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Montgomery, Alabama 36130-1463
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December 29, 2023

ELECTRONICALLY TRANSMITTED

Mr. Jason C. Odom
ESCA Case Manager
McClellan Development Authority
4975 Bains Gap Road
Anniston, Alabama 36205

RE: ADEM Review and Concurrence: *Responses to Comments and Revised Corrective Measures Effectiveness Report, November 2021 to May 2022 Monitoring Events, Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7);* dated October 19, 2023
Fort McClellan, Calhoun County, Alabama
Facility I.D. No. AL4210020562

Dear Mr. Odom:

The Alabama Department of Environmental Management (ADEM or the Department) has completed its review of the McClellan Development Authority's (MDA) *Responses to Comments and Revised Corrective Measures Effectiveness Report (CMER), November 2021 to May 2022 Monitoring Events, Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)*. Based on this review, MDA has adequately addressed ADEM's comments on the CMER and submitted a Revised CMER incorporating the necessary edits. Therefore, the Department concurs with the Responses to Comments and the Revised CMER.

If you have any questions concerning this matter, please contact Mrs. Brandi Little of the Remediation Engineering Section at 334-274-4226 or via email at blittle@adem.alabama.gov.

Sincerely,



Ashley T. Mastin, Chief
Governmental Hazardous Waste Branch
Land Division

ATM/JBR/BCL/mlw

cc: Ms. Lisa Holstein/Army
Mr. Richard Satkin/Matrix
Mr. Gerald Hardy/Matrix



Matrix Environmental Services, LLC
283 Rucker St.
Anniston, AL 36205
O 256.847.0780
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matrixdesigngroup.com

October 19, 2023

Ms. Ashley T. Mastin, Chief
c/o Mrs. Brandi Little
Governmental Hazardous Waste Branch Land Division
Alabama Department of Environmental Management
P.O. Box 301463
Montgomery, Alabama 36130-1463

SUBJECT: Response to ADEM Review and Comments dated October 5, 2023,
RE: *Corrective Measures Effectiveness Report (CMER), November 2021 to May 2022 Monitoring Events, Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield (FANWR), Parcel 229(7);* dated August 26, 2022

Dear Ms. Mastin:

On behalf of the McClellan Development Authority (MDA), Matrix Environmental Services, LLC (MES) is pleased to submit our responses to ADEM Review and Comments dated October 5, 2023, RE: *Corrective Measures Effectiveness Report (CMER), November 2021 to May 2022 Monitoring Events, Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield (FANWR), Parcel 229(7)* dated August 26, 2022. Also included is a copy of the revised document and a redline strikeout version to assist in your review.

Two hard copies have been provided to Mrs. Brandi Little. Please contact me at (256) 847-0780 should you have any questions or comments.

Sincerely,
MATRIX ENVIRONMENTAL SERVICES, LLC

A handwritten signature in black ink that reads "Richard Satkin".

Richard Satkin, P.G
McClellan Program Manager

Enclosure

CC: Mrs. Brandi Little, ADEM (two paper copies)
Mr. Jason Odom, MDA (transmittal letter only)
Ms. Lisa Holstein, U.S. Army (one paper copy)
MES Files (one paper copy)

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Response to ADEM Review and Comments dated October 5, 2023

Corrective Measures Effectiveness Report (CMER), November 2021 to May 2022 Monitoring Events, Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield (FANWR), Parcel 229(7); dated August 26, 2022

Specific Comment 1:

List of Tables. *The list includes Table 3-1: Groundwater Monitoring Summary, November 2021 to May 2022. This table is not included in the hard copy document or the electronic copy document. Please address.*

MDA Response:

The table was included in the report and upon further discussion with ADEM this comment has been rescinded.

Specific Comment 2:

List of Acronyms. *Please add the acronyms “CMIR” and “ft” to the list. Please revise the acronym “CMIP,” which is erroneously listed as Report instead of Plan. Please also revise the acronym “FLUTe” to include the word “Liner”.*

MDA Response:

The acronyms have been revised.

Specific Comment 3:

Page 2-2, Section 2.3. *Please revise the text to identify the acronyms “SI” and “IT” as they are first presented in the report.*

MDA Response:

The text has been revised.

Specific Comment 4:

Page 3-3, Section 3.2. *Please revise the text to identify the acronym “SAP” as it is first presented in the report.*

MDA Response:

The text has been revised.

Specific Comment 5:

Page 4-2, Section 4.2. *The text states that off-site well OLF-G12 exceeded the groundwater protection standards (GPS) for 1,1,2,2-tetrachloroethane and trichloroethene. Table 4-6 shows that OLF-G12 also exceeded the GPS for vinyl chloride in the May 2022 sampling event. Please address.*

Response to ADEM Review and Comments dated October 5, 2023

Corrective Measures Effectiveness Report (CMER), November 2021 to May 2022 Monitoring Events, Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield (FANWR), Parcel 229(7); dated August 26, 2022

MDA Response:

The text has been revised.

Specific Comment 6:

Table 4-3. This table does not appear to be referenced in the text. Please address.

MDA Response:

The text has been revised.

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October 5, 2023

ELECTRONICALLY TRANSMITTED

Mr. Jason C. Odom
ESCA Case Manager
McClellan Development Authority
4975 Bains Gap Road
Anniston, Alabama 36205

RE: ADEM Review and Comments: *Corrective Measures Effectiveness Report (CMER), November 2021 to May 2022 Monitoring Events, Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield (FANWR), Parcel 229(7); dated August 26, 2022*
Fort McClellan, Calhoun County, Alabama
Facility I.D. No. AL4210020562

Dear Mr. Odom:

The Alabama Department of Environmental Management (ADEM or the Department) has completed the review of the aforementioned document, dated August 26, 2022, and has determined that the McClellan Development Authority's (MDA) *CMER for Landfill 3 and FANWR* is incomplete and additional information and/or data will be required.

Comments regarding MDA's *CMER* are provided in the attached document. Responses may be submitted in the form of a revised *CMER* or appropriate revised pages and figures to be inserted in the original submission. If the MDA chooses to submit revised pages, please date or code each page and figure. For example, **25(r-11/15/23)** would be page 25 revised November 15, 2023.

To facilitate the Department's review, please return a copy of the Department's comments with annotations in the left margin, which identify the *CMER* revised pages, figures, tables, *etc.* where the MDA's response to each comment item is recorded.

Mr. Jason Odom

October 5, 2023

Page 2 of 3

If you have any questions concerning this matter, please contact Mrs. Brandi Little of the Remediation Engineering Section at 334-274-4226 or via email at blittle@adem.alabama.gov.

Sincerely,

A handwritten signature in black ink, appearing to read 'ATM', with a long horizontal flourish extending to the right.

Ashley T. Mastin, Chief
Governmental Hazardous Waste Branch
Land Division

Attachment

ATM/JBR/BCL/jlm

cc: Mr. Justin Rigdon/ADEM
Ms. Lisa Holstein/Army
Mr. Richard Satkin/Matrix
Mr. Gerald Hardy/Matrix

ATTACHMENT
ADEM Review Comments
*CMER, November 2021 to May 2022 Monitoring Events, Landfill 3
and FANWR, Parcels 80(6) and 229(7)*
Dated August 26, 2022
Fort McClellan, Alabama

Specific Comments

1. **List of Tables.** The list includes Table 3-1: Groundwater Monitoring Summary, November 2021 to May 2022. This table is not included in the hard copy document or the electronic copy document. Please address.
2. **List of Acronyms.** Please add the acronyms “CMIR” and “ft” to the list. Please revise the acronym “CMIP,” which is erroneously listed as Report instead of Plan. Please also revise the acronym “FLUTE” to include the word “Liner”.
3. **Page 2-2, Section 2.3.** Please revise the text to identify the acronyms “SI” and “IT” as they are first presented in the report.
4. **Page 3-3, Section 3.2.** Please revise the text to identify the acronym “SAP” as it is first presented in the report.
5. **Page 4-2, Section 4.2.** The text states that off-site well OLF-G12 exceeded the groundwater protection standards (GPS) for 1,1,2,2-tetrachloroethane and trichloroethene. Table 4-6 shows that OLF-G12 also exceeded the GPS for vinyl chloride in the May 2022 sampling event. Please address.
6. **Table 4-3.** This table does not appear to be referenced in the text. Please address.

**Corrective Measures Effectiveness Report
November 2021 to May 2022 Monitoring Events
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly
Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

Prepared for:



**McClellan Development Authority
Anniston, Alabama**

Prepared by:



**283 Rucker Street
Anniston, AL 36205**

**(256) 847-0780
Fax (256) 874-0905**

**August 2022
Revised October 2023**

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LIST OF ACRONYMS

1,1,2,2 – TCA	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 Plan
CMIR	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 Liner Underground Technologies
ft	feet
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 2021 to May 2022.

Previous investigations at the Site identified 1,1,2,2-tetrachloroethane (1,1,2,2-TCA), 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 [bacterial]); and (iv) potable water, in both aerobic and anaerobic states.

Semi-annual sampling was performed in November 2021 and May 2022 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 were constructed for the residuum zone, transition zone, fractured bedrock, and deep fractured bedrock.

Groundwater samples were collected in November 2021 and May 2022 in select on-site and off-site residuum, transition, bedrock, and deep bedrock monitoring wells and analyzed for VOCs, dissolved hydrocarbon gases (DHGs), and field parameters. 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-TCA, 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-TCA, TCE, PERC, VC). No GPSs were exceeded in on-site wells OLF-G72, OLF-G73, OLF-G75, OLF-G78, and PPMP-229-12 and off-site wells OLF-G18, OLF-G19, OLF-G21, OLF-G24, OLF-G26, OLF-G31, OLF-G32, OLF-G35, OLF-G36, OLF-G43, OLF-G48, OLF-G49, OLF-G51, OLF-G52 and OLF-G70.

During this reporting period two off-site transition zone wells (OLF-G29-T1 and OLF-G37-T1) were installed, sampled for VOCs, and abandoned in order to provide further definition of the contaminant plume west of the landfill treatment area and Highway 21 right-of-way. No VOCs were detected in either well. The non-detect results demonstrate that further westward migration is mitigated by the imbricate fault system and the groundwater plume travels predominantly in a north-northeast direction parallel to Highway 21. The well locations are shown in Figure 2 and analytical results included in Appendix D.

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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 2021 to May 2022.

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 laboratory reports and data reviews
- Appendix D contains historical analytical results

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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 Site Investigation (SI) by IT Corporation (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-TCA), 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. During this reporting period, two off-site transition wells, OLF-G29-T1 and OLF-G37-T1 were installed, sampled for VOCs and later abandoned.

**Table 3-1: Groundwater Monitoring Summary, November 2021 to May 2022
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

Well ID	November 2021			May 2022		
	Field Parameters	VOCs	DHGs	Field Parameters	VOCs	DHGs
OLF-G07	x	x		x	x	
OLF-G12	x	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	x
OLF-G24	x	x		x	x	
OLF-G26	x	x		x	x	
OLF-G29-T1	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-G37-T1	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	
OLF-G71 Port 2	x	x			x	
OLF-G71 Port 3	x	x			x	
OLF-G71 Port 4	x	x			x	
OLF-G71 Port 5	x	x			x	
OLF-G72 Port 1	x	x	x		x	x
OLF-G72 Port 2	x	x	x		x	x
OLF-G72 Port 3	x	x	x		x	x
OLF-G72 Port 4	x	x	x		x	x
OLF-G72 Port 5	x	x	x		x	x

Well ID	November 2021			May 2022		
	Field Parameters	VOCs	DHGs	Field Parameters	VOCs	DHGs
OLF-G72 Port 6	x	x	x		x	x
OLF-G73 Port 1	x	x	x		x	x
OLF-G73 Port 2	x	x	x		x	x
OLF-G73 Port 3	x	x	x		x	x
OLF-G73 Port 4	x	x	x		x	x
OLF-G73 Port 5	x	x	x		x	x
OLF-G74 Port 1	x	x			x	
OLF-G74 Port 2	x	x			x	
OLF-G74 Port 3	x	x			x	
OLF-G74 Port 4	x	x			x	
OLF-G74 Port 5	x	x			x	
OLF-G75 Screen 3	x	x		x	x	
OLF-G75 Screen 5	x	x		x	x	
OLF-G77	x	x	x	x	x	x
OLF-G78	x	x		x	x	
PPMP-229-GP12	x	x		x	x	

* Note: OLF-G29-T1 and OLF-G37-T1 were sampled in December 2021

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 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 *Sampling and Analysis Plan (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 laboratory reports and laboratory report reviews are included in Appendix C.

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4.0 RESULTS FROM REPORTING PERIOD

This section discusses results from groundwater sampling conducted at the Site during the November 2021 – May 2022 reporting period. Two sampling events were conducted during this reporting period and meet 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 2021 and May 2022 groundwater sampling events are presented in Table 4-1. Groundwater elevation maps with estimated potentiometric contours for November 2021 and May 2022 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 2021 and are presented in Tables 4-2 and 4-3. The horizontal hydraulic gradients in November 2021 in the residuum, transition and bedrock zones ranged from 0.008 ft/ft to 0.051 ft/ft with the highest hydraulic gradients measured in the transition zone. The horizontal hydraulic gradients in May 2022 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 2021 between the residuum, transition zone, and fractured bedrock ranged from -0.146 ft /ft to 0.202 ft/ft. The strongest upward vertical gradient (-0.146 ft/ft) was observed between transition well OLF-G68 and bedrock well OLF-G69. The strongest downward vertical gradient (0.202 ft/ft) was observed between transition well OLF-G04 and bedrock well OLF-G42. 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 2022 between the residuum, transition zone, and fractured bedrock ranged from -0.155 ft /ft to 0.216 ft/ft. The strongest upward vertical gradient (-0.155 ft/ft) was observed between bedrock well OLF-G47

and deep bedrock well OLF-G48. The strongest downward vertical gradient (0.216 ft/ft) was observed between residuum well OLF-G54 and transition well OLF-G55.

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 2021 and May 2022 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 2021 and May 2022 sampling events are provided in Appendix C. Appendix C also provides the data validation summaries. 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.

4.1.4 Summary of Groundwater Analytical Results

The primary COC analytical results for the November 2021 and May 2022 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-TCA, 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-TCA, 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 reductive dichlorination of the primary COCs.

4.2 Distribution of Corrective Action COCs in Groundwater

The distribution of the primary COCs during the November 2021 and May 2022 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-TCA GPS was exceeded in OLF-G07, OLF-G74, and OLF-G77. VC GPS was exceeded in OLF-G20, OLF-G42 (November 2021 only), and OLF-G71. 1,1,2,2 – TCA and VC GPSs were exceeded in OLF-G74. Well OLF-G77 exceeded GPSs for 1,1,2,2 – TCA, PERC, TCE and VC. No GPSs were exceeded in wells OLF-G72, OLF-G73, OLF-G75, OLF-G78, and PPMP-229-GP12.

In the off-site wells, 1,1,2,2 – TCA and TCE GPSs were exceeded in OLF-G22 and OLF-G50. Wells OLF-G12 and OLF-G23 exceeded the GPS for 1,1,2,2-TCA, TCE, and VC. Well OLF-G47 (May 2022 only) exceeded the GPS for 1,1,2,2-TCA. No GPSs were exceeded in wells OLF-G18, OLF-G19, OLF-G21, OLF-G24, OLF-G26, OLF-G31, OLF-G32, OLF-G35, OLF-

G36, OLF-G43, OLF-G48, OLF-G49, OLF-G51, OLF-G52 and OLF-G70. No VOCs were detected in off-site wells OLF-G29-T1 and OLF-G37-T1 and results are presented in the CMIR. 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 2021 to May 2022 and presents the results, conclusions, and recommendations.

5.1 Summary of Activities

Activities conducted at the Site included:

- Installation, sampling, and abandonment of two off-site transition wells (OLF-G29-T1 and OLF-G37-T1) located west of Highway 21
- Collected groundwater level measurements and field parameters during November 2021 and May 2022 sampling events
- Collected groundwater samples from select wells for VOCs and DHGs
- Compared analytical results to GPSs

5.2 Summary of Results

Three of the five COCs (1,1,2,2-TCA, 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-TCA, TCE, PERC, VC). No GPSs were exceeded in on-site wells OLF-G72, OLF-G73, OLF-G75, OLF-G78, and PPMP-229-12 and off-site wells OLF-G18, OLF-G19, OLF-G21, OLF-G24, OLF-G26, OLF-G31, OLF-G32, OLF-G35, OLF-G36, OLF-G43, OLF-G48, OLF-G49, OLF-G51, 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 reductive 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.

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6.0 REFERENCES

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TABLES

**Table 4-1: Groundwater Elevations,
November 2021 to May 2022
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 2021						
OLF-G04	Transition	11/8/2021	745.03	747.45	45.97	701.48
OLF-G05	Transition	11/9/2021	738.23	740.23	34.85	705.38
OLF-G06	Transition	11/9/2021	747.78	750.06	69.03	681.03
OLF-G07	Transition	11/9/2021	739.10	741.36	45.74	695.62
OLF-G08	Transition	11/9/2021	737.60	739.30	37.89	701.41
OLF-G09	Residuum	11/8/2021	738.95	741.25	30.85	710.40
OLF-G10	Residuum	11/8/2021	746.35	748.42	25.13	723.29
OLF-G12	Transition	11/9/2021	745.75	745.43	66.08	679.35
OLF-G16	Residuum	11/8/2021	735.99	738.51	DRY	DRY
OLF-G17	Transition	11/9/2021	739.56	741.24	26.28	714.96
OLF-G18	Transition	11/9/2021	742.01	741.60	42.08	699.52
OLF-G19	Transition	11/9/2021	744.50	744.08	49.92	694.16
OLF-G20	Bedrock	11/9/2021	739.17	741.43	57.72	683.71
OLF-G21	Bedrock	11/9/2021	742.76	742.57	56.61	685.96
OLF-G22	Bedrock	11/9/2021	746.67	746.54	68.25	678.29
OLF-G23	Bedrock	11/9/2021	744.17	743.89	65.65	678.24
OLF-G24	Transition	11/9/2021	743.90	743.56	66.13	677.43
OLF-G25	Bedrock	11/9/2021	745.17	745.04	56.36	688.68
OLF-G26	Transition	11/9/2021	745.16	745.04	65.82	679.22
OLF-G27	Deep Bedrock	11/9/2021	779.13	778.80	92.15	686.65
OLF-G28	Bedrock	11/9/2021	778.73	778.25	91.33	686.92
OLF-G29	Bedrock	11/9/2021	770.62	770.25	92.51	677.74
OLF-G30	Deep Bedrock	11/9/2021	770.92	770.66	93.29	677.37
OLF-G31	Bedrock	11/9/2021	794.25	793.69	113.15	680.54
OLF-G32	Deep Bedrock	11/9/2021	793.64	793.41	115.64	677.77
OLF-G35	Deep Bedrock	11/9/2021	743.40	742.82	65.87	676.95
OLF-G36	Deep Bedrock	11/9/2021	746.74	746.09	67.95	678.14
OLF-G37	Bedrock	11/9/2021	769.57	769.37	86.72	682.65
OLF-G40	Transition	11/8/2021	737.20	739.51	21.03	718.48
OLF-G41	Transition	11/8/2021	746.50	748.62	25.81	722.81
OLF-G42	Bedrock	11/8/2021	746.20	748.41	70.60	677.81
OLF-G43	Bedrock	11/9/2021	761.50	761.05	92.20	668.85
OLF-G44	Deep Bedrock	11/9/2021	760.00	759.82	95.16	664.66
OLF-G45	Bedrock	11/9/2021	719.00	721.50	39.97	681.53
OLF-G46	Deep Bedrock	11/9/2021	719.80	722.08	42.63	679.45
OLF-G47	Bedrock	11/9/2021	717.40	717.46	59.83	657.63
OLF-G48	Deep Bedrock	11/9/2021	717.60	717.63	48.91	668.72

**Table 4-1: Groundwater Elevations,
November 2021 to May 2022
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-G49	Transition	11/9/2021	753.30	753.30	80.32	672.98
OLF-G50	Bedrock	11/9/2021	753.49	753.62	80.91	672.71
OLF-G51	Deep Bedrock	11/9/2021	753.63	753.69	78.40	675.29
OLF-G52	Deep Bedrock	11/9/2021	723.99	723.83	53.11	670.72
OLF-G53	Transition	11/9/2021	739.74	742.56	42.63	699.93
OLF-G54	Residuum	11/8/2021	737.03	739.65	18.14	721.51
OLF-G55	Transition	11/8/2021	737.10	740.09	26.29	713.80
OLF-G56	Residuum	11/8/2021	744.09	747.27	27.53	719.74
OLF-G57	Transition	11/8/2021	744.09	747.57	27.83	719.74
OLF-G58	Residuum	11/8/2021	740.01	743.42	17.70	725.72
OLF-G66	Transition	11/8/2021	741.11	743.95	24.50	719.45
OLF-G67	Bedrock	11/8/2021	741.52	743.98	24.32	719.66
OLF-G68	Transition	11/8/2021	739.59	742.30	34.93	707.37
OLF-G69	Bedrock	11/8/2021	740.64	742.94	29.10	713.84
OLF-G70	Deep Bedrock	11/9/2021	722.11	722.11	61.23	660.88
OLF-G71 (Port 1)	Multi-Level		739.49	742.76		742.76
OLF-G71 (Port 2)	Multi-Level		739.49	742.77		742.77
OLF-G71 (Port 3)	Multi-Level		739.49	742.75		742.75
OLF-G71 (Port 4)	Multi-Level		739.49	742.73		742.73
OLF-G71 (Port 5)	Multi-Level		739.49	742.72		742.72
OLF-G72 (Port 1)	Multi-Level		744.11	747.40		747.40
OLF-G72 (Port 2)	Multi-Level		744.11	747.42		747.42
OLF-G72 (Port 3)	Multi-Level		744.11	747.43		747.43
OLF-G72 (Port 4)	Multi-Level		744.11	747.37		747.37
OLF-G72 (Port 5)	Multi-Level		744.11	747.40		747.40
OLF-G72 (Port 6)	Multi-Level		744.11	747.36		747.36
OLF-G73 (Port 1)	Multi-Level		745.97	749.56		749.56
OLF-G73 (Port 2)	Multi-Level		745.97	749.56		749.56
OLF-G73 (Port 3)	Multi-Level		745.97	749.58		749.58
OLF-G73 (Port 4)	Multi-Level		745.97	749.56		749.56
OLF-G73 (Port 5)	Multi-Level		745.97	749.62		749.62
OLF-G74 (Port1)	Multi-Level		747.28	750.79		750.79
OLF-G74 (Port2)	Multi-Level		747.28	750.79		750.79
OLF-G74 (Port3)	Multi-Level		747.28	750.79		750.79
OLF-G74 (Port4)	Multi-Level		747.28	750.77		750.77
OLF-G74 (Port5)	Multi-Level		747.28	750.77		750.77
OLF-G75	Multi-Level	11/8/2021	TBD	749.71	71.78	677.93
OLF-G76	Multi-Level	11/8/2021	TBD	747.00	70.06	676.94

**Table 4-1: Groundwater Elevations,
November 2021 to May 2022
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-G77	Transition	11/9/2021	744.08	747.04	60.55	686.49
OLF-G78	Transition	11/9/2021	745.92	748.99	68.64	680.35
OLF-G79	Deep Bedrock	11/9/2021	743.70	746.31	68.00	678.31
PPMP-229-GP08	Bedrock	11/9/2021	728.91	731.89	21.44	710.45
PPMP-229-GP09	Residuum	11/9/2021	730.50	733.24	13.30	719.94
PPMP-229-GP10	Transition	11/9/2021	729.59	732.31	13.65	718.66
PPMP-229-GP11	Transition	11/8/2021	741.54	744.13	30.08	714.05
PPMP-229-GP12	Bedrock	11/8/2021	741.47	743.79	30.14	713.65
PPMP-229-GP13	Residuum	11/9/2021	717.87	720.16	37.25	682.91
PPMP-229-GP14	Transition	11/9/2021	718.31	720.98	39.57	681.41
May 2022						
LF4-MW01	Residuum	5/5/2022	737.13	739.79	12.56	727.23
LF4-MW02	Residuum	5/5/2022	738.50	738.50	20.39	718.11
LF4-MW03	Residuum	5/5/2022	739.78	739.78	13.21	726.57
LF4-MW04	Residuum	5/5/2022	743.35	743.35	5.95	737.40
LF4-MW05	Residuum	5/5/2022	753.32	753.32	11.17	742.15
OLF-G04	Transition	5/5/2022	745.03	747.45	42.81	704.64
OLF-G05	Transition	5/5/2022	738.23	740.23	34.62	705.61
OLF-G06	Transition	5/5/2022	747.78	750.06	64.29	685.77
OLF-G07	Transition	5/5/2022	739.10	741.36	42.18	699.18
OLF-G08	Transition	5/5/2022	737.60	739.30	31.55	707.75
OLF-G09	Residuum	5/5/2022	738.95	741.25	25.17	716.08
OLF-G10	Residuum	5/5/2022	746.35	748.42	15.65	732.77
OLF-G12	Transition	5/6/2022	745.75	745.43	60.45	684.98
OLF-G16	Residuum	5/5/2022	735.99	738.51	35.99	702.52
OLF-G17	Transition	5/5/2022	739.56	741.24	22.38	718.86
OLF-G18	Transition	5/6/2022	742.01	741.60	39.15	702.45
OLF-G19	Transition	5/6/2022	744.50	744.08	47.10	696.98
OLF-G20	Bedrock	5/5/2022	739.17	741.43	51.98	689.45
OLF-G21	Bedrock	5/6/2022	742.76	742.57	50.82	691.75
OLF-G22	Bedrock	5/6/2022	746.67	746.54	62.00	684.54
OLF-G23	Bedrock	5/6/2022	744.17	743.89	59.44	684.45
OLF-G24	Transition	5/6/2022	743.9	743.56	60.15	683.41
OLF-G25	Bedrock	5/6/2022	745.17	745.04	50.90	694.14
OLF-G26	Transition	5/6/2022	745.16	745.04	59.25	685.79
OLF-G27	Deep Bedrock	5/6/2022	779.13	778.80	80.94	697.86
OLF-G28	Bedrock	5/6/2022	778.73	778.25	69.82	708.43
OLF-G29	Bedrock	5/6/2022	770.62	770.25	85.10	685.15

**Table 4-1: Groundwater Elevations,
November 2021 to May 2022
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-G30	Deep Bedrock	5/6/2022	770.92	770.66	86.03	684.63
OLF-G31	Bedrock	5/6/2022	794.25	793.69	99.88	693.81
OLF-G32	Deep Bedrock	5/6/2022	793.64	793.41	108.65	684.76
OLF-G35	Deep Bedrock	5/6/2022	743.40	742.82	59.63	683.19
OLF-G36	Deep Bedrock	5/6/2022	746.74	746.09	61.46	684.63
OLF-G37	Bedrock	5/6/2022	769.57	769.37	78.12	691.25
OLF-G40	Transition	5/5/2022	737.20	739.51	14.53	724.98
OLF-G41	Transition	5/5/2022	746.50	748.62	18.07	730.55
OLF-G42	Bedrock	5/5/2022	746.20	748.41	64.59	683.82
OLF-G43	Bedrock	5/6/2022	761.50	761.05	86.90	674.15
OLF-G44	Deep Bedrock	5/6/2022	760.00	759.82	90.80	669.02
OLF-G45	Bedrock	5/5/2022	719.00	721.50	34.11	687.39
OLF-G46	Deep Bedrock	5/5/2022	719.80	722.08	37.00	685.08
OLF-G47	Bedrock	5/6/2022	717.40	717.46	57.23	660.23
OLF-G48	Deep Bedrock	5/6/2022	717.60	717.63	44.56	673.07
OLF-G49	Transition	5/6/2022	753.30	753.30	74.08	679.22
OLF-G50	Bedrock	5/6/2022	753.49	753.62	74.86	678.76
OLF-G51	Deep Bedrock	5/6/2022	753.63	753.69	72.21	681.48
OLF-G52	Deep Bedrock	5/6/2022	723.99	723.83	58.13	665.70
OLF-G53	Transition	5/5/2022	739.74	742.56	36.63	705.93
OLF-G54	Residuum	5/5/2022	737.03	739.65	11.18	728.47
OLF-G55	Transition	5/5/2022	737.10	740.09	20.37	719.72
OLF-G56	Residuum	5/5/2022	744.09	747.27	20.51	726.76
OLF-G57	Transition	5/5/2022	744.09	747.57	20.81	726.76
OLF-G58	residuum	5/5/2022	740.01	743.42	12.00	731.42
OLF-G66	Transition	5/5/2022	741.11	743.95	17.87	726.08
OLF-G67	Bedrock	5/5/2022	741.52	743.98	17.73	726.25
OLF-G68	Transition	5/5/2022	739.59	742.30	28.92	713.38
OLF-G69	Bedrock	5/5/2022	740.64	742.94	22.88	720.06
OLF-G70	Deep Bedrock	5/6/2022	722.11	722.11	57.95	664.16
OLF-G75	Multi-Level	5/5/2022	TBD	749.71	65.70	684.01
OLF-G76	Multi-Level	5/5/2022	TBD	747.00	64.33	682.67
OLF-G77	Transition	5/5/2022	744.08	747.04	55.99	691.05
OLF-G78	Transition	5/5/2022	745.92	748.99	62.74	686.25
OLF-G79	Deep Bedrock	5/5/2022	743.70	746.31	61.62	684.69
PPMP-229-GP08	Bedrock	5/5/2022	728.91	731.89	16.23	715.66
PPMP-229-GP09	Residuum	5/5/2022	730.50	733.24	6.02	727.22
PPMP-229-GP10	Transition	5/5/2022	729.59	732.31	6.52	725.79

**Table 4-1: Groundwater Elevations,
November 2021 to May 2022
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)
PPMP-229-GP11	Transition	5/5/2022	741.54	744.13	25.70	718.43
PPMP-229-GP12	Bedrock	5/5/2022	741.47	743.79	25.89	717.90
PPMP-229-GP13	Residuum	5/5/2022	717.87	720.16	29.78	690.38
PPMP-229-GP14	Transition	5/5/2022	718.31	720.98	33.43	687.55

Notes:

BTOC = Below top of casing

**Table 4-2: Horizontal Hydraulic Gradients,
November 2021 and May 202
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 2021</u>									
OLF-G56	Residuum	719.74	OLF-G15	Residuum	NC	North	1854	NA	NA
OLF-G40	Transition	718.48	OLF-G12	Transition	679.35	Northwest	1201	39.13	0.033
OLF-G17	Transition	714.96	OLF-G26	Transition	679.22	North	700	35.74	0.051
OLF-G21	Bedrock	685.96	OLF-G43	Bedrock	668.85	Northeast	2050	17.11	0.008
OLF-G22	Bedrock	678.29	OLF-G47	Bedrock	657.63	Northeast	1849	20.66	0.011
OLF-G37	Bedrock	682.65	OLF-G43	Bedrock	668.85	Northeast	1717	13.80	0.008
OLF-G30	Deep Bedrock	677.37	OLF-G44	Deep Bedrock	664.66	Northeast	1349	12.71	0.009
OLF-G46	Deep Bedrock	679.45	OLF-G52	Deep Bedrock	670.72	Northwest	909	8.73	0.010
OLF-G36	Deep Bedrock	678.14	OLF-G44	Deep Bedrock	664.66	North	1293	13.48	0.010
<u>May 2022</u>									
OLF-G56	Residuum	726.76	OLF-G15	Residuum	NC	North	1854	NA	NA
OLF-G40	Transition	724.98	OLF-G12	Transition	684.98	Northwest	1201	40.00	0.033
OLF-G17	Transition	718.86	OLF-G26	Transition	685.79	North	700	33.07	0.047
OLF-G21	Bedrock	691.75	OLF-G43	Bedrock	674.15	Northeast	2050	17.60	0.009
OLF-G22	Bedrock	684.54	OLF-G47	Bedrock	660.23	Northeast	1849	24.31	0.013
OLF-G37	Bedrock	691.25	OLF-G43	Bedrock	674.15	Northeast	1717	17.10	0.010
OLF-G30	Deep Bedrock	684.63	OLF-G44	Deep Bedrock	669.02	Northeast	1349	15.61	0.012
OLF-G46	Deep Bedrock	685.08	OLF-G52	Deep Bedrock	665.70	Northwest	909	19.38	0.021
OLF-G36	Deep Bedrock	684.63	OLF-G44	Deep Bedrock	669.02	North	1293	15.61	0.012

Notes:

Elevations in feet above mean sea level.

NC - Not collected

**Table 4-3: Vertical Hydraulic Gradients,
November 2021 and May 2022
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	dH	dL	Vertical Hydraulic Gradient (feet per foot)
November 2021						
OLF-G10	residuum	723.85	723.29	0.48	52.35	0.009
OLF-G41	transition	671.50	722.81			
OLF-G56	residuum	709.09	719.74	0.00	22.50	0.000
OLF-G57	transition	686.59	719.74			
LF4-MW1	residuum	709.63	720.46	1.98	86.63	0.023
OLF-G40	transition	623.00	718.48			
OLF-G58	residuum	716.01	725.72	18.35	100.71	0.182
OLF-G68	transition	615.30	707.37			
OLF-G68	transition	615.30	707.37	-6.47	44.36	-0.146
OLF-G69	bedrock	570.94	713.84			
OLF-G54	residuum	705.03	721.51	7.71	40.43	0.191
OLF-G55	transition	664.6	713.80			
PPMP-229-GP09	residuum	699.24	719.94	1.28	18.93	0.068
PPMP-229-GP10	transition	680.31	718.66			
PPMP-229-GP10	transition	680.31	718.66	8.21	148.90	0.055
PPMP-229-GP08	bedrock	531.41	710.45			
PPMP-229-GP13	residuum	680.16	682.91	1.50	17.18	0.087
PPMP-229-GP14	transition	662.98	681.41			
PPMP-229-GP14	transition	662.98	681.41	-0.12	115.18	-0.001
OLF-G45	bedrock	547.80	681.53			
OLF-G45	bedrock	547.80	681.53	2.08	67.20	0.031
OLF-G46	deep bedrock	480.60	679.45			
OLF-G24	transition	656.80	677.43	-0.81	74.73	-0.011
OLF-G23	bedrock	582.07	678.24			
OLF-G66	transition	644.95	719.45	-0.21	44.97	-0.005
OLF-G67	bedrock	599.98	719.66			
PPMP-229-GP11	transition	675.13	714.05	0.40	94.34	0.004
PPMP-229-GP12	bedrock	580.79	713.65			
OLF-G18	transition	689.01	699.52	13.56	108.35	0.125
OLF-G21	bedrock	580.66	685.96			
OLF-G26	transition	653.06	679.22	-9.46	70.49	-0.134
OLF-G25	bedrock	582.57	688.68			
OLF-G07	transition	682.10	695.62	11.91	105.03	0.113
OLF-G20	bedrock	577.07	683.71			
OLF-G12	transition	665.75	679.35	1.06	81.58	0.013

**Table 4-3: Vertical Hydraulic Gradients,
November 2021 and May 2022
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	dH	dL	Vertical Hydraulic Gradient (feet per foot)
OLF-G22	bedrock	584.17	678.29			
OLF-49	transition	653.30	672.98	0.27	48.81	0.006
OLF-50	bedrock	604.49	672.71			
OLF-G22	bedrock	584.17	678.29	0.15	88.73	0.002
OLF-G36	deep bedrock	495.44	678.14			
OLF-G23	bedrock	582.07	678.24	1.29	91.17	0.014
OLF-G35	deep bedrock	490.90	676.95			
OLF-50	bedrock	604.49	672.71	-2.58	99.86	-0.026
OLF-51	deep bedrock	504.63	675.29			
OLF-G43	bedrock	548.40	668.85	4.19	76.00	0.055
OLF-G44	deep bedrock	472.40	664.66			
OLF-G04	transition	699.53	701.48	23.67	117.03	0.202
OLF-G42	bedrock	582.50	677.81			
OLF-G47	bedrock	405.40	657.63	-11.09	82.80	-0.134
OLF-G48	deep bedrock	322.60	668.72			
OLF-G29	bedrock	555.52	677.74	0.37	71.40	0.005
OLF-G30	deep bedrock	484.12	677.37			
OLF-G31	bedrock	579.25	680.54	2.77	66.61	0.042
OLF-G32	deep bedrock	512.64	677.77			
<u>May 2022</u>						
OLF-G10	residuum	723.85	732.77	2.22	52.35	0.042
OLF-G41	transition	671.50	730.55			
OLF-G56	residuum	709.09	726.76	0.00	22.50	0.000
OLF-G57	transition	686.59	726.76			
LF4-MW1	residuum	709.63	727.23	2.25	86.63	0.026
OLF-G40	transition	623.00	724.98			
OLF-G58	residuum	716.01	731.42	18.04	100.71	0.179
OLF-G68	transition	615.30	713.38			
OLF-G68	transition	615.30	713.38	-6.68	44.36	-0.151
OLF-G69	bedrock	570.94	720.06			
OLF-G54	residuum	705.03	728.47	8.75	40.43	0.216
OLF-G55	transition	664.6	719.72			
PPMP-229-GP09	residuum	699.24	727.22	1.43	18.93	0.076
PPMP-229-GP10	transition	680.31	725.79			
PPMP-229-GP10	transition	680.31	725.79	10.13	148.90	0.068

**Table 4-3: Vertical Hydraulic Gradients,
November 2021 and May 2022
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	dH	dL	Vertical Hydraulic Gradient (feet per foot)
PPMP-229-GP08	bedrock	531.41	715.66			
PPMP-229-GP13	residuum	680.16	690.38	2.83	17.18	0.165
PPMP-229-GP14	transition	662.98	687.55			
PPMP-229-GP14	transition	662.98	687.55	0.16	115.18	0.001
OLF-G45	bedrock	547.80	687.39			
OLF-G45	bedrock	547.80	687.39	2.31	67.20	0.034
OLF-G46	deep bedrock	480.60	685.08			
OLF-G24	transition	656.80	683.41	-1.04	74.73	-0.014
OLF-G23	bedrock	582.07	684.45			
OLF-G66	transition	644.95	726.08	-0.17	44.97	-0.004
OLF-G67	bedrock	599.98	726.25			
PPMP-229-GP11	transition	675.13	718.43	0.53	94.34	0.006
PPMP-229-GP12	bedrock	580.79	717.90			
OLF-G18	transition	689.01	702.45	10.70	108.35	0.099
OLF-G21	bedrock	580.66	691.75			
OLF-G26	transition	653.06	685.79	-8.35	70.49	-0.118
OLF-G25	bedrock	582.57	694.14			
OLF-G07	transition	682.10	699.18	9.73	105.03	0.093
OLF-G20	bedrock	577.07	689.45			
OLF-G12	transition	665.75	684.98	0.44	81.58	0.005
OLF-G22	bedrock	584.17	684.54			
OLF-49	transition	653.30	679.22	0.46	48.81	0.009
OLF-50	bedrock	604.49	678.76			
OLF-G22	bedrock	584.17	684.54	-0.09	88.73	-0.001
OLF-G36	deep bedrock	495.44	684.63			
OLF-G23	bedrock	582.07	684.45	1.26	91.17	0.014
OLF-G35	deep bedrock	490.90	683.19			
OLF-50	bedrock	604.49	678.76	-2.72	99.86	-0.027
OLF-51	deep bedrock	504.63	681.48			
OLF-G43	bedrock	548.40	674.15	5.13	76.00	0.067
OLF-G44	deep bedrock	472.40	669.02			
OLF-G04	transition	699.53	704.64	20.82	117.03	0.178
OLF-G42	bedrock	582.50	683.82			
OLF-G47	bedrock	405.40	660.23	-12.84	82.80	-0.155
OLF-G48	deep bedrock	322.60	673.07			
OLF-G29	bedrock	555.52	685.15	0.52	71.40	0.007

**Table 4-3: Vertical Hydraulic Gradients,
November 2021 and May 2022
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	dH	dL	Vertical Hydraulic Gradient (feet per foot)
OLF-G30	deep bedrock	484.12	684.63			
OLF-G31	bedrock	579.25	693.81	9.05	66.61	0.136
OLF-G32	deep bedrock	512.64	684.76			

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 2021 to May 2022
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

Well ID	Sample Date	Temperature (°C)	Conductivity (µs/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH
<u>November 2021</u>								
OLF-G07	11/19/2021	15.9	72	4.0	139	0.05	0	5.1
OLF-G12	11/22/2021	17.7	52	0.5	202	0.03	2	5.0
OLF-G18	11/22/2021	17.2	154	0.7	68	0.10	15	5.7
OLF-G19	11/22/2021	16.7	60	3.6	240	0.04	8	5.0
OLF-G20	11/19/2021	15.8	715	0.9	-125	0.46	0	7.1
OLF-G21	11/22/2021	18.9	399	1.0	-116	0.26	19	8.0
OLF-G22	11/22/2021	18.9	405	0.4	2	0.26	3	6.4
OLF-G23	11/21/2021	21.6	336	0.9	-7	0.22	1	6.2
OLF-G24	11/21/2021	20.1	49	7.4	133	0.03	8	5.1
OLF-G26	11/18/2021	18.4	193	0.5	58	0.13	2	6.3
OLF-G31	11/18/2021	17.2	183	1.5	-54	0.12	26	7.0
OLF-G32	11/18/2021	17.6	238	4.2	72	0.15	5	7.9
OLF-G35	11/21/2021	17.9	392	1.4	-8	0.25	23	7.3
OLF-G36	11/22/2021	15.9	419	1.6	25	0.27	1	7.4
OLF-G42	11/20/2021	15.0	460	3.9	-128	0.30	14	7.5
OLF-G43	11/15/2021	17.9	189	3.9	134	0.12	5	6.7
OLF-G47	11/20/2021	19.4	379	2.0	-111	0.25	0	7.4
OLF-G48	11/20/2021	18.1	314	2.8	-57	0.2	10	7.6
OLF-G49	11/17/2021	17.8	53	5.5	179	0.03	19	4.9
OLF-G50	11/17/2021	17.9	187	4.0	87	0.12	5	6.0
OLF-G51	11/17/2021	18.3	311	3.5	8	0.20	11	6.7
OLF-G52	11/15/2021	19.0	340	1.7	-54	0.22	96	8.8
OLF-G70	11/15/2021	17.0	345	2.9	99	0.22	5	7.8
OLF-G71 (Port 1)	11/10/2021	20.7	1020	4.2	-50	0.66	5	7.4
OLF-G71 (Port 2)	11/10/2021	18.9	725	0.5	-137	0.47	6	7.4
OLF-G71 (Port 3)	11/10/2021	18.8	926	2.9	-54	0.6	7	7.3
OLF-G71 (Port 4)	11/10/2021	18.3	584	0.7	-119	0.38	8	7.6
OLF-G71 (Port 5)	11/10/2021	18.7	560	1.2	-132	0.36	6	7.7

**Table 4-4: Groundwater Field Parameters,
November 2021 to May 2022
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

Well ID	Sample Date	Temperature (°C)	Conductivity (µs/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH
OLF-G72 (Port 1)	11/11/2021	18.4	1052	0.5	-114	0.68	8	7.1
OLF-G72 (Port 2)	11/11/2021	19.1	1130	0.6	-97	0.73	9	7.0
OLF-G72 (Port 3)	11/11/2021	18.7	664	0.6	-72	0.43	8	7.1
OLF-G72 (Port 4)	11/11/2021	19.3	814	1.1	-80	0.53	11	7.0
OLF-G72 (Port 5)	11/11/2021	19.7	460	0.8	-85	0.3	6	7.4
OLF-G72 (Port 6)	11/11/2021	20.3	457	0.3	-88	0.3	5	7.6
OLF-G73 (Port 1)	11/12/2021	19.3	631	0.5	-89	0.41	5	7.0
OLF-G73 (Port 2)	11/12/2021	20.0	51	0.6	-61	0.33	5	7.0
OLF-G73 (Port 3)	11/12/2021	20.0	519	0.5	-119	0.34	5	7.2
OLF-G73 (Port 4)	11/12/2021	19.1	456	0.6	-96	0.3	7	7.0
OLF-G73 (Port 5)	11/12/2021	19.6	475	1.0	-85	0.31	6	7.2
OLF-G74 (Port 1)	11/10/2021	19.1	62	1.1	17	0.04	6	5.4
OLF-G74 (Port 2)	11/10/2021	19.0	373	0.7	-67	0.24	5	6.4
OLF-G74 (Port 3)	11/10/2021	19.3	454	0.4	-170	0.3	6	7.2
OLF-G74 (Port 4)	11/10/2021	18.4	457	0.7	-154	0.29	7	6.8
OLF-G74 (Port 5)	11/10/2021	19.3	471	0.6	-133	0.31	6	7.6
OLF-G75 (Screen 3)	11/19/2021	13.8	444	1.5	-41	0.29	77	7.6
OLF-G75 (Screen 5)	11/19/2021	12.7	449	1.9	5.9	0.29	12	7.6
OLF-G77	11/20/2021	16.0	320	3.0	77	0.21	1	6.0
OLF-G78	11/20/2021	19.6	108	2.4	14	0.07	27	5.7
PPMP-229-GP12	11/19/2021	16.2	177	3.7	-90	0.12	2	10.6
<u>May 2022</u>								
OLF-G07	5/20/2022	20.3	72	2.3	232	0.05	8	4.6
OLF-G12	5/18/2022	24.2	58	2.8	204	0.04	5	4.7
OLF-G18	5/18/2022	26.0	110	1.0	40	0.07	14	5.1
OLF-G19	5/18/2022	25.0	56	4.7	62	0.04	18	4.6
OLF-G20	5/20/2022	20.3	705	0.4	-82	0.46	3	6.9
OLF-G21	5/18/2022	25.5	456	3.2	-90	0.30	4	7.0
OLF-G22	5/18/2022	20.0	392	0.8	114	0.25	1	6.2

**Table 4-4: Groundwater Field Parameters,
November 2021 to May 2022
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

Well ID	Sample Date	Temperature (°C)	Conductivity (µs/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH
OLF-G23	5/17/2022	24.6	330	5.5	11	0.21	3	5.8
OLF-G24	5/17/2022	26.5	42	2.4	193	0.03	10	4.9
OLF-G26	5/19/2022	24.2	193	4.6	74	0.13	2	6.0
OLF-G31	5/18/2022	19.3	216	0.5	-28	0.14	4	6.8
OLF-G32	5/18/2022	21.1	229	3.0	53	0.15	6	7.5
OLF-G35	5/17/2022	24.7	393	1.0	7	0.25	4	7.0
OLF-G36	5/18/2022	21.0	415	1.1	-41	0.27	7	7.3
OLF-G42	5/20/2022	19.2	443	2.1	-20	0.29	25	7.5
OLF-G43	5/19/2022	27.1	204	3.2	86	0.13	13	6.2
OLF-G47	5/17/2022	21.5	382	1.9	7	0.25	2	7.1
OLF-G48	5/17/2022	19.7	317	2.1	28	0.21	8	7.5
OLF-G49	5/19/2022	22.3	54	2.2	187	0.04	47	4.7
OLF-G50	5/19/2022	20.8	177	2.9	100	0.12	30	5.8
OLF-G51	5/19/2022	22.1	320	2.8	42	0.21	6	6.8
OLF-G52	5/19/2022	27.4	341	1.2	-18	0.22	176	8.4
OLF-G70	5/19/2022	24.3	350	2.1	60	0.23	11	7.5
OLF-G71 (Port 1)	5/16/2022	21.4	993	0.0	-98	0.64	1	6.8
OLF-G71 (Port 2)	5/16/2022	21.4	708	0.0	-99	0.46	1	7.2
OLF-G71 (Port 3)	5/16/2022	21.1	869	0.0	-100	0.57	8	6.9
OLF-G71 (Port 4)	5/16/2022	21.1	533	0.0	-116	0.35	3	7.0
OLF-G71 (Port 5)	5/16/2022	20.1	534	1.6	-139	0.35	2	7.1
OLF-G72 (Port 1)	5/16/2022	23.3	1044	0.8	-93	0.69	3	6.6
OLF-G72 (Port 2)	5/16/2022	21.7	958	0.8	-19	0.62	5	6.2
OLF-G72 (Port 3)	5/16/2022	20.0	618	1.2	-85	0.40	8	6.9
OLF-G72 (Port 4)	5/16/2022	19.6	530	0.8	-64	0.34	4	6.4
OLF-G72 (Port 5)	5/16/2022	20.5	440	0.1	-100	0.29	2	7.4
OLF-G72 (Port 6)	5/16/2022	20.7	449	0.1	-89	0.29	2	7.2
OLF-G73 (Port 1)	5/16/2022	20.5	551	0.9	-61	0.36	3	6.3
OLF-G73 (Port 2)	5/16/2022	20.4	473	1.7	7	0.31	3	6.4

**Table 4-4: Groundwater Field Parameters,
November 2021 to May 2022
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

Well ID	Sample Date	Temperature (°C)	Conductivity (µs/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH
OLF-G73 (Port 3)	5/16/2022	20.0	512	1.6	-92	0.33	3	7.0
OLF-G73 (Port 4)	5/16/2022	19.8	441	0.8	-129	0.29	4	7.4
OLF-G73 (Port 5)	5/16/2022	19.7	425	1.6	-118	0.28	2	7.3
OLF-G74 (Port 1)	5/16/2022	19.9	46	1.5	213	0.03	2	5.1
OLF-G74 (Port 2)	5/16/2022	18.3	317	1.4	165	0.21	2	5.6
OLF-G74 (Port 3)	5/16/2022	19.8	429	1.0	159	0.28	2	7.4
OLF-G74 (Port 4)	5/16/2022	20.1	436	1.3	-16	0.28	4	7.5
OLF-G74 (Port 5)	5/16/2022	21.5	414	0.7	-52	0.27	9	8.0
OLF-G75 (Screen 3)	5/20/2022	27.0	458	0.8	62	0.30	46	7.4
OLF-G75 (Screen 5)	5/20/2022	21.9	454	1.1	92	0.29	7	7.3
OLF-G77	5/20/2022	21.6	298	4.8	80	0.20	12	5.6
OLF-G78	5/20/2022	21.2	110	1.1	150	0.07	8	5.3
PPMP-229-GP12	5/19/2022	24.5	174	1.6	-1	0.11	1	9.8

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	11/18/20	5/12/21	44519.65	44701.55
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	39	130	150	96	48	25	51	29 F1	96	67	180	59	130	71	130
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	2	0.79 J	2	0.86 J	1.2
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	< 1	1.2	< 0.5	0.53
Trichloroethene	205	GS RBTL	17	18	43	32	22	20	26	19	48	34	83	37	63	37	50
Vinyl Chloride	3.86	GS RBTL	< 1	< 1	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

VOCs (µg/L)	GPS	GPS Basis	OLF-G16
			5/12/21
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	< 1
Tetrachloroethylene	5	MCL	< 1
Trichloroethene	205	GS RBTL	< 1
Vinyl Chloride	3.86	GS RBTL	< 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	11/18/20	5/11/21	11/19/21	5/20/22
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	< 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	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	0.29 J	< 1	< 1	< 1	0.48 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5
Trichloroethene	205	GS RBTL	50	36	51	0.31 J	120	25	15	16	9.2	11	7.7	8.5	6.7	8.1	4.4
Vinyl Chloride	3.86	GS RBTL	7.3	7	11	< 0.8	10	7.5	8	10	6.5	7.8	8.4	6.9	7.6	7.1	9

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	11/11/20	5/11/21	11/20/21	5/20/22
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.4	< 1	1.4	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	< 1	< 1	< 1	< 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	< 1	< 0.5	< 0.5
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	4.6	6.9	3.6	6
Vinyl Chloride	3.86	GS RBTL	5.4	0.94 J	75	47	12	1.9	29	1.4	27	1.8	5.7	2.7	7.5	2.7

**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-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	11/12/20	5/11/21	11/10/21	5/16/22
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	32	9.4	0.21	5	5.8	7.4	< 1	< 1	< 1	1.7	1.4	8.4
1,1,2-Trichloroethane	50.2	GS RBTL	2.0 J	1.1	< 1	< 2	< 1	0.55 J	< 1	< 1	< 1	< 1	< 5	0.65 J
Tetrachloroethylene	5	MCL	< 1	0.46 J	< 1	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Trichloroethene	205	GS RBTL	99	77	15	47	47	83	43	46	10	100	86	110
Vinyl Chloride	3.86	GS RBTL	5.5	5	4.8	6.9	6.7	6.2	4.7	10	2.4	13	10	21

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	11/12/20	5/11/21	11/10/21	5/16/22
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	36	4.1	< 1	< 1	< 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	< 1	< 5	< 1
Tetrachloroethylene	5	MCL	< 1	0.25 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Trichloroethene	205	GS RBTL	99	39	12	9.7	11	10	5.3	0.70 J	4.6	2.9	4.8	4.7
Vinyl Chloride	3.86	GS RBTL	5.1	3.8	2	2.8	2.4	2.3	1.9	0.84 J	2	1.9	1.9	2.7

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	11/12/20	5/11/21	11/10/21	5/16/22
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	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	2.1 J	0.64 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1
Tetrachloroethylene	5	MCL	< 1	0.35 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Trichloroethene	205	GS RBTL	93	46	47	58	54	52	33	49	33	33	31	31
Vinyl Chloride	3.86	GS RBTL	5.7	6.9	3.8	3.8	4.3	3.6	2.6	4.5	2.7	2.9	2.6	3.8

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	11/12/20	5/11/21	11/10/21	5/16/22
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	30	2.3	1.9	1.1	0.73 J	< 1	< 1	< 1	< 1	< 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	< 1	< 1	< 5	< 1
Tetrachloroethylene	5	MCL	0.6 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Trichloroethene	205	GS RBTL	100	12	23	25	24	22	3.2	8.2	4.9	7.3	5.5	11
Vinyl Chloride	3.86	GS RBTL	5.9	2.2	1.7	1.7	2.2	1.6	0.90 J	1.7	1.2	1.7	1.2	1.4

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	11/12/20	5/11/21	11/10/21	5/16/22
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	30	0.64 J	< 1	< 1	< 1	< 1	< 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	< 1	< 1	< 5	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Trichloroethene	205	GS RBTL	61	4.8	0.97 J	< 1	< 1	1.3	< 1	< 1	5.8	< 1	< 1	0.27 J
Vinyl Chloride	3.86	GS RBTL	5.1	1.3	0.71 J	< 1	< 1	0.5 J	< 1	< 1	1.3	< 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-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	11/11/20	5/11/21	11/11/21	5/16/22
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	800	990	160	55	0.99 J	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	19 J	23	26	19	3.6	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1	< 1	< 5	< 1
Tetrachloroethylene	5	MCL	6.3	11	0.98 J	0.56 J	0.55 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Trichloroethene	205	GS RBTL	1100	1300	11	4.6	0.75 J	< 1	< 1	< 1	< 1	< 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	< 1	< 1	< 1	< 1

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	11/11/20	5/11/21	11/11/21	5/16/22
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	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	13 J	19	18	7.2	3.8 (J)	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 5	< 1
Tetrachloroethylene	5	MCL	4.5 J	9.2	0.74 J	0.41 J	0.27 J (J)	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Trichloroethene	205	GS RBTL	730	1200	51	28	12 (J)	6.6	3.2 J	1.7	0.61 J	1.9	< 1	< 1	0.3 J	< 1
Vinyl Chloride	3.86	GS RBTL	47	38	35	18	23 (J)	18	13	4.4	1.0	< 1	< 1	< 1	< 1	< 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	11/11/20	5/11/21	11/11/21	5/16/22
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	610	130	75	21	1.6	1.5	< 1	< 1	< 1	< 1	< 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	< 1	< 1	< 5	< 1
Tetrachloroethylene	5	MCL	4.8 J	1.9	0.63 J	0.33 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Trichloroethene	205	GS RBTL	790	250	49	28	12	19	0.95 J	17	7.8	< 1	0.50 J	< 1	0.72 J (J)	2.5
Vinyl Chloride	3.86	GS RBTL	29	17	22	16	15	6.1	< 1	1.9	0.73 J	0.67 J	< 1	< 1	< 1	< 1

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	11/11/20	5/11/21	11/11/21	5/16/22
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	290	42	100	38	12	2.3	< 1	< 1	< 1	< 1	< 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	< 1	< 1	< 5	< 1
Tetrachloroethylene	5	MCL	2.7	0.7 J	0.58 J	0.74 J	0.43 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Trichloroethene	205	GS RBTL	460	94	100	70	28	10	1.9	1.5	< 1	< 1	< 1	< 1	0.23 J	0.75 J
Vinyl Chloride	3.86	GS RBTL	16	3	22	13	12	5.9	2.4	0.58 J	< 1	1.4	< 1	< 1	< 1	< 1

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	11/11/20	5/11/21	11/11/21	5/16/22
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	< 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	< 1	< 1	< 5	< 1
Tetrachloroethylene	5	MCL	4.5 J	0.32 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Trichloroethene	205	GS RBTL	780	28	12	2.6	6.2	9.9	8.7	22	8.8	14	7.2	14	11	15
Vinyl Chloride	3.86	GS RBTL	29	2	2.3	2	2.5	1.3	1.8	2.2	1.1	1.3	0.56 J	0.94 J	< 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-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	11/11/20	5/11/21	11/11/21	5/16/22
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	21	< 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	< 1	< 1	< 5	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	0.38 J	0.26 J	0.26 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Trichloroethene	205	GS RBTL	390	16	64	41	42	47	40	29	27	17	16	14	11	3.9
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	< 1	< 1	< 1	< 1

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	11/10/20	5/10/21	11/12/21	5/16/22
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	530	540	110	6.5	< 1	< 1	< 1	< 1	< 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	< 1	< 1	< 5	< 1
Tetrachloroethylene	5	MCL	2.6	4.8	0.57 J	0.23 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Trichloroethene	205	GS RBTL	380	490	4.8	1.3	0.24 J	< 1	< 1	< 2 (UB)	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	3.86	GS RBTL	2.3	1.3	16	1.6	0.31 J	< 1	< 1	< 1	< 1	< 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	11/10/20	5/10/21	11/12/21	5/16/22
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	110	82	92	50	9.2	2	< 1	< 1	< 1	< 1	< 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	< 1	< 1	< 5	< 1
Tetrachloroethylene	5	MCL	1.1	1.4	1.1	0.68 J	0.22 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Trichloroethene	205	GS RBTL	140	160	98	52	25	15	2.9	3.5 B (B)	3.7	1.6	3.7	1.6	1.4	1.2
Vinyl Chloride	3.86	GS RBTL	< 0.8	< 0.8	3.2	9.4	7	4.1	0.81 J	< 1	< 1	< 1	< 1	< 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	11/10/20	5/10/21	11/12/21	5/16/22
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	16	10	23 (J)	28	37	< 1	7.8	3.1	< 1	< 1	< 1	< 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	< 1	< 1	< 5	< 1
Tetrachloroethylene	5	MCL	< 1	0.33 J	< 5	0.88 J	0.79 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Trichloroethene	205	GS RBTL	34.0	58	100	130	150	7.7	89	61 B (B)	33	13	39	30	14	18
Vinyl Chloride	3.86	GS RBTL	< 0.8	< 0.8	< 4	< 0.8	0.85	< 1	2.4	2.8	5.6	3.2	2.4	1.7	1.6	< 1

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	11/10/20	5/10/21	11/12/21	5/16/22		
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		
1,1,2-Trichloroethane	50.2	GS RBTL	1.7 J	0.84 J	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1		
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5		
Trichloroethene	205	GS RBTL	12	7.5	7.5	9.8	9.7	6.6	5.3	6.2 H	4.7	2.8	5.3	6.1		
Vinyl Chloride	3.86	GS RBTL	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 1	< 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-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	11/10/20	5/10/21	11/12/21	5/16/22
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	< 1	< 1	< 1	< 1	< 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	< 1	< 1	< 5	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Trichloroethene	205	GS RBTL	0.5 J	0.27 J	< 1	< 1	< 1	< 1	0.53 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	3.86	GS RBTL	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

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	11/11/20	5/10/21	11/10/21	5/16/22
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	2.9	3.4	4	3.3 H	3.0	2.8	4.2	1.9	3.2	5.5
1,1,2-Trichloroethane	50.2	GS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Trichloroethene	205	GS RBTL	1.1	2.4	2.5	2.6 H	1.9	1.3	3.1	1.4	1.8 (J)	2.8
Vinyl Chloride	3.86	GS RBTL	< 0.8	< 1	< 1	< 1	< 1	< 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	11/11/20	5/10/21	11/10/21	5/16/22
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	17	160	89	39 H	19	7	28	19	15	16
1,1,2-Trichloroethane	50.2	GS RBTL	0.9 J	7.8	9	2.3 H	1.0	< 1	1.2	1	0.87 J	0.81 J
Tetrachloroethylene	5	MCL	< 5	< 5	0.82 J	< 1	< 1	< 1	< 1	< 1	< 1	0.57
Trichloroethene	205	GS RBTL	17	100	76	76 H	53	23	58	49	35	75
Vinyl Chloride	3.86	GS RBTL	< 0.8	16	25	14 H	11	6.6	4.7	4.9	3.4	4.1

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	11/11/20	5/10/21	11/10/21	5/16/22
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	<1	1.6	2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	<1	0.67 J	1	< 1	0.59 J	< 1	< 1	< 1	< 5	< 1
Tetrachloroethylene	5	MCL	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Trichloroethene	205	GS RBTL	9	74	98	35 H	44	17	22	14	11	7.9
Vinyl Chloride	3.86	GS RBTL	< 0.8	< 1	< 1	< 1	< 1	< 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	11/11/20	5/10/21	11/10/21	5/16/22
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	< 5	< 1
Tetrachloroethylene	5	MCL	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Trichloroethene	205	GS RBTL	<1	7.4	8.3	9.7 H	6.0	4.4	3.4	3	1.8	1.5
Vinyl Chloride	3.86	GS RBTL	< 0.8	< 1	< 1	< 1	< 1	< 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-PORT5									
			2/17/16	5/16/18	11/12/18	5/1/19	11/11/19	5/18/20	11/11/20	5/10/21	11/10/21	5/16/22
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	< 5	< 1
Tetrachloroethylene	5	MCL	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Trichloroethene	205	GS RBTL	<1	2.6	3.2	2.4 H	1.6	1.2	1.6	1.4	< 1	0.62 J
Vinyl Chloride	3.86	GS RBTL	< 0.8	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

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	11/11/20
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	205	GS RBTL	< 1	0.6 J	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	3.86	GS RBTL	< 0.8	< 0.8	< 1	< 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	11/11/2020
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	< 1	1.4	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	205	GS RBTL	< 1	5.1	< 1	0.81 J	< 1	0.79 J	< 1	< 1
Vinyl Chloride	3.86	GS RBTL	< 0.8	< 0.8	< 1	< 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	11/10/20	5/11/21	11/19/21	5/20/22
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	< 1	1.3	RNA	< 1	< 1	< 1	< 1	16	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	< 1	< 1	RNA	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	RNA	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5
Trichloroethene	205	GS RBTL	< 1	9.1	RNA	3.4	< 1	4.0	< 1	8	< 1	0.86 J	< 1
Vinyl Chloride	3.86	GS RBTL	< 0.8	< 0.8	RNA	< 1	< 1	< 1	< 1	< 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	11/10/20
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1
Trichloroethene	205	GS RBTL	< 1	< 1	< 1	< 1	< 1 (UJ)	6.3	< 1	0.53 J
Vinyl Chloride	3.86	GS RBTL	< 0.8	< 0.8	< 1	< 1	< 1 (UJ)	< 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-SCREEN5										
			7/29/15	9/22/15	5/30/18	11/27/18	5/14/19	11/12/19	5/18/20	11/10/20	5/11/21	11/19/21	5/20/22
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1	< 1	< 0.5	< 0.5
Trichloroethene	205	GS RBTL	< 1	< 1	< 1	< 1	< 1 (UJ)	8.8	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	3.86	GS RBTL	< 0.8	< 0.8	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1	< 1	< 1	< 1

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	11/10/20
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1
Trichloroethene	205	GS RBTL	< 1	0.6 J	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1
Vinyl Chloride	3.86	GS RBTL	< 0.8	< 0.8	< 1	< 1	< 1 (UJ)	< 1	< 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	11/10/20	5/12/21	11/20/21	5/20/22
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	1600	2200	1700	1200	1400	1200	1000	1200	1100	980	820	1100	690	980
1,1,2-Trichloroethane	50.2	GS RBTL	30 J	37	29	28	33	26	27	32	21	28	25	21	11 J	12
Tetrachloroethylene	5	MCL	38	15	13	9.7	7.1	7	< 10	6.7	6.2	5.3	6.4	7.6	< 10	4.5
Trichloroethene	205	GS RBTL	1600	1600	1400	1100	870	790	620	670	490 (J)	380	440	540	400	510
Vinyl Chloride	3.86	GS RBTL	< 0.8	5.2	3.8	2.2	3.2	5.6	< 10	9.4	8.2	15	16	8.4	< 20	13

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	11/10/20	5/12/21	11/20/21	5/20/22
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	25	34	9.9	18	8	9.8	5	14	5.4	12	5.9	12
1,1,2-Trichloroethane	50.2	GS RBTL	< 1	0.81 J	1.3	0.58 J	0.39 J	< 1	< 1	< 1	< 1	0.50 J	< 1	0.33 J
Tetrachloroethylene	5	MCL	< 1	0.31 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5
Trichloroethene	205	GS RBTL	30	42	12	22	7	11	3.3	16	6.3	14	7.4	14
Vinyl Chloride	3.86	GS RBTL	< 0.8	0.2 J	0.2 J	< 1	< 1	< 1	< 1	< 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	11/11/20	5/7/21	11/19/21	5/19/22
1,1,2,2-Tetrachloroethane	13.6	GS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	GS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1	< 1	< 0.5	< 0.5
Trichloroethene	205	GS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	3.86	GS RBTL	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1 (UJ)	< 1	< 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

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	11/16/20	5/6/21	11/22/21	5/18/22
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	390	770	510	370	320	360	390	310	230	150	130	120	82	42	42
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	2.7	2.4	0.92 J	< 5
Tetrachloroethylene	5	MCL	2.3	2.2	1.1	1.3	2.4	2.8	< 5	< 5	< 5	1.2	1.1	0.75 J	1.2	0.59	< 2.5
Trichloroethene	38.3	RS RBTL	170	230	190	160	210	230	240	200	170	120	99	83	67	45	41
Vinyl Chloride	2	MCL	< 1	< 1	< 1	< 0.8	< 0.8	< 0.8	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 5

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	11/16/20	5/6/21	11/22/21	5/18/22
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	< 1	< 1	< 1	< 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	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5
Trichloroethene	38.3	RS RBTL	< 1	< 1	< 1	< 1	0.59 J	< 1	< 1	52	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	2	MCL	< 1	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1	< 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	11/17/20	5/6/21	11/22/21	5/18/22
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	< 1	< 1	< 1	< 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	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5
Trichloroethene	38.3	RS RBTL	< 1	< 1	< 1	< 1	0.63 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	2	MCL	< 1	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1	< 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	11/17/20	5/6/21	11/22/21	5/18/22
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	58	37	66	73	100	190	140	100	58	59	49	30	17	15	10
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	1.5	1.4	1.2	0.81 J
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	< 1	< 1	< 0.5	< 0.5
Trichloroethene	38.3	RS RBTL	63	39	51	87	160	180	160	110	100	110	110	66	52	54	46
Vinyl Chloride	2	MCL	< 1	< 1	< 1	< 0.8	< 0.8	< 0.8	< 5 (UJ)	1.4	0.7 J	1.9	1.2	0.98 J	< 1	1	0.66 J

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	11/17/20	5/7/21	11/21/21	5/17/22
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	220	220	300	290	210	260	200	230	150	100 (J)	96	63	65	33	35
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	2.7	2.7	1.4	1.2
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	< 1	0.95 J	< 0.5	< 0.5
Trichloroethene	38.3	RS RBTL	130	93	150	190	210	170	150	160	150	110 (J)	100	79	85	56	39
Vinyl Chloride	2	MCL	< 1	< 1	< 1	< 0.8	< 0.8	0.51 J	2.8	3.2 J	< 5	< 1 (UJ)	2.5	2.3	3	1.8	2.1

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	11/16/20	5/7/21	11/21/21	5/17/22
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	< 1	< 1	< 1	< 1	< 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	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5
Trichloroethene	38.3	RS RBTL	< 1	< 1	< 1	< 1	< 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	< 1	< 1	< 1	< 1

VOCs (µg/L)	GPS	GPS Basis	OLF-G26							
			8/13/04	2/17/06	11/20/19	5/20/20	11/17/20	5/10/21	11/18/21	5/19/22
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	7.2	RS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1
Tetrachloroethylene	5	MCL	< 1	0.39 J	< 1	< 1	< 1	< 1	< 1	< 0.5
Trichloroethene	38.3	RS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	2	MCL	< 1	< 1	1.0	< 1	< 1	< 1	< 1	< 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	11/12/20	5/10/21	11/18/21	5/18/22
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	< 1	< 1	< 1	< 1	< 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	< 1	< 1	< 5	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Trichloroethene	38.3	RS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	0.57 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	2	MCL	< 1	< 1	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1 (UJ)	< 1	< 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-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	11/12/20	5/10/21	11/18/21	5/18/22
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	7.2	RS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1	< 1	< 5	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1	< 1	< 1	< 0.5
Trichloroethene	38.3	RS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	2	MCL	< 1	< 1	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1	< 1	< 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	11/17/20	5/6/21	11/21/21	5/17/22
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	< 1	< 1
1,1,2-Trichloroethane	7.2	RS RBTL	< 1	< 1	< 1	< 1	< 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	< 1	< 1	< 0.5	< 0.5
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	< 1	3.2	3.4	1.8
Vinyl Chloride	2	MCL	< 1	< 1	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1	< 1	< 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	11/17/20	5/7/21	11/22/21	5/18/22
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	< 1	< 1	< 1	0.33 J	< 1	< 1	1.4	1.2	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	7.2	RS RBTL	< 1	< 1	< 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	< 0.5	< 0.5
Trichloroethene	38.3	RS RBTL	< 1	< 1	< 1	4	1.3	0.61 J	0.61 J	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	2	MCL	< 1	< 1	< 0.8	< 0.8	< 1	< 1	< 1	< 1	< 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	11/16/20	5/7/21	11/15/21	5/19/22
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	< 1	< 1	< 1	< 1	3.1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	7.2	RS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Trichloroethene	38.3	RS RBTL	0.46 J	0.34 J	0.31 J	0.48 J	0.89 J	0.80 J	0.64 J	1.3	0.89 J	0.93 J
Vinyl Chloride	2	MCL	< 1	< 1	< 1	< 1	< 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	11/16/20	5/6/21	11/20/21	5/17/22
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	1.5	1.4	2.2
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	0.35 J	< 1	< 1	0.33 J
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.75 J	< 1	< 1	< 1	1.2	< 0.5
Trichloroethene	38.3	RS RBTL	15	9.6	11	3.8	28	29	32	34	34	24	1.8	30	21	32	28
Vinyl Chloride	2	MCL	< 1	< 1	< 1	0.28 J	< 0.8	< 0.8	< 1	< 1	< 1	< 1	< 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	11/16/20	5/6/21	11/20/21	5/17/22
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	< 1	< 1	< 1	< 1	0.22 J	< 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	< 1	< 1	< 1	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5
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	4.1	3.3	3.9	3.2
Vinyl Chloride	2	MCL	< 1	< 1	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1	< 1	< 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	11/17/20	5/12/21	11/17/21	5/19/22
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	7.2	RS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Trichloroethene	38.3	RS RBTL	1	0.46 J	1.4	1.7	< 1	< 1	< 1	< 1
Vinyl Chloride	2	MCL	< 1	< 1	< 1	< 0.8	< 1	< 1	< 1	< 1

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	11/17/20	5/12/21	11/17/21	5/19/22
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	11	16	17	15	13	18	19	21	27	23
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	0.70 J	0.63 J	1.3 J	< 1
Tetrachloroethylene	5	MCL	0.42 J	0.27 J	0.29 J	0.29 J	< 1	< 1	< 1	< 1	0.71 J	0.69
Trichloroethene	38.3	RS RBTL	51	50	53	46	53	59	71	93	110 (J)	96
Vinyl Chloride	2	MCL	< 1	< 1	< 1	< 0.8	< 1	< 1	< 1	< 1	< 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	11/17/20	5/12/21	11/17/21	5/19/22
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	< 1	< 1	5.8	5.2	2.5	0.89 J	2.1	< 1	1.1	< 1
1,1,2-Trichloroethane	7.2	RS RBTL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Trichloroethene	38.3	RS RBTL	0.42 J	< 1	9.4	12	14	3.2	12	2.3	8.1	1.6
Vinyl Chloride	2	MCL	< 1	< 1	< 1	< 0.8	< 1	< 1	< 1	< 1	< 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	11/16/20	5/10/21	11/15/21	5/19/22
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	< 1	< 1	< 1	< 1	< 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	< 1	< 1	< 5	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1	< 1	< 0.5
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	7.6	8.9	8.5	6.7
Vinyl Chloride	2	MCL	< 1	< 1	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1	< 1 (UJ)	< 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-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	11/12/20	5/7/21	11/15/21	5/19/22
1,1,2,2-Tetrachloroethane	2.03	RS RBTL	< 1	< 1	< 1	< 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	< 1	< 5	< 1
Tetrachloroethylene	5	MCL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Trichloroethene	38.3	RS RBTL	2	2.8	3.7	6.5	7.4	8.2	8.1	9.3	8.3	12	9.3	7.8	10	7.1
Vinyl Chloride	2	MCL	< 1	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1	< 1	< 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

FILE G:\vis projects\for McClellan\03_051_007\active\map\F3_80(6)\CMER_2019\Figures1_ParcelLocationMap.mxd 9/18/2019 Rachel Plestid

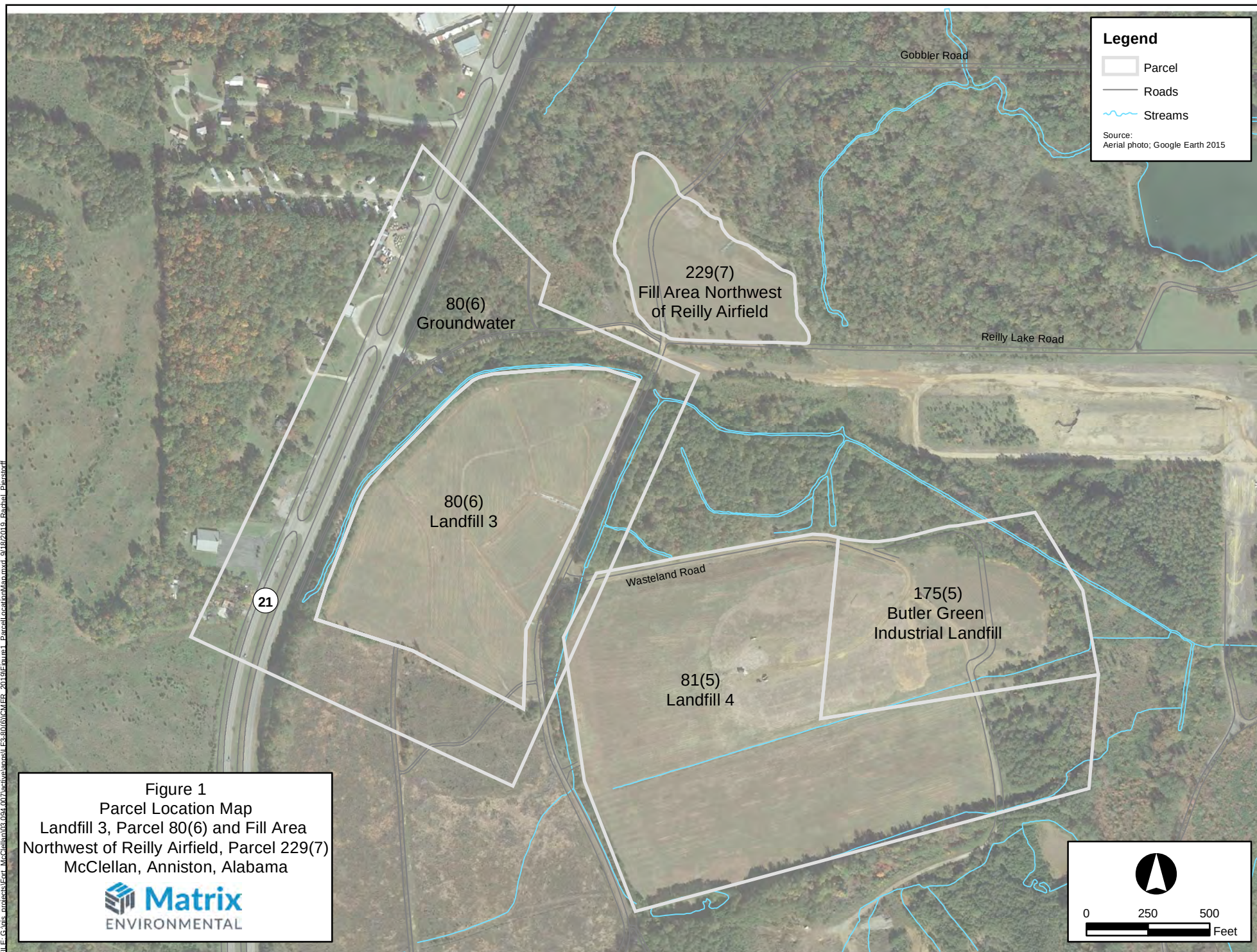


Figure 1
Parcel Location Map
Landfill 3, Parcel 80(6) and Fill Area
Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama



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



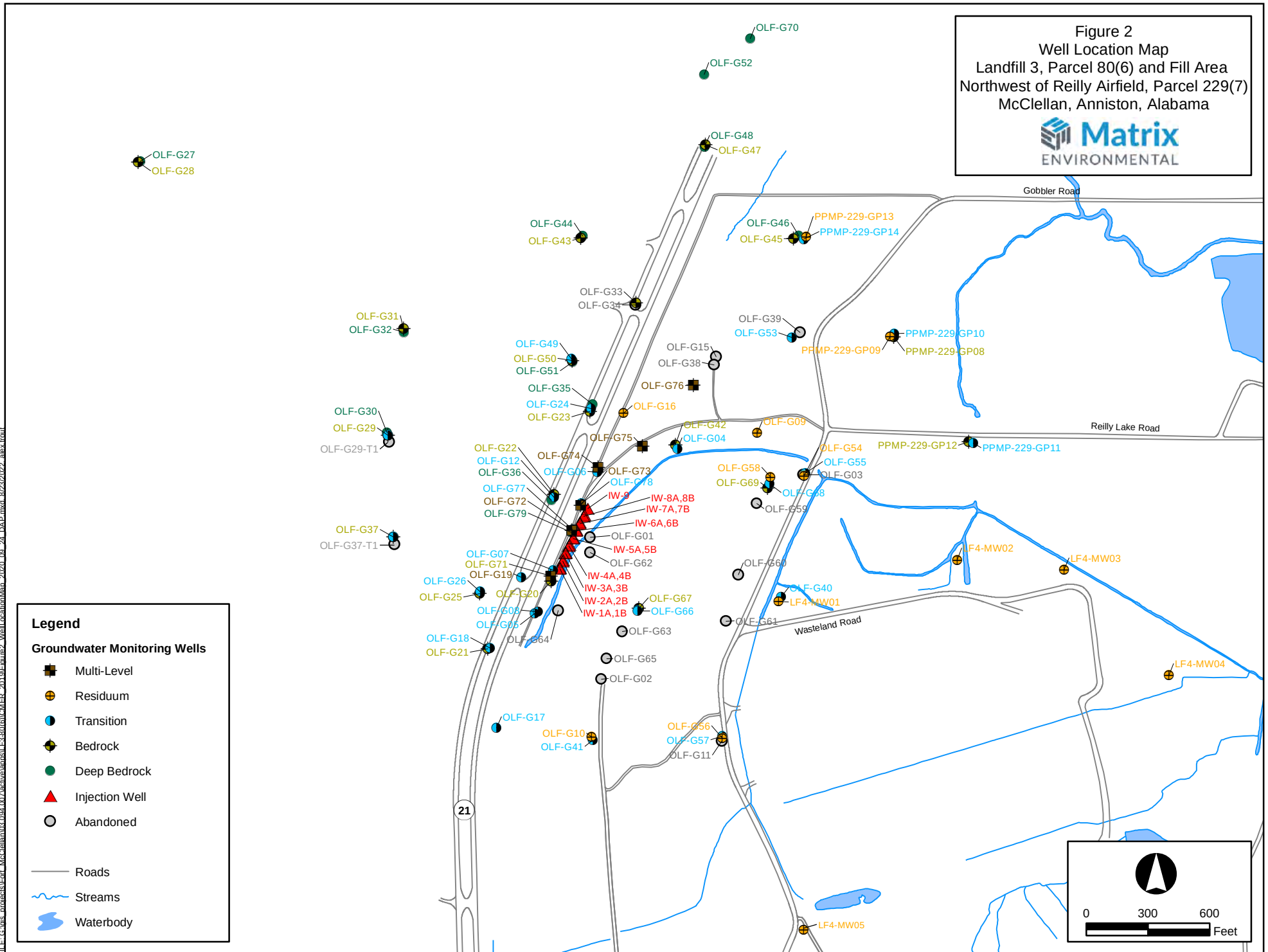
Legend

Groundwater Monitoring Wells

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

- Roads
- Streams
- Waterbody

FILE:G:\gis_projects\For_McClellan\303_051_007\active\monal\F380\G\CMEER_2019\Figure2_WellLocationMap_2020_09_24_DAP.mxd 8/23/2022 alex.trout



FILE: G:\gis_projects\Fort_McClellan\03_094_007\active\apps\LF3-80(6)\CMER_2022\Figure3_Residuum_Transition_GWE_Nov_2021_08_19_22_PLB.mxd, 8/19/2022, payton.bennet

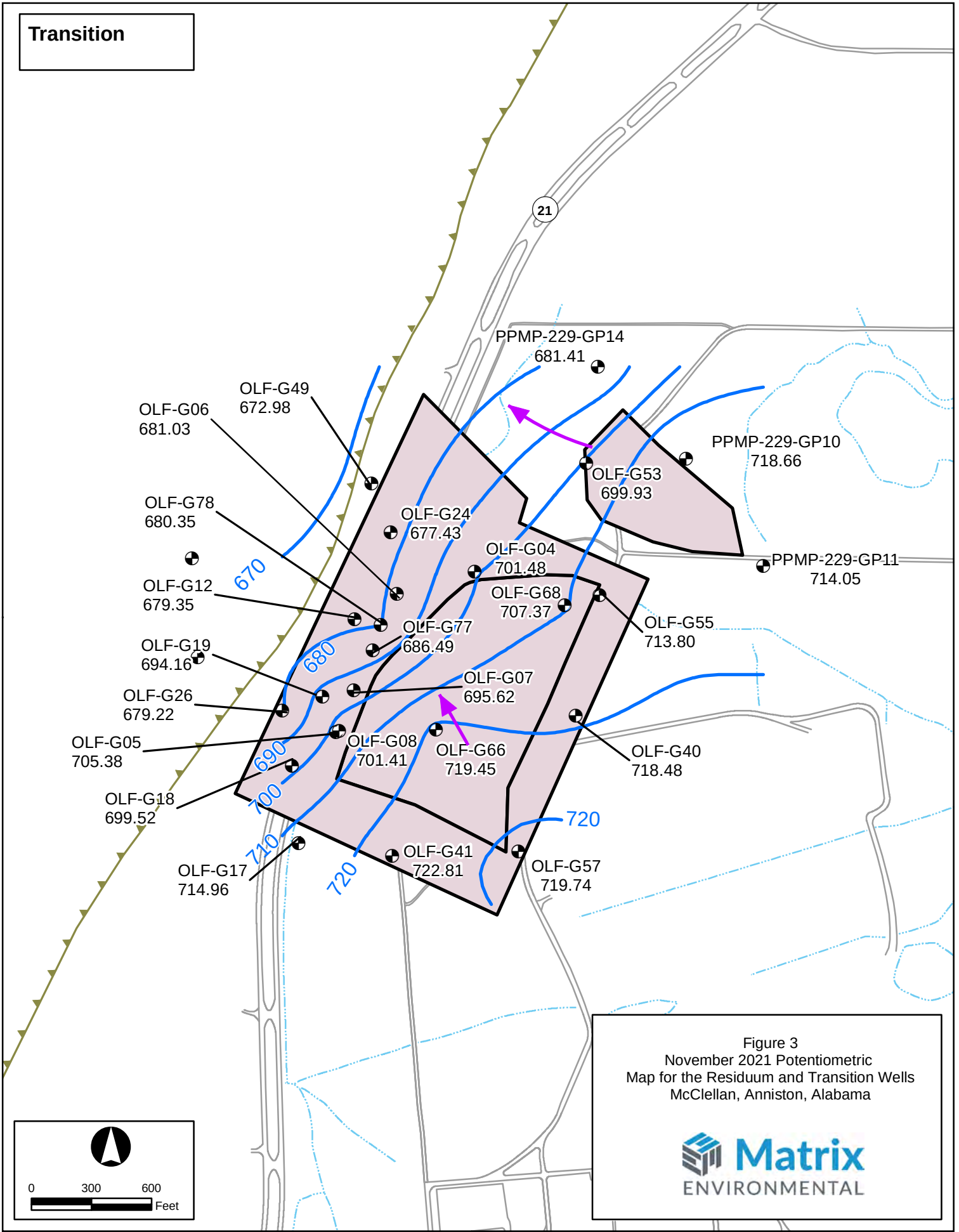
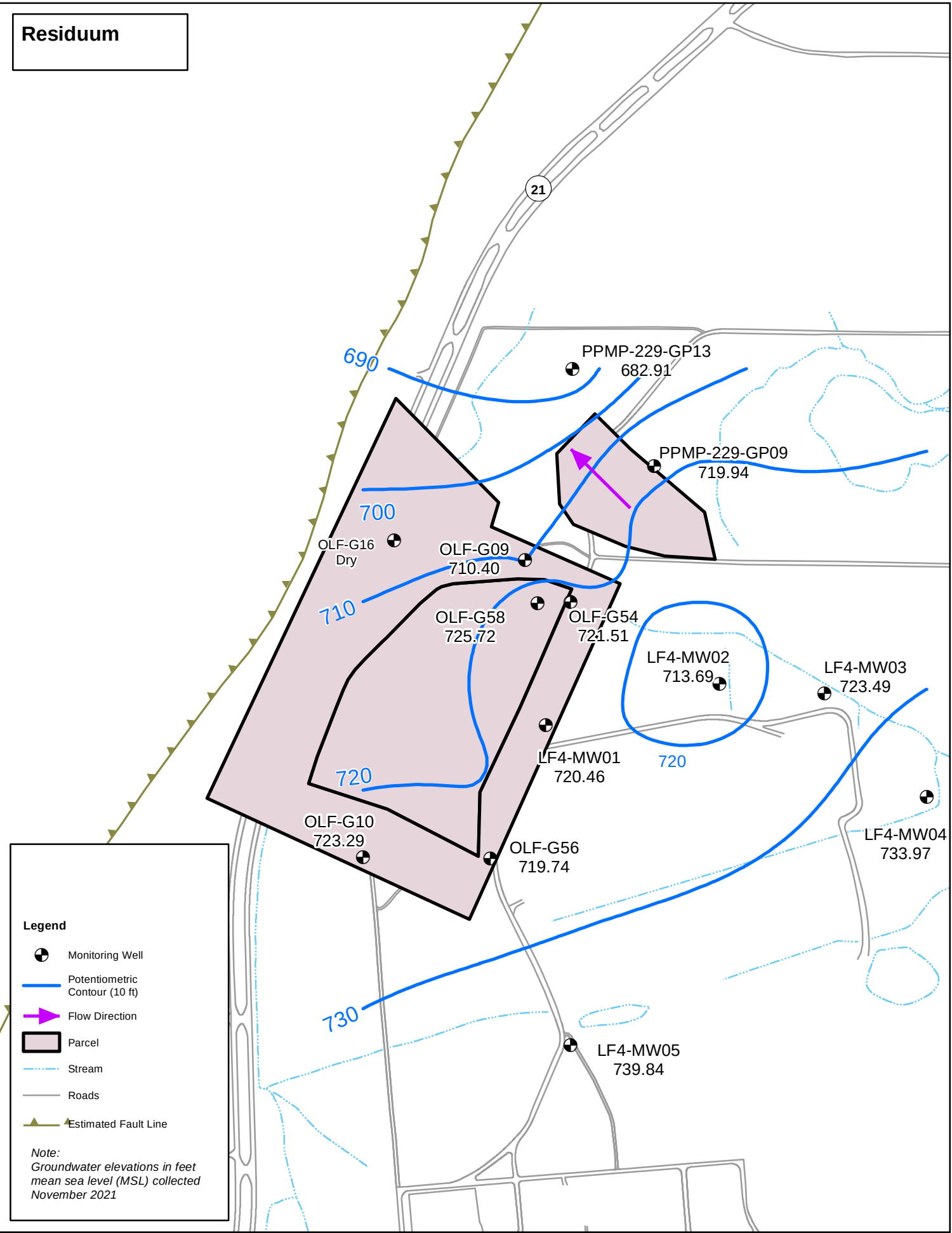
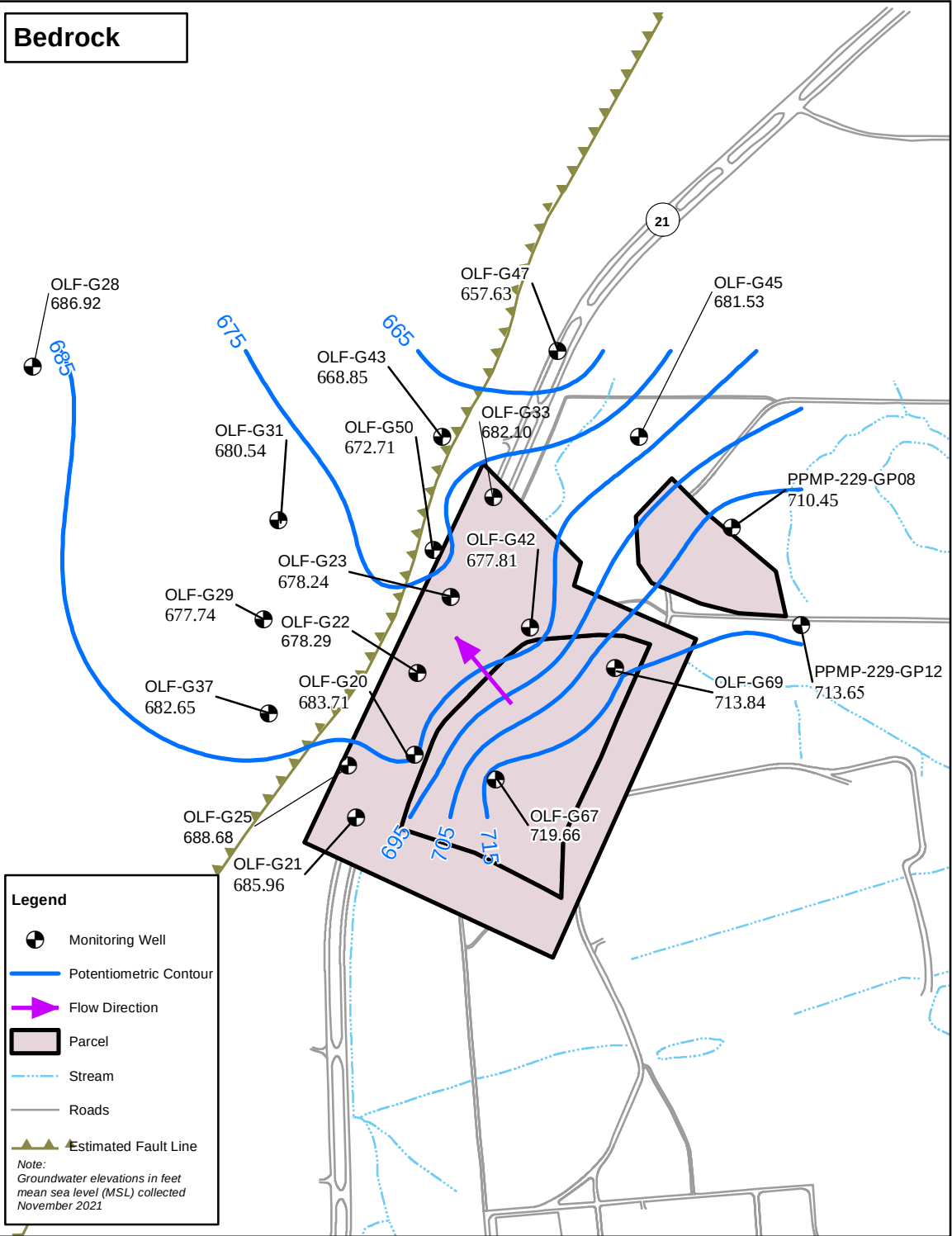


Figure 3
November 2021 Potentiometric
Map for the Residuum and Transition Wells
McClellan, Anniston, Alabama



Bedrock



Deep Bedrock

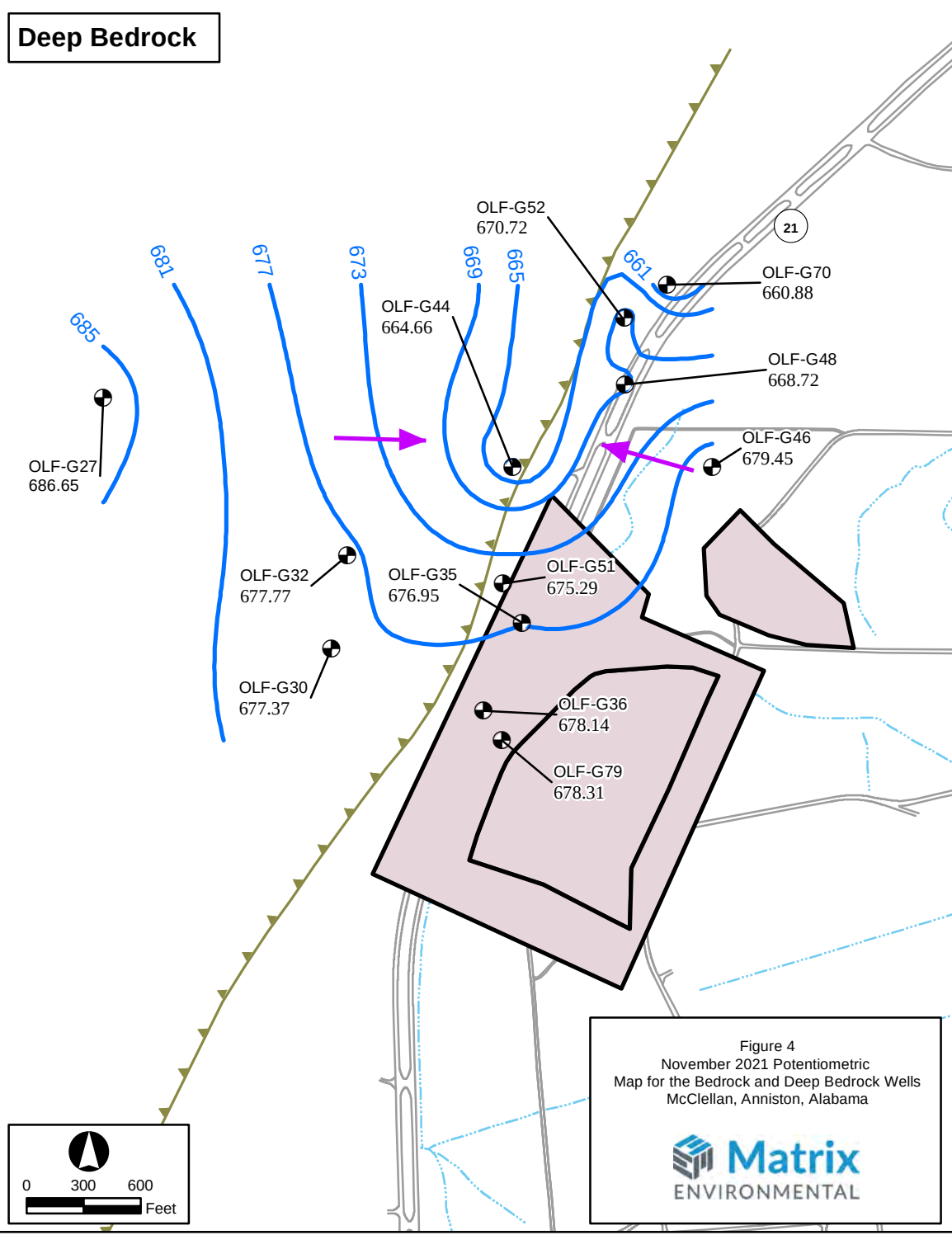
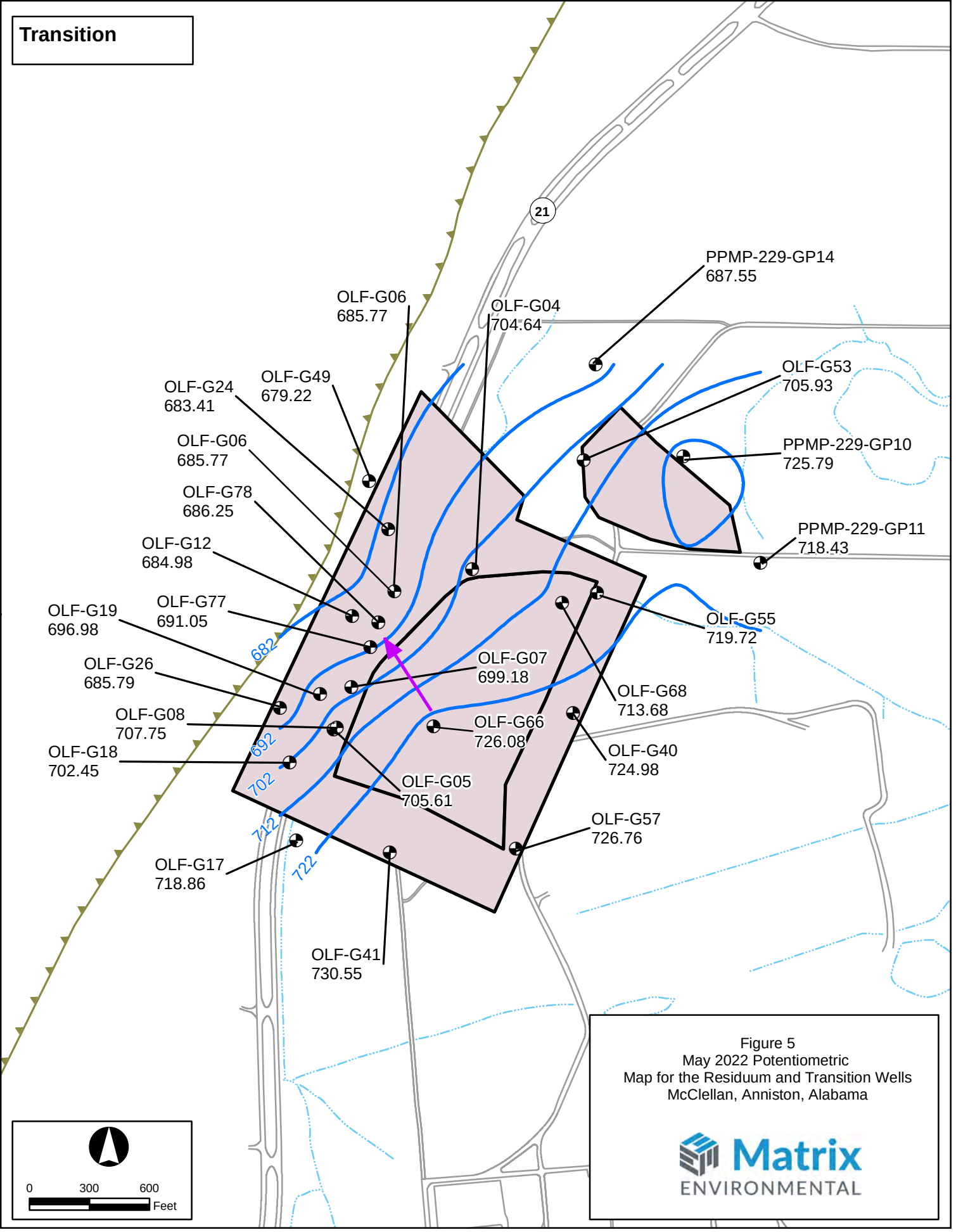
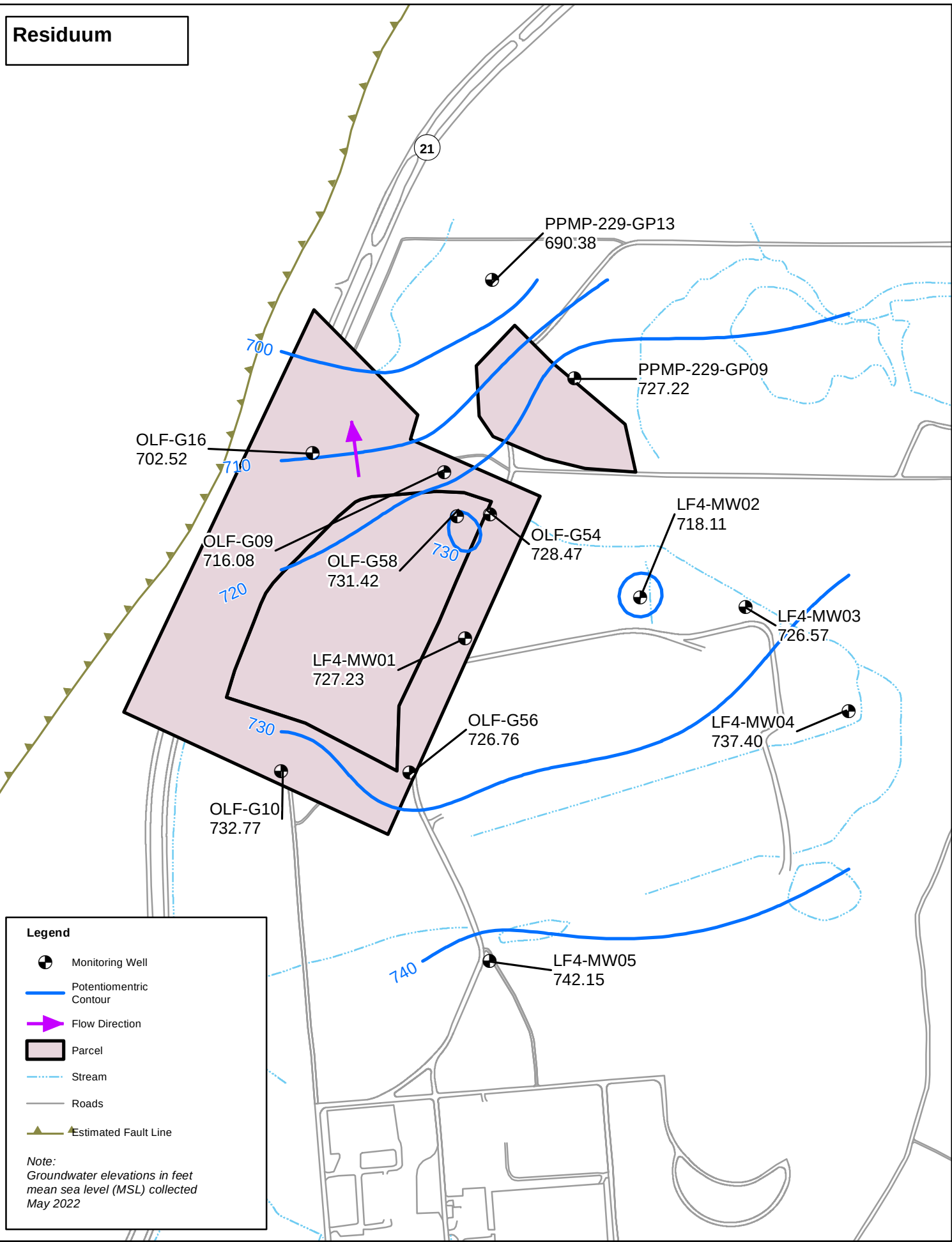


Figure 4
November 2021 Potentiometric
Map for the Bedrock and Deep Bedrock Wells
McClellan, Anniston, Alabama

FILE: G:\vis projects\Fort McClellan\03_094_007\active\apps\LF3-80\6\CMER 2022\Figure5 Residuum Transition GWE May 2022 08 18 22 PLB.mxd, 8/18/2022, payton.bennett



FILE: G:\gis_projects\Fort_McClellan\03_094_007\active\map\LF3-30\0\CMER_2022\Figure6_Bedrock_DeepBedrock_GWE_May_2022_08_18_22_PLE.mxd, 8/18/2022, payton.bennett

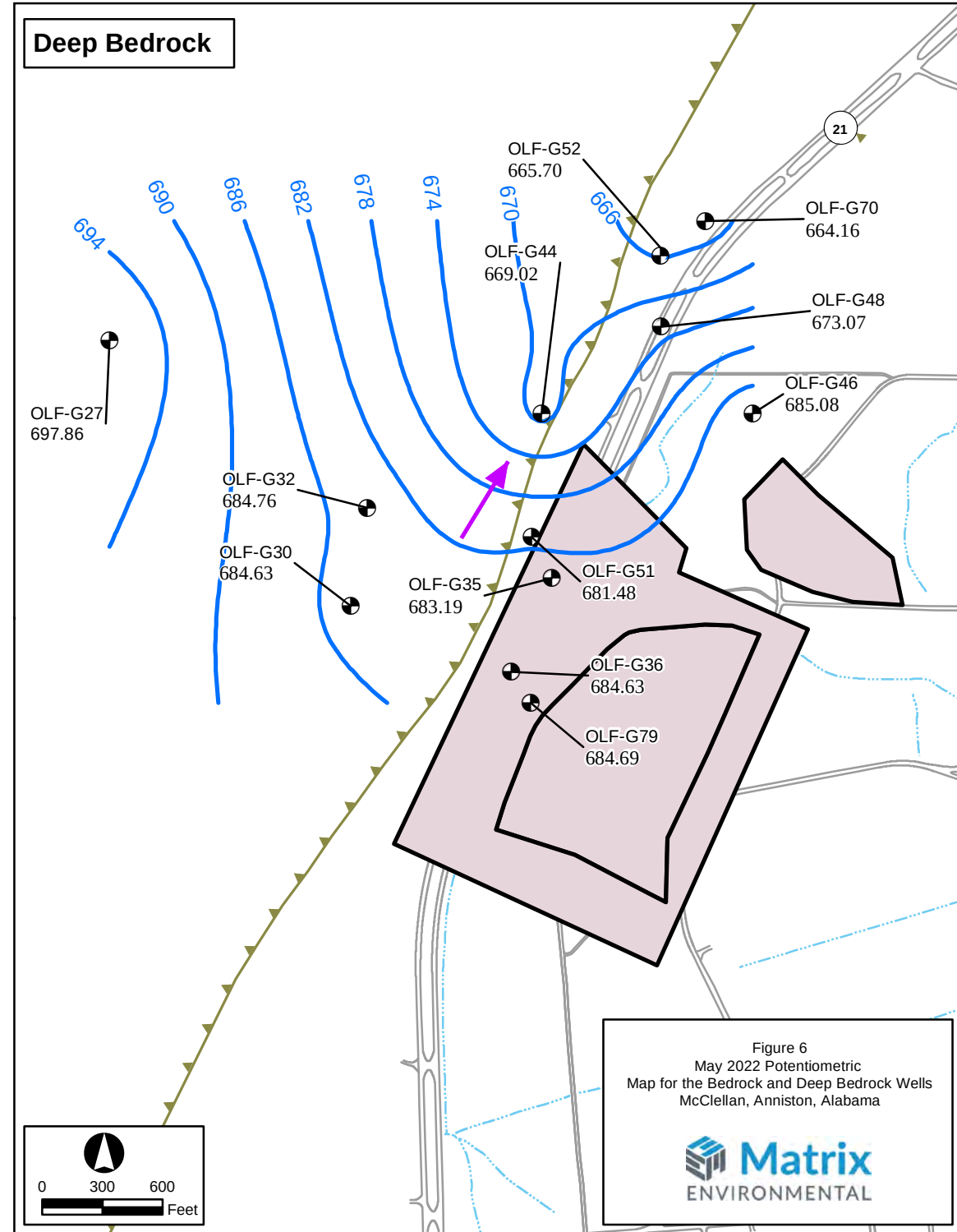
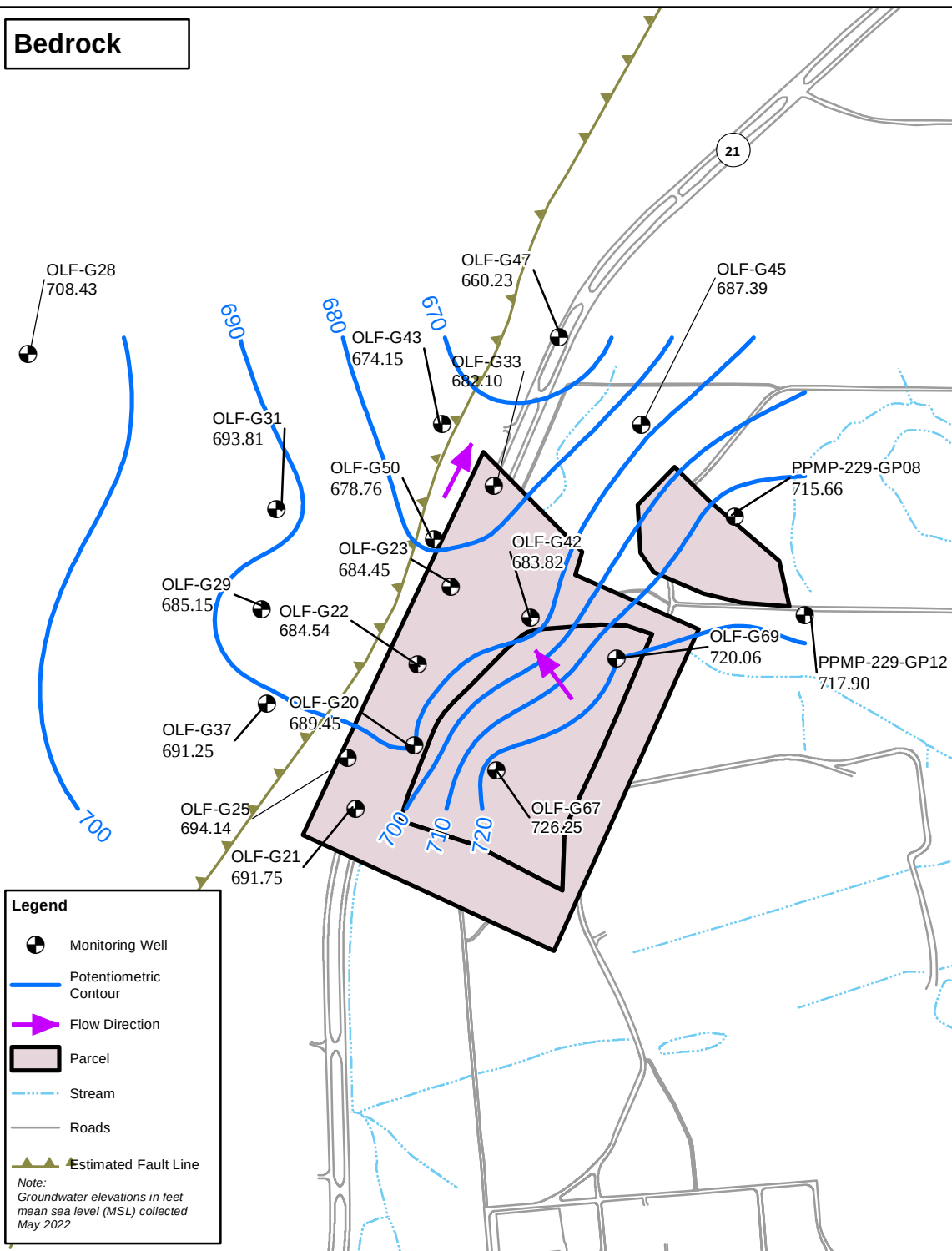


Figure 6
May 2022 Potentiometric
Map for the Bedrock and Deep Bedrock Wells
McClellan, Anniston, Alabama



FILE: G:\GIS\projects\Fert_McClellan\03_094_007\active\apps\LF3-80(6)\CMER_2022\Figure7_COC_Onsite_2022_07_28_22_AJT.mxd, 10/16/2023, alex.trout

OLF-G72 P1	11/11/21	5/16/22
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<5	<1
PERC	<1	<0.5
TCE	<1	<1
VC	<1	<1

OLF-G72 P2	11/11/21	5/16/22
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<5	<1
PERC	<1	<0.5
TCE	0.3 J	<1
VC	<1	<1

OLF-G72 P3	11/11/21	5/16/22
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<5	<1
PERC	<1	<0.5
TCE	0.72 J (J)	2.5
VC	<1	<1

OLF-G07	11/19/21	5/20/22
1,1,2,2-TCA	71	130
1,1,2-TCA	0.86 J	1.2
PERC	<0.5	0.53
TCE	37	50
VC	<1	<1

OLF-G71 P1	11/10/21	5/16/22
1,1,2,2-TCA	1.4	8.4
1,1,2-TCA	<5	0.65 J
PERC	<1	<0.5
TCE	86	110
VC	10	21

OLF-G71 P2	11/10/21	5/16/22
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<5	<1
PERC	<1	<0.5
TCE	4.8	4.7
VC	1.9	2.7

OLF-G71 P3	11/10/21	5/16/22
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<5	<1
PERC	<1	<0.5
TCE	31	31
VC	2.6	3.8

OLF-G71 P4	11/10/21	5/16/22
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<5	<1
PERC	<1	<0.5
TCE	5.5	11
VC	1.2	1.4

OLF-G71 P5	11/10/21	5/16/22
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<5	<1
PERC	<1	<0.5
TCE	<1	0.27 J
VC	<1	<1

OLF-G72 P4	11/11/21	5/16/22
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<5	<1
PERC	<1	<0.5
TCE	0.23 J	0.75 J
VC	<1	<1

OLF-G72 P5	11/11/21	5/16/22
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<5	<1
PERC	<1	<0.5
TCE	11	15
VC	<1	<1

OLF-G72 P6	11/11/21	5/16/22
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<5	<1
PERC	<1	<0.5
TCE	11	3.9
VC	<1	<1

OLF-G74 P1	11/10/21	5/16/22
1,1,2,2-TCA	3.2	5.5
1,1,2-TCA	<5	<1
PERC	<1	<0.5
TCE	1.8 (J)	2.8
VC	<1	<1

OLF-G74 P2	11/10/21	5/16/22
1,1,2,2-TCA	15	16
1,1,2-TCA	0.87 J	0.81 J
PERC	<1	0.57
TCE	35	75
VC	3.4	4.1

OLF-G74 P3	11/10/21	5/16/22
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<5	<1
PERC	<1	<0.5
TCE	11	7.9
VC	<1	<1

OLF-G74 P4	11/10/21	5/16/22
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<5	<1
PERC	<1	<0.5
TCE	1.8	1.5
VC	<1	<1

OLF-G74 P5	11/10/21	5/16/22
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<5	<1
PERC	<1	<0.5
TCE	<1	0.62 J
VC	<1	<1

OLF-G20	11/19/21	5/20/22
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<0.5	<0.5
TCE	8.1	4.4
VC	7.1	9

OLF-G75 S3	11/19/21	5/20/22
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<0.5	<0.5
TCE	0.86 J	<1
VC	<1	<1

OLF-G75 S5	11/19/21	5/20/22
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<0.5	<0.5
TCE	<1	<1
VC	<1	<1

OLF-G42	11/20/21	5/20/22
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<0.5	<0.5
TCE	3.6	6
VC	7.5	2.7

PPMP-229-12	11/19/21	5/19/22
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<1	<1
PERC	<0.5	<0.5
TCE	<1	<1
VC	<1	<1

OLF-G78	11/20/21	5/20/22
1,1,2,2-TCA	5.9	12
1,1,2-TCA	<1	0.33 J
PERC	<0.5	<0.5
TCE	7.4	14
VC	<1	<1

OLF-G73 P1	11/12/21	5/16/22
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<5	<1
PERC	<1	<0.5
TCE	<1	<1
VC	<1	<1

OLF-G73 P2	11/12/21	5/16/22
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<5	<1
PERC	<1	<0.5
TCE	1.4	1.2
VC	<1	<1

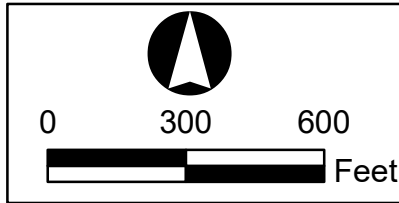
OLF-G73 P3	11/12/21	5/16/22
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<5	<1
PERC	<1	<0.5
TCE	14	18
VC	1.6	<1

OLF-G73 P4	11/12/21	5/16/22
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<5	<1
PERC	<1	<0.5
TCE	5.3	6.1
VC	<1	<1

OLF-G73 P5	11/12/21	5/16/22
1,1,2,2-TCA	<1	<1
1,1,2-TCA	<5	<1
PERC	<1	<0.5
TCE	<1	<1
VC	<1	<1

OLF-G77	11/20/21	5/20/22
1,1,2,2-TCA	690	980
1,1,2-TCA	11 J	12
PERC	<10	4.5
TCE	400	510
VC	<20	13

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



Legend

Groundwater Monitoring Wells

- Multi-Level
- Residuum
- Transition

- Bedrock
- Deep Bedrock
- Injection Well
- Parcel
- Roads
- Streams
- Waterbody

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

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 #
NS = Not sampled
Shaded concentrations are greater than GPS

FILE: G:\info_projects\Fort_McClellan\03_094_007_active\apps\LF3-80(6)\CMER_2022\Figure8_CO2-Offsite_2022_07_22_AJT.mxd, 10/16/2023, alex.trout

OLF-G51	11/17/21	5/19/22
1,1,2,2-TCA	1.1	< 1
1,1,2-TCA	< 5	< 1
PERC	< 1	< 0.5
TCE	8.1	1.6
VC	< 1	< 1

OLF-G50	11/17/21	5/19/22
1,1,2,2-TCA	27	23
1,1,2-TCA	1.3 J	< 1
PERC	0.71 J	0.69
TCE	110	96
VC	< 1	< 1

OLF-G49	11/17/21	5/19/22
1,1,2,2-TCA	< 1	< 1
1,1,2-TCA	< 5	< 1
PERC	< 1	< 0.5
TCE	< 1	< 1
VC	< 1	< 1

OLF-G43	11/15/21	5/19/22
1,1,2,2-TCA	< 1	< 1
1,1,2-TCA	< 5	< 1
PERC	< 1	< 0.5
TCE	0.89 J	0.93 J
VC	< 1	< 1

OLF-G70	11/15/21	5/19/22
1,1,2,2-TCA	< 1	< 1
1,1,2-TCA	< 5	< 1
PERC	< 1	< 0.5
TCE	10	7.1
VC	< 1	< 1

OLF-G52	11/15/21	5/19/22
1,1,2,2-TCA	< 1	< 1
1,1,2-TCA	< 5	< 1
PERC	< 1	< 0.5
TCE	8.5	6.7
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-G47	11/20/21	5/17/22
1,1,2,2-TCA	1.4	2.2
1,1,2-TCA	< 1	0.33 J
PERC	1.2	< 0.5
TCE	32	28
VC	< 1	< 1

OLF-G48	11/20/21	5/17/22
1,1,2,2-TCA	< 1	< 1
1,1,2-TCA	< 1	< 1
PERC	< 0.5	< 0.5
TCE	3.9	3.2
VC	< 1	< 1

OLF-G12	11/22/21	5/18/22
1,1,2,2-TCA	42	42
1,1,2-TCA	0.92 J	< 5
PERC	0.59	< 2.5
TCE	45	41
VC	< 1	< 5

OLF-G36	11/22/21	5/18/22
1,1,2,2-TCA	< 1	< 1
1,1,2-TCA	< 1	< 1
PERC	< 0.5	< 0.5
TCE	< 1	< 1
VC	< 1	< 1

OLF-G22	11/22/2021	5/18/2022
1,1,2,2-TCA	15	10
1,1,2-TCA	1.2	0.81 J
PERC	< 0.5	< 0.5
TCE	54	46
VC	1	0.66 J

OLF-G31	11/18/21	5/18/22
1,1,2,2-TCA	< 1	< 1
1,1,2-TCA	< 5	< 1
PERC	< 1	< 0.5
TCE	< 1	< 1
VC	< 1	< 1

OLF-G32	11/18/21	5/18/22
1,1,2,2-TCA	< 1	< 1
1,1,2-TCA	< 5	< 1
PERC	< 1	< 0.5
TCE	< 1	< 1
VC	< 1	< 1

OLF-G35	11/21/21	5/17/22
1,1,2,2-TCA	< 1	< 1
1,1,2-TCA	< 1	< 1
PERC	< 0.5	< 0.5
TCE	3.4	1.8
VC	< 1	< 1

OLF-G24	11/21/21	5/17/22
1,1,2,2-TCA	< 1	< 1
1,1,2-TCA	< 1	< 1
PERC	< 0.5	< 0.5
TCE	< 1	< 1
VC	< 1	< 1

OLF-G23	11/21/21	5/17/22
1,1,2,2-TCA	33	35
1,1,2-TCA	1.4	1.2
PERC	< 0.5	< 0.5
TCE	56	39
VC	1.8	2.1

OLF-G19	11/22/2021	5/18/2022
1,1,2,2-TCA	< 1	< 1
1,1,2-TCA	< 1	< 1
PERC	< 0.5	< 0.5
TCE	0.3 J	0.27 J
VC	< 1	< 1

OLF-G26	11/18/21	5/19/22
1,1,2,2-TCA	< 1	< 1
1,1,2-TCA	< 5	< 1
PERC	< 1	< 0.5
TCE	< 1	< 1
VC	< 1	< 1

OLF-G18	11/22/21	5/18/22
1,1,2,2-TCA	< 1	< 1
1,1,2-TCA	< 1	< 1
PERC	< 0.5	< 0.5
TCE	< 1	< 1
VC	< 1	< 1

OLF-G21	11/22/21	5/18/22
1,1,2,2-TCA	< 1	< 1
1,1,2-TCA	< 1	< 1
PERC	< 0.5	< 0.5
TCE	< 1	< 1
VC	< 1	< 1

Legend

Groundwater Monitoring Wells

- Multi-Level
- Residuum
- Transition

- Bedrock
- Deep Bedrock
- Injection Well

- Parcel

- Roads

- Streams

- Waterbody

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

µg/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 #
NS = Not sampled
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

