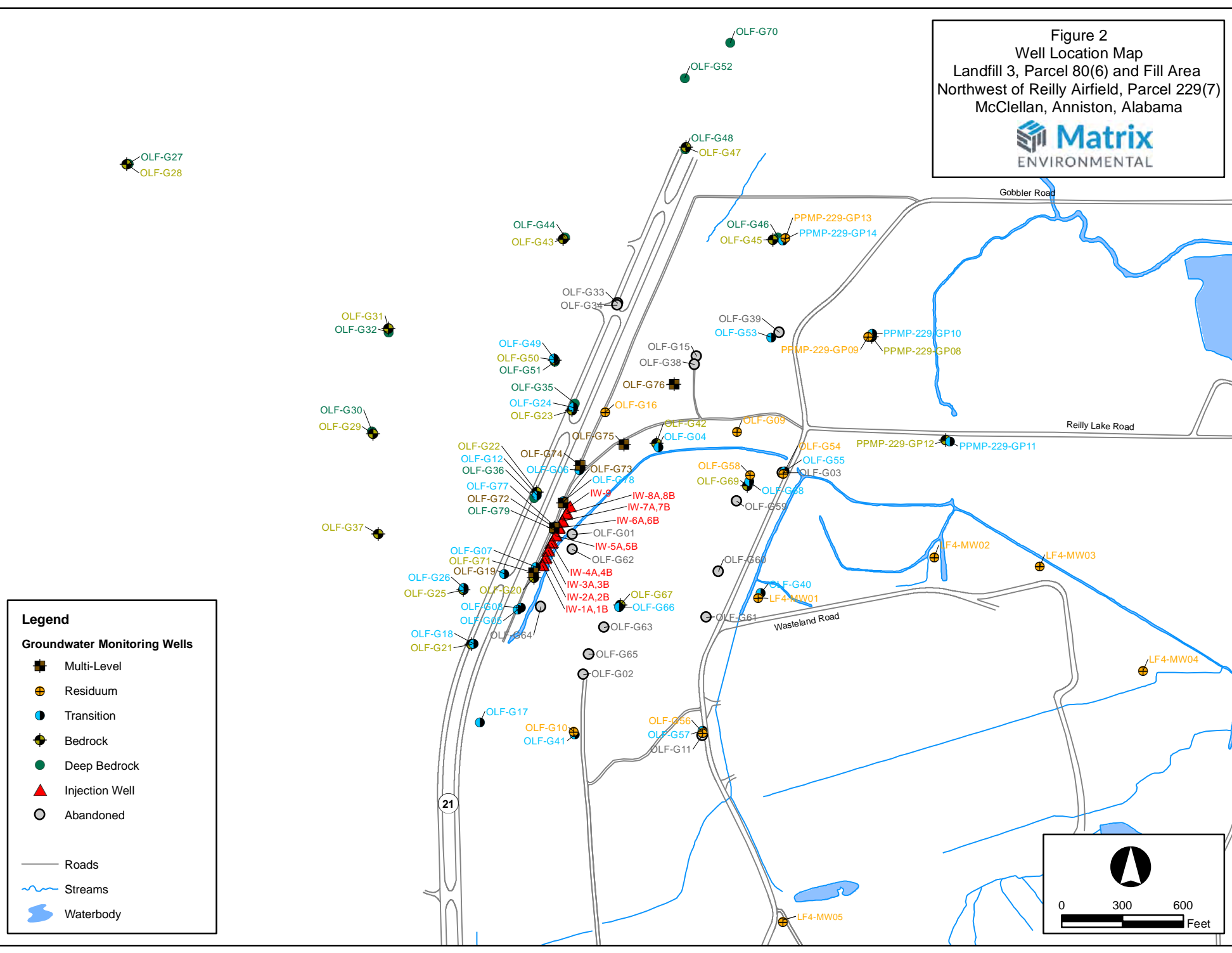
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 Feet

FILE:G:\gis_projects\for_McClellan\03_051_007\active\honal\F3_80(6)\CMER_2016\Figures_ParcelLocationMap.mxd 9/18/2019 Rachel Pleasanth

Figure 2
Well Location Map
Landfill 3, Parcel 80(6) and Fill Area
Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama



FILE:G:\gis_projects\Anniston_McClellan\03_034_017\active\annosul\F3_80(6)\CMR_2018\Figure2_WellLocationMap_2020_09_24_DAF.mxd 9/24/2020 Draw: Phillips



Legend

Groundwater Monitoring Wells

- Multi-Level
- Residuum
- Transition
- Bedrock
- Deep Bedrock
- Injection Well
- Abandoned

— Roads

~ Streams

Waterbody

0 300 600
Feet

Residuum

Transition

FILE: G:\gis_projects\Fort_McClellan\03_094_007\active\apps\LF3-80\CMER_2020\Figure3_Residuum_Transition_GWE_Nov19_Correction_2020_09_21_DAP.mxd, 9/23/2020, Drew Phillips

Legend

- Monitoring Well
- Potentiometric Surface
- Flow Direction
- Parcel
- Stream
- Roads
- Estimated Fault Line

Note:
Groundwater elevations in feet mean sea level (MSL) collected November 2019

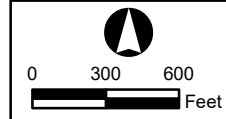
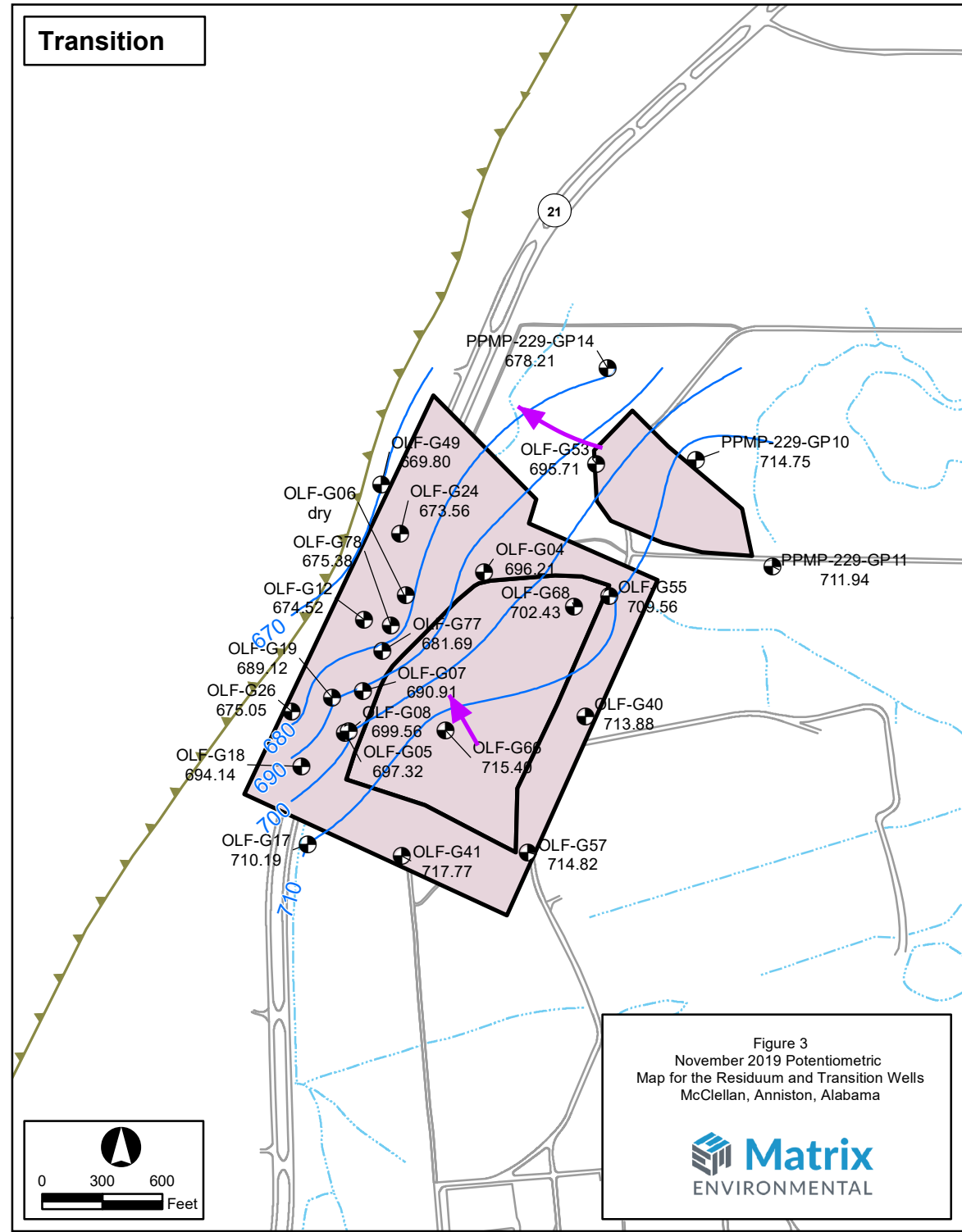
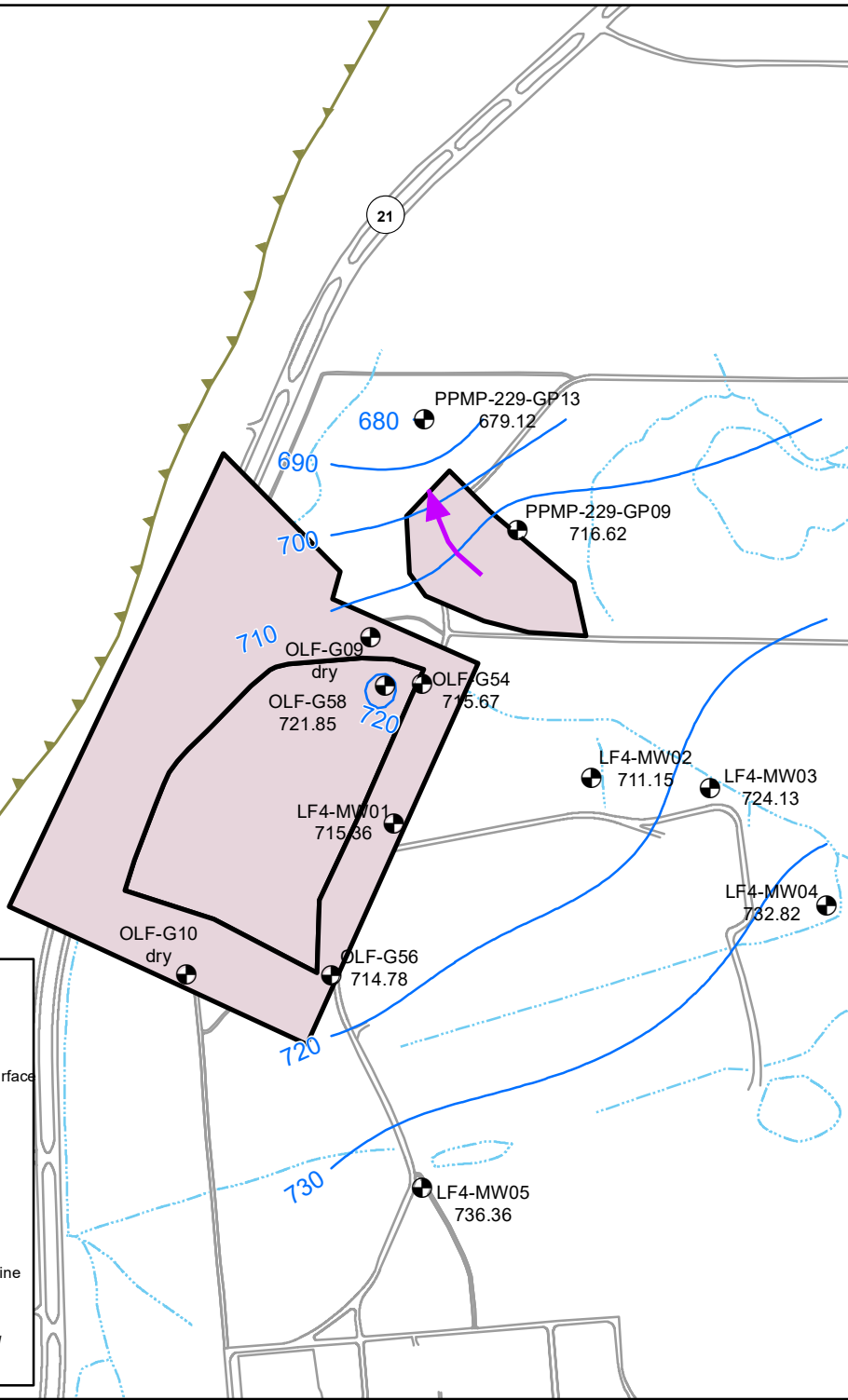
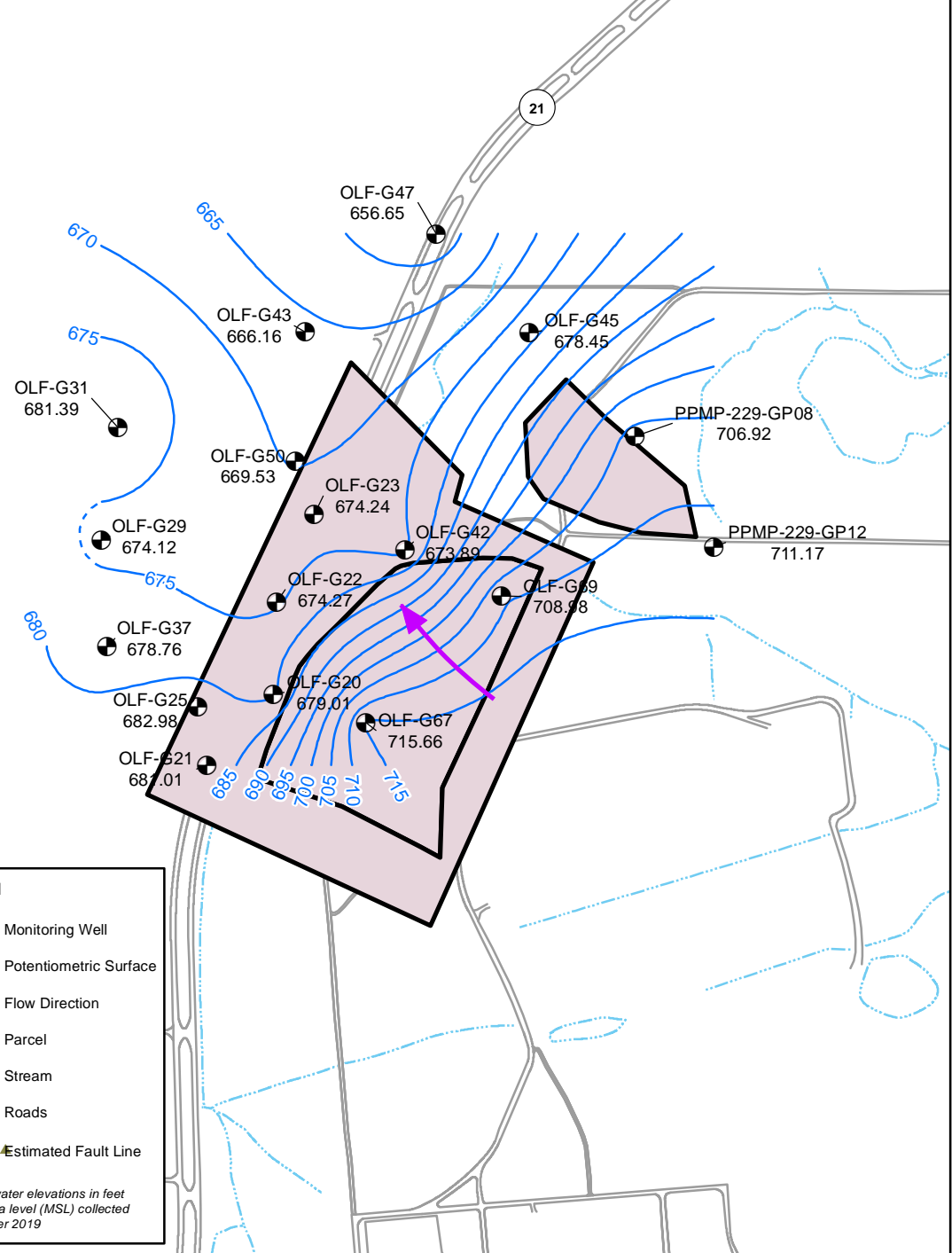


Figure 3
November 2019 Potentiometric Map for the Residuum and Transition Wells
McClellan, Anniston, Alabama

FILE: G:\gis_projects\For_McClellan\03_094_007\active\mapsl\F3-80\CIMER_2020\Figure4_Bedrock_DeepBedrock_GWE_Nov2019_corrections_2020_09_24_DAP.mxd_9/24/2020_Drew_Phillips

Bedrock



Legend

- Monitoring Well
- Potentiometric Surface
- Flow Direction
- Parcel
- Stream
- Roads
- Estimated Fault Line

*Note:
Groundwater elevations in feet
mean sea level (MSL) collected
November 2019*

Deep Bedrock

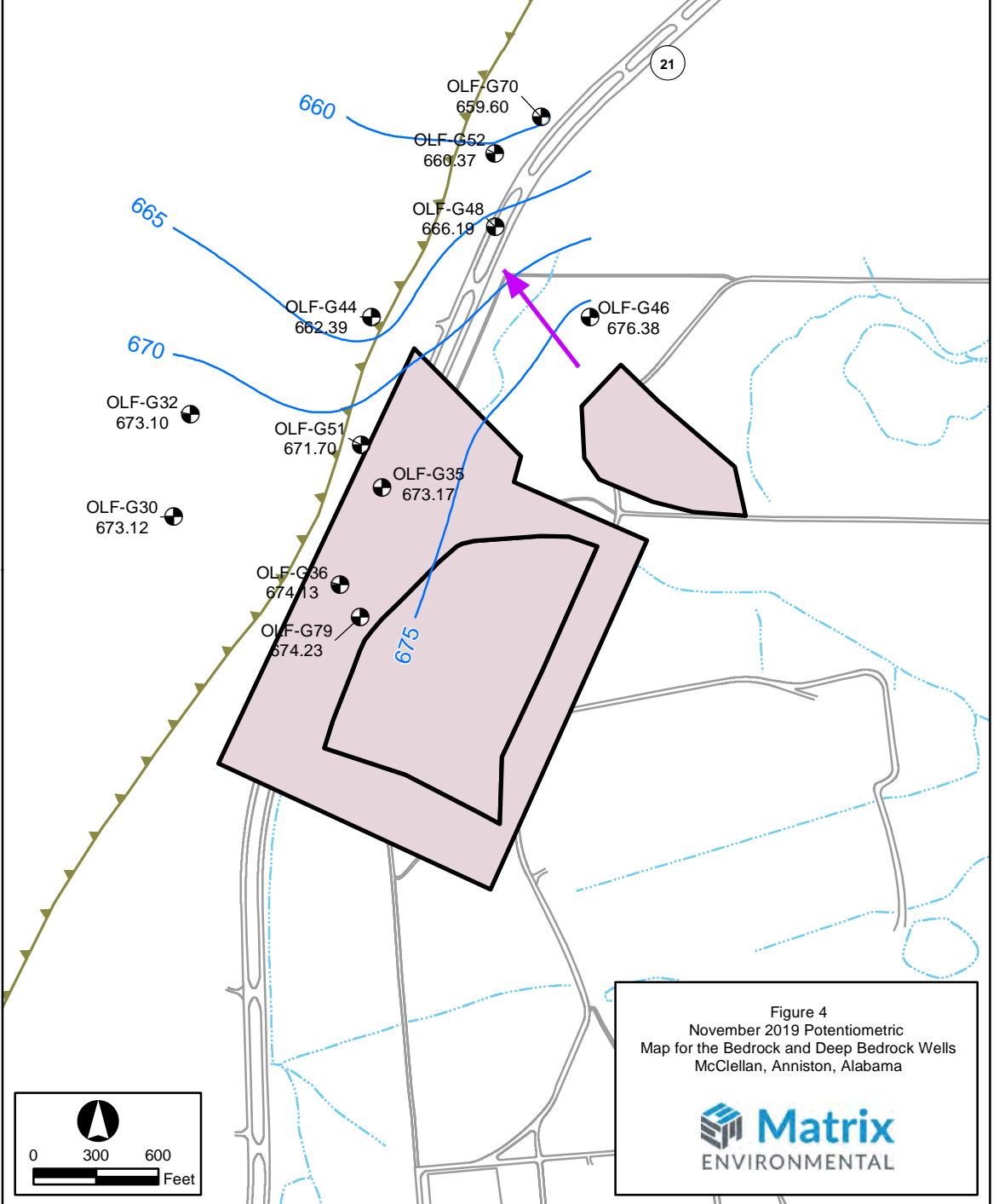
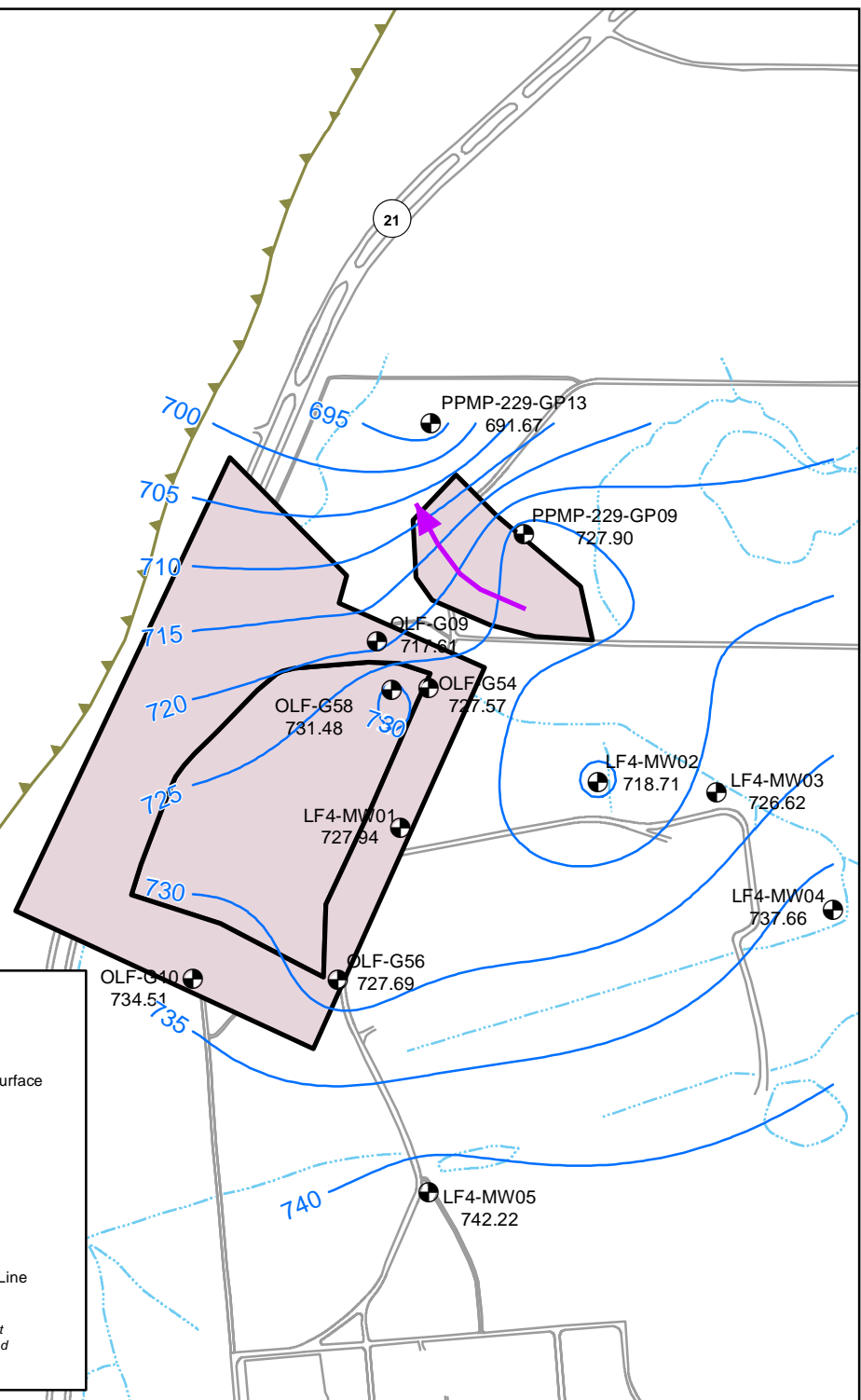


Figure 4
November 2019 Potentiometric
Map for the Bedrock and Deep Bedrock
Wells
McClellan, Anniston, Alabama

Residuum

FILE: G:\gis_projects\Fort_McClellan\03_094_007\active\apps\LF3-80\CMER_2020\Figures_Residuum_Transition_GWE_May2020_connections_2020_09_24_DAP.mxd, 9/24/2020, Drew Phillips



Legend

- Monitoring Well
- Potentiometric Surface
- Flow Direction
- Parcel
- Stream
- Roads
- Estimated Fault Line

Note:
Groundwater elevations in feet
mean sea level (MSL) collected
May 2020

Transition

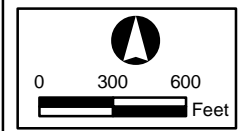
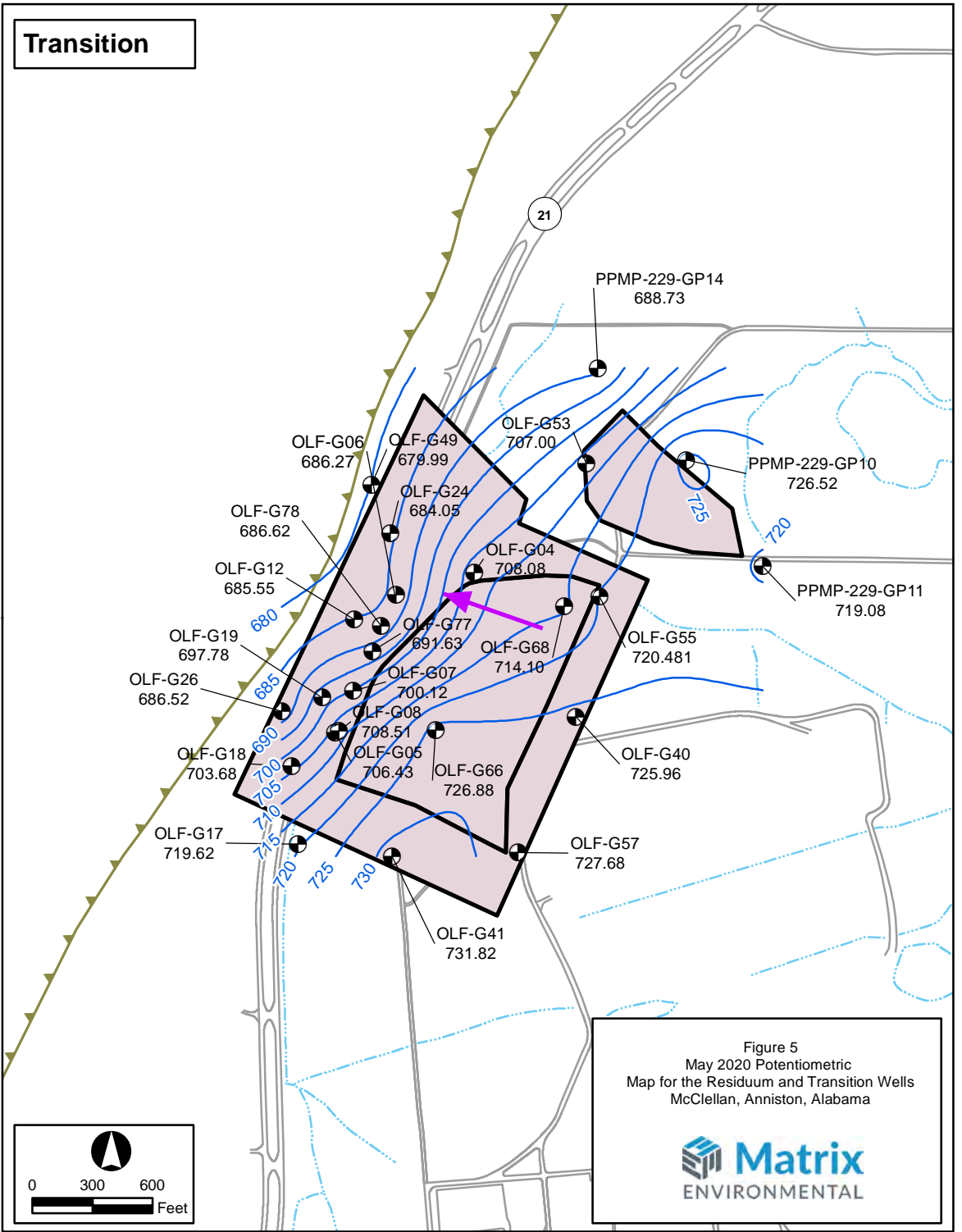
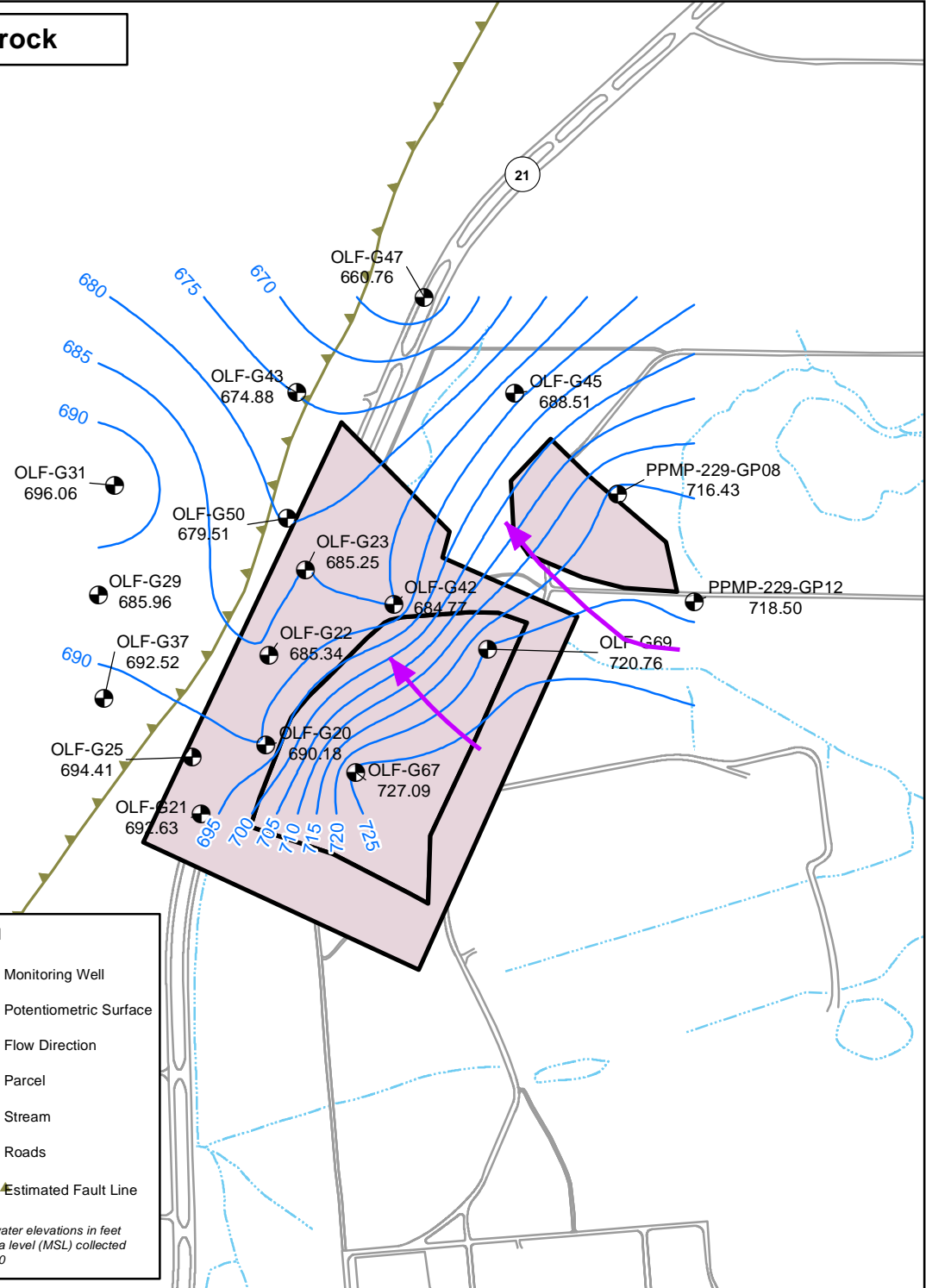


Figure 5
May 2020 Potentiometric
Map for the Residuum and Transition Wells
McClellan, Anniston, Alabama

FILE:G:\gis_projects\Fort_McClellan\03_094_007\active\gmspl\F3-80\CIMER_2020\Figure6_Bedrock_DeepBedrock_GWE_May2020_corrections_2020_09_24_DAP.mxd, 9/24/2020, Drew Phillips

Bedrock



Deep Bedrock

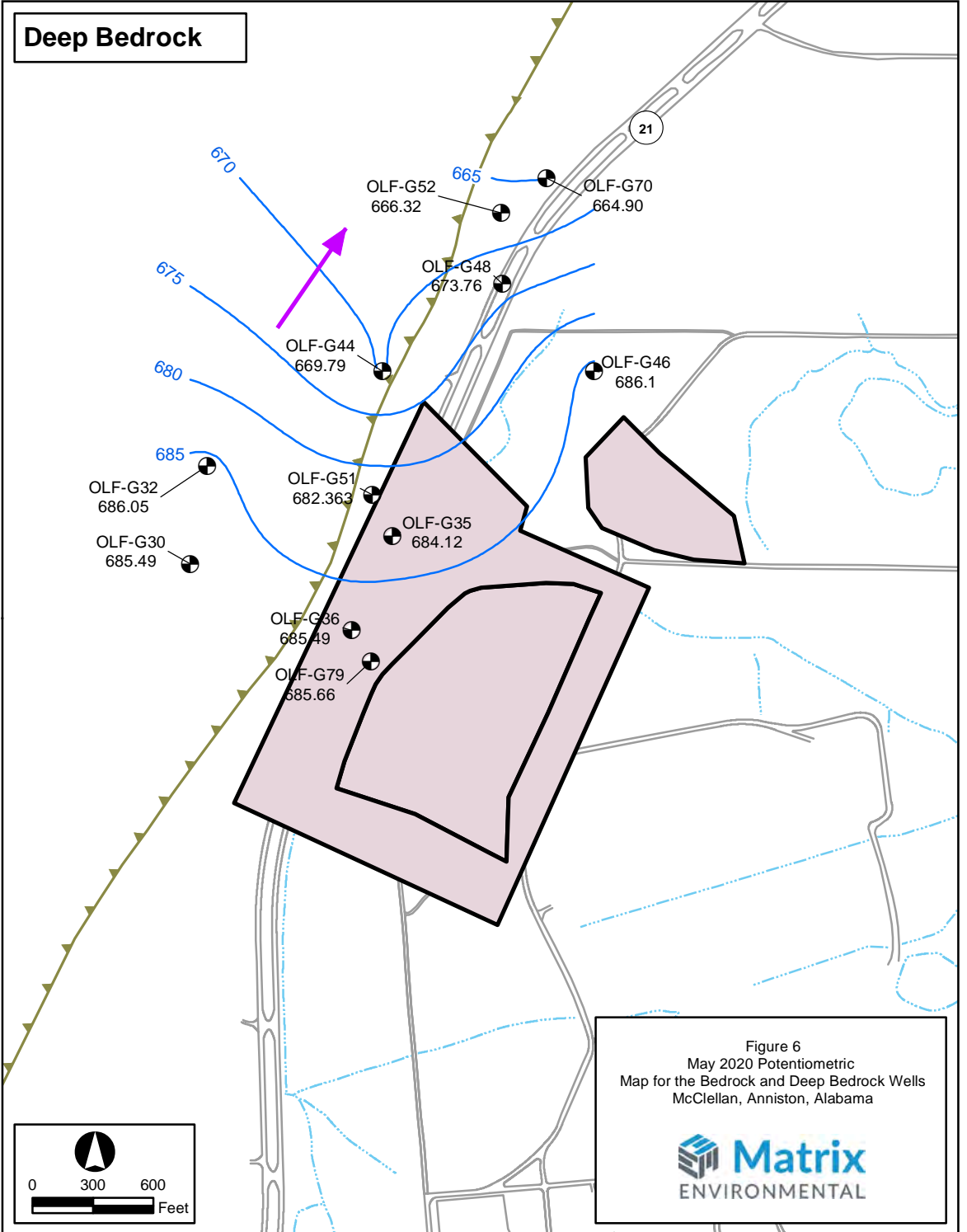



Figure 6
 May 2020 Potentiometric
 Map for the Bedrock and Deep Bedrock Wells
 McClellan, Anniston, Alabama

Figure 7
 Corrective Action COCs in On-Site Groundwater Wells
 Landfill 3, Parcel 80(6) and Fill Area
 Northwest of Reilly Airfield, Parcel 229(7)
 McClellan, Anniston, Alabama



OLF-G72 P1	11/12/19	5/19/20	OLF-G72 P4	11/12/19	5/19/20
1,1,2,2-TCA	<1	<1	1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1	1,1,2-TCA	<1	<1
PERC	<1	<1	PERC	<1	<1
TCE	<1	<1	TCE	<1	<1
VC	0.81J	<1	VC	<1	1.4

OLF-G72 P2	11/12/19	5/19/20	OLF-G72 P5	11/12/19	5/19/20
1,1,2,2-TCA	<1	<1	1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1	1,1,2-TCA	<1	<1
PERC	<1	<1	PERC	<1	<1
TCE	0.61J	1.9	TCE	8.8	14
VC	1.0	<1	VC	1.1	1.3

OLF-G72 P3	11/12/19	5/19/20	OLF-G72 P6	11/12/19	5/19/20
1,1,2,2-TCA	<1	<1	1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1	1,1,2-TCA	0.47J	<1
PERC	<1	<1	PERC	<1	<1
TCE	7.8	<1	TCE	27	17
VC	0.73J	0.67J	VC	<1	<1

OLF-G07	11/20/2019	5/28/2020
1,1,2,2-TCA	67	180
1,1,2-TCA	1	2
PERC	<1	0.99J
TCE	34	83
VC	<1	<1

OLF-G71 P1	11/12/19	5/19/20
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	43	46
VC	4.7	10

OLF-G71 P2	11/12/19	5/19/20
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	5.3	0.70J
VC	1.9	0.84J

OLF-G71 P3	11/12/19	5/19/20
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	33	49
VC	2.6	4.5

OLF-G71 P4	11/12/19	5/19/20
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	3.2	8.2
VC	0.90J	1.7

OLF-G71 P5	11/12/19	5/19/20
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	<1	<1
VC	<1	<1

OLF-G74 P1	11/11/19	5/18/20
1,1,2,2-TCA	3.0	2.8
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	1.9	1.3
VC	<1	<1

OLF-G74 P2	11/11/19	5/18/20
1,1,2,2-TCA	19	7.0
1,1,2-TCA	1.0	<1
PERC	<1	<1
TCE	53	23
VC	11	6.6

OLF-G74 P3	11/11/19	5/18/20
1,1,2,2-TCA	<1	<1
1,1,2-TCA	0.59J	<1
PERC	<1	<1
TCE	44	17
VC	<1	<1

OLF-G74 P4	11/11/19	5/18/20
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	6.0	4.4
VC	<1	<1

OLF-G74 P5	11/11/19	5/18/20
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	1.6	1.2
VC	<1	<1

OLF-G75 S1	11/13/19	5/18/20
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	<1	<1
VC	<1	<1

OLF-G75 S2	11/13/19	5/18/20
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	0.79J	<1
VC	<1	<1

OLF-G75 S3	11/13/19	5/18/20
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	4.0	<1
VC	<1	<1

OLF-G75 S4	11/12/19	5/18/20
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	6.3	<1
VC	<1	<1

OLF-G75 S5	11/12/19	5/18/20
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	8.8	<1
VC	<1	<1

OLF-G75 S6	11/12/19	5/18/20
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	<1	<1
VC	<1	<1

OLF-G42	11/20/19	5/28/20
1,1,2,2-TCA	<1	1.4
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	0.69J	9.3
VC	27	1.8

PPMP-229-12	11/13/19	5/20/20
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	<1	<1
VC	<1	<1

OLF-G78	11/20/19	5/28/20
1,1,2,2-TCA	5.0	14
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	3.3	16
VC	<1	<1

OLF-G73 P1	11/11/19	5/18/20
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	<1	<1
VC	<1	<1

OLF-G73 P2	11/11/19	5/18/20
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	3.7	1.6
VC	<1	<1

OLF-G73 P3	11/11/19	5/18/20
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	33	13
VC	5.6	3.2

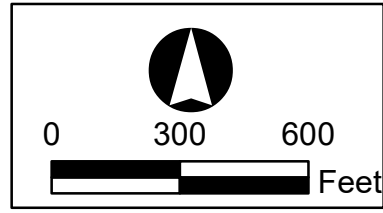
OLF-G73 P4	11/11/19	5/18/20
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	3.5	1.6
VC	<1	<1

OLF-G73 P5	11/11/19	5/18/20
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	<1	<1
VC	<1	<1

OLF-G19	11/19/19	5/27/20
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	<1	<1
VC	<1	<1

OLF-G20	11/20/19	5/28/20
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	11	7.7
VC	7.8	8.4

OLF-G77	11/20/19	5/28/20
1,1,2,2-TCA	1100	980
1,1,2-TCA	21	28
PERC	6.2	5.3
TCE	490 (J)	380
VC	8.2	15



Legend

- Groundwater Monitoring Wells:
 - Multi-Level
 - Residuum
 - Transition
- Bedrock
- Deep Bedrock
- Injection Well
- Parcel
- Roads
- Streams
- Waterbody

µg/L = micrograms per liter
 GPS = groundwater protection standard
 GS RBTL = groundskeeper risk-based target level
 MCL = maximum contaminant level
 S1 – S6 = Screen #
 P1 – P5 = Port #
 Shaded concentrations are greater than GPS Lab Flag:
 J = Estimated value; detected between the method detection limit and the reporting limit
 Validation Flag (in parentheses):
 J = Estimated value based on data validation

Parameter	GPS	GPS Basis
1,1,2,2-Tetrachloroethane (1,1,2,2-TCA)	13.6 µg/L	GS RBTL
1,1,2-Trichloroethane (1,1,2-TCA)	50.2 µg/L	GS RBTL
Tetrachloroethylene (PERC)	5 µg/L	MCL
Trichloroethene (TCE)	205 µg/L	GS RBTL
Vinyl Chloride (VC)	3.86 µg/L	GS RBTL

FILE: G:\gis_projects\Fort McClellan\03_094_007\active\apps\LF3-80(6)\CMER_2020\Figure7 COC Onsite 2020_09_24_DAF.mxd 9/24/2020 Drew Phillips

OLF-G51	11/13/19	5/20/20	OLF-G50	11/13/19	5/20/20	OLF-G49	11/13/19	5/20/20	OLF-G43	11/19/19	5/20/20
1,1,2,2-TCA	2.5	0.89 J	1,1,2,2-TCA	13	18	1,1,2,2-TCA	<1	<1	1,1,2,2-TCA	3.1	<1
1,1,2-TCA	<1	<1	1,1,2-TCA	0.57 J	0.57 J	1,1,2-TCA	<1	<1	1,1,2-TCA	<1	<1
PERC	<1	<1	PERC	<1	<1	PERC	<1	<1	PERC	<1	<1
TCE	14	3.2	TCE	53	59	TCE	<1	<1	TCE	0.89 J	1.3
VC	<1	<1	VC	<1	<1	VC	<1	<1	VC	<1	<1

OLF-G70	11/18/19	5/19/20
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	8.3	12
VC	<1	<1

Figure 8
Corrective Action COCs in Off-Site Groundwater Wells
Landfill 3, Parcel 80(6) and Fill Area
Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama

OLF-G52	11/11/19	5/19/20
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1 (UJ)	<1
PERC	<1 (UJ)	<1
TCE	7.7 (J)	9.7
VC	<1 (UJ)	<1

OLF-G47	11/18/19	5/26/20
1,1,2,2-TCA	1.3	<1
1,1,2-TCA	<1	<1
PERC	0.75 J	<1
TCE	24	1.8
VC	<1	<1

OLF-G48	11/18/19	5/26/20
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	3.9	4.3
VC	<1	<1

OLF-G22	11/19/19	5/27/20
1,1,2,2-TCA	59	49
1,1,2-TCA	2.5	2.0
PERC	0.82 J	<1
TCE	110	110
VC	1.9	1.2

OLF-G36	11/19/19	5/27/20
1,1,2,2-TCA	1.2	<1
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	<1	<1
VC	<1	<1

OLF-G12	11/19/19	5/29/20
1,1,2,2-TCA	150	130
1,1,2-TCA	3.6	3.0
PERC	1.2	1.1
TCE	120	99
VC	<1	<1

OLF-G31	11/11/19	5/19/20
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	<1	<1
VC	<1	<1

OLF-G32	11/11/19	5/19/20
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	<1	<1
VC	<1	<1

OLF-G35	11/19/19	5/26/20
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	0.64 J	<1
VC	<1	<1

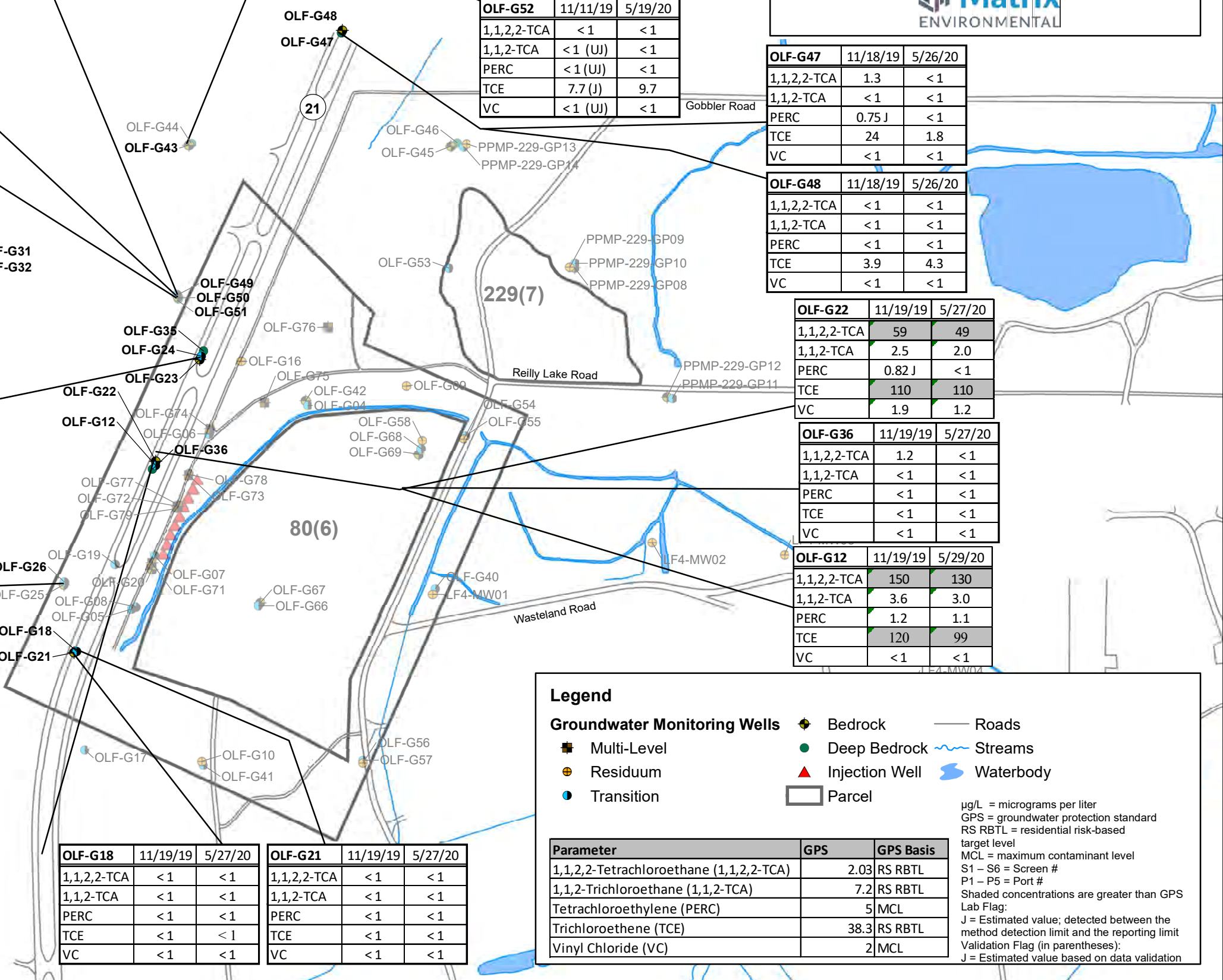
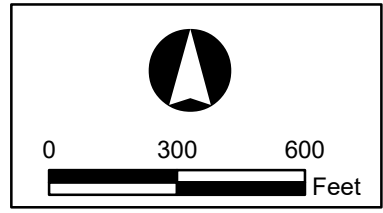
OLF-G24	11/18/19	5/26/20
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	<1	<1
VC	<1	<1

OLF-G23	11/18/19	5/28/20
1,1,2,2-TCA	100 (J)	96
1,1,2-TCA	3.8 (J)	3.1
PERC	0.76 J (J)	0.74 J
TCE	110 (J)	100
VC	<1 (UJ)	2.5

OLF-G26	11/20/19	5/20/20
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	<1	<1
VC	1.0	<1

OLF-G18	11/19/19	5/27/20
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	<1	<1
VC	<1	<1

OLF-G21	11/19/19	5/27/20
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<1	<1
TCE	<1	<1
VC	<1	<1



Legend

Groundwater Monitoring Wells

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Parameter	GPS	GPS Basis
1,1,2,2-Tetrachloroethane (1,1,2,2-TCA)	2.03	RS RBTL
1,1,2-Trichloroethane (1,1,2-TCA)	7.2	RS RBTL
Tetrachloroethylene (PERC)	5	MCL
Trichloroethene (TCE)	38.3	RS RBTL
Vinyl Chloride (VC)	2	MCL

ug/L = micrograms per liter
 GPS = groundwater protection standard
 RS RBTL = residential risk-based target level
 MCL = maximum contaminant level
 S1 - S6 = Screen #
 P1 - P5 = Port #
 Shaded concentrations are greater than GPS Lab Flag:
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 Validation Flag (in parentheses):
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