

September 29, 2026
File No. 27225516.00

Mr. Mike Smith, Environmental Engineer Senior
Iowa Department of Natural Resources
Land Quality Bureau
6200 Park Avenue
Des Moines, Iowa 50321

Transmitted via email to: mike.smith@dnr.iowa.gov

Subject: Construction Observation Report
2025 Gas Collection and Control System Expansion
Loess Hills Regional Sanitary Landfill
Permit No. 65-SDP-01-72

Dear Mr. Smith:

On behalf of the Loess Hills Regional Landfill, SCS Engineers (SCS) is submitting the enclosed 2025 Gas Collection and Control System Expansion Construction Observation Report.

Please do not hesitate to contact Zach Mahon at (402) 938-0321 or by email at zmahon@scsengineers.com should you have any questions on the material enclosed or require additional information.

Sincerely,



Ben Graham, EI
Project Professional
SCS Engineers



Zachary Mahon, PE
Project Manager
SCS Engineers

BG/ZM

cc: Ms. Becky Jolly, Iowa Department of Natural Resources (electronic)
Mr. Kelly Danielson, Iowa Waste Services (electronic)
Mr. Chaz Roberts, Iowa Waste Services (electronic)
Mr. Bret Stephens, Iowa Waste Services (electronic)
Ms. Rachel Hanigan, PE, Iowa Waste Services (electronic)

Encl. Construction Observation Report 2025 Gas Collection and Control System Expansion



Construction Observation Report
2025 Gas Collection and Control System Expansion
Loess Hills Regional Sanitary Landfill
Malvern, Iowa

Iowa Waste Services, LLC.
59722 290th Street
Malvern, Iowa 51551

SCS ENGINEERS

27225516.00 | January 30, 2026

14755 Grover Street
Omaha, NE 68144
(402) 884-6202

SIGNATURE PAGE

This Construction Observation Report, dated January 30, 2026, for the 2025 Gas Collection and Control System Expansion at the Loess Hills Regional Sanitary Landfill and as outlined in the following Table of Contents, was prepared and reviewed by the following:



Ben Graham, EI
Staff Professional
SCS Engineers



Zachary Mahon, PE*
Project Manager
SCS Engineers
Licensed in AK, NE, SD

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1.0 INTRODUCTION

SCS Engineers (SCS) was retained by Iowa Waste Services, LLC. to provide Construction Quality Assurance (CQA) services during the construction of the 2025 Gas Collection and Control System (GCCS) at the Loess Hills Regional Landfill (Loess Hills) located at 59722 290th St, Malvern, Iowa 51551. The project included the following components:

- Boring and installing 34 vertical landfill gas (LFG) extraction wells
- Installing and connecting approximately 8,050 feet of LFG system collection piping;
- Installing and connecting air conveyance piping;
- Installing and connecting liquid conveyance piping; and
- Abandoning deficient LFG extraction wells and collection piping.

2.0 PROJECT DESCRIPTION

SCS was responsible for observing construction activities and observing that the material placement and construction procedures were completed in general accordance with the following:

- Iowa Administrative Code (IAC) 567 Chapter 113;
- Current site permit and relative amendments;
- Construction drawings titled “2025 GCCS Expansion” dated October 10, 2025 by SCS Engineers (Construction Drawings).

2.1 PROJECT ORGANIZATION

The contacts for the project are provided below.

Owner

Iowa Waste Services, LLC.
59722 290th St
Malvern, Iowa 51551
Chaz Roberts, District Manager
Ryan Mitchell, Site Superintendent
Rachel Hanigan, Region Engineer

Contractor

Joe Coleman & Son Environmental Services
5 North State Street
Pana, IL 62557
Nick Dalton, Project Superintendent

Design Engineer

SCS Engineers (SCS)
14755 Grover Street
Omaha, Nebraska 68144
Ben Graham, EI, Designer
Zach Mahon, PE, Project Manager
Eric Sonsthagen, PE, Certifying Engineer

Surveyor

Thompson, Dreessen & Dorner (TD2)
10836 Old Mill Road
Omaha, Nebraska 68154

Construction Quality Assurance Engineer

SCS Engineers (SCS)
14755 Grover Street
Omaha, Nebraska 68144
Josh Olson, Resident Project Representative
Jenna Miller, Resident Project Representative
Ben Graham, EI, Resident Project Representative
Zachary Mahon, PE, Project Manager

3.0 GCCS INSTALLATION AND CQA

This section describes the CQA activities associated with the installation of the 2025 Gas Collection and Control System (Project). Installation of the LFG extraction wells and piping began on October 14, 2025, and was substantially completed on December 20, 2025. The Photographic Log and Daily Field Reports are included in Appendix A1 and A2, respectively. Thompson, Dreeson, and Dorner, Inc. (TD2) completed the as-constructed survey and provided point files to SCS. SCS prepared an as-constructed record drawing from the survey data, which is included in Appendix B1.

3.1 CQA PROGRAM

The CQA program for the construction of the LFG system expansion consisted of documentation and observation of the installation of vertical LFG extraction wells and associated landfill gas collection piping and components. The requirements for installation and construction were outlined in the documents listed in Section 2.0.

3.2 SUMMARY OF VERTICAL LFG EXTRACTION WELL INSTALLATION AND ABANDONMENT

The CQA activities during LFG extraction well installation included observing and documenting the installation of 34 vertical LFG extraction wells by the Contractor. The resident project representative documented the placement of the LFG extraction well components and backfill materials. Borings logs detailing waste composition and temperatures observed during LFG extraction well installation are provided in Appendix B2. SCS also observed the abandonment of 39 vertical LFG extraction wells and 7 horizontal LFG collection wells.

SCS completed CQA on a full-time basis during the installation of LFG extraction wells.

3.3 SUMMARY OF LFG COLLECTION PIPING INSTALLATION

The CQA activities during LFG piping installation included observing and documenting the following:

- Trenching for the installation of piping;
- Installation of 12-inch (~2,850 ft) SDR-17 HDPE LFG piping;
- Installation of 8-inch (~1,100 ft) SDR-17 HDPE LFG piping;
- Installation of 6-inch (~4,100 ft) SDR-17 HDPE LFG piping;
- Installation of 3-inch (~7,900 ft) SDR-11 HDPE liquid conveyance piping;
- Installation of 2-inch (~7,900 ft) SDR-9 HDPE air conveyance piping; and
- Air pressure testing of the installed piping

The LFG collection piping installation performed by the Contractor was comprised of two 12-inch HDPE subheaders on the north slope of the landfill, a 12-inch subheader on the east slope, and a 12-inch subheader extending from the east side to the west side of the landfill. Isolation valves were installed where the subheaders join the perimeter header to allow for each subheader to be isolated from the GCCS for maintenance or future expansion. The Contractor also installed several 6-inch and 8-inch lateral LFG collection lines that branch from the subheaders to the vertical LFG extraction wells. Air supply and liquid conveyance lines were added along the same pipe alignments as the subheaders and lateral lines to allow for pumping of liquids from the

extraction wells. The air supply and liquid conveyance lines were installed with valves where they connect to the existing air and liquid conveyance systems to allow for system isolation. Cleanouts were installed periodically along the liquid conveyance lines to allow jetting to be performed as part of regular system maintenance. SCS observed the Contractor perform air pressure testing on installed air conveyance, liquid conveyance, and LFG piping. Air pressure test results show that tested piping met the requirements in the applicable Construction Drawings. Copies of air pressure tests are included in Appendix C1.

SCS completed CQA on a full-time basis during the installation of the landfill gas collection piping.

Appendix A

Construction Documentation

A1 Photographic Log

Photo #1

Electronic File Name: 20251014_080557

Date: 10/14/2025

Description: Soilmec SR-30 boring gas extraction well (typical).



Photo # 2

Electronic File Name: IMG_9161

Date: 10/15/2025

Description: Excavator used to remove waste from boring area (typical).



Photo # 3

Electronic File Name: IMG_9204

Date: 10/18/2025

Description: Waste from boring operations (typical).



Photo #4

Electronic File Name:
20251107_170607608_iOS

Date: 11/7/2025

Description: Partially assembled well case staged near boring location (typical).



Photo # 5

Electronic File Name: IMG_9185

Date: 10/16/2025

Description: Soilmec SR-30 used to lower well case into borehole (typical).



Photo # 6

Electronic File Name: IMG_9247

Date: 10/21/2025

Description: Excavator used to lower aggregate into borehole to reduce aggregate bridging (typical).



Photo #7

Electronic File Name: IMG_9261

Date: 10/21/2025

Description: Bentonite hydrated and mixed in excavator bucket prior to placement in borehole (typical).



Photo # 8

Electronic File Name: IMG_9181

Date: 10/16/2025

Description: Completed gas extraction well installation (typical).



Photo # 9

Electronic File Name: IMG_9279

Date: 10/22/2025

Description: Trench for LFG collection, air supply, and liquid conveyance pipe. Material unsuitable to be used as fill hauled to disposal area. (typical).



Photo #10

Electronic File Name: 20251113_145511

Date: 11/13/2025

Description: LFG collection, air supply, and liquid conveyance pipes in trench (typical).



Photo # 11

Electronic File Name:
20251107_181621620_iOS

Date: 11/7/2025

Description: Tee connections to LFG collection, air supply, and liquid conveyance pipe to lateral pipes and risers at gas extraction well (typical).



Photo # 12

Electronic File Name: IMG_2403

Date: 12/7/2025

Description: CMP placed around HDPE in trench for road crossing (typical).



Photo #13

Electronic File Name: 20251110_165252

Date: 11/10/2025

Description: Where needed, pieces of CMP connected using steel band prior to placement (typical).



Photo # 14

Electronic File Name: 20251110_174911

Date: 11/10/2025

Description: Course aggregate placed over CMP (typical).



Photo # 15

Electronic File Name: 20251111_071925

Date: 11/11/2025

Description: Roadway at road crossing restored. Concrete blocks placed at each end of buried CMP (typical).



Photo #16

Electronic File Name: IMG_0031

Date: 12/20/2025

Description: LFG collection, air supply, and liquid conveyance valves for new infrastructure connected to existing systems (typical).



Photo # 17

Electronic File Name: IMG_9316

Date: 10/24/2025

Description: Liquid conveyance cleanout fused to liquid conveyance pipe (typical).



Photo # 18

Electronic File Name: IMG_2539

Date: 12/19/2025

Description: Liquid conveyance ball valve, pressure gauge, and camlock fittings assembled for cleanout (typical).



Photo #19

Electronic File Name: IMG_2529

Date: 12/19/2025

Description: Ends of liquid conveyance cleanouts secured to tee posts (typical).



Photo # 20

Electronic File Name:
20251123_210115210_iOS

Date: 11/23/2025

Description: LFG collection, air supply, and liquid conveyance risers at gas extraction well (typical).



Photo # 21

Electronic File Name: 20251125_150503

Date: 11/25/2025

Description: Existing subheader abandonment and new subheader connection at POI N.



Photo #22

Electronic File Name: IMG_2529

Date: 12/19/2025

Description: Existing subheader abandonment and new subheader connection with valve at POI L.



Photo # 23

Electronic File Name: IMG_2426

Date: 12/10/2025

Description: Existing header abandonment and air supply and liquid conveyance connection to existing system at POI P.



Photo # 24

Electronic File Name: 20251125_150503

Date: 1/9/2026

Description: Existing air supply and liquid conveyance lines at POI P later disconnected from new lines by Iowa Waste Services due to suspected air leak in existing system.



A2 Daily Field Activities Reports

DAILY FIELD ACTIVITIES REPORT					
Client Name: Iowa Waste Services, LLC.			Date: Tuesday, October 14, 2025		
SCS Project Name: Loess Hills Landfill 2025 GCCS Expan			Start Time: 7:00 AM		
SCS Project No.: 27225516.00			Stop Time: 2:45 PM		
Project Location: Loess Hills Regional Sanitary Landfill			Task: Gas well installation		
Work Area or Boundaries:					
WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:	WIND SPEED AND DIRECTION:	WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)	SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.)
	68 F 55 F	9 mph E	Overcast	Occasional light drizzle	Mostly Dry
CONTRACTORS AND PERSONNEL:		COMPANY:	EQUIPMENT ONSITE (USED OR UNUSED):		
Nick Dalton, 6 workers		Joe Coleman & Son	Soilmec SR-30 Drill Rig		
Charles, Driller		Joe Coleman & Son	CAT 326 Excavator		
			CAT 725 Haul Truck		
			Gator UTV		
			Bobcat UTV		
TESTS COMPLETED/OBSERVED					
Document all tests in separate spreadsheet or below					
TIME:	ACTIVITIES AND OBSERVATIONS:				
7:00	SCS (J. Olson) on site, meet with Ben Graham (SCS), discuss project safety.				
8:00	Confirm plans with driller at GEW-57R, begin borehole.				
10:30	GEW-57R borehole complete (126ft), begin well construction.				
11:30	Confirm GEW-62R borehole depth and begin drilling.				
12:00	GEW-57R installed and borehole backfilled.				
13:30	GEW-62R borehole complete (89ft), begin well construction.				
14:30	GEW-62R installed and borehole backfilled.				
14:45	Confirm with crew that work is done for the day, SCS off site.				
QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:				
213'	PVC well case				
OBSERVER: Josh Olson			SCS ENGINEERS		

DAILY FIELD ACTIVITIES REPORT

Client Name:	Iowa Waste Services, LLC.
SCS Project Name:	Loess Hills Landfill 2025 GCCS Expan
SCS Project No.:	27225516.00
Project Location:	Loess Hills Regional Sanitary Landfill

Date:	Wednesday, October 15, 2025
Start Time:	7:30 AM
Stop Time:	2:30 PM
Task:	Gas well installation

Work Area or Boundaries:

WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)	SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.)
	80 F	64 F	8 mph	S	Partially Cloudy	None	Mostly Dry

CONTRACTORS AND PERSONNEL:	COMPANY:	EQUIPMENT ONSITE (USED OR UNUSED):	
Nick Dalton, 6 workers	Joe Coleman & Son	Soilme SR-30 Drill Rig	
Charles, Driller	Joe Coleman & Son	CAT 326 Excavator	
		CAT 725 Haul Truck	
		Gator UTV	
		Bobcat UTV	

TESTS COMPLETED/OBSERVED

Document all tests in separate spreadsheet or below

[illegible]

QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:
214'	PVC well case

OBSERVER: Josh Olson

SCS ENGINEERS

DAILY FIELD ACTIVITIES REPORT						
Client Name: Iowa Waste Services, LLC. SCS Project Name: Loess Hills Landfill 2025 GCCS Expan SCS Project No.: 27225516.00 Project Location: Loess Hills Regional Sanitary Landfill			Date: Thursday, October 16, 2025 Start Time: 7:30 AM Stop Time: 6:00 PM Task: Gas well installation Work Area or Boundaries:			
WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)
	80 F	65 F	17 mph	SSE	Sunny	None
CONTRACTORS AND PERSONNEL:		COMPANY:		EQUIPMENT ONSITE (USED OR UNUSED):		
Nick Dalton, 6 workers		Joe Coleman & Son		Soilmec SR-30 Drill Rig		
Charles, Driller		Joe Coleman & Son		CAT 326 Excavator		
				CAT 725 Haul Truck		
				Gator UTV		
				Bobcat UTV		
TESTS COMPLETED/OBSERVED *Document all tests in separate spreadsheet or below*						
TIME:	ACTIVITIES AND OBSERVATIONS:					
7:30	SCS (J. Olson) on site.					
7:40	Meet at GEW-65R, confirm borehole depth, and begin drilling.					
10:20	GEW-65R borehole complete (120ft), begin well installation.					
10:55	Meet at GEW-71R, confirm borehole depth, and begin drilling.					
11:30	GEW-65R installed and borehole backfilled.					
12:35	GEW-71R borehole complete (90ft), begin well installation.					
13:45	Meet at GEW-64R2, confirm borehole depth, and start drilling.					
14:00	GEW-71R installed and borehole backfilled.					
17:05	GEW-64R2 borehole complete (131ft), begin well installation.					
18:00	GEW-64R2 installed and hole backfilled. SCS off site.					
QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:					
338'	PVC well case					
OBSERVER: Josh Olson				SCS ENGINEERS		

DAILY FIELD ACTIVITIES REPORT						
Client Name: Iowa Waste Services, LLC. SCS Project Name: Loess Hills Landfill 2025 GCCS Expan SCS Project No.: 27225516.00 Project Location: Loess Hills Regional Sanitary Landfill			Date: Friday, October 17, 2025 Start Time: 7:30 AM Stop Time: 12:50 PM Task: Gas well installation Work Area or Boundaries:			
WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)
	75 F	64 F	15 mph	SW	Cloudy	PM Rain
CONTRACTORS AND PERSONNEL:		COMPANY:		EQUIPMENT ONSITE (USED OR UNUSED):		
Nick Dalton, 6 workers		Joe Coleman & Son		Soilmec SR-30 Drill Rig		
Charles, Driller		Joe Coleman & Son		CAT 326 Excavator		
				CAT 725 Haul Truck		
				Gator UTV		
				Bobcat UTV		
TESTS COMPLETED/OBSERVED *Document all tests in separate spreadsheet or below*						
TIME:	ACTIVITIES AND OBSERVATIONS:					
7:30	SCS (J. Olson) on site.					
7:40	Meet at GEW-88, confirm borehole depth, and begin drilling.					
10:53	GEW-88 borehole complete (intended 128ft, finished at 121ft due to inability to drill through hard material), begin well installation.					
11:20	Meet at GEW-56R, confirm borehole depth, and begin drilling.					
12:00	GEW-88 installed and borehole backfilled.					
12:10	Pause GEW-56R borehole drilling to wait for rain and lightning to pass (56ft drilled).					
12:40	More rain and lightning expected, GEW-56R borehole covered with grate and tarp and surrounded by cones.					
12:50	SCS off site.					
QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:					
120'	PVC well case					
OBSERVER: Josh Olson				SCS ENGINEERS		

DAILY FIELD ACTIVITIES REPORT

Client Name:	Iowa Waste Services, LLC.
SCS Project Name:	Loess Hills Landfill 2025 GCCS Expan
SCS Project No.:	27225516.00
Project Location:	Loess Hills Regional Sanitary Landfill

Date:	Saturday, October 18, 2025
Start Time:	7:10 AM
Stop Time:	2:10 PM
Task:	Gas well installation

Work Area or Boundaries:

WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)	SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.)
	69 F	51 F	7 mph	NW	Partially Cloudy-Sunny	None	Slightly Wet-Dry

CONTRACTORS AND PERSONNEL:	COMPANY:	EQUIPMENT ONSITE (USED OR UNUSED):	
Nick Dalton, 6 workers	Joe Coleman & Son	Soilmec SR-30 Drill Rig	
Charles, Driller	Joe Coleman & Son	CAT 326 Excavator	
		CAT 725 Haul Truck	
		Gator UTV	
		Bobcat UTV	

TESTS COMPLETED/OBSERVED

Document all tests in separate spreadsheet or below

[illegible]

QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:
258'	PVC well case

OBSERVER: Josh Olson

SCS ENGINEERS

DAILY FIELD ACTIVITIES REPORT						
Client Name: Iowa Waste Services, LLC. SCS Project Name: Loess Hills Landfill 2025 GCCS Expan SCS Project No.: 27225516.00 Project Location: Loess Hills Regional Sanitary Landfill			Date: Monday, October 20, 2025 Start Time: 7:05 AM Stop Time: 4:00 PM Task: Gas well installation Work Area or Boundaries:			
WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)
	65 F	50 F	13 mph	W	Sunny	None
CONTRACTORS AND PERSONNEL:		COMPANY:		EQUIPMENT ONSITE (USED OR UNUSED):		
Anthony Lawless, 6 workers		Joe Coleman & Son		Soilmec SR-30 Drill Rig		
Charles, Driller		Joe Coleman & Son		CAT 326 Excavator		
				CAT 725 Haul Truck		
				Gator UTV		
				Bobcat UTV		
				McElroy TracStar Series 2		
TESTS COMPLETED/OBSERVED *Document all tests in separate spreadsheet or below*						
TIME:	ACTIVITIES AND OBSERVATIONS:					
7:05	SCS (J. Olson) on site.					
7:30	Meet at GEW-92, confirm borehole depth, and begin drilling.					
10:00	GEW-92 borehole complete (109ft), begin well installation.					
10:35	Meet at GEW-90, confirm borehole depth, and begin drilling.					
11:00	GEW-92 installed and borehole backfilled.					
13:00	GEW-90 borehole complete (108ft), begin well installation.					
13:50	Meet at GEW-91, confirm borehole depth, and begin drilling.					
14:15	GEW-90 installed and borehole backfilled.					
15:00	GEW-91 borehole complete (77ft), begin well installation.					
16:00	GEW-91 installed and borehole backfilled. SCS off site.					
QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:					
291'	PVC well case					
OBSERVER: Josh Olson						

DAILY FIELD ACTIVITIES REPORT						
Client Name: Iowa Waste Services, LLC. SCS Project Name: Loess Hills Landfill 2025 GCCS Expan SCS Project No.: 27225516.00 Project Location: Loess Hills Regional Sanitary Landfill			Date: Tuesday, October 21, 2025 Start Time: 7:05 AM Stop Time: 3:15 PM Task: Gas well installation Work Area or Boundaries:			
WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:	WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)	SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.)
	56 F	44 F	20 mph WNW	Sunny	None	Dry
CONTRACTORS AND PERSONNEL:		COMPANY:		EQUIPMENT ONSITE (USED OR UNUSED):		
Anthony Lawless, 6 workers		Joe Coleman & Son		Soilmec SR-30 Drill Rig		
Charles, Driller		Joe Coleman & Son		CAT 326 Excavator		
				CAT 725 Haul Truck		
				Gator UTV		
				Bobcat UTV		
				McElroy TracStar Series 2		
TESTS COMPLETED/OBSERVED *Document all tests in separate spreadsheet or below*						
TIME:	ACTIVITIES AND OBSERVATIONS:					
7:05	SCS (J. Olson) on site.					
7:40	Meet at GEW-67R, confirm borehole depth, and begin drilling.					
9:05	GEW-67R borehole complete (68ft), begin well installation.					
10:00	Meet at GEW-83, confirm borehole depth, and begin drilling.					
10:15	GEW-67R installed and borehole backfilled.					
12:25	GEW-83 borehole complete (109ft), begin well installation.					
13:35	GEW-83 installed and borehole backfilled.					
14:30	Labeled all installed wells, Coleman continues preparation for pipe work tomorrow.					
15:15	SCS off site.					
QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:					
175'	PVC well case					
OBSERVER: Josh Olson				SCS ENGINEERS		

DAILY FIELD ACTIVITIES REPORT

Client Name:	Iowa Waste Services, LLC.
SCS Project Name:	Loess Hills Landfill 2025 GCCS Expan
SCS Project No.:	27225516.00
Project Location:	Loess Hills Regional Sanitary Landfill

Date:	Wednesday, October 22, 2025
Start Time:	7:15 AM
Stop Time:	4:00 PM
Task:	Collection pipe installation
Work Area or Boundaries:	

WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)	SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.)
	62 F	36 F	8 mph	NNW	Sunny	None	Dry

CONTRACTORS AND PERSONNEL:	COMPANY:	EQUIPMENT ONSITE (USED OR UNUSED):	
Anthony Lawless, 6 workers	Joe Coleman & Son	Soilmec SR-30 Drill Rig	
		CAT 326 Excavator	
		CAT 725 Haul Truck	
		Gator UTV	
		Bobcat UTV	
		McElroy TracStar Series 2	

TESTS COMPLETED/OBSERVED

Document all tests in separate spreadsheet or below

Air Pressure Test for Pipe

[illegible]

QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:
120'	12" pipe installed with 6" lateral

OBSERVER: Josh Olson

SCS ENGINEERS

DAILY FIELD ACTIVITIES REPORT						
Client Name: Iowa Waste Services, LLC. SCS Project Name: Loess Hills Landfill 2025 GCCS Expan SCS Project No.: 27225516.00 Project Location: Loess Hills Regional Sanitary Landfill			Date: Thursday, October 23, 2025 Start Time: 7:15 AM Stop Time: 3:30 PM Task: Collection pipe installation Work Area or Boundaries:			
WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP: 64 F 37 F	WIND SPEED AND DIRECTION: 2 mph WSW	WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.) Sunny	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.) None	SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.) Dry	
CONTRACTORS AND PERSONNEL:		COMPANY:		EQUIPMENT ONSITE (USED OR UNUSED):		
Anthony Lawless, 6 workers		Joe Coleman & Son		Soilmec SR-30 Drill Rig		
				CAT 326 Excavator		
				CAT 725 Haul Truck		
				Gator UTV		
				Bobcat UTV		
				McElroy TracStar Series 2		
TESTS COMPLETED/OBSERVED						
Document all tests in separate spreadsheet or below						
TIME:	ACTIVITIES AND OBSERVATIONS:					
7:15	SCS (J. Olson) on site.					
8:00	Coleman continues work in the N-Q section.					
9:40	Tee connection welded onto existing header, begin fusing installed pipe to system.					
10:40	Installed pipe fused to system.					
11:00	Coleman heads to POI S, begins capping and abandoning existing header.					
12:00	Existing header capped and abandoned.					
13:00	Coleman backfills POI S and grades backfill at POS Q.					
13:50	POI S backfilled.					
14:15	Coleman adds more soil to N-Q section.					
15:30	SCS off site.					
QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:					
120'	12" pipe with 6" lateral tied in					
OBSERVER: Josh Olson				SCS ENGINEERS		

DAILY FIELD ACTIVITIES REPORT

Client Name:	Iowa Waste Services, LLC.
SCS Project Name:	Loess Hills Landfill 2025 GCCS Expar
SCS Project No.:	27225516.00
Project Location:	Loess Hills Regional Sanitary Landfill

Date: Friday, October 24, 2025

Start Time: 7:05 AM

Stop Time: 4:15 PM

Task: Collection pipe installation

Work Area or Boundaries:

WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)	SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.)
	61 F	43 F	14 mph	SE	Cloudy	None	Dry

CONTRACTORS AND PERSONNEL:	COMPANY:	EQUIPMENT ONSITE (USED OR UNUSED):	
Anthony Lawless, 6 workers	Joe Coleman & Son	Soilmec SR-30 Drill Rig	
		CAT 326 Excavator	
		CAT 725 Haul Truck	
		Gator UTV	
		Bobcat UTV	
		McElroy TracStar Series 2	

TESTS COMPLETED/OBSERVED

Document all tests in separate spreadsheet or below

[illegible]

QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:
360'	Pipe installed (280' of 12", 80' of 6", 360' of 3", and 360' of 2")
1	12"-6" Reducer
1	12" Tee
1	Leachate Forcemain Double Cleanout

OBSERVER: Josh Olson

SCS ENGINEERS

DAILY FIELD ACTIVITIES REPORT						
Client Name: Iowa Waste Services, LLC. SCS Project Name: Loess Hills Landfill 2025 GCCS Expan SCS Project No.: 27225516.00 Project Location: Loess Hills Regional Sanitary Landfill			Date: Saturday, October 25, 2025 Start Time: 7:15 AM Stop Time: 2:15 PM Task: Collection pipe installation Work Area or Boundaries:			
WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:	WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)	SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.)
	61 F 51 F	9 mph	SE	Cloudy	None	Dry
CONTRACTORS AND PERSONNEL:		COMPANY:		EQUIPMENT ONSITE (USED OR UNUSED):		
Anthony Lawless, 8 workers		Joe Coleman & Son		Soilmec SR-30 Drill Rig		
				CAT 326 Excavator		
				CAT 725 Haul Truck		
				Gator UTV		
				Bobcat UTV		
				McElroy TracStar Series 2		
TESTS COMPLETED/OBSERVED *Document all tests in separate spreadsheet or below*						
TIME:	ACTIVITIES AND OBSERVATIONS:					
7:15	SCS (J. Olson) on site. Coleman begins excavating trench from GEW-91 -> GEW-90 -> GEW-89.					
10:55	Coleman places 6" LFG pipe and air/liquid conveyance pipes (2" and 3") in trench up to GEW-90. Coleman also fuses newly laid pipes to pipe installed yesterday and installs 2", 3", and 6" T risers (at GEW-91).					
11:50	Coleman places 6" LFG pipe and air/liquid conveyance pipes (2" and 3") in trench from GEW-90 to GEW-89 (trench to GEW-89 not yet completed).					
12:40	Coleman installs second set of 2", 3", and 6" T risers (at GEW-90).					
13:30	Coleman backfills trench.					
14:15	SCS off site.					
QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:					
400'	6" pipe, 3" pipe, 2" pipe					
2	6" T risers					
2	3" T risers					
2	2" T risers					
OBSERVER: Josh Olson SCS ENGINEERS						

DAILY FIELD ACTIVITIES REPORT						
Client Name: Iowa Waste Services, LLC. SCS Project Name: Loess Hills Landfill 2025 GCCS Expan SCS Project No.: 27225516.00 Project Location: Loess Hills Regional Sanitary Landfill			Date: Monday, October 27, 2025 Start Time: 7:05 AM Stop Time: 6:00 PM Task: Collection pipe installation Work Area or Boundaries:			
WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)
	58 F	51 F	8 mph	SE	Cloudy	Light Rain around 12:00
CONTRACTORS AND PERSONNEL:		COMPANY:		EQUIPMENT ONSITE (USED OR UNUSED):		
Anthony Lawless, 8 workers		Joe Coleman & Son		Soilmec SR-30 Drill Rig		
				CAT 326 Excavator		
				CAT 725 Haul Truck		
				Gator UTV		
				Bobcat UTV		
				McElroy TracStar Series 2		
TESTS COMPLETED/OBSERVED *Document all tests in separate spreadsheet or below*						
TIME:	ACTIVITIES AND OBSERVATIONS:					
7:05	SCS (J. Olson) on site.					
7:40	Coleman begins trench from POI C to POI D.					
8:30	Capped off installed lines at GEW-92 and those extending toward GEW-89.					
11:30	Coleman goes to lunch.					
12:15	Coleman returns from lunch, caps 12" pipe at POI C. Continues excavation around POI D.					
14:00	Coleman begins installing isolation valves at POI D and tying into existing line.					
16:30	Coleman trenches away from POI D with conveyance pipe to connect to earlier excavated area.					
18:00	Trench backfilled. SCS off site.					
QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:					
300'	2" pipe, 3" pipe					
1	Forcemain Cleanout Riser					
1	Air Blow Off Valve					
1	Forcemain Valve tied into existing line					
OBSERVER: Josh Olson				SCS ENGINEERS		

DAILY FIELD ACTIVITIES REPORT

Client Name:	Iowa Waste Services, LLC.
SCS Project Name:	Loess Hills Landfill 2025 GCCS Expan
SCS Project No.:	27225516.00
Project Location:	Loess Hills Regional Sanitary Landfill

Date:	Tuesday, October 28, 2025
Start Time:	7:30 AM
Stop Time:	11:00 AM
Task:	Pressure test for pipe
Work Area or Boundaries:	

WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)	SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.)
	59 F	50 F	7 mph	ESE	Cloudy	Light Rain	Slightly muddy

CONTRACTORS AND PERSONNEL:	COMPANY:	EQUIPMENT ONSITE (USED OR UNUSED):	
Anthony Lawless, 8 workers	Joe Coleman & Son	Soilmec SR-30 Drill Rig	
		CAT 326 Excavator	
		CAT 725 Haul Truck	
		Gator UTV	
		Bobcat UTV	
		McElroy TracStar Series 2	

TESTS COMPLETED/OBSERVED

Document all tests in separate spreadsheet or below

Air Pressure Test for Pipe

[illegible]

QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:

OBSERVER: Josh Olson

SCS ENGINEERS

DAILY FIELD ACTIVITIES REPORT						
Client Name: Iowa Waste Services, LLC.			Date: Friday, October 31, 2025			
SCS Project Name: Loess Hills Landfill 2025 GCCS Expan			Start Time: 7:30 AM			
SCS Project No.: 27225516.00			Stop Time: 14:30 PM			
Project Location: Loess Hills Regional Sanitary Landfill			Task: Collection pipe installation			
			Work Area or Boundaries: POI A & C			
WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)
	50 F	36 F	5 mph	NW	Sunny	None
			SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.)			
		muddy				
CONTRACTORS AND PERSONNEL:		COMPANY:		EQUIPMENT ONSITE (USED OR UNUSED):		
Nick Dalton, 8 workers		Joe Coleman & Son		Soilmec SR-30 Drill Rig		
				CAT 326 Excavator		
				CAT 725 Haul Truck		
				Gator UTV		
				Bobcat UTV		
				McElroy TracStar Series 2		
TESTS COMPLETED/OBSERVED						
Document all tests in separate spreadsheet or below						
TIME:	ACTIVITIES AND OBSERVATIONS:					
8:30	SCS (J. Miller) on site. Trench dug from CEW-5 to GEW-91.					
9:00	At POI C, 12" header tie into existing 12" header. Install Leachate Forcemain Double Cleanout.					
11:15	Leachate Forcemain Double Cleanout installation at POI A. Insert risers at GEW-92.					
13:00	Backfill some of trench.					
13:15	Cap and abandon existing lateral at POI C.					
14:20	Maintenance / upkeep of Coleman equipment.					
14:30	SCS off site.					
QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:					
2	Leachate Forcemain Double Cleanout					
3	Risers					
OBSERVER: Jenna Miller				SCS ENGINEERS		

DAILY FIELD ACTIVITIES REPORT						
Client Name: Iowa Waste Services, LLC.			Date: Monday, November 3, 2025			
SCS Project Name: Loess Hills Landfill 2025 GCCS Expan			Start Time: 7:15 AM			
SCS Project No.: 27225516.00			Stop Time: 3:00 PM			
Project Location: Loess Hills Regional Sanitary Landfill			Task: Trenching & laying pipe			
			Work Area or Boundaries: POI E to just South of GEW-71R			
WEATHER INFORMATION:	MAX/MIN TEMP:	WIND SPEED AND DIRECTION:	WEATHER CONDITIONS:	PRECIPITATION:	SOIL CONDITIONS:	
Update information if it significantly changes	61 F 38 F	4 mph NW	Sunny	None	Slightly muddy	
CONTRACTORS AND PERSONNEL:		COMPANY:	EQUIPMENT ONSITE (USED OR UNUSED):			
Nick Dalton, 8 workers		Joe Coleman & Son	Soilmec SR-30 Drill Rig		Unused	
			CAT 326 Excavator			
			CAT 725 Haul Truck			
			Gator UTV			
			Bobcat UTV			
			McElroy TracStar Series 2			
TESTS COMPLETED/OBSERVED						
Document all tests in separate spreadsheet or below						
TIME:	ACTIVITIES AND OBSERVATIONS:					
7:15	SCS (J. Miller) on site. JCS crew already onsite.					
7:45	Digging at POI E. Tie-in point not found. Additional work must be done to properly connect pipe.					
9:30	Trenching south for pipe installation.					
13:15	Trench extends and connects up to GEW-71R. 12-in piped laid in trench and "T" installed near GEW-74					
13:45	Pipe getting welded with "T" piece					
14:00	At trench connection point with GEW-71R, pipe getting welded with "T" piece.					
14:30	Air and liquid conveyance pipes being laid.					
15:00	Attach riser at GEW-74. SCS off site.					
QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:					
100'	12" pipe (POI E & south)					
35'	6" pipe (to GEW-71R)					
OBSERVER: Jenna Miller			SCS ENGINEERS			

DAILY FIELD ACTIVITIES REPORT						
Client Name: Iowa Waste Services, LLC. SCS Project Name: Loess Hills Landfill 2025 GCCS Expan SCS Project No.: 27225516.00 Project Location: Loess Hills Regional Sanitary Landfill			Date: Tuesday, November 4, 2025 Start Time: 7:10 AM Stop Time: 4:15 PM Task: Well and collection pipe install Work Area or Boundaries:			
WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)
	67 F	43 F	9 mph	SE	Sunny	None
CONTRACTORS AND PERSONNEL:		COMPANY:		EQUIPMENT ONSITE (USED OR UNUSED):		
Nick Dalton, 8 workers		Joe Coleman & Son		Soilmec SR-30 Drill Rig		
Charles, driller				CAT 326 Excavator		
				CAT 725 Haul Truck		
				Gator UTV		
				Bobcat UTV		
				McElroy TracStar Series 2		
TESTS COMPLETED/OBSERVED *Document all tests in separate spreadsheet or below*						
TIME:	ACTIVITIES AND OBSERVATIONS:					
7:10	SCS (J. Miller) on site. JCS observed to be getting equipment ready.					
8:30	Confirm details and begin drilling at GEW-46R.					
12:15	Drilling complete 5' short of 137' expected depth due to obstruction. Well construction began.					
13:30	Continued trenching and pipe installation. GEW-66R lateral trench made & trench to 6" pipe and air/liquid conveyance pipes at GEW-66R.					
15:30	3 risers attached at GEW-66R					
15:45	12" header tie in complete at GEW-66R.					
16:00	SCS off site.					
QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:					
200'	12" pipe (POI E & south)					
131'	PVC well case					
60'	6" pipe (to GEW-66R)					
OBSERVER: Jenna Miller				SCS ENGINEERS		

DAILY FIELD ACTIVITIES REPORT						
Client Name: Iowa Waste Services, LLC. SCS Project Name: Loess Hills Landfill 2025 GCCS Expan SCS Project No.: 27225516.00 Project Location: Loess Hills Regional Sanitary Landfill			Date: Wednesday, November 5, 2025 Start Time: 7:10 AM Stop Time: 5:45 PM Task: Well drilling & laying pipe Work Area or Boundaries: GEW 46R, 48R & south of POI E			
WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)
	58 F	39 F	14 mph	N	Sunny	None
CONTRACTORS AND PERSONNEL:		COMPANY:		EQUIPMENT ONSITE (USED OR UNUSED):		
Nick Dalton, 8 workers		Joe Coleman & Son		Soilmec SR-30 Drill Rig		
Charles, driller				CAT 326 Excavator		
				CAT 725 Haul Truck		
				Gator UTV		
				Bobcat UTV		
				McElroy TracStar Series 2		
TESTS COMPLETED/OBSERVED						
Document all tests in separate spreadsheet or below						
TIME:	ACTIVITIES AND OBSERVATIONS:					
7:10	SCS (J. Miller) on site. JCS getting ready for the day.					
7:15	Confirm details and begin drilling at GEW-45R.					
10:30	Drilling complete. Bore hole depth stopped at 123' due to soil encountered at bottom of boring. Well installation begins, with revised perforated pipe length.					
11:00	Confirm details and begin drilling at GEW-48R.					
12:30	GEW-45R complete.					
15:20	Drilled to depth at GEW-48R. Well installation starts.					
16:00	GEW-66R lateral with 6" pipe attached to header with risers & air/liquid conveyance pipes GEW-63R 8"					
16:30	Well at GEW-48R installed.					
17:45	GEW-64R2 6" pipe laid. GEW-65R 6" pipe laid and nearing GEW-88. SCS off site.					
QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:					
267'	PVC well case					
245'	8" pipe					
409'	6" pipe					
OBSERVER: Jenna Miller				SCS ENGINEERS		

DAILY FIELD ACTIVITIES REPORT						
Client Name: Iowa Waste Services, LLC.			Date: Thursday, November 6, 2025			
SCS Project Name: Loess Hills Landfill 2025 GCCS Expan			Start Time: 7:05 AM			
SCS Project No.: 27225516.00			Stop Time: 4:50 PM			
Project Location: Loess Hills Regional Sanitary Landfill			Task: Drilling, laying pipe, pressure test			
			Work Area or Boundaries: GEW42R, south of E			
WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)
	61 F	38 F	13 mph	SE	Cloudy	None
SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.)		Dry				
CONTRACTORS AND PERSONNEL:		COMPANY:		EQUIPMENT ONSITE (USED OR UNUSED):		
Nick Dalton, 8 workers		Joe Coleman & Son		Soilmec SR-30 Drill Rig		
Charles, driller				CAT 326 Excavator		
				CAT 725 Haul Truck		
				Gator UTV		
				Bobcat UTV		
				McElroy TracStar Series 2		
TESTS COMPLETED/OBSERVED						
Document all tests in separate spreadsheet or below						
Air pressure tests 5,6,7						
TIME:	ACTIVITIES AND OBSERVATIONS:					
7:05	SCS (J. Miller) on site. JCS getting ready to drill. JCS having equipment issues and performing maintenance.					
8:30	GEW-64R2 conveyance pipes and risers installed. Same for GEW-65R.					
9:00	GEW-88 6" pipe, conveyance pipes, and risers installed. GEW-63R conveyance pipe and risers installed.					
9:30	Confirm details and begin drilling at GEW-42R.					
13:40	GEW-63R to GEW-57R 8" pipe laid with extra air/liquid conveyance pipe (not in the plan). Pressure test 5 starts.					
14:00	Pressure test 6 starts.					
14:30	GEW-42R drilled to depth. Well installation begins.					
15:49	Pressure test 7 starts. GEW-42R finished with well installation.					
16:49	Pressure tests 5, 6, and 7 pass. SCS off site					
QUANTITIES:		DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:				
147'		6" pipe				
OBSERVER: Jenna Miller						
						SCS ENGINEERS

DAILY FIELD ACTIVITIES REPORT						
Client Name: Iowa Waste Services, LLC.			Date: Monday, November 10, 2025			
SCS Project Name: Loess Hills Landfill 2025 GCCS Expar			Start Time: 7:20 AM			
SCS Project No.: 27225516.00			Stop Time: 6:30 PM			
Project Location: Loess Hills Regional Sanitary Landfill			Task: Well and collection pipe install			
			Work Area or Boundaries: GEW-82, POI N			
WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)
	37 F	22 F	4 mph	NW	Mostly Sunny	None
SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.)		Dry				
CONTRACTORS AND PERSONNEL:		COMPANY:		EQUIPMENT ONSITE (USED OR UNUSED):		
Nick Dalton, 8 workers		Joe Coleman & Son		Soilmec SR-30 Drill Rig		
Charles, driller				CAT 326 Excavator		
				CAT 725 Haul Truck		
				Gator UTV		
				Bobcat UTV		
				McElroy TracStar Series 2		
TESTS COMPLETED/OBSERVED *Document all tests in separate spreadsheet or below*						
TIME:	ACTIVITIES AND OBSERVATIONS:					
7:20	SCS (B. Graham) on site. JCS observed preparing equipment.					
7:48	Driller reviews well schedule and signs acknowledgement. Confirm details and begin drilling at GEW-82.					
10:00	JCS pipe crew observed excavating from POI N eastward. JCS indicates road crossing will be installed today after landfill closes and gives approval to excavate across haul road.					
13:40	Start pressure test of 2", 3", and 12" pipe for center header.					
14:00	Start pressure test of additional 2" and 3" pipe.					
14:20	Boring for GEW-82 complete to a depth of 147 feet. Begin well installation.					
14:40	Pressure test of 2"/3"/12" completed successfully.					
15:00	Pressure test of additional 2"/3" completed successfully.					
15:30	Installation of GEW-82 complete. JCS pauses work until site gives go-ahead to close haul road to install road crossings near POI N and between GEW-92 and GEW-87.					
16:45	Site gives go-ahead to proceed with road crossing installations.					
18:30	Road crossings near POI N and between GEW-92 and GEW-87 complete and backfilled. Concrete blocks placed at each end of crossing. Ends of crossings left exposed for later pipe tie-in. SCS and JCS off site.					
QUANTITIES:		DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:				
145'		PVC well case				
OBSERVER: Ben Graham						
SCS ENGINEERS						

DAILY FIELD ACTIVITIES REPORT						
Client Name: Iowa Waste Services, LLC. SCS Project Name: Loess Hills Landfill 2025 GCCS Expar SCS Project No.: 27225516.00 Project Location: Loess Hills Regional Sanitary Landfill			Date: Tuesday, November 11, 2025 Start Time: 7:13 AM Stop Time: 5:45 PM Task: Well and collection pipe install Work Area or Boundaries:			
WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:	WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)	SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.)
	37 F	22 F	4 mph NW	Mostly Sunny	None	Dry
CONTRACTORS AND PERSONNEL:		COMPANY:		EQUIPMENT ONSITE (USED OR UNUSED):		
Nick Dalton, 8 workers		Joe Coleman & Son		Soilmec SR-30 Drill Rig		
Charles, driller				CAT 326 Excavator		
				CAT 725 Haul Truck		
				Gator UTV		
				Bobcat UTV		
				McElroy TracStar Series 2		
TESTS COMPLETED/OBSERVED *Document all tests in separate spreadsheet or below*						
TIME:	ACTIVITIES AND OBSERVATIONS:					
7:13	SCS (B. Graham) on site. JCS observed preparing equipment.					
7:30	Confirm details and begin drilling at GEW-47R. Pipe crew excavates from POI N to POI M. Another pipe crew trenches and places pipe from GEW-92 to GEW-87.					
9:00	JCS indicates lateral lines for GEW-87 installed. 6" pipe prepared for pressure testing.					
10:20	Start pressure test of 6" pipe from GEW-92 to GEW-87.					
11:20	Pressure test of 6" pipe from GEW-92 to GEW-87 completed successfully.					
11:30	Boring for GEW-47R complete to a depth of 143 feet. Begin well installation.					
12:08	Confirm details and begin drilling at GEW-54R.					
12:25	Trenching from POI N to POI M completed. Pipe crew begins fusing and placing 2", 3", and 12" pipe in trench.					
12:45	Installation of GEW-47R complete.					
14:30	JCS indicates pipe crew has abandoned GEW-57 and GEW-66 and is adding 6"x8" reducers to gas collection risers at GEW-57R and GEW-66R.					
16:18	Boring for GEW-54R complete to a depth of 144 feet. Begin well installation. Pipe crew observed partially backfilling from POI N to POI M, leaving anticipated lateral branch locations exposed.					
17:42	Installation of GEW-54R completed. JCS and SCS off site.					
QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:					
142'	PVC well case					
OBSERVER: Ben Graham						
						SCS ENGINEERS

DAILY FIELD ACTIVITIES REPORT

Client Name:	Iowa Waste Services, LLC.
SCS Project Name:	Loess Hills Landfill 2025 GCCS Expan
SCS Project No.:	27225516.00
Project Location:	Loess Hills Regional Sanitary Landfill

Date:	Wednesday, November 12, 2025
Start Time:	7:27 AM
Stop Time:	6:08 PM
Task:	Well and collection pipe install

Work Area or Boundaries:

WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)	SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.)
	61 F	39 F	3 mph	N	Mostly Sunny	None	Dry

CONTRACTORS AND PERSONNEL:	COMPANY:	EQUIPMENT ONSITE (USED OR UNUSED):	
Nick Dalton, 8 workers	Joe Coleman & Son	Soilmec SR-30 Drill Rig	
Charles, driller		CAT 326 Excavator	
		CAT 725 Haul Truck	
		Gator UTV	
		Bobcat UTV	
		McElroy TracStar Series 2	

TESTS COMPLETED/OBSERVED

Document all tests in separate spreadsheet or below

TIME:	ACTIVITIES AND OBSERVATIONS:
7:27	SCS (B. Graham) on site. Confirm details with driller and begin drilling for GEW-49R. Pipe crew to continue trenching for "middle header" from POI M eastward.
11:40	Boring for GEW-49R complete to a depth of 148 feet. Begin well installation.
12:13	Confirm details with driller and begin drilling GEW-53R.
15:38	Boring for GEW-53R complete to a depth of 123 feet. Begin well installation. Pipe crew observed to have trenched from POI M to near GEW-43R.
17:20	Installation of well GEW-53R complete. Pipe crew indicates that tees for the lateral branches toward GEW-45, 47, 52, and 48 have been fused to middle header and placed in the trench.
17:48	Pipe crew fused tee and reducer assembly for lateral branch to GEW-42.
18:03	Fusion of tee and reducer assembly for lateral branch to GEW-42 complete. Section of header placed in trench.
18:08	Exposed areas of trench for "middle header" secured with equipment and caution tape. SCS and JCS off site.

QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:
269'	PVC well case

OBSERVER: Ben Graham

SCS ENGINEERS

DAILY FIELD ACTIVITIES REPORT							
Client Name: Iowa Waste Services, LLC.			Date: Thursday, November 13, 2025				
SCS Project Name: Loess Hills Landfill 2025 GCCS Expan			Start Time: 6:55 AM				
SCS Project No.: 27225516.00			Stop Time: 3:30 PM				
Project Location: Loess Hills Regional Sanitary Landfill			Task: Well and collection pipe install				
Work Area or Boundaries:							
WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)	SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.)
	72 F	39 F	4	WSW	Sunny	None	Dry
CONTRACTORS AND PERSONNEL:		COMPANY:		EQUIPMENT ONSITE (USED OR UNUSED):			
Nick Dalton, 8 workers		Joe Coleman & Son		Soilmec SR-30 Drill Rig			
Charles, driller				CAT 326 Excavator			
				CAT 725 Haul Truck			
				Gator UTV			
				Bobcat UTV			
				McElroy TracStar Series 2			
TESTS COMPLETED/OBSERVED							
Document all tests in separate spreadsheet or below							
TIME:	ACTIVITIES AND OBSERVATIONS:						
6:55	SCS (B. Graham) on site. JCS preparing equipment.						
7:30	Confirm details with driller and begin drilling GEW-50R at stake marked "GEW-50R PRIME". Pipe crew fused additional tees to 2", 3", and 12" pipe along "middle header" trench.						
10:47	Boring for GEW-50R complete to a depth of 126 feet. Begin well installation.						
11:20	Confirm details with driller and begin drilling GEW-52. Pipe crew continued fusing and placing pipe in trench for "middle header".						
14:50	Boring for GEW-52R completed to a depth of 145 feet. Begin well installation. Pipe crew performing leak check (unofficial pressure test) on pipe in "middle header" trench prior to backfill. Formal pressure test to occur after lateral pipe and risers installed.						
15:30	Pipe crew began backfilling middle header trench, leaving tees/lateral branches exposed for future installation of lateral pipe. SCS off site.						
QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:						
269'	PVC well case						
OBSERVER: Ben Graham							
SCS ENGINEERS							

DAILY FIELD ACTIVITIES REPORT						
Client Name: Iowa Waste Services, LLC.			Date: Friday, November 14, 2025			
SCS Project Name: Loess Hills Landfill 2025 GCCS Expar			Start Time: 7:08 AM			
SCS Project No.: 27225516.00			Stop Time: 3:30 PM			
Project Location: Loess Hills Regional Sanitary Landfill			Task: Well and collection pipe install			
Work Area or Boundaries:						
WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)
	75 F	39 F	8 mph	S	Sunny	None
SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.)		Dry				
CONTRACTORS AND PERSONNEL:		COMPANY:		EQUIPMENT ONSITE (USED OR UNUSED):		
Nick Dalton, 8 workers		Joe Coleman & Son		Soilmec SR-30 Drill Rig		
Charles, driller				CAT 326 Excavator		
				CAT 725 Haul Truck		
				Gator UTV		
				Bobcat UTV		
				McElroy TracStar Series 2		
TESTS COMPLETED/OBSERVED						
Document all tests in separate spreadsheet or below						
TIME:	ACTIVITIES AND OBSERVATIONS:					
7:08	SCS (B. Graham) on site. JCS preparing equipment.					
7:43	Confirm details with driller and begin drilling GEW-43R. Pipe crew resumed excavating east from GEW-43R for "middle header".					
10:35	Boring for GEW-43R complete to a depth of 129 feet. Boring halted prematurely due to drift in borehole risking damage to drill rig. Begin well installation.					
11:16	Confirm details with driller and begin drilling GEW-36R.					
11:46	Installation of well GEW-43R complete.					
13:08	Boring for GEW-36R completed to a depth of 89 feet. Begin well installation. Pipe crew fused tee/lateral branch to header near GEW-43R.					
13:48	Pipe crew attempted to locate header tie-in location at POI L. Unable to locate; suspected to be deeper than initially anticipated. SCS to review as-built documentation to determine burial depth.					
14:20	Pipe crew fused double forcemain cleanout risers at POI M.					
15:00	Installation of cleanout risers at POI M complete. Pipe placed in trench. Crew fuse 2"/3" branches near GEW-43R.					
15:30	Branches on 2"/3" pipe complete. Pipe placed in trench. JCS continued partial backfill over "middle header", leaving branches exposed for later access. SCS off site.					
QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:					
216'	PVC well case					
OBSERVER: Ben Graham						
SCS ENGINEERS						

[illegible]

DAILY FIELD ACTIVITIES REPORT							
Client Name: Iowa Waste Services, LLC.			Date: Tuesday, November 18, 2025				
SCS Project Name: Loess Hills Landfill 2025 GCCS Expan			Start Time: 7:20 AM				
SCS Project No.: 27225516.00			Stop Time: 3:50 PM				
Project Location: Loess Hills Regional Sanitary Landfill			Task: Well and collection pipe install				
Work Area or Boundaries:							
WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)	SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.)
	46 F	37 F	7 mph	N	Cloudy	None	Dry
CONTRACTORS AND PERSONNEL:		COMPANY:		EQUIPMENT ONSITE (USED OR UNUSED):			
Nick Dalton, 8 workers		Joe Coleman & Son		Soilmec SR-30 Drill Rig			
Charles, driller				CAT 326 Excavator			
				CAT 725 Haul Truck			
				Gator UTV			
				Bobcat UTV			
				McElroy TracStar Series 2			
TESTS COMPLETED/OBSERVED							
Document all tests in separate spreadsheet or below							
TIME:	ACTIVITIES AND OBSERVATIONS:						
7:20	SCS (J. Miller) on site. Surfacing POI M & greater area.						
8:30	Confirm details and begin drilling at GEW-85.						
11:45	Drilling halted at 116'/146' due to broken part on rig. Area is barricaded. Drilling will continue in a couple of days when the new part arrives. Measurements of new perforated pipe are taken from shipment delivered today.						
12:30	POI E LFG isolation valve installed.						
14:40	At east side of GEW-92 road crossing working on inserting "T" connections.						
15:45	Backfilling hole.						
15:50	SCS off site.						
QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:						
1	12" LFG isolation valve						
OBSERVER: Jenna Miller							
SCS ENGINEERS							

DAILY FIELD ACTIVITIES REPORT						
Client Name: Iowa Waste Services, LLC. SCS Project Name: Loess Hills Landfill 2025 GCCS Expan SCS Project No.: 27225516.00 Project Location: Loess Hills Regional Sanitary Landfill			Date: Wednesday, November 19, 2025 Start Time: 7:20 AM Stop Time: 4:10 PM Task: Collection pipe installation Work Area or Boundaries:			
WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:	WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)	SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.)
	50 F 42 F	4 mph S	Cloudy		Mist	Dry
CONTRACTORS AND PERSONNEL:		COMPANY:		EQUIPMENT ONSITE (USED OR UNUSED):		
Nick Dalton, 8 workers		Joe Coleman & Son		Soilmec SR-30 Drill Rig		
Charles, driller				CAT 326 Excavator		
				CAT 725 Haul Truck		
				Gator UTV		
				Bobcat UTV		
				McElroy TracStar Series 2		
TESTS COMPLETED/OBSERVED *Document all tests in separate spreadsheet or below*						
TIME:	ACTIVITIES AND OBSERVATIONS:					
7:20	SCS (J. Miller) on site.					
7:40	Connecting pipes at west side of GEW-92 road crossing, finishing the road crossing.					
9:40	At POI E installing air supply line isolation valve.					
1:10	At POI E installing leachate Forcemain isolation valve.					
14:00	New drill rig part arrives. Crew is installing it.					
16:10	SCS off site.					
QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:					
1	2" SS air supply isolation valve					
1	3" HDPE leachate forcemain isolation valve					
OBSERVER: Jenna Miller SCS ENGINEERS						

DAILY FIELD ACTIVITIES REPORT							
Client Name: Iowa Waste Services, LLC.			Date: Thursday, November 20, 2025				
SCS Project Name: Loess Hills Landfill 2025 GCCS Expan			Start Time: 7:10 AM				
SCS Project No.: 27225516.00			Stop Time: 5:00 PM				
Project Location: Loess Hills Regional			Task: Well and collection pipe install				
Sanitary Landfill			Work Area or Boundaries:				
WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)	SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.)
	45 F	34 F	4 mph	N	Cloudy	Mist	Dry
CONTRACTORS AND PERSONNEL:		COMPANY:		EQUIPMENT ONSITE (USED OR UNUSED):			
Nick Dalton, 8 workers		Joe Coleman & Son		Soilmec SR-30 Drill Rig			
Charles, driller				CAT 326 Excavator			
				CAT 725 Haul Truck			
				Gator UTV			
				Bobcat UTV			
				McElroy TracStar Series 2			
TESTS COMPLETED/OBSERVED							
Document all tests in separate spreadsheet or below							
TIME:	ACTIVITIES AND OBSERVATIONS:						
7:10	SCS (J. Miller) on site. Crew finishes putting rig back together.						
7:25	Reconfirm details and resume drilling at 116', GEW-85.						
10:00	Drilling complete to depth of 146 feet. Well installation begins. Trench to POI L complete.						
11:00	Confirm details and begin drilling at GEW-87.						
14:20	Drilling paused due to equipment failure.						
15:40	Resume drilling.						
16:00	Well GEW-87 drilled to 122 feet.						
16:30	12" pipe & air/liquid conveyance pipes laid to POI L. GEW-85 and GEW-87 are installed.						
17:00	Backfilling towards POI L. SCS off site.						
QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:						
266'	PVC well case						
OBSERVER: Jenna Miller				SCS ENGINEERS			

DAILY FIELD ACTIVITIES REPORT						
Client Name: Iowa Waste Services, LLC.			Date: Friday, November 21, 2025			
SCS Project Name: Loess Hills Landfill 2025 GCCS Expan			Start Time: 7:10 AM			
SCS Project No.: 27225516.00			Stop Time: 4:15 PM			
Project Location: Loess Hills Regional Sanitary Landfill			Task: Drilling & laying pipe			
Work Area or Boundaries:						
WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)
	47 F	36 F	8 mph	NE	Cloudy	Rain
CONTRACTORS AND PERSONNEL:			COMPANY:		EQUIPMENT ONSITE (USED OR UNUSED):	
Nick Dalton, 8 workers			Joe Coleman & Son		Soilmec SR-30 Drill Rig	
Charles, driller					CAT 326 Excavator	
					CAT 725 Haul Truck	
					Gator UTV	
					Bobcat UTV	
					McElroy TracStar Series 2	
TESTS COMPLETED/OBSERVED						
Document all tests in separate spreadsheet or below						
TIME:	ACTIVITIES AND OBSERVATIONS:					
7:10	SCS (J. Miller) on site.					
7:45	Confirm details and begin drilling at GEW-55R.					
11:30	Drilling complete at 138'. Well installation begins.					
12:00	Miller meets with surveyors for GEW-86 and 38R.					
12:10	Numbers line up with previous schedule.					
12:20	Confirm details with driller and begin drilling at GEW-86.					
15:30	Drill rig part breaks. New part is needed. Drilling will resume tomorrow. Area is barricaded.					
16:00	GEW-55R is installed. Trench backfilled up to POI L. 6" pipe and risers connected to GEW-39 from main.					
16:15	SCS off site.					
QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:					
137'	PVC well case					
OBSERVER: Jenna Miller						
SCS ENGINEERS						

DAILY FIELD ACTIVITIES REPORT

Client Name:	Iowa Waste Services, LLC.
SCS Project Name:	Loess Hills Landfill 2025 GCCS Expar
SCS Project No.:	27225516.00
Project Location:	Loess Hills Regional Sanitary Landfill

Date: Saturday, November 22, 2025

Start Time: 7:00 AM

Stop Time: 6:12 PM

Task: Drilling & laying pipe

Work Area or Boundaries:

WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)	SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.)
	59 F	36 F	10 mph	SW	Mostly Sunny	None	Dry

CONTRACTORS AND PERSONNEL:	COMPANY:	EQUIPMENT ONSITE (USED OR UNUSED):
Nick Dalton, 8 workers	Joe Coleman & Son	Soilmec SR-30 Drill Rig
Charles, driller		CAT 326 Excavator
		CAT 725 Haul Truck
		Gator UTV
		Bobcat UTV
		McElroy TracStar Series 2

TESTS COMPLETED/OBSERVED

Document all tests in separate spreadsheet or below

TIME:	ACTIVITIES AND OBSERVATIONS:
7:00	SCS (B. Graham) on site. JCS prepares equipment for the day. Drill rig positioned to continue drilling GEW-86.
7:30	Resume boring GEW-86 at 120'.
8:15	Drilling for GEW-86 complete to depth of 129'. Drilling stopped short due to boring refusal caused by saturated material. Begin well installation.
8:55	Confirm details with driller and begin drilling at GEW-38R.
9:20	Installation of well GEW-86 complete.
12:45	Drilling for GEW-38R complete to a depth of 112'. Begin well installation.
14:00	Installation of well GEW-38R complete. Pipe crew began excavating for lateral lines from "middle header" to GEW-43R to GEW-49R.
15:50	Excavation for lateral lines complete. JCS placed 2"/3"/6" lateral lines in trench and began fusing risers for GEW-43R.
	Trench backfilled up to POI L. 6" pipe and risers connected to GEW-39 from main.
17:05	Risers for GEW-43R fused. Crew fused 6" lateral to 6"x12" on header.
17:45	6" lateral fused to header. JCS began backfilling over trench, leaving connection between laterals and header exposed for future access.
18:12	SCS off site.

QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:
229'	PVC well case

OBSERVER: Ben Graham

SCS ENGINEERS

DAILY FIELD ACTIVITIES REPORT							
Client Name: Iowa Waste Services, LLC.			Date: Sunday, November 23, 2025				
SCS Project Name: Loess Hills Landfill 2025 GCCS Expan			Start Time: 7:25 AM				
SCS Project No.: 27225516.00			Stop Time: 4:10 PM				
Project Location: Loess Hills Regional			Task: Laying pipe				
Sanitary Landfill			Work Area or Boundaries:				
WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)	SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.)
	57 F	32 F	8 mph	S	Sunny	None	Dry
CONTRACTORS AND PERSONNEL:		COMPANY:		EQUIPMENT ONSITE (USED OR UNUSED):			
Nick Dalton, 8 workers		Joe Coleman & Son		Soilmec SR-30 Drill Rig			
Charles, driller				CAT 326 Excavator			
				CAT 725 Haul Truck			
				Gator UTV			
				Bobcat UTV			
				McElroy TracStar Series 2			
TESTS COMPLETED/OBSERVED							
Document all tests in separate spreadsheet or below							
TIME:	ACTIVITIES AND OBSERVATIONS:						
7:25	SCS (J. Miller) on site.						
8:15	Backfilling GEW-43R area and releveling area.						
12:40	Trenching from main to GEW-48R.						
14:20	Laying 2"/3"/6" lateral pipe and tying in.						
15:00	Backfill.						
16:00	Laying gravel over roadway between 43R and 49R.						
16:10	SCS off site.						
QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:						
OBSERVER: Jenna Miller				SCS ENGINEERS			

DAILY FIELD ACTIVITIES REPORT

Client Name:	Iowa Waste Services, LLC.
SCS Project Name:	Loess Hills Landfill 2025 GCCS Expan
SCS Project No.:	27225516.00
Project Location:	Loess Hills Regional Sanitary Landfill

Date:	Monday, November 24, 2025
Start Time:	7:20 AM
Stop Time:	2:10 PM
Task:	Laying pipe

Work Area or Boundaries:

WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)	SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.)
	54 F	46 F	7 mph	SE	Cloudy	Rain	Muddy

CONTRACTORS AND PERSONNEL:	COMPANY:	EQUIPMENT ONSITE (USED OR UNUSED):	
Nick Dalton, 8 workers	Joe Coleman & Son	Soilmec SR-30 Drill Rig	
Charles, driller		CAT 326 Excavator	
		CAT 725 Haul Truck	
		Gator UTV	
		Bobcat UTV	
		McElroy TracStar Series 2	

TESTS COMPLETED/OBSERVED

Document all tests in separate spreadsheet or below

[illegible]

QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:

OBSERVER: Jenna Miller

SCS ENGINEERS

DAILY FIELD ACTIVITIES REPORT					
Client Name: Iowa Waste Services, LLC. SCS Project Name: Loess Hills Landfill 2025 GCCS Expan SCS Project No.: 27225516.00 Project Location: Loess Hills Regional Sanitary Landfill			Date: Tuesday, November 25, 2025 Start Time: 7:08 AM Stop Time: 3:20 PM Task: Laying pipe Work Area or Boundaries: POI L & N		
WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP: 50 43	WIND SPEED AND DIRECTION: 27 NW	WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.) Mostly cloudy	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.) None	SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.) Muddy
CONTRACTORS AND PERSONNEL:		COMPANY:	EQUIPMENT ONSITE (USED OR UNUSED):		
Nick Dalton, 8 workers		Joe Coleman & Son	Soilmec SR-30 Drill Rig		
Charles, driller			CAT 326 Excavator		
			CAT 725 Haul Truck		
			Gator UTV		
			Bobcat UTV		
			McElroy TracStar Series 2		
TESTS COMPLETED/OBSERVED *Document all tests in separate spreadsheet or below*					
TIME:	ACTIVITIES AND OBSERVATIONS:				
7:08	SCS (B. Graham) on site. JCS preparing equipment and assessing weather forecast and site conditions.				
7:45	JCS prepared "middle header" and attached laterals for pressure testing.				
8:07	Start pressure test for "middle header" and attached laterals. JCS begins fusing flanges to header pipe at POI L for tie-in.				
9:07	Pressure test of "middle header" and attached laterals completed successfully.				
11:25	Tie-in connection between existing header and new header pipe at POI L completed. Crew fused caps to collocated 2"/3" pipe and added valve extension to 12" valve at POI L.				
12:30	Pipe work at POI L complete. Crew backfilled at POI L and began preparing existing and new header pipe at POI N for tie-in connection.				
15:05	Cap butt-welded to existing header at POI N. Existing header and new header pipe tie-in connection at POI N completed. Crew begins backfill at POI N.				
15:20	JCS indicates tie-ins are complete and gas plant ready for restart. Graham notified Iowa Waste Services (Stephens). JCS indicated remainder of day would consist of backfill, grading, and cleanup activities. SCS off site.				
QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:				
OBSERVER: Ben Graham			SCS ENGINEERS		

DAILY FIELD ACTIVITIES REPORT

Client Name:	Iowa Waste Services, LLC.
SCS Project Name:	Loess Hills Landfill 2025 GCCS Expan
SCS Project No.:	27225516.00
Project Location:	Loess Hills Regional Sanitary Landfill

Date:	Tuesday, December 2, 2025
Start Time:	7:10 AM
Stop Time:	4:40 PM
Task:	Trenching & laying pipe
Work Area or Boundaries:	

WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)	SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.)
	32 F	11 F	5 mph	S	Partly cloudy	None	Frozen

CONTRACTORS AND PERSONNEL:	COMPANY:	EQUIPMENT ONSITE (USED OR UNUSED):	
Nick Dalton, 8 workers	Joe Coleman & Son	Soilmec SR-30 Drill Rig	
		CAT 326 Excavator	
		CAT 725 Haul Truck	
		Gator UTV	
		Bobcat UTV	
		McElroy TracStar Series 2	

TESTS COMPLETED/OBSERVED

Document all tests in separate spreadsheet or below

[illegible]

QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:
140'	6" pipe
350'	8" pipe

OBSERVER: Jenna Miller

SCS ENGINEERS

DAILY FIELD ACTIVITIES REPORT						
Client Name: Iowa Waste Services, LLC.			Date: Wednesday, December 3, 2025			
SCS Project Name: Loess Hills Landfill 2025 GCCS Expan			Start Time: 7:10 AM			
SCS Project No.: 27225516.00			Stop Time: 4:30 PM			
Project Location: Loess Hills Regional Sanitary Landfill			Task: Trenching & laying pipe			
Work Area or Boundaries:						
WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)
	34 F	8 F	14 mph	N	Cloudy	None
SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.)		Muddy				
CONTRACTORS AND PERSONNEL:		COMPANY:		EQUIPMENT ONSITE (USED OR UNUSED):		
Nick Dalton, 8 workers		Joe Coleman & Son		Soilmec SR-30 Drill Rig		
				CAT 326 Excavator		
				CAT 725 Haul Truck		
				Gator UTV		
				Bobcat UTV		
				McElroy TracStar Series 2		
TESTS COMPLETED/OBSERVED						
Document all tests in separate spreadsheet or below						
Pressure test #15						
TIME:	ACTIVITIES AND OBSERVATIONS:					
7:10	SCS (J. Miller) on site. JCS trenching past GEW-76R.					
11:00	Trench to GEW-37R complete.					
12:00	8"/2"/3" pipe laid to GEW-37R.					
12:30	Backfilling/regrading finished area, leaving ends exposed.					
14:02	Pressure test #15 begins					
15:05	Pressure test passes. Begin tying in.					
16:00	West end tied in. Backfilling.					
16:30	SCS off site. JCS wrapping up.					
QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:					
OBSERVER: Jenna Miller				SCS ENGINEERS		

[illegible]

DAILY FIELD ACTIVITIES REPORT					
Client Name:		Iowa Waste Services, LLC.		Date:	Saturday, December 6, 2025
SCS Project Name:		Loess Hills Landfill 2025 GCCS Expan		Start Time:	7:15 AM
SCS Project No.:		27225516.00		Stop Time:	2:00 PM
Project Location:		Loess Hills Regional Sanitary Landfill		Task:	Trenching & laying pipe
				Work Area or Boundaries:	
WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:	WIND SPEED AND DIRECTION:	WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)	SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.)
	37 F 24 F	9 mph SE	Cloudy	Morning fog	Muddy
CONTRACTORS AND PERSONNEL:		COMPANY:	EQUIPMENT ONSITE (USED OR UNUSED):		
Nick Dalton, 8 workers		Joe Coleman & Son	Soilmec SR-30 Drill Rig		
			CAT 326 Excavator		
			CAT 725 Haul Truck		
			Gator UTV		
			Bobcat UTV		
			McElroy TracStar Series 2		
TESTS COMPLETED/OBSERVED *Document all tests in separate spreadsheet or below*					
TIME:	ACTIVITIES AND OBSERVATIONS:				
7:15	SCS (J. Miller) on site. JCS getting ready for the day				
8:00	Trenching from GEW37R to GEW-29R.				
8:50	Laying conveyance pipes.				
9:30	Trenching from GEW-37R to GEW-38R.				
10:45	Laying conveyance pipes and getting them connected.				
12:30	Backfilling and regrading.				
14:00	SCS off site. JCS wraps up with regrading.				
QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:				
OBSERVER:	Jenna Miller		SCS ENGINEERS		

DAILY FIELD ACTIVITIES REPORT

Client Name:	Iowa Waste Services, LLC.
SCS Project Name:	Loess Hills Landfill 2025 GCCS Expan
SCS Project No.:	27225516.00
Project Location:	Loess Hills Regional Sanitary Landfill

Date:	Sunday, December 7, 2025
Start Time:	7:10 AM
Stop Time:	3:40 PM
Task:	Trenching & laying pipe
Work Area or Boundaries:	

WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)	SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.)
	28 F	17 F	5 mph	NE	Partly cloudy	None	Frozen

CONTRACTORS AND PERSONNEL:	COMPANY:	EQUIPMENT ONSITE (USED OR UNUSED):	
Nick Dalton, 8 workers	Joe Coleman & Son	Soilmec SR-30 Drill Rig	
		CAT 326 Excavator	
		CAT 725 Haul Truck	
		Gator UTV	
		Bobcat UTV	
		McElroy TracStar Series 2	

TESTS COMPLETED/OBSERVED

Document all tests in separate spreadsheet or below

Pressure tests #16-20

[illegible]

QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:
350'	2" pipe, 3" pipe, 6" pipe

OBSERVER: Jenna Miller

SCS ENGINEERS

DAILY FIELD ACTIVITIES REPORT						
Client Name: Iowa Waste Services, LLC.			Date: Monday, December 8, 2025			
SCS Project Name: Loess Hills Landfill 2025 GCCS Expar			Start Time: 7:23 AM			
SCS Project No.: 27225516.00			Stop Time: 4:25 PM			
Project Location: Loess Hills Regional Sanitary Landfill			Task: Trenching & laying pipe			
Work Area or Boundaries:						
WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)
	34 F	18 F	12 mph	S	Mostly Cloudy	None
SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.)		Muddy				
CONTRACTORS AND PERSONNEL:		COMPANY:		EQUIPMENT ONSITE (USED OR UNUSED):		
Nick Dalton, 8 workers		Joe Coleman & Son		Soilmec SR-30 Drill Rig		
				CAT 326 Excavator		
				CAT 725 Haul Truck		
				Gator UTV		
				Bobcat UTV		
				McElroy TracStar Series 2		
TESTS COMPLETED/OBSERVED						
Document all tests in separate spreadsheet or below						
Pressure test #21						
TIME:	ACTIVITIES AND OBSERVATIONS:					
7:23	SCS (B. Graham) on site. JCS excavated from POI R to GEW-38R. Crew observed abandoning well GEW-43.					
8:30	JCS recommends moving POI R (6" gas collection lateral) approximately 60 feet west. SCS (Graham) and IWS (Stephens) evaluate current lateral location for potential "bellies" or other blockages and concur with JCS.					
9:30	Excavation from POI R to GEW-38R completed. Crew fused 6" lateral and riser pipe for pipe run from POI R to GEW-38R.					
10:00	JCS prepared 6" lateral and riser pipe for POI R to GEW-38R for pressure testing. Pipe pressurized in staging area and then placed in trench during testing due to equipment accessibility issues on slope.					
10:07	Begin pressure test of 6" pipe for POI R to GEW-38R (Test #21). Crew began abandoning existing lateral pipe at POI R.					
11:07	Pressure test #21 completed successfully. Crew began connecting new lateral pipe and riser to existing lateral at POI R.					
12:48	Tie-in connection at POI R completed. Crew began backfilling and grading area.					
13:05	JCS fused new 2" and 3" pipe to existing risers at GEW-29R.					
14:10	Connection of 2" and 3" pipe to existing risers at GEW-29R completed. JCS closed air supply and condensate forcemain valves south of POI P and began tie-in of new 2" and 3" pipe.					
16:25	Connection of 2" and 3" pipe at POI P completed. Excavation left open for later access to abandon existing 12" gas collection header. JCS indicates remainder of day would consist of cleanup activities. SCS off site.					
QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:					
OBSERVER:	Ben Graham			SCS ENGINEERS		

DAILY FIELD ACTIVITIES REPORT						
Client Name: Iowa Waste Services, LLC. SCS Project Name: Loess Hills Landfill 2025 GCCS Expan SCS Project No.: 27225516.00 Project Location: Loess Hills Regional Sanitary Landfill			Date: Monday, December 8, 2025 Start Time: 7:15 AM Stop Time: 2:13 PM Task: Trenching & laying pipe Work Area or Boundaries:			
WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP: 51 F 25 F	WIND SPEED AND DIRECTION: 7 mph SW	WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)	SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.)	
CONTRACTORS AND PERSONNEL:		COMPANY:	EQUIPMENT ONSITE (USED OR UNUSED):			
Nick Dalton, 8 workers		Joe Coleman & Son	Soilmec SR-30 Drill Rig			
			CAT 326 Excavator			
			CAT 725 Haul Truck			
			Gator UTV			
			Bobcat UTV			
			McElroy TracStar Series 2			
TESTS COMPLETED/OBSERVED						
Document all tests in separate spreadsheet or below						
TIME:	ACTIVITIES AND OBSERVATIONS:					
7:15	SCS (B. Graham) on site. JCS cleaned and graded site near GEW-55R and GEW-56R to prepare for excavation for lateral pipe. Crew fused 6" and 12" HDPE fittings for risers at GEW-55R and 56R.					
7:45	JCS began excavating from GEW-55R to the east side of the proposed road crossing. Crew members observed hauling additional soil to work area and performing final grading in completed areas.					
10:10	Riser fused to 12" pipe for GEW-55R. JCS placed 12" pipe with riser in trench. Pipe cut near GEW-56R and gas collection riser fused to 12" pipe.					
12:00	Gas collection riser fused at GEW-56R. Crew placed 2" air supply and 3" condensate forcemain pipe in trench and began fusing risers at GEW-55R and GEW-56R.					
13:15	CMP placed around 2", 3", and 12" pipe for road crossing east of GEW-56R. Two sections of CMP secured together using metal band.					
13:38	Air supply and condensate forcemain risers fused at GEW-55R and GEW-56R. Pipe placed in trench. JCS placed aggregate over top of CMP and began backfilling over trench from GEW-55R to east side of road crossing.					
14:13	Backfill over road crossing completed. JCS indicated remainder of day will be spent backfilling and grading. SCS off site.					
QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:					
OBSERVER: Ben Graham			SCS ENGINEERS			

[illegible]

[illegible]

DAILY FIELD ACTIVITIES REPORT

Client Name:	Iowa Waste Services, LLC.
SCS Project Name:	Loess Hills Landfill 2025 GCCS Expan
SCS Project No.:	27225516.00
Project Location:	Loess Hills Regional Sanitary Landfill

Date:	Sunday, December 14, 2025
Start Time:	7:20 AM
Stop Time:	3:00 PM
Task:	Trenching & road crossing
Work Area or Boundaries:	

WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)	SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.)
	22 F	2 F	11mph	S	Sunny	None	Frozen

CONTRACTORS AND PERSONNEL:	COMPANY:	EQUIPMENT ONSITE (USED OR UNUSED):	
Nick Dalton, 8 workers	Joe Coleman & Son	Soilmec SR-30 Drill Rig	
		CAT 326 Excavator	
		CAT 725 Haul Truck	
		Gator UTV	
		Bobcat UTV	
		McElroy TracStar Series 2	

TESTS COMPLETED/OBSERVED

Document all tests in separate spreadsheet or below

[illegible]

QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:
400'	2" pipe, 3" pipe, 6" pipe

OBSERVER: Jenna Miller

SCS ENGINEERS

DAILY FIELD ACTIVITIES REPORT						
Client Name: Iowa Waste Services, LLC. SCS Project Name: Loess Hills Landfill 2025 GCCS Expan SCS Project No.: 27225516.00 Project Location: Loess Hills Regional Sanitary Landfill			Date: Monday, December 15, 2025 Start Time: 7:13 AM Stop Time: 2:37 PM Task: Trenching & road crossing Work Area or Boundaries:			
WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP: 46 F 20 F	WIND SPEED AND DIRECTION: 6 mph SW	WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.) Mostly Sunny	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.) None	SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.) Dry	
CONTRACTORS AND PERSONNEL:		COMPANY:		EQUIPMENT ONSITE (USED OR UNUSED):		
Nick Dalton, 8 workers		Joe Coleman & Son		Soilmec SR-30 Drill Rig		
				CAT 326 Excavator		
				CAT 725 Haul Truck		
				Gator UTV		
				Bobcat UTV		
				McElroy TracStar Series 2		
TESTS COMPLETED/OBSERVED						
Document all tests in separate spreadsheet or below						
TIME:	ACTIVITIES AND OBSERVATIONS:					
7:13	SCS (B. Graham) on site. JCS prepared equipment for the day.					
7:50	JCS indicates that trenching will be delayed due to a part failure on the excavator. Crew lead offsite to get replacement part. Crew placed additional gravel over road crossings to restore road grade and fused additional 2" and 3" HDPE pipe.					
10:33	Crew leader returns with part for excavator and installs. Begin excavating from near GEW-84 east (downslope) to proposed lateral connection point. Crew fused fittings to make 2", 3", and 6" risers for GEW-84.					
12:20	JCS disassembled fencing between west of GEW-59 and began excavating from recently placed 12" pipe toward GEW-84. Crew cut 2", 3", and 6" pipe near GEW-84 and began fusing risers to lateral pipe.					
13:20	JCS crew lead indicates excavation will be paused as a haul truck to haul excavated waste away is unavailable.					
14:28	Risers fused at GEW-84.					
14:37	JCS indicates remainder of the day will be spent hauling dirt to and grading within the work area. SCS off site.					
QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:					
OBSERVER: Ben Graham				SCS ENGINEERS		

DAILY FIELD ACTIVITIES REPORT						
Client Name: Iowa Waste Services, LLC.			Date: Tuesday, December 16, 2025			
SCS Project Name: Loess Hills Landfill 2025 GCCS Expan			Start Time: 7:15 AM			
SCS Project No.: 27225516.00			Stop Time: 1:50 PM			
Project Location: Loess Hills Regional Sanitary Landfill			Task: Trenching & road crossing			
Work Area or Boundaries:						
WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:	WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)	SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.)
	57 F 23 F	6 mph SW		Mostly Sunny	None	Dry
CONTRACTORS AND PERSONNEL:		COMPANY:		EQUIPMENT ONSITE (USED OR UNUSED):		
Nick Dalton, 8 workers		Joe Coleman & Son		Soilmec SR-30 Drill Rig		
				CAT 326 Excavator		
				CAT 725 Haul Truck		
				Gator UTV		
				Bobcat UTV		
				McElroy TracStar Series 2		
TESTS COMPLETED/OBSERVED						
Document all tests in separate spreadsheet or below						
TIME:	ACTIVITIES AND OBSERVATIONS:					
7:15	SCS (B. Graham) on site. JCS began excavating remainder of trench for laterals pipe east of GEW-84 to the proposed connection to the new 12" header.					
8:15	Trenching for laterals lines described above completed. JCS began installing 8" valve where the 8" pipe meets the 12" header.					
9:15	TD2 (Max) arrived onsite. SCS met with TD2 to perform as-constructed survey walkthrough of the work area.					
12:40	As-constructed survey walkthrough with TD2 completed. During walkthrough, JCS placed 2", 3", 6", and 8" pipe in trench described above and began making connection to 12" header. Crew replaced control wheel of 8" valve with part from site stockpile due to damage to the used valve control wheel.					
13:50	Connection of lateral pipe beginning at GEW-86 to 12" header completed. JCS indicates remainder of day would be spent haul soil, grading, and fusing and staging additional pipe. SCS off site.					
QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:					
OBSERVER: Ben Graham				SCS ENGINEERS		

DAILY FIELD ACTIVITIES REPORT						
Client Name: Iowa Waste Services, LLC.			Date: Wednesday, December 17, 2025			
SCS Project Name: Loess Hills Landfill 2025 GCCS Expar			Start Time: 7:20 AM			
SCS Project No.: 27225516.00			Stop Time: 2:00 PM			
Project Location: Loess Hills Regional Sanitary Landfill			Task: Collection pipe installation			
Work Area or Boundaries:						
WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:	WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)	SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.)
	52 F	32 F	4 mph S	Partly cloudy	None	Dry
CONTRACTORS AND PERSONNEL:		COMPANY:		EQUIPMENT ONSITE (USED OR UNUSED):		
Nick Dalton, 8 workers		Joe Coleman & Son		Soilmec SR-30 Drill Rig		
				CAT 326 Excavator		
				CAT 725 Haul Truck		
				Gator UTV		
				Bobcat UTV		
				McElroy TracStar Series 2		
TESTS COMPLETED/OBSERVED						
Document all tests in separate spreadsheet or below						
TIME:	ACTIVITIES AND OBSERVATIONS:					
7:20	SCS (J. Miller) on site. JCS is getting ready to work.					
7:40	The 8" valve, just west of POI E, is getting removed.					
8:50	The 8" header is capped. The hole is left exposed and crew moves to GEW-57R to install valve.					
9:35	Isolation valve is attached just south of GEW-57R. Crew is working to tie in this lateral to the main header.					
12:30	Blind is placed in flange to abandon 12" header, located at intersection just east of GEW-78. Hole is left exposed.					
13:45	Lateral upslope of GEW-68 is cut and capped.					
14:00	For the remainder of the day, JCS will be fusing pipe in the staging area. SCS off site.					
QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:					
OBSERVER: Jenna Miller			SCS ENGINEERS			

DAILY FIELD ACTIVITIES REPORT						
Client Name: Iowa Waste Services, LLC. SCS Project Name: Loess Hills Landfill 2025 GCCS Expan SCS Project No.: 27225516.00 Project Location: Loess Hills Regional Sanitary Landfill			Date: Friday, December 19, 2025 Start Time: 7:15 AM Stop Time: 4:45 PM Task: Collection pipe installation Work Area or Boundaries:			
WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)
	42 F	15 F	14 mph	S	Sunny	None
CONTRACTORS AND PERSONNEL:		COMPANY:		EQUIPMENT ONSITE (USED OR UNUSED):		
Nick Dalton, 8 workers		Joe Coleman & Son		Soilmec SR-30 Drill Rig		
				CAT 326 Excavator		
				CAT 725 Haul Truck		
				Gator UTV		
				Bobcat UTV		
				McElroy TracStar Series 2		
TESTS COMPLETED/OBSERVED *Document all tests in separate spreadsheet or below*						
TIME:	ACTIVITIES AND OBSERVATIONS:					
7:15	SCS (J. Miller) on site. JCS gets ready for the day.					
7:30	Trenching from GEW 82 to 83.					
8:30	Trenching is complete. 6"/3"/2" pipe is getting laid with leachate forcemain end cleanout at POI K. Observations confirm JCS installed the leachate forcemain double cleanout yesterday at POI J .					
8:45	Trenching from GEW 83 to 8" pipe transition.					
9:45	Begin looking through Bret's checklist (see photos) to confirm changes made yesterday.					
10:15	Trench complete and 6"/2"/3" pipes laid. Elbows at GEW-83 are getting fused.					
11:30	Trenching from header to GEW-62R. Fusing pipes at 6"-8" pipe intersection. Areas previously worked on today are getting backfilled and graded.					
13:00	Trenching is complete. Laying 6"/2"/3" pipes and fusing to header.					
16:45	JCS is wrapping up the day by fusing pipe in the staging area and backfilling the rest of the work area today. SCS off site.					
QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:					
540'	6" pipe					
OBSERVER: Jenna Miller				SCS ENGINEERS		

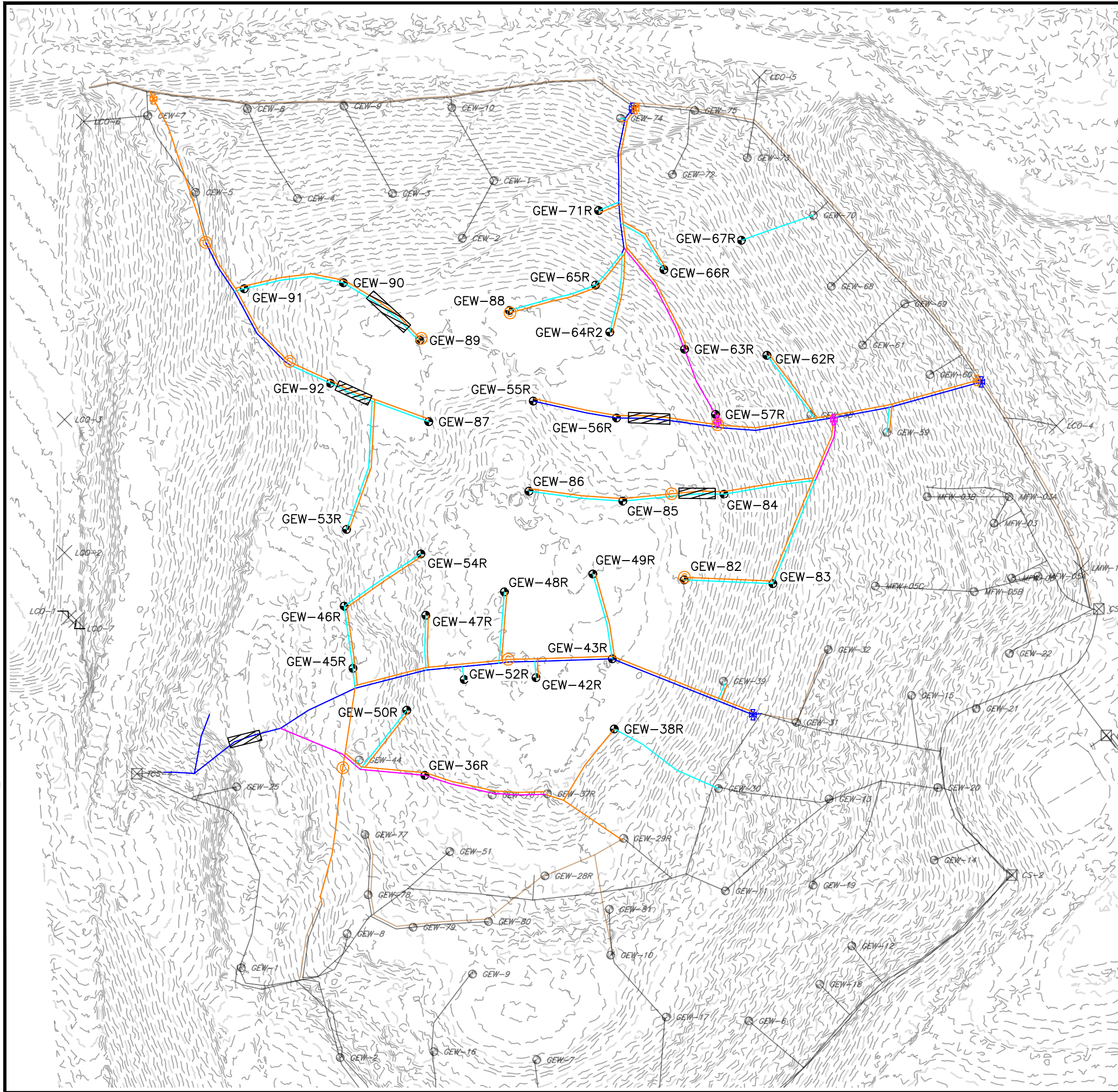
DAILY FIELD ACTIVITIES REPORT						
Client Name: Iowa Waste Services, LLC.			Date: Saturday, December 20, 2025			
SCS Project Name: Loess Hills Landfill 2025 GCCS Expar			Start Time: 7:15 AM			
SCS Project No.: 27225516.00			Stop Time: 6:05 PM			
Project Location: Loess Hills Regional Sanitary Landfill			Task: Collection pipe installation			
Work Area or Boundaries:						
WEATHER INFORMATION: *Update information if it significantly changes*	MAX/MIN TEMP:		WIND SPEED AND DIRECTION:		WEATHER CONDITIONS: (Cloudy, Partially Cloudy, Sunny, etc.)	PRECIPITATION: (Fog, Drizzle, Rain, Snow, etc.)
	44 F	27 F	12 mph	NW	Partly cloudy	None
SOIL CONDITIONS: (Dry, Muddy, Ponding, Frozen, etc.)		Dry				
CONTRACTORS AND PERSONNEL:		COMPANY:		EQUIPMENT ONSITE (USED OR UNUSED):		
Nick Dalton, 8 workers		Joe Coleman & Son		Soilmec SR-30 Drill Rig		
				CAT 326 Excavator		
				CAT 725 Haul Truck		
				Gator UTV		
				Bobcat UTV		
				McElroy TracStar Series 2		
TESTS COMPLETED/OBSERVED *Document all tests in separate spreadsheet or below*						
Pressure tests: #22, 23, 24, 25						
TIME:	ACTIVITIES AND OBSERVATIONS:					
7:15	SCS (J. Miller) on site. JCS gets ready for the day.					
7:45	Trench from header to GEW-59.					
8:30	Trench complete, 6"/3"/2" pipe laid, and connected to header.					
9:00	Finish trenching and get remainder of header in the ground.					
9:30	Pressure tests begin.					
11:30	GEW-39 vacuum riser gets abandoned. Plugs at POI L get installed. Tests #22 & 24 pass.					
12:40	Pressure test #23 fails, open valves get found on line. Pipe gets reinflated for retest. Header is getting tied in at POI H. 8" pipe gets capped at GEW-68. A regular cap gets installed on the well end and a slip cap on the upper end.					
15:00	Bret's checklist gets complete. Section around GEW-59 cannot be completely backfilled because hillside has become too slick. Ryan, the landfill manager, has approved JCS leaving area as is. 2" pipe gets tied in with isolation valve.					
15:45	Pressure test #25 (retest of #23) passes. 3" pipe gets tied in with isolation valves.					
18:05	Area is backfilled/graded. The project is complete. JCS packs up their equipment. SCS off site.					
QUANTITIES:	DESCRIPTION OF MATERIAL(S) INSTALLED OR DELIVERED:					
40'	6" pipe					
OBSERVER: Jenna Miller						
SCS ENGINEERS						

Appendix B

Record Documentation

B1 – As-constructed Drawings

T:\27225516.00\AUTOCAD\LOESS HILLS 2025 GCCS EXP_AS-CONSTRUCTED V0.0.DWG



LEGEND

EXISTING LFG PIPE

EXISTING AIR/LIQUID CONVEYANCE PIPE

CONSTRUCTED 6" LFG PIPE

CONSTRUCTED 8" LFG PIPE

CONSTRUCTED 12" LFG PIPE

CONSTRUCTED AIR SUPPLY/LIQUID CONVEYANCE PIPE

ROAD CROSSING

2' CONTOURS

10' CONTOURS

EXISTING LFG EXTRACTION WELL

CONSTRUCTED LFG EXTRACTION WELL

CONSTRUCTED LFG ISOLATION VALVE

CONSTRUCTED AIR SUPPLY/LIQUID CONVEYANCE ISOLATION VALVE

CONSTRUCTED LIQUID CONVEYANCE CLEANOUT

NOTES:

EXISTING SITE LAYOUT FROM AS-CONSTRUCTED SURVEYS OF GCCS INSTALLATION AND EXPANSION PROJECTS PROVIDED BY IOWA WASTE SERVICES, LLC.

EXISTING TOPOGRAPHY FROM SURVEY CONDUCTED SEPTEMBER 16, 2025, PROVIDED BY IOWA WASTE SERVICES, LLC.

PIPES SHOWN ADJACENT TO EACH OTHER ARE LOCATED IN THE SAME TRENCH. SPACING OF PIPES IN TRENCH NOT SHOWN TO SCALE. WHERE SEVERAL PIPES ARE SHOWN TOGETHER, CONSTRUCTED LFG PIPE REPRESENTS THE SURVEYED ALIGNMENT OF ALL PIPES.

CONSTRUCTED LFG PIPE ALIGNMENTS AND LFG EXTRACTION WELL LOCATIONS FROM SURVEY CONDUCTED BY TD2 ON DECEMBER 16, 2025.

ABANDONED LFG EXTRACTION WELLS AND PIPE NOT SHOWN FOR CLARITY. SEE DRAWING NO. 2 FOR ABANDONED INFRASTRUCTURE.

20000400

0

200

400

SCALEFEET

ISSUED FOR REVIEW

1

CK

BY

DATE

REV

CONSTRUCTED INFRASTRUCTURE

LOESS HILLS LANDFILL

2025 GCCS EXPANSION

IOWA WASTE SERVICES, LLC.

59722 290TH STREET

MALVERN, IA

SCS ENGINEERS

14755 GROVER STREET

OMAHA, NE 68144

PH. (402) 884-6202 FAX. (913) 881-0012

CADD FILE:

LOESS HILLS 2025 GCCS EXP_AS-CONSTRUCTED V0.0.DWG

DATE:

1/13/26

DRAWING NO.

1

B2 – LFG Extraction Well Boring Logs

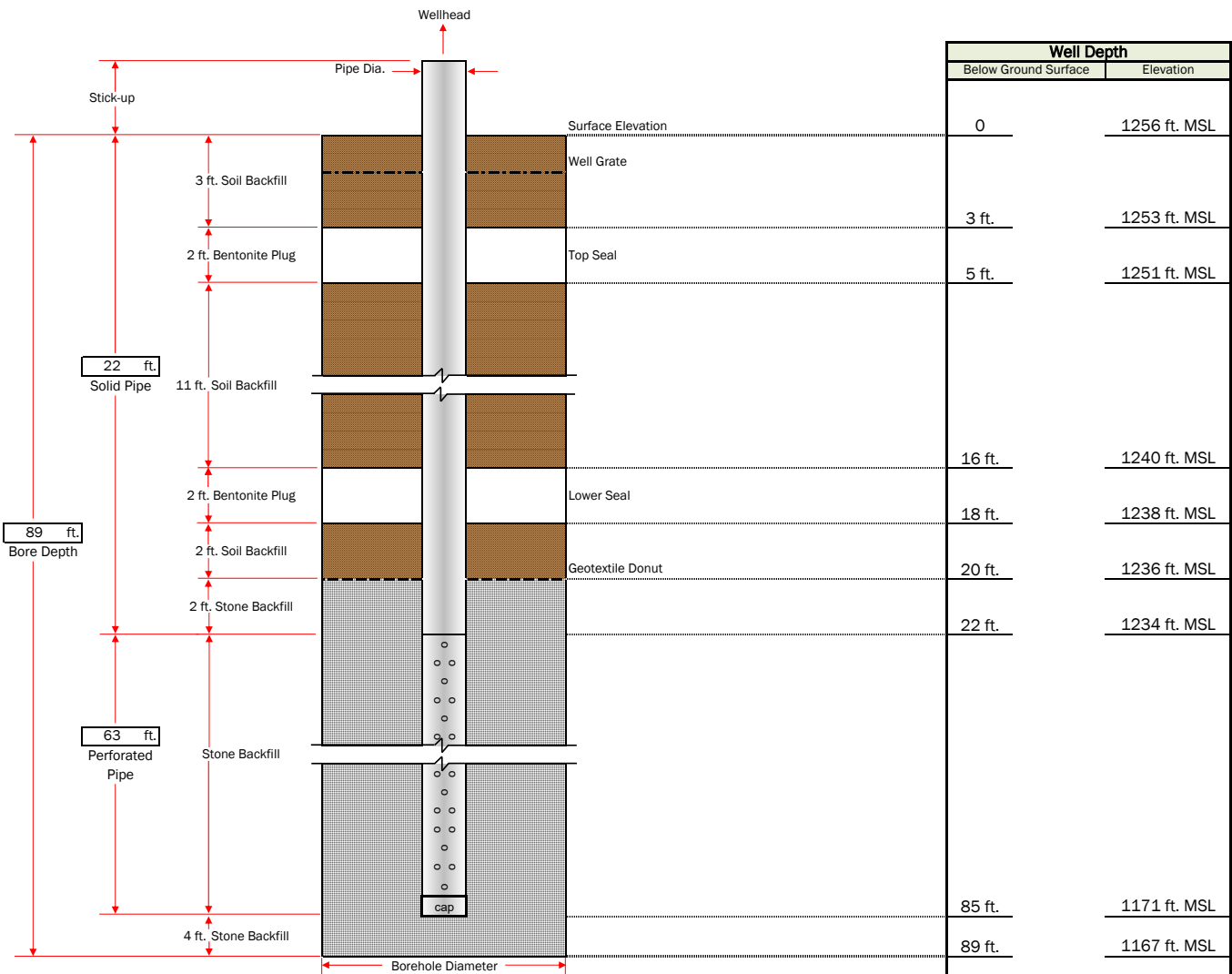
Project Name: 2025 GCCS Expansion
 Project Site: Loess Hills Landfill
 Project Location: Malvern, IA
 Site Technician:
 Contr. Supervisor: Nick Dalton (JCS)
 CQA Technical Staff: Ben Graham (SCS)
 Client Contact: Bret Stephens (IWS)

Start Date: 11/14/2025
 Completion Date: 11/14/2025
 Weather: Sunny
 Design Firm: SCS Engineers
 Surveying Firm: TD2
 Drilling Company: Joe Coleman & Son
 Drill Rig Type: Soilmecc SR-30

Well ID: GEW-36R
 Northing Coordinate: 4515.72
 Easting Coordinate: 3061.12
 Surface Elv (ft. msl): 1255.60
 Base Elv (ft. msl): 1166.60

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Notified
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	N/A
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1"-3" Washed N	Perf. (ft. bgs)	63	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	89
Well Depth (ft. bgs)	85



Field Notes/Comments:

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	15% Soil, 25% Plastic, 15% Paper, 10% Wood, 40% Rubber,	75° F	Some	Normal	Discernible	None Discernible
15						
20	10% Soil, 40% Plastic, 20% Paper, 20% Wood, 10% Rubber,	103° F	Moderate	Normal	Discernible	Discernible
25						
30	85% Soil, 5% Plastic, 5% Wood, 5% Rubber,	99° F	Moderate	Normal	Discernible	Discernible
35						
40	30% Soil, 20% Plastic, 20% Paper, 10% Wood, 20% Rubber,	108° F	Moderate	Normal	Discernible	Discernible
45						
50	30% Soil, 30% Plastic, 15% Paper, 15% Wood, 10% Rubber,	102° F	Moderate	Normal	Discernible	Discernible
55						
60	20% Soil, 40% Plastic, 20% Paper, 10% Wood, 10% Rubber,	116° F	Much	Normal	Discernible	Discernible
65						
70	40% Soil, 10% Rubber, and Some 50	113° F	Severe	Normal	Discernible	Discernible
75						
80	15% Soil, 40% Plastic, 30% Paper, 10% Wood, 5% Rubber,	119° F	Severe	Normal	Discernible	Discernible
85						
89	15% Soil, 30% Plastic, 10% Paper, 15% Wood, 10% Rubber, and Some 20	116° F	Severe	Normal	Discernible	Discernible
95						
100						
105						
110						
115						
120						
125						
130						
135						
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285						
290						
295						
300						

NOTES:

1. Decomposition Content:

Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:

Little - Printed material is readable. Refuse looks freshly buried.

Some

Moderate - Printed material not legible, branches intact.

Much

Severe - Black/brown mucky material.

3. Moisture Content Scale:

Dry Refuse (15%)-No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.

Normal (20-25%)-Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.

Damp (25-35%)-Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.

Wet (35-50%)-Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.

Saturated (50%)-Mud or free water present.

4. Odor Notations:

None Discernible - No discernible odor above background odor

Discernible - Little to some discernible odor above background (e.g. LFG, rotten egg, char, etc.)

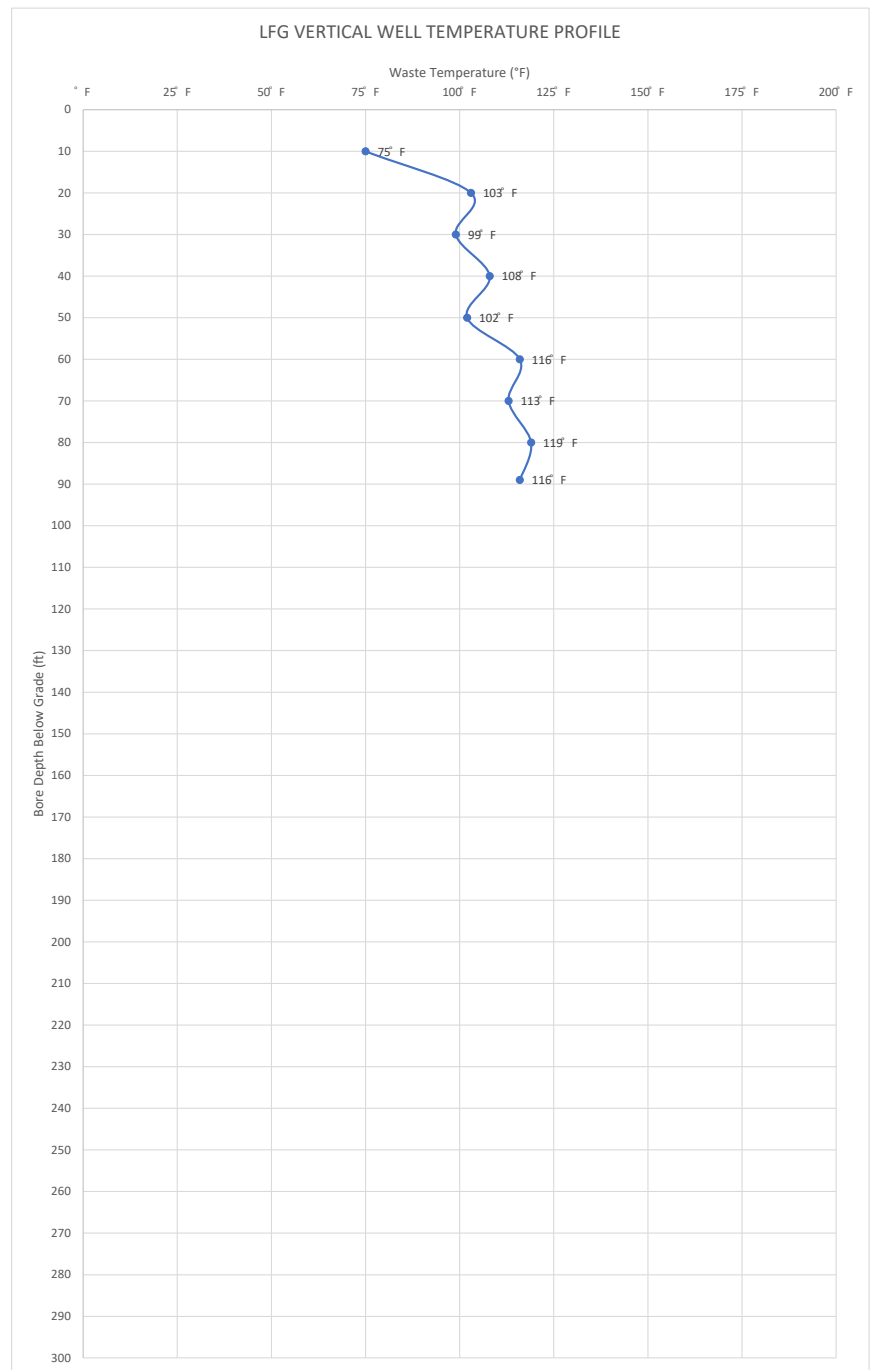
Extremely Discernible - Pungant odor

5. Gas Pressure Observation:

None Discernible - No noticeable heat/gas vapor signature

Discernible - Little to some visible heat/gas vapor signatures

Extremely Discernible - Constant flow of heat/gas vapor signature visible

[illegible]

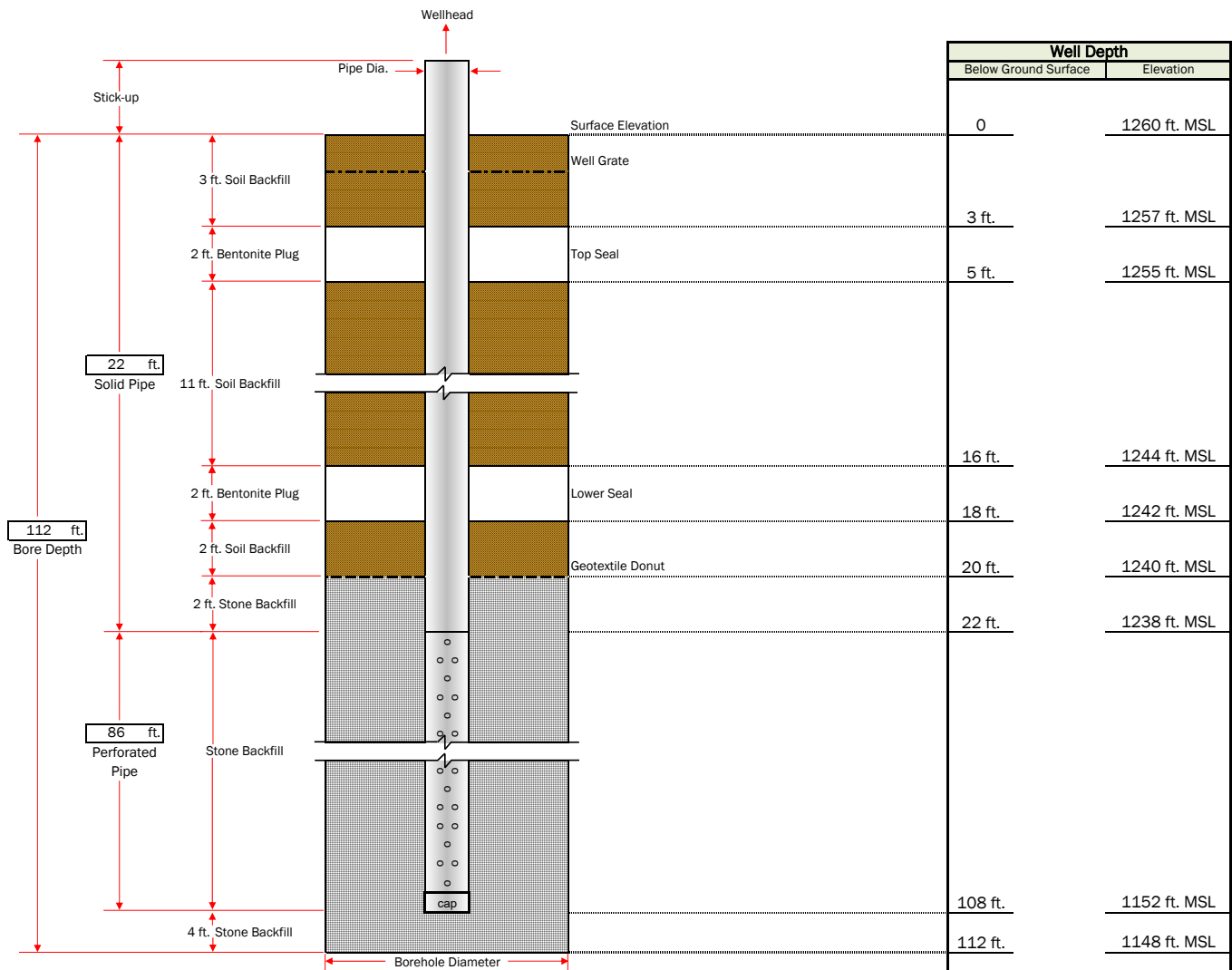
Project Name: 2025 GCCS Expansion
 Project Site: Loess Hills Landfill
 Project Location: Malvern, IA
 Site Technician:
 Contr. Supervisor: Nick Dalton (JCS)
 CQA Technical Staff: Ben Graham (SCS)
 Client Contact: Bret Stephens (IWS)

Start Date: 11/22/2025
 Completion Date: 11/22/2025
 Weather: Sunny
 Design Firm: SCS Engineers
 Surveying Firm: TD2
 Drilling Company: Joe Coleman & Son
 Drill Rig Type: Soilmec SR-30

Well ID: GEW-38R
 Northing Coordinate: 4605.03
 Easting Coordinate: 3426.50
 Surface Elv (ft. msl): 1259.57
 Base Elv (ft. msl): 1147.57

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Notified
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	N/A
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1"-3" Washed N	Perf. (ft. bgs)	86	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	112
Well Depth (ft. bgs)	108



Field Notes/Comments:

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	15% Soil, 25% Plastic, 15% Paper, 10% Wood, 40% Rubber,	112° F	Some	Normal	Discernible	Discernible
15						
20	10% Soil, 40% Plastic, 20% Paper, 20% Wood, 10% Rubber,	118° F	Some	Normal	Extremely Discernible	Discernible
25						
30	85% Soil, 5% Plastic, 5% Wood, 5% Rubber,	105° F	Moderate	Normal	Discernible	Discernible
35						
40	30% Soil, 20% Plastic, 20% Paper, 10% Wood, 20% Rubber,	95° F	Moderate	Normal	Discernible	Discernible
45						
50	30% Soil, 30% Plastic, 15% Paper, 15% Wood, 10% Rubber,	101° F	Much	Damp	Discernible	Discernible
55						
60	20% Soil, 40% Plastic, 20% Paper, 10% Wood, 10% Rubber,	126° F	Much	Normal	Discernible	Discernible
65						
70	40% Soil, 10% Rubber, and Some 50	120° F	Severe	Normal	Discernible	Discernible
75						
80	15% Soil, 40% Plastic, 30% Paper, 10% Wood, 5% Rubber,	106° F	Much	Normal	Discernible	Discernible
85						
90	15% Soil, 30% Plastic, 10% Paper, 15% Wood, 10% Rubber, and Some 20	118° F	Much	Damp	Discernible	Discernible
95						
100	15% Soil, 35% Plastic, 10% Paper, 10% Wood, 10% Textile/Carpet, 10% Rubber,	123° F	Much	Damp	Discernible	Discernible
105						
110	25% Soil, 25% Plastic, 10% Paper, 5% Wood, 10% Rubber, and Some 25	109° F	Much	Damp	Discernible	Discernible
115						
120						
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300						

NOTES:

1. Decomposition Content:

Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:

Little - Printed material is readable. Refuse looks freshly buried.

Some

Moderate - Printed material not legible, branches intact.

Much

Severe - Black/brown mucky material.

3. Moisture Content Scale:

Dry Refuse (15%)-No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.

Normal (20-25%)-Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.

Damp (25-35%)-Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.

Wet (35-50%)-Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.

Saturated (50%)-Mud or free water present.

4. Odor Notations:

None Discernible - No discernible odor above background odor

Discernible - Little to some discernible odor above background (e.g. LFG, rotten egg, char, etc.)

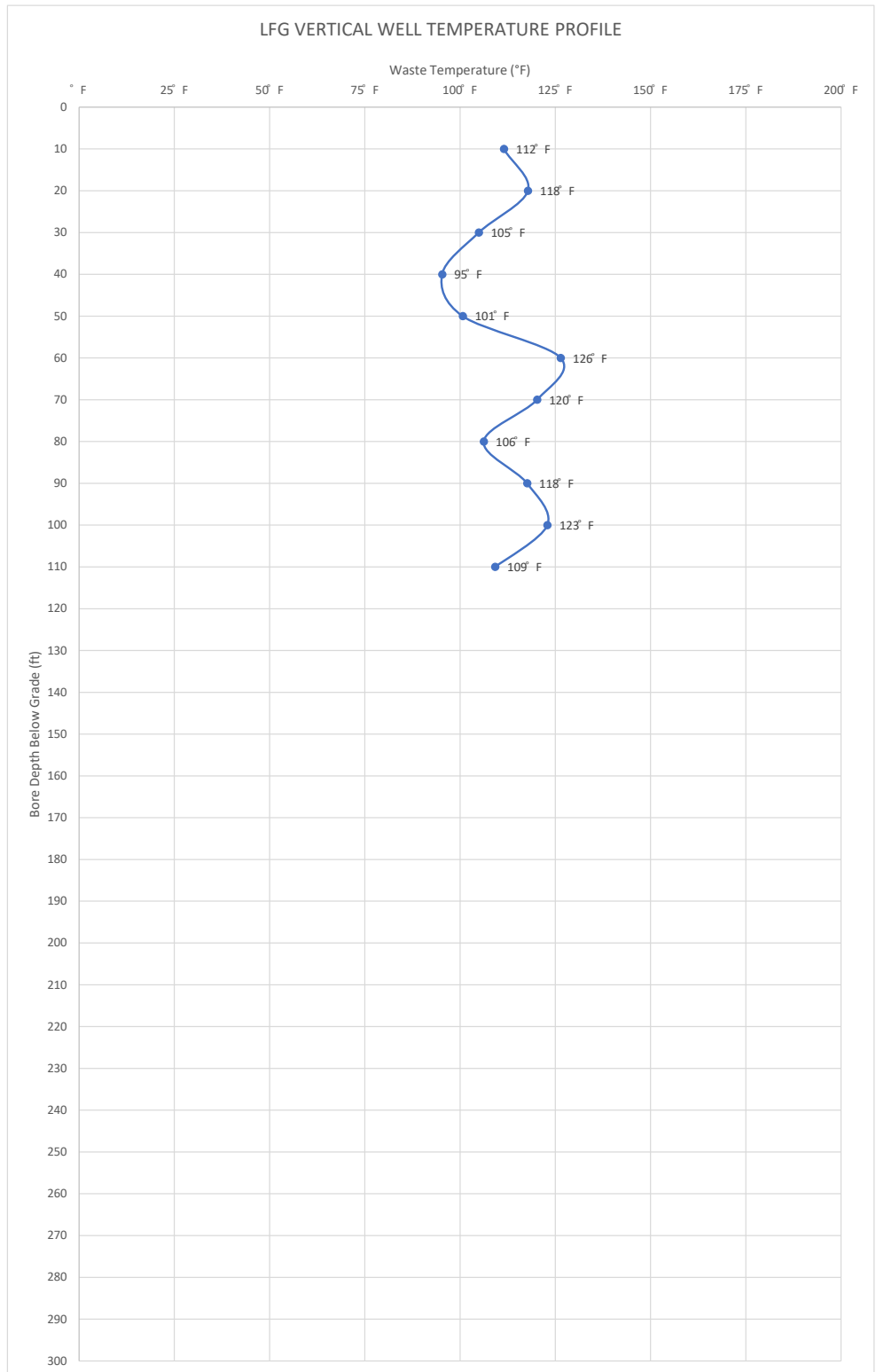
Extremely Discernible - Pungant odor

5. Gas Pressure Observation:

None Discernible - No noticeable heat/gas vapor signature

Discernible - Little to some visible heat/gas vapor signatures

Extremely Discernible - Constant flow of heat/gas vapor signature visible

[illegible]

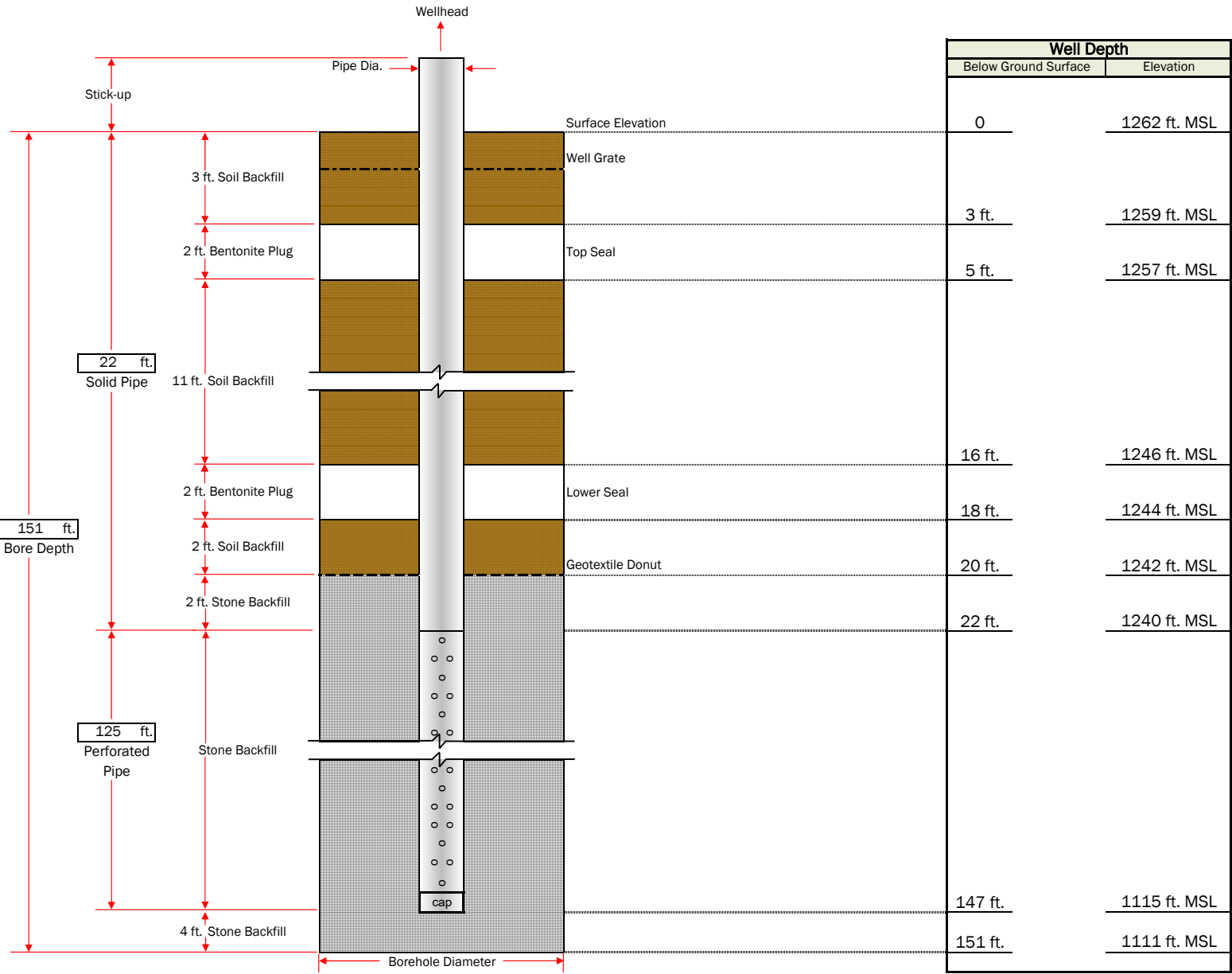
Project Name: 2025 GCCS Expansion
Project Site: Loess Hills Landfill
Project Location: Malvern, IA
Site Technician:
Contr. Supervisor: Nick Dalton (JCS)
CQA Technical Staff: Jenna Miller (SCS)
Client Contact: Bret Stephens (IWS)

Start Date: 11/6/2025
Completion Date: 11/6/2025
Weather: Overcast
Design Firm: SCS Engineers
Surveying Firm: TD2
Drilling Company: Joe Coleman & Son
Drill Rig Type: Soilmec SR-30

Well ID: GEW-42R
Northing Coordinate: 4704.07
Easting Coordinate: 3275.54
Surface Elv (ft. msl): 1262.18
Base Elv (ft. msl): 1111.18

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Notified
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	N/A
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1"-3" Washed N	Perf. (ft. bgs)	125	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	151
Well Depth (ft. bgs)	147



Field Notes/Comments:

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	50% Soil, 30% Plastic, 5% Wood, 5% Textile/Carpet, 10% Rubber,	86° F				
15						
20	40% Soil, 25% Plastic, 15% Wood, 10% Textile/Carpet, 5% Rubber, and Some 5	105° F				
25						
30						
35						
40						
45						
50	40% Soil, 20% Plastic, 10% Wood, 15% Textile/Carpet, 10% Rubber,5% Rocks,	95° F				
55						
60	30% Soil, 30% Plastic, 10% Wood, 25% Textile/Carpet, 5% Rubber,	100° F				
65						
70	20% Soil, 30% Plastic, 30% Wood, 20% Textile/Carpet,	100° F				
75						
80	20% Soil, 20% Plastic, 40% Wood, 10% Textile/Carpet, 10% Rubber,	108° F				
85						
90	20% Soil, 30% Plastic, 30% Wood, 20% Rubber,	110° F				
95						
100	25% Soil, 25% Plastic, 35% Wood, 15% Rubber,	125° F				
105						
110	20% Soil, 40% Plastic, 15% Wood, 15% Textile/Carpet, 10% Rubber,	125° F				
115						
120	20% Soil, 30% Plastic, 30% Wood, 5% Textile/Carpet, 15% Rubber,	117° F				
125						
130	15% Soil, 30% Plastic, 15% Wood, 15% Textile/Carpet, 25% Rubber,	111° F				
135						
140	15% Soil, 30% Plastic, 15% Wood, 25% Textile/Carpet, 15% Rubber,	114° F				
145						
150	90% Soil, and Some 10	91° F				
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300						

NOTES:

1. Decomposition Content:

Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:

Little - Printed material is readable. Refuse looks freshly buried.

Some

Moderate - Printed material not legible, branches intact.

Much

Severe - Black/brown mucky material.

3. Moisture Content Scale:

Dry Refuse (15%)- No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.

Normal (20-25%)- Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.

Damp (25-35%)- Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.

Wet (35-50%)- Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.

Saturated (50%)- Mud or free water present.

4. Odor Notations:

None Discernible - No discernible odor above background odor

Discernible - Little to some discernible odor above background (e.g. LFG, rotten egg, char, etc.)

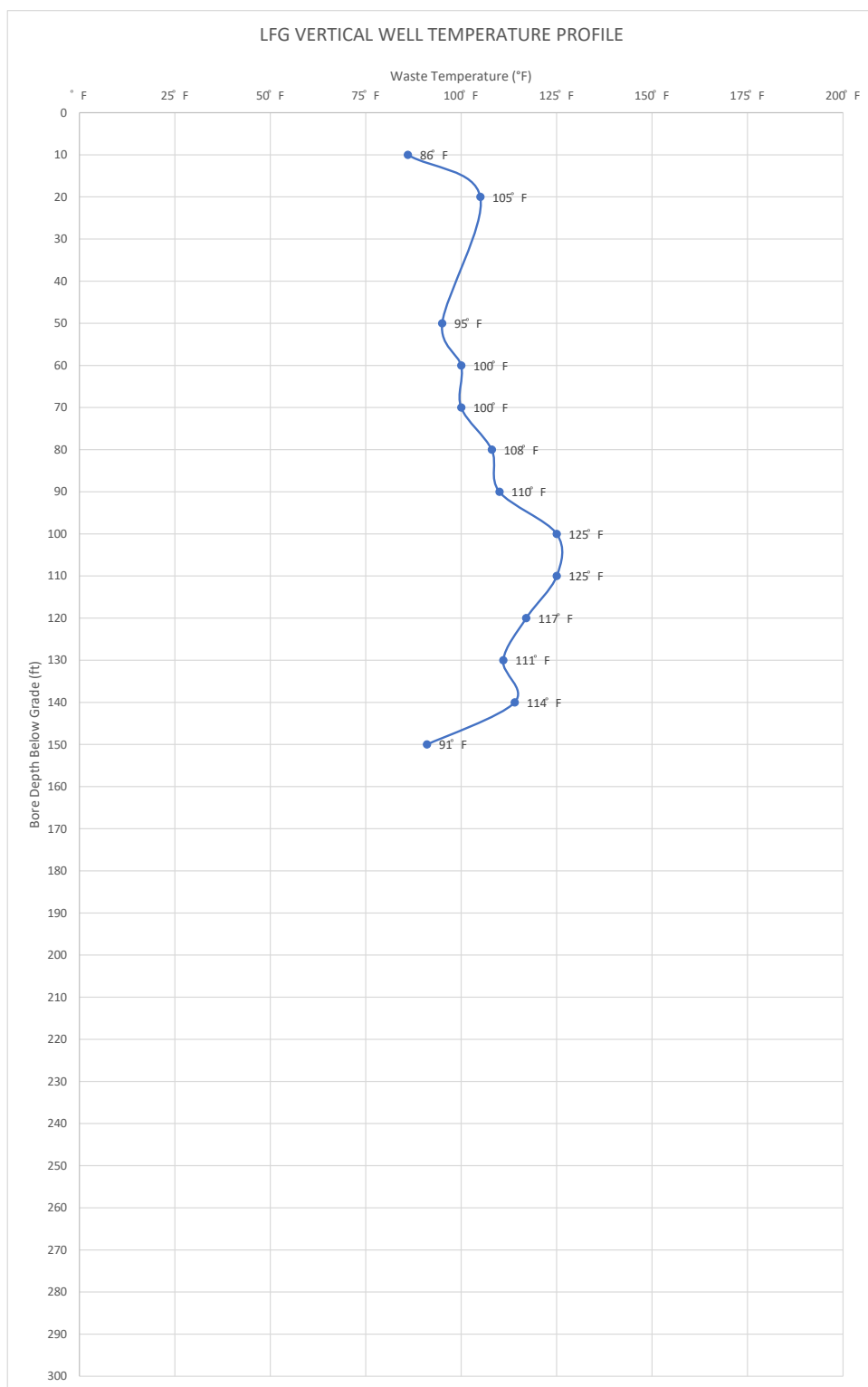
Extremely Discernible - Pungant odor

5. Gas Pressure Observation:

None Discernible - No noticable heat/gas vapor signature

Discernible - Little to some visible heat/gas vapor signatures

Extremely Discernible - Constant flow of heat/gas vapor signature visible

[illegible]

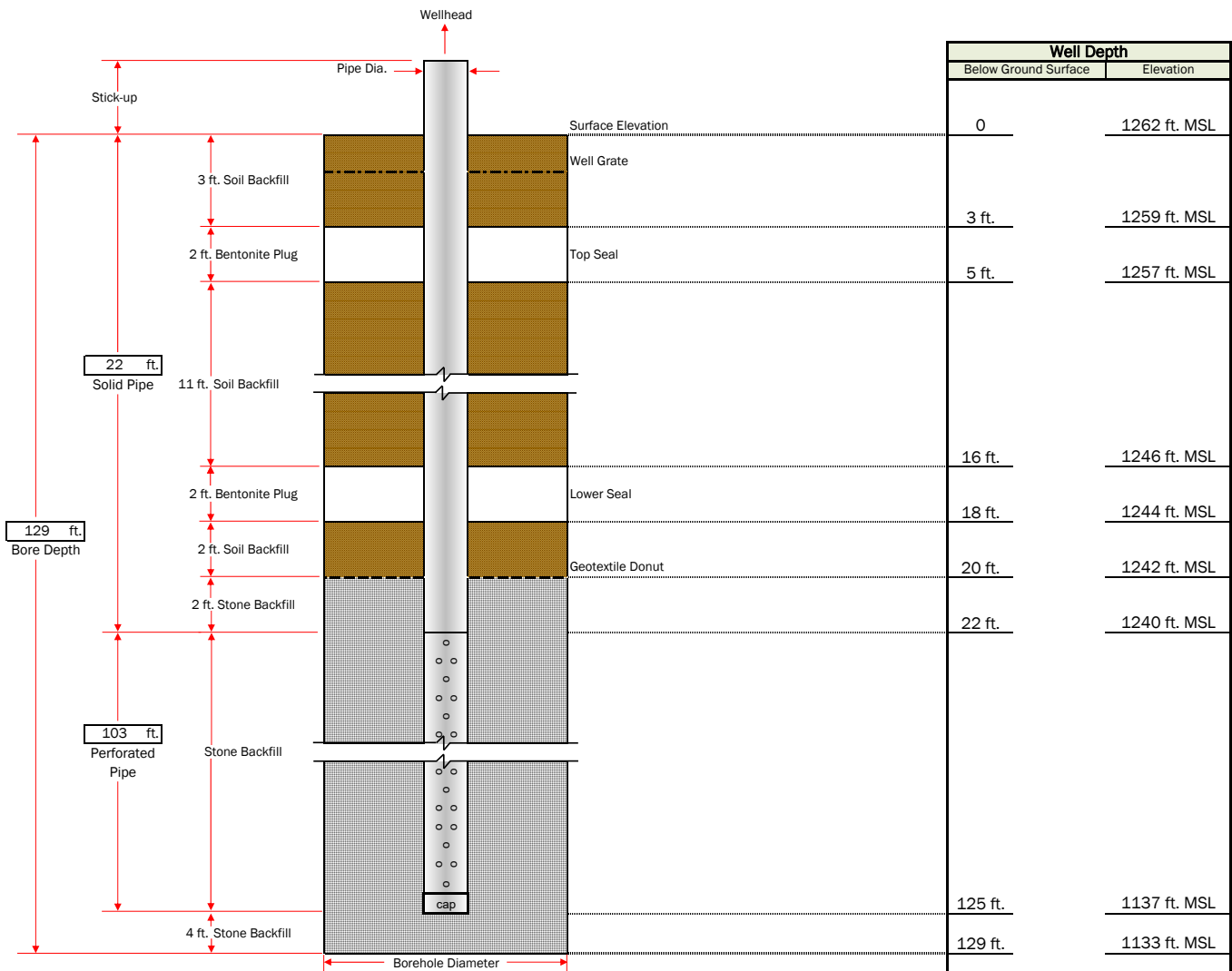
Project Name: 2025 GCCS Expansion
 Project Site: Loess Hills Landfill
 Project Location: Malvern, IA
 Site Technician:
 Contr. Supervisor: Nick Dalton (JCS)
 CQA Technical Staff: Ben Graham (SCS)
 Client Contact: Bret Stephens (IWS)

Start Date: 11/14/2025
 Completion Date: 11/14/2025
 Weather: Sunny
 Design Firm: SCS Engineers
 Surveying Firm: TD2
 Drilling Company: Joe Coleman & Son
 Drill Rig Type: Soilmecc SR-30

Well ID: GEW-43R
 Northing Coordinate: 4740.26
 Easting Coordinate: 3422.70
 Surface Elv (ft. msl): 1262.17
 Base Elv (ft. msl): 1133.17

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Notified
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	N/A
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1" 3" Washed N	Perf. (ft. bgs)	103	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	129
Well Depth (ft. bgs)	125



Field Notes/Comments:

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	10% Soil, 40% Plastic, 35% Paper, 15% Wood,	112° F	Moderate	Normal	Discernible	Discernible
15						
20	5% Soil, 40% Plastic, 30% Paper, 20% Wood, and Some 5	131° F	Moderate	Normal	Discernible	Discernible
25						
30	10% Soil, 30% Plastic, 30% Paper, 20% Wood, 10% Textile/Carpet,	117° F	Moderate	Normal	Discernible	Discernible
35						
40	15% Soil, 40% Plastic, 25% Paper, 15% Wood, 5% Textile/Carpet,	117° F	Moderate	Normal	Discernible	Discernible
45						
50	20% Soil, 20% Plastic, 15% Paper, 30% Wood, 5% Textile/Carpet, and Some 10	117° F	Much	Normal	Discernible	Discernible
55						
60	15% Soil, 30% Plastic, 15% Paper, 25% Wood, 5% Textile/Carpet, 10% Rubber,	121° F	Much	Normal	Discernible	Discernible
65						
70	15% Soil, 25% Plastic, 15% Paper, 25% Wood, 15% Textile/Carpet, and Some 5	130° F	Much	Damp	Discernible	Discernible
75						
80	10% Soil, 30% Plastic, 10% Paper, 25% Wood, 20% Textile/Carpet, and Some 5	131° F	Much	Normal	Discernible	Discernible
85						
90	15% Soil, 25% Plastic, 5% Paper, 20% Wood, 10% Textile/Carpet, 15% Rubber, and Some 10	148° F	Severe	Damp	Discernible	Discernible
95						
100	10% Soil, 35% Plastic, 10% Paper, 15% Wood, 15% Textile/Carpet, 10% Rubber, and Some 5	142° F	Much	Damp	Discernible	Discernible
105						
110	15% Soil, 30% Plastic, 10% Paper, 30% Wood, 15% Textile/Carpet,	128° F	Much	Damp	Discernible	Discernible
115						
120	10% Soil, 30% Plastic, 20% Paper, 30% Wood, and Some 10	124° F	Severe	Wet	Discernible	Discernible
129	10% Soil, 25% Plastic, 15% Wood, and Some 50	123° F	Severe	Saturated	Discernible	Discernible
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300						

NOTES:

1. Decomposition Content:

Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:

Little - Printed material is readable. Refuse looks freshly buried.

Some

Moderate - Printed material not legible, branches intact.

Much

Severe - Black/brown mucky material.

3. Moisture Content Scale:

Dry Refuse (15%)- No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.

Normal (20-25%)- Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.

Damp (25-35%)- Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.

Wet (35-50%)- Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.

Saturated (50%)- Mud or free water present.

4. Odor Notations:

None Discernible - No discernible odor above background odor

Discernible - Little to some discernible odor above background (e.g. LFG, rotten egg, char, etc.)

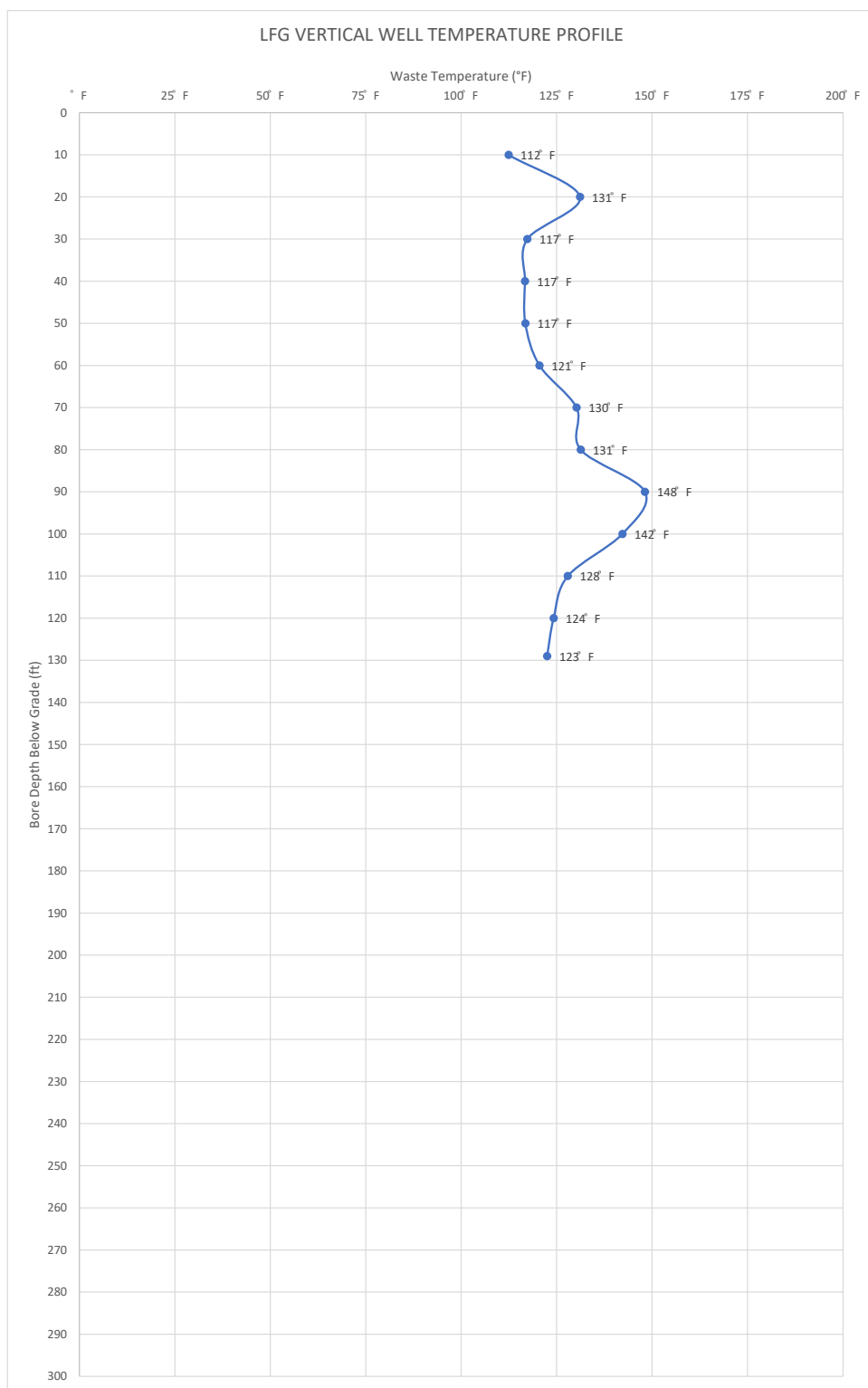
Extremely Discernible - Pungant odor

5. Gas Pressure Observation:

None Discernible - No noticeable heat/gas vapor signature

Discernible - Little to some visible heat/gas vapor signatures

Extremely Discernible - Constant flow of heat/gas vapor signature visible

[illegible]

Project Name: 2025 GCCS Expansion

Project Site: Loess Hills Landfill

Project Location: Malvern, IA

Site Technician:

Contr. Supervisor: Nick Dalton (JCS)

CQA Technical Staff: Jenna Miller (SCS)

Client Contact: Bret Stephens (IWS)

Start Date: 11/5/2025

Completion Date: 11/5/2025

Weather: Sunny

Design Firm: SCS Engineers

Surveying Firm: TD2

Drilling Company: Joe Coleman & Son

Drill Rig Type: Soilmec SR-30

Well ID: GEW-45R

Northing Coordinate: 4721.98

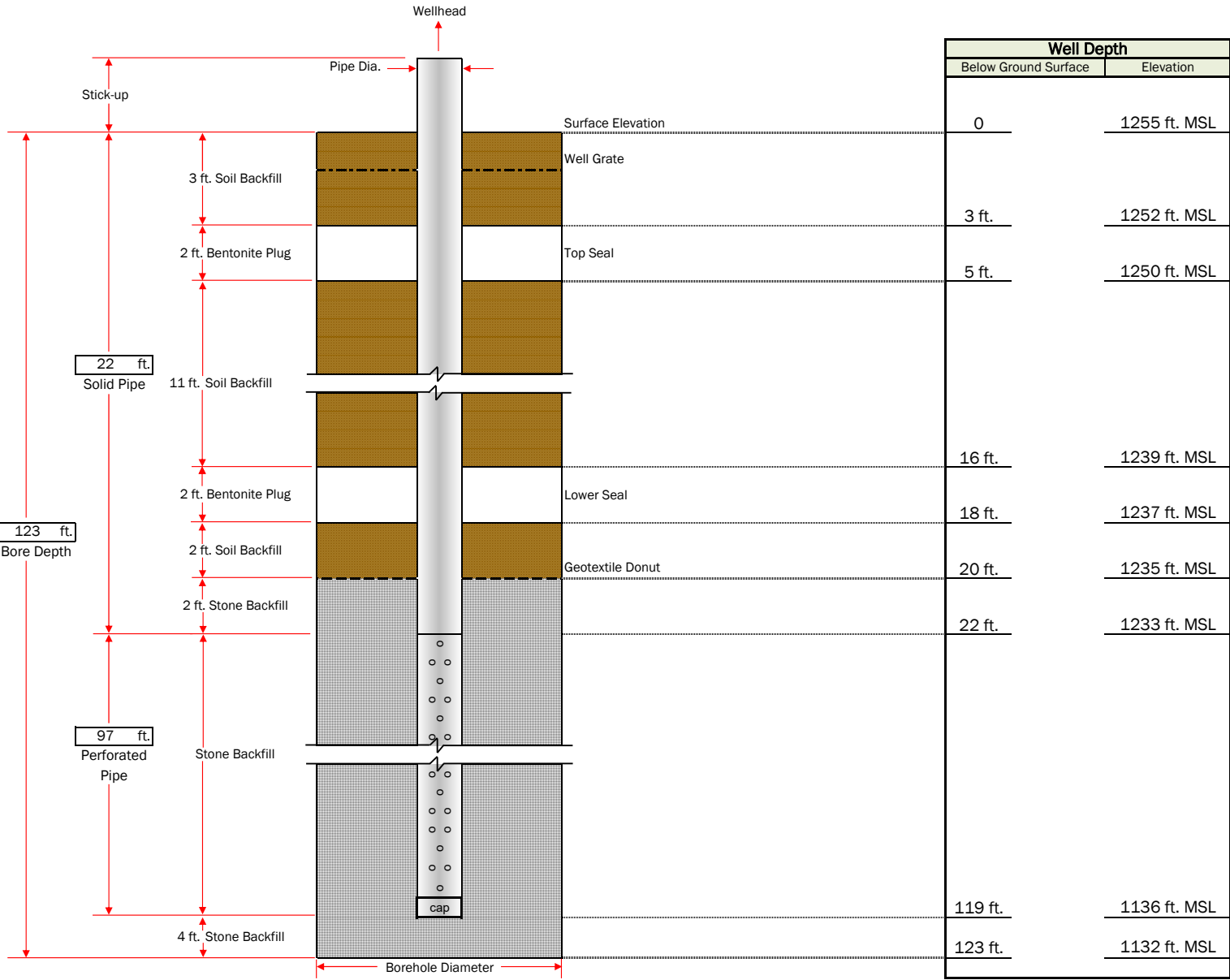
Easting Coordinate: 2922.39

Surface Elv. (ft. msl): 1255.21

Base Elv. (ft. msl): 1132.21

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Notified
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	N/A
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1"-3" Washed N	Perf. (ft. bgs)	97	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	123
Well Depth (ft. bgs)	119



Field Notes/Comments:
Drilling stopped at 123'. Last couple of buckets have only been clay, no trash. It's believed to have hit an old haul road. Perforated pipe length has been reduced by 14'.

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	15% Soil, 50% Plastic, 5% Paper, 15% Textile/Carpet, 15% Rubber,	68° F				
15						
20	20% Soil, 40% Plastic, 10% Wood, 30% Textile/Carpet,	80° F				
25						
30	25% Soil, 35% Plastic, 30% Textile/Carpet, 10% Rubber,	81° F				
35						
40	20% Soil, 40% Plastic, 5% Wood, 30% Textile/Carpet, 5% Rubber,	72° F				
45						
50	25% Soil, 35% Plastic, 5% Wood, 25% Textile/Carpet, 10% Rubber,	92° F				
55						
60	30% Soil, 35% Plastic, 5% Paper, 5% Wood, 15% Textile/Carpet, 10% Rubber,	111° F				
65						
70	30% Soil, 40% Plastic, 5% Paper, 20% Textile/Carpet, 5% Rubber,	111° F				
75						
80	30% Soil, 40% Plastic, 25% Textile/Carpet, 5% Rubber,	92° F				
85						
90	30% Soil, 40% Plastic, 5% Wood, 20% Textile/Carpet, 5% Rubber,	88° F				
95						
100	30% Soil, 35% Plastic, 15% Textile/Carpet, 15% Rubber, and Some 5	91° F				
105						
110	40% Soil, 40% Plastic, 5% Paper, 10% Textile/Carpet, 5% Rubber,	91° F				
115						
120	25% Soil, 20% Plastic, 5% Textile/Carpet, 50% Rocks,	104° F				
125						
130						
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290						
295						
300						

NOTES:

1. Decomposition Content:

Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:

Little - Printed material is readable. Refuse looks freshly buried.

Some

Moderate - Printed material not legible, branches intact.

Much

Severe - Black/brown mucky material.

3. Moisture Content Scale:

Dry Refuse (15%)- No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.

Normal (20-25%)- Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.

Damp (25-35%)- Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.

Wet (35-50%)- Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.

Saturated (50%)- Mud or free water present.

4. Odor Notations:

None Discernible - No discernible odor above background odor

Discernible - Little to some discernible odor above background (e.g. LFG, rotten egg, char, etc.)

Extremely Discernible - Pungant odor

5. Gas Pressure Observation:

None Discernible - No noticeable heat/gas vapor signature

Discernible - Little to some visible heat/gas vapor signatures

Extremely Discernible - Constant flow of heat/gas vapor signature visible

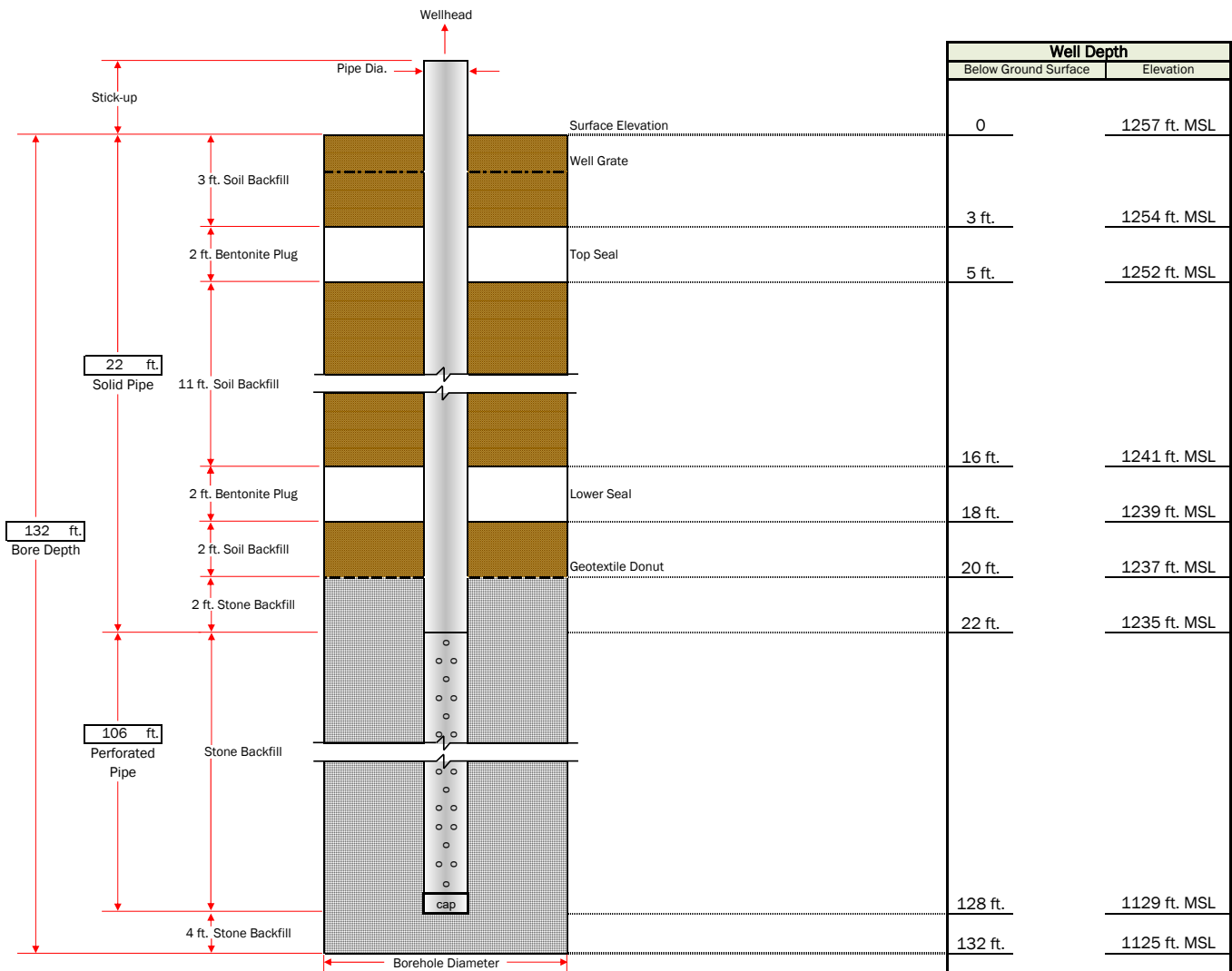
Project Name: 2025 GCCS Expansion
 Project Site: Loess Hills Landfill
 Project Location: Malvern, IA
 Site Technician:
 Contr. Supervisor: Nick Dalton (JCS)
 CQA Technical Staff: Jenna Miller (SCS)
 Client Contact: Bret Stephens (IWS)

Start Date: 11/4/2025
 Completion Date: 11/4/2025
 Weather: Sunny
 Design Firm: SCS Engineers
 Surveying Firm: TD2
 Drilling Company: Joe Coleman & Son
 Drill Rig Type: Soilmecc SR-30

Well ID: GEW-46R
 Northing Coordinate: 4841.80
 Easting Coordinate: 2905.39
 Surface Elv (ft. msl): 1257.19
 Base Elv (ft. msl): 1125.19

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Notified
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	N/A
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1"-3" Washed N	Perf. (ft. bgs)	106	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	132
Well Depth (ft. bgs)	128

**Field Notes/Comments:**

Unboreable object hit at 132 ft. This is the end depth

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	10% Soil, 80% Plastic, 5% Paper, 5% Wood,	88° F				
15						
20	30% Soil, 30% Plastic, 5% Paper, 10% Wood, 25% Textile/Carpet,	86° F				
25						
30	25% Soil, 45% Plastic, 30% Textile/Carpet,	89° F				
35						
40	40% Soil, 30% Plastic, 10% Wood, 20% Textile/Carpet,	80° F				
45						
50	20% Soil, 40% Plastic, 5% Wood, 30% Textile/Carpet, 5% Rubber,	71° F				
55						
60	20% Soil, 35% Plastic, 10% Wood, 35% Textile/Carpet,	100° F				
65						
70	30% Soil, 30% Plastic, 5% Paper, 30% Textile/Carpet, 5% Rubber,	115° F				
75						
80	30% Soil, 30% Plastic, 5% Wood, 30% Textile/Carpet, 5% Rubber,	126° F				
85						
90	30% Soil, 35% Plastic, 10% Wood, 20% Textile/Carpet, 5% Rubber,	131° F				
95						
100	30% Soil, 40% Plastic, 5% Wood, 20% Textile/Carpet, 5% Rubber,	141° F				
105						
110	20% Soil, 40% Plastic, 5% Wood, 30% Textile/Carpet, 5% Rubber,	126° F				
115						
120	20% Soil, 35% Plastic, 5% Wood, 30% Textile/Carpet, 5% Rubber, and Some 5	111° F				
125						
130	15% Soil, 35% Plastic, 10% Wood, 40% Textile/Carpet,	103° F				
135						
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NOTES:

1. Decomposition Content:

Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:

Little - Printed material is readable. Refuse looks freshly buried.

Some

Moderate - Printed material not legible, branches intact.

Much

Severe - Black/brown mucky material.

3. Moisture Content Scale:

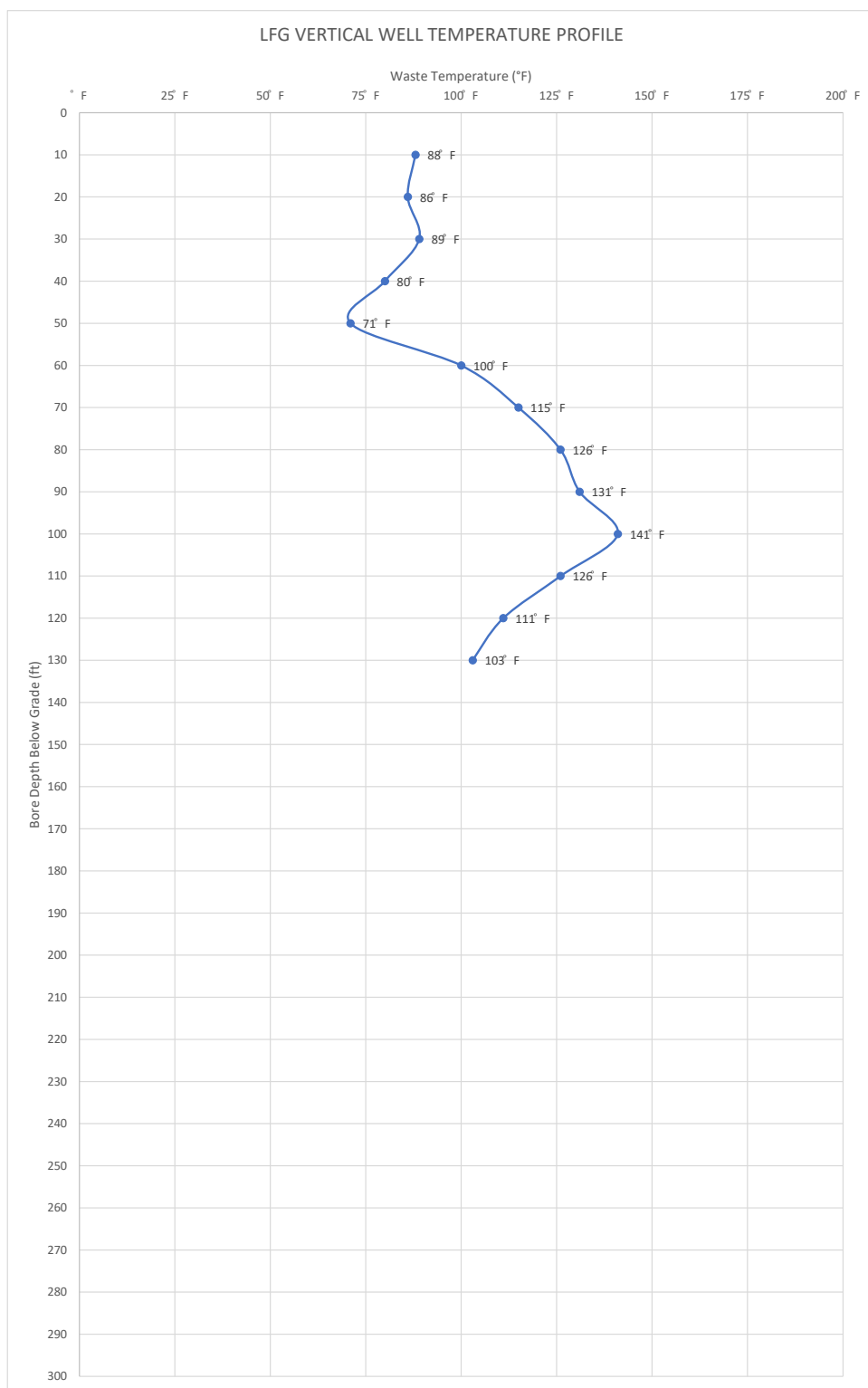
Dry Refuse (15%)- No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.

Normal (20-25%)- Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.

Damp (25-35%)- Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.

Wet (35-50%)- Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.

Saturated (50%)- Mud or free water present.

[illegible]

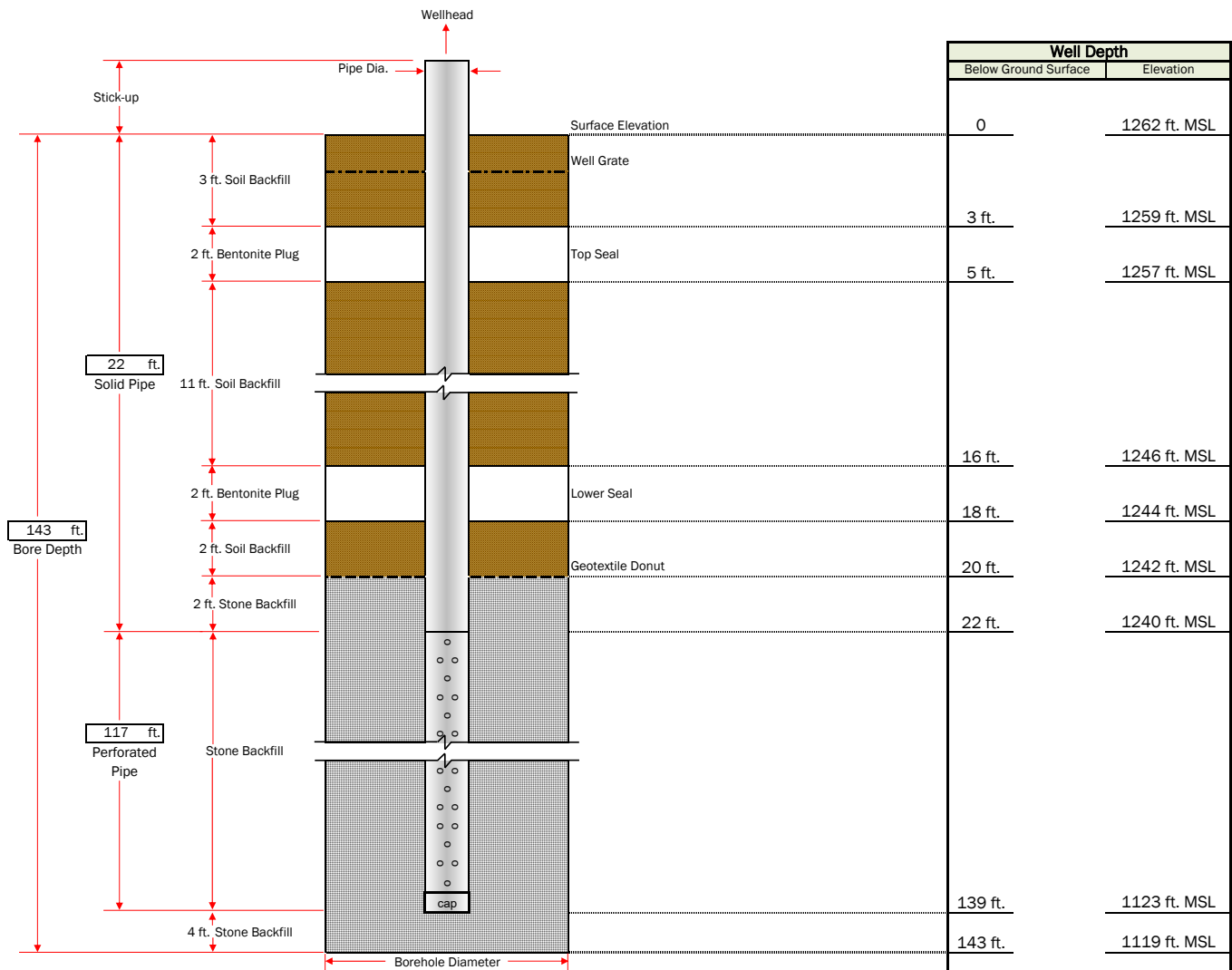
Project Name: 2025 GCCS Expansion
 Project Site: Loess Hills Landfill
 Project Location: Malvern, IA
 Site Technician:
 Contr. Supervisor: Nick Dalton (JCS)
 CQA Technical Staff: Ben Graham (SCS)
 Client Contact: Bret Stephens (IWS)

Start Date: 11/11/2025
 Completion Date: 11/11/2025
 Weather: Cloudy
 Design Firm: SCS Engineers
 Surveying Firm: TD2
 Drilling Company: Joe Coleman & Son
 Drill Rig Type: Soilmecc SR-30

Well ID: GEW-47R
 Northing Coordinate: 4824.36
 Easting Coordinate: 3062.91
 Surface Elv (ft. msl): 1262.21
 Base Elv (ft. msl): 1119.21

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Notified
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	No
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1"-3" Washed N	Perf. (ft. bgs)	117	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	143
Well Depth (ft. bgs)	139



Field Notes/Comments:

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	30% Soil, 20% Plastic, 20% Paper, 20% Wood, and Some 10	114° F	Moderate	Normal	Discernible	Discernible
15						
20	20% Soil, 20% Plastic, 20% Paper, 20% Wood, 20% Textile/Carpet,	118° F	Much	Normal	Discernible	Discernible
25						
30	15% Soil, 30% Plastic, 15% Paper, 15% Wood, 10% Textile/Carpet, and Some 15	131° F	Much	Normal	Discernible	Discernible
35						
40	50% Soil, 15% Plastic, 10% Paper, 15% Wood, 10% Textile/Carpet,	108° F	Moderate	Normal	Discernible	Discernible
45						
50	30% Soil, 15% Plastic, 15% Paper, 5% Wood, 5% Textile/Carpet, 10% Rubber, and Some 20	99° F	Much	Normal	Discernible	Discernible
55						
60	25% Soil, 15% Plastic, 15% Paper, 20% Wood, 15% Textile/Carpet, 10% Rubber,	100° F	Much	Normal	Discernible	Discernible
65						
70	15% Soil, 30% Plastic, 20% Paper, 15% Wood, 15% Textile/Carpet, and Some 5	122° F	Much	Normal	Discernible	Discernible
75						
80	15% Soil, 40% Plastic, 30% Paper, 5% Wood, 10% Textile/Carpet,	116° F	Moderate	Normal	Discernible	Discernible
85						
90	20% Soil, 40% Plastic, 15% Paper, 15% Wood, 10% Textile/Carpet,	113° F	Moderate	Normal	Discernible	Discernible
95						
100	30% Soil, 30% Plastic, 20% Paper, 5% Wood, and Some 15	137° F	Much	Normal	Discernible	Discernible
105						
110	10% Soil, 25% Plastic, 25% Paper, 20% Wood, 5% Textile/Carpet, and Some 15	121° F	Much	Wet	Discernible	Discernible
115						
120	10% Soil, 15% Plastic, 15% Paper, 25% Wood, and Some 35	117° F	Much	Wet	Discernible	Discernible
125						
130	15% Soil, 10% Plastic, 10% Paper, 15% Wood, and Some 50	127° F	Much	Wet	Discernible	Discernible
135						
140	5% Soil, 5% Wood, 5% Textile/Carpet, 5% Rubber, and Some 80	122° F	Severe	Wet	Discernible	Discernible
143	5% Soil, 5% Wood, 5% Textile/Carpet, 5% Rubber, and Some 80	109° F	Severe	Wet	Discernible	Discernible
150						
155						
160						
165						
170						
175						
180						
185						
190						
195						
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285						
290						
295						
300						

NOTES:

1. Decomposition Content:

Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:

Little - Printed material is readable. Refuse looks freshly buried.

Some

Moderate - Printed material not legible, branches intact.

Much

Severe - Black/brown mucky material.

3. Moisture Content Scale:

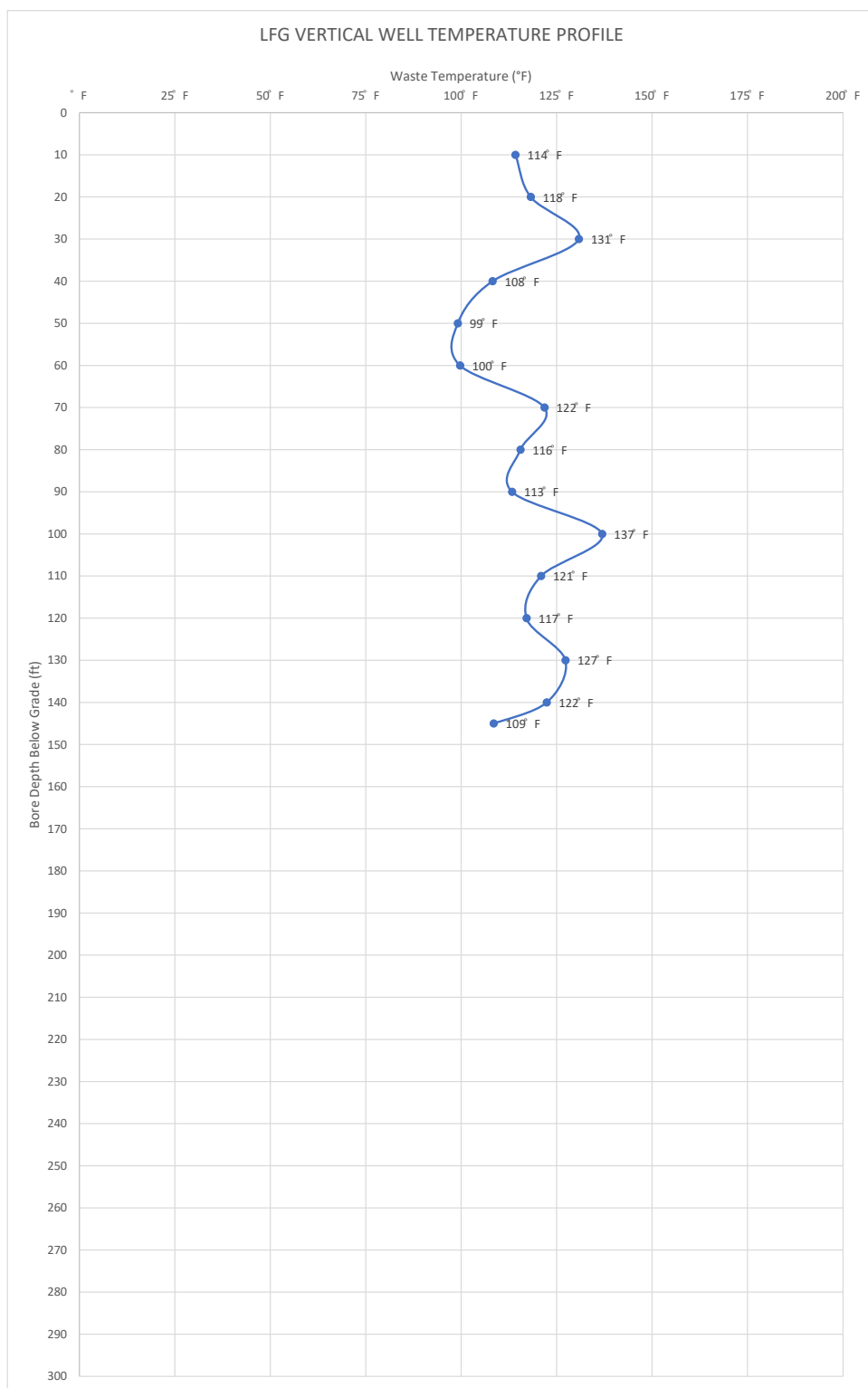
Dry Refuse (15%)- No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.

Normal (20-25%)- Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.

Damp (25-35%)- Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.

Wet (35-50%)- Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.

Saturated (50%)- Mud or free water present.

[illegible]

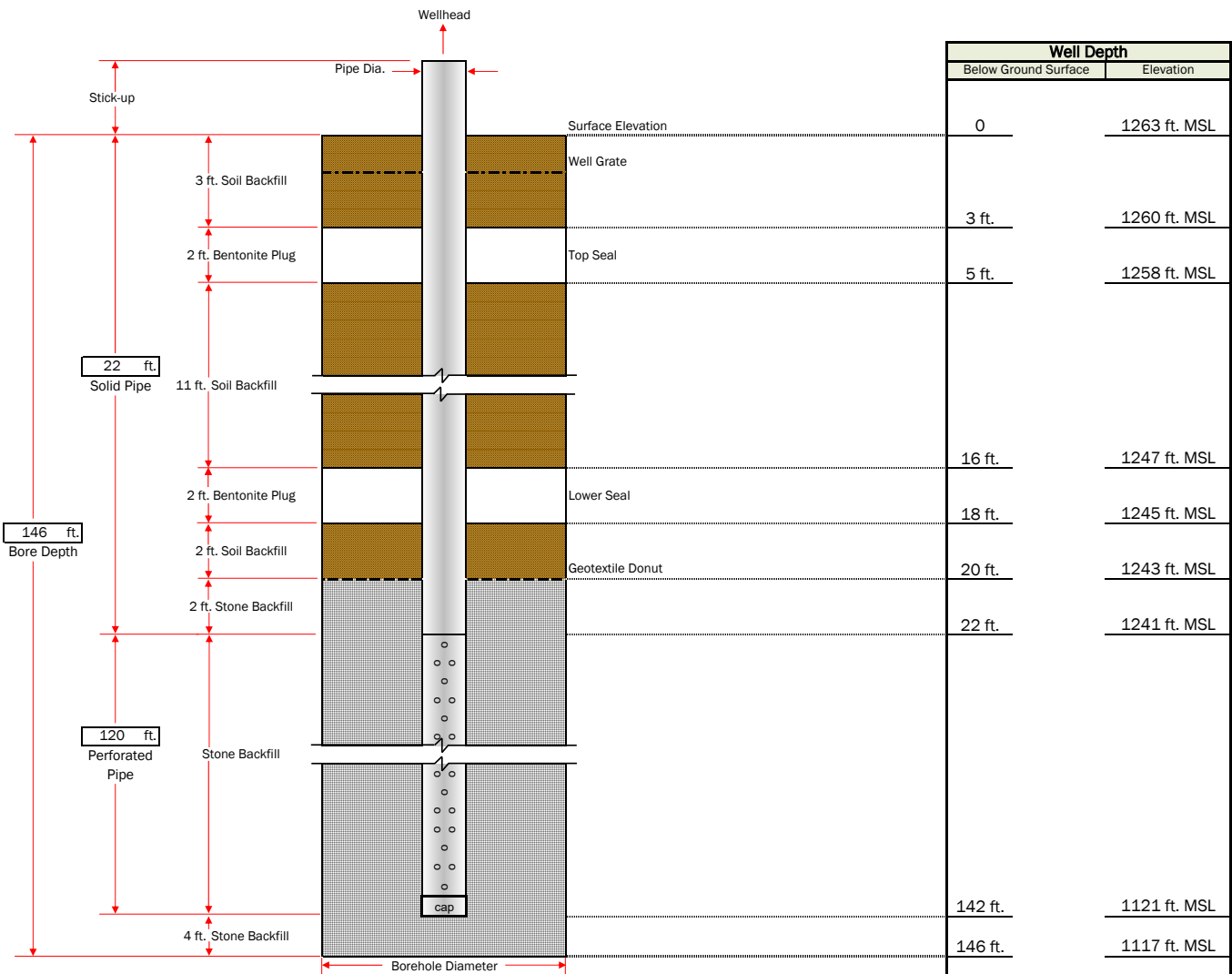
Project Name: 2025 GCCS Expansion
 Project Site: Loess Hills Landfill
 Project Location: Malvern, IA
 Site Technician:
 Contr. Supervisor: Nick Dalton (JCS)
 CQA Technical Staff: Jenna Miller (SCS)
 Client Contact: Bret Stephens (IWS)

Start Date: 11/5/2025
 Completion Date: 11/5/2025
 Weather: Sunny
 Design Firm: SCS Engineers
 Surveying Firm: TD2
 Drilling Company: Joe Coleman & Son
 Drill Rig Type: Soilmecc SR-30

Well ID: GEW-48R
 Northing Coordinate: 4869.53
 Easting Coordinate: 3214.49
 Surface Elv (ft. msl): 1262.63
 Base Elv (ft. msl): 1116.63

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Notified
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	N/A
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1"-3" Washed N	Perf. (ft. bgs)	120	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	146
Well Depth (ft. bgs)	142



Field Notes/Comments:

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	20% Soil, 40% Plastic, 5% Paper, 10% Wood, 25% Textile/Carpet,	121° F				
15						
20	25% Soil, 40% Plastic, 5% Wood, 20% Textile/Carpet, 10% Rubber,	121° F				
25						
30	20% Soil, 40% Plastic, 10% Wood, 20% Textile/Carpet, 10% Rubber,	113° F				
35						
40		91° F				
45						
50	15% Soil, 45% Plastic, 5% Paper, 25% Textile/Carpet, 10% Rubber,	94° F				
55						
60	20% Soil, 40% Plastic, 5% Paper, 30% Textile/Carpet, 5% Rubber,	90° F				
65						
70	15% Soil, 60% Plastic, 10% Paper, 15% Textile/Carpet,	103° F				
75						
80	20% Soil, 40% Plastic, 20% Textile/Carpet, 15% Rubber, and Some 5	101° F				
85						
90	15% Soil, 35% Plastic, 20% Wood, 20% Textile/Carpet, 10% Rubber,	115° F				
95						
100	20% Soil, 40% Plastic, 20% Wood, 15% Textile/Carpet, 5% Rubber,	104° F				
105						
110	20% Soil, 35% Plastic, 5% Paper, 20% Wood, 15% Textile/Carpet, 5% Rubber,	124° F				
115						
120	50% Soil, 30% Plastic, 10% Wood, 10% Textile/Carpet,	123° F				
125						
130	40% Soil, 40% Plastic, 10% Wood, 10% Rubber,	111° F				
135						
140	40% Soil, 40% Plastic, 10% Textile/Carpet, 10% Rubber,	121° F				
145						
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NOTES:

1. Decomposition Content:

Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:

Little - Printed material is readable. Refuse looks freshly buried.

Some

Moderate - Printed material not legible, branches intact.

Much

Severe - Black/brown mucky material.

3. Moisture Content Scale:

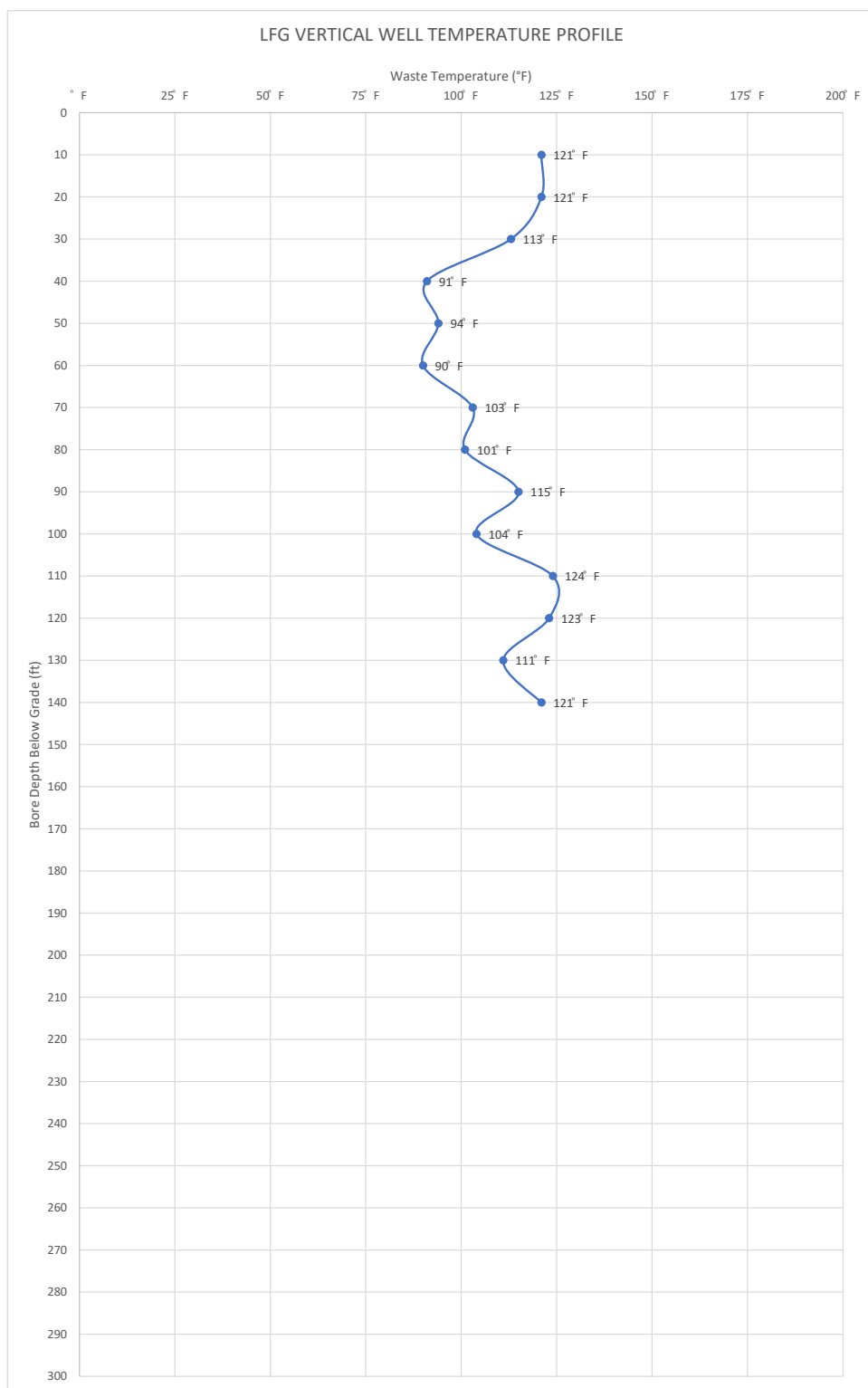
Dry Refuse (15%)- No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.

Normal (20-25%)- Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.

Damp (25-35%)- Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.

Wet (35-50%)- Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.

Saturated (50%)- Mud or free water present.

[illegible]

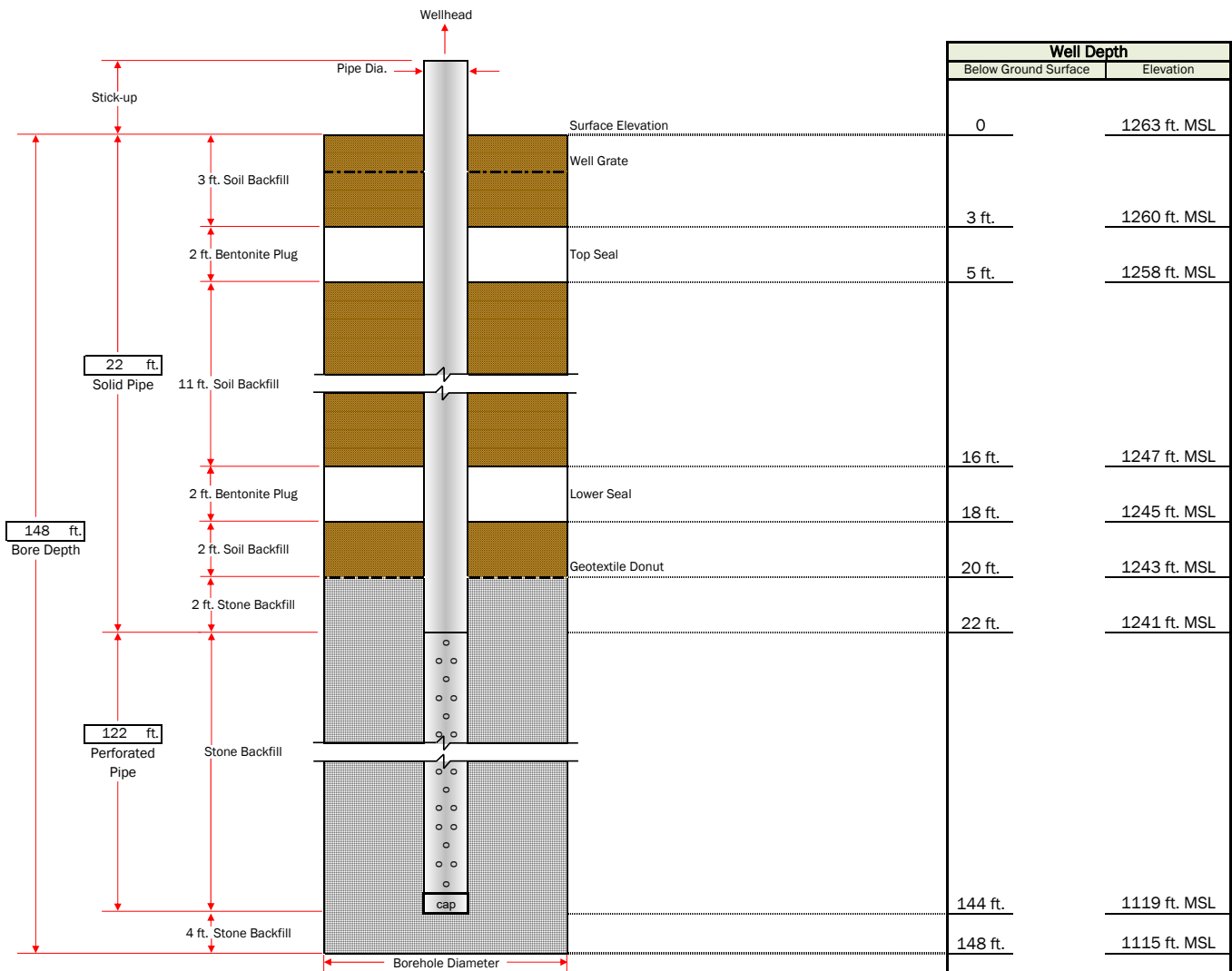
Project Name: 2025 GCCS Expansion
 Project Site: Loess Hills Landfill
 Project Location: Malvern, IA
 Site Technician:
 Contr. Supervisor: Nick Dalton (JCS)
 CQA Technical Staff: Ben Graham (SCS)
 Client Contact: Bret Stephens (IWS)

Start Date: 11/12/2025
 Completion Date: 11/12/2025
 Weather: Sunny
 Design Firm: SCS Engineers
 Surveying Firm: TD2
 Drilling Company: Joe Coleman & Son
 Drill Rig Type: Soilmecc SR-30

Well ID: GEW-49R
 Northing Coordinate: 4903.96
 Easting Coordinate: 3385.17
 Surface Elv (ft. msl): 1262.56
 Base Elv (ft. msl): 1114.56

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Notified
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	N/A
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1" 3" Washed N	Perf. (ft. bgs)	122	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	148
Well Depth (ft. bgs)	144



Field Notes/Comments:

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10						
15	30% Soil, 30% Plastic, 30% Paper, 5% Wood, 5% Textile/Carpet,	100° F	Some	Normal	Discernible	Discernible
20						
25						
30	20% Soil, 35% Plastic, 35% Paper, 5% Wood, 5% Textile/Carpet,	92° F	Some	Normal	Discernible	Discernible
35						
40	15% Soil, 30% Plastic, 30% Paper, 15% Wood, 10% Textile/Carpet,	99° F	Some	Normal	Discernible	Discernible
45						
50	85% Soil, 10% Plastic, 5% Textile/Carpet,	95° F	Some	Normal	Discernible	Discernible
55						
60	10% Soil, 30% Plastic, 30% Paper, 20% Wood, 10% Textile/Carpet,	106° F	Some	Normal	Discernible	Discernible
65						
70	15% Soil, 30% Plastic, 30% Paper, 20% Wood, 5% Textile/Carpet,	112° F	Some	Normal	Discernible	Discernible
75						
80	10% Soil, 25% Plastic, 25% Paper, 35% Wood, 5% Textile/Carpet,	116° F	Some	Normal	Discernible	Discernible
85						
90	15% Soil, 30% Plastic, 20% Paper, 30% Wood, 5% Textile/Carpet,	125° F	Much	Damp	Discernible	Discernible
95						
100	10% Soil, 35% Plastic, 35% Paper, 10% Wood, 10% Textile/Carpet,	130° F	Much	Damp	Discernible	Discernible
105						
110	15% Soil, 30% Plastic, 30% Paper, 20% Wood, 5% Textile/Carpet,	133° F	Much	Damp	Discernible	Discernible
115						
120	5% Soil, 20% Plastic, 20% Paper, 30% Wood, and Some 25	131° F	Much	Wet	Discernible	Discernible
125						
130	5% Soil, 60% Plastic, 10% Paper, 5% Wood, and Some 20	123° F	Much	Wet	Discernible	Discernible
135						
140	40% Soil, 20% Plastic, 15% Paper, 25% Wood,	127° F	Severe	Wet	Discernible	Discernible
148	25% Soil, 35% Plastic, 25% Paper, 10% Wood, 5% Textile/Carpet,	126° F	Severe	Wet	Discernible	Discernible
150						
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290						
295						
300						

NOTES:

1. Decomposition Content:

Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:

Little - Printed material is readable. Refuse looks freshly buried.

Some

Moderate - Printed material not legible, branches intact.

Much

Severe - Black/brown mucky material.

3. Moisture Content Scale:

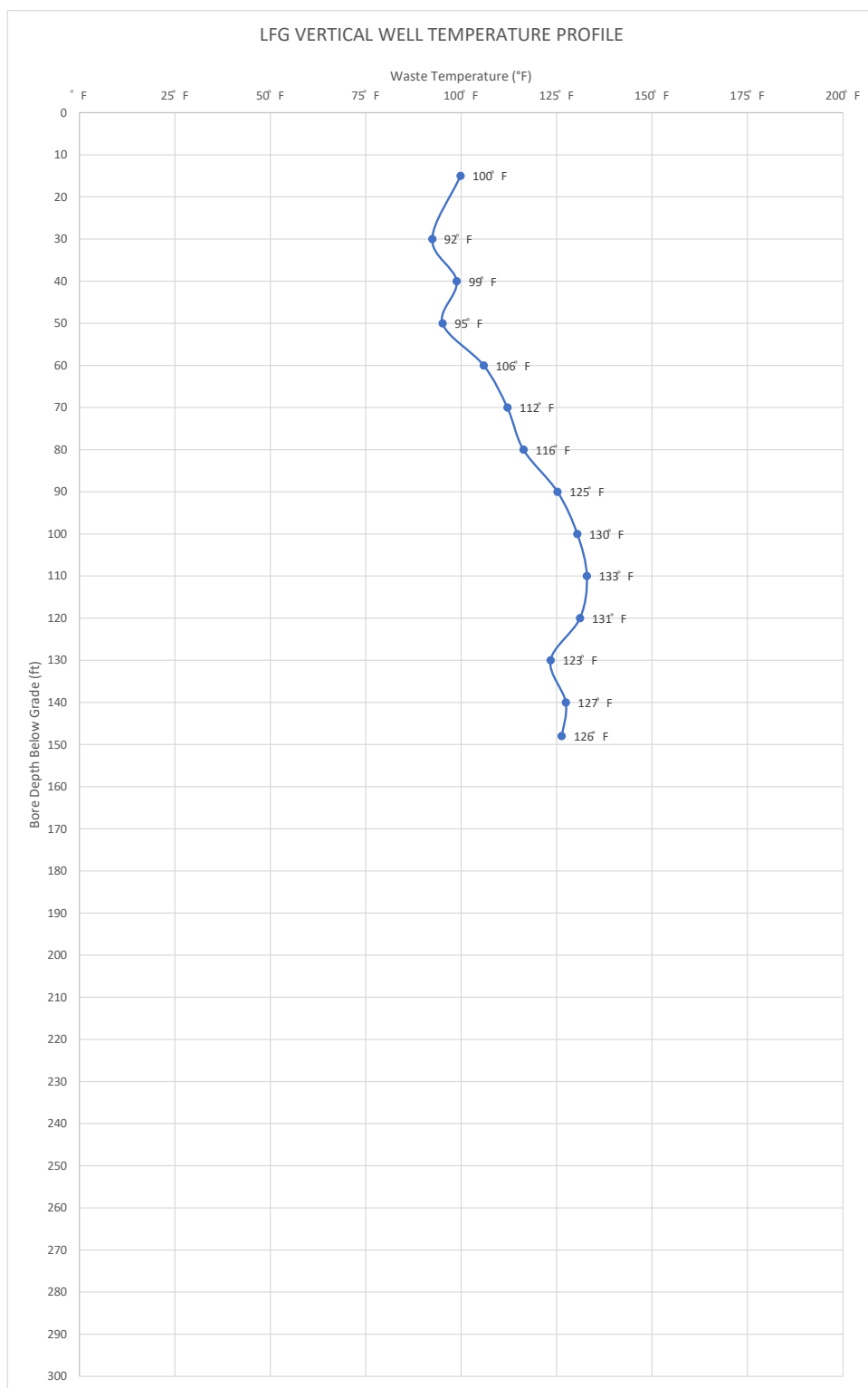
Dry Refuse (15%)- No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.

Normal (20-25%)- Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.

Damp (25-35%)- Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.

Wet (35-50%)- Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.

Saturated (50%)- Mud or free water present.

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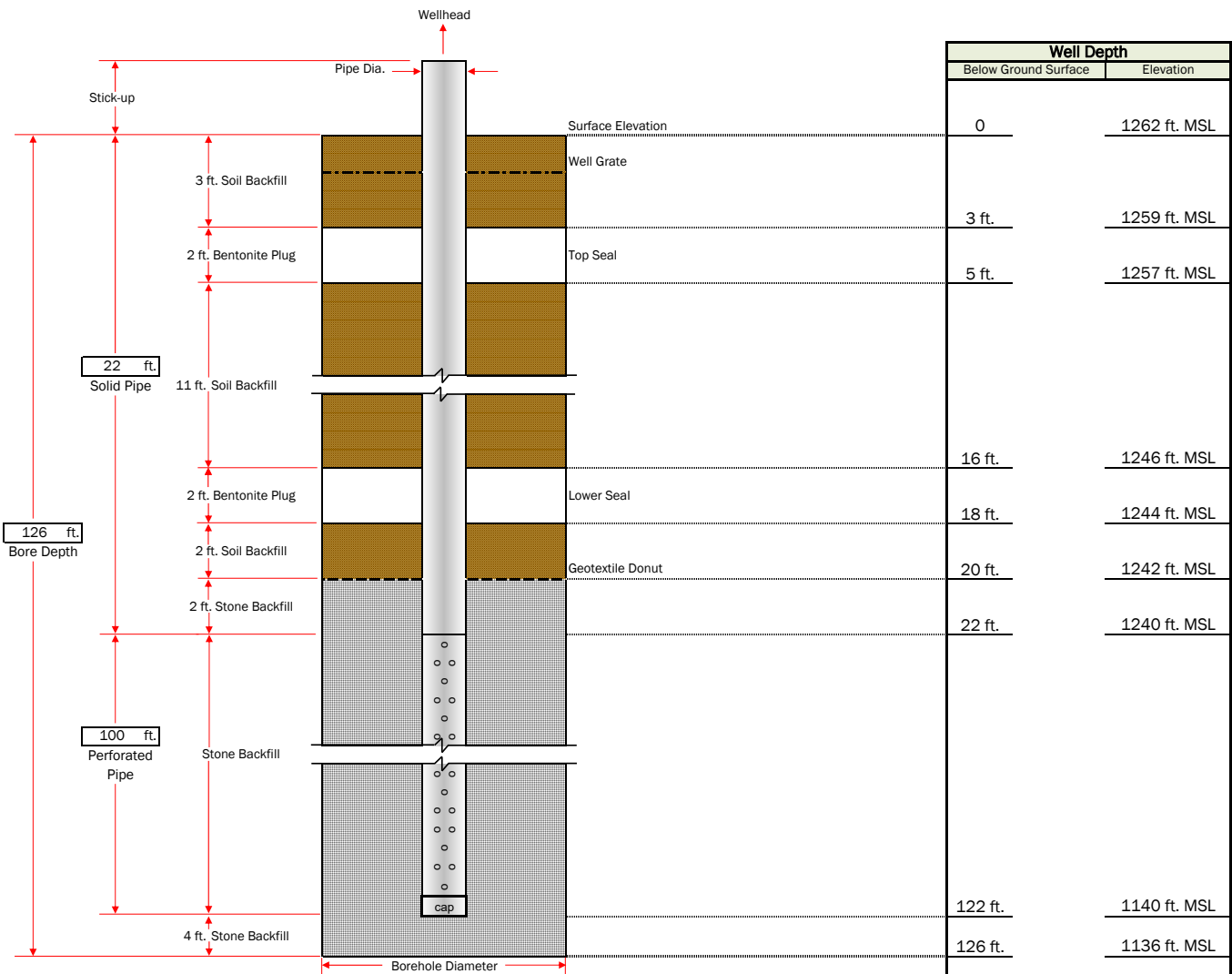
Project Name: 2025 GCCS Expansion
 Project Site: Loess Hills Landfill
 Project Location: Malvern, IA
 Site Technician:
 Contr. Supervisor: Nick Dalton (JCS)
 CQA Technical Staff: Ben Graham (SCS)
 Client Contact: Bret Stephens (IWS)

Start Date: 11/13/2025
 Completion Date: 11/13/2025
 Weather: Sunny
 Design Firm: SCS Engineers
 Surveying Firm: TD2
 Drilling Company: Joe Coleman & Son
 Drill Rig Type: Soilmecc SR-30

Well ID: GEW-50R
 Northing Coordinate: 4641.22
 Easting Coordinate: 3026.21
 Surface Elv (ft. msl): 1262.07
 Base Elv (ft. msl): 1136.07

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Notified
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	N/A
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1"-3" Washed N	Perf. (ft. bgs)	100	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	126
Well Depth (ft. bgs)	122



Field Notes/Comments:

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	5% Soil, 85% Wood, 10% Textile/Carpet,	81° F	Some	Normal	Discernible	Discernible
15						
20	10% Soil, 20% Plastic, 30% Paper, 30% Wood, 10% Textile/Carpet,	113° F	Some	Normal	Discernible	Discernible
25						
30	10% Soil, 30% Plastic, 30% Paper, 20% Wood, 10% Textile/Carpet,	90° F	Some	Normal	Discernible	Discernible
35						
40	10% Soil, 40% Plastic, 30% Paper, 10% Wood, 10% Textile/Carpet,	95° F	Moderate	Normal	Discernible	Discernible
45						
50	10% Soil, 35% Plastic, 20% Paper, 20% Wood, 15% Textile/Carpet,	103° F	Moderate	Normal	Discernible	Discernible
55						
60	15% Soil, 25% Plastic, 25% Paper, 25% Wood, 10% Textile/Carpet,	124° F	Moderate	Normal	Discernible	Discernible
65						
70	10% Soil, 20% Plastic, 55% Paper, 10% Wood, 5% Textile/Carpet,	124° F	Moderate	Normal	Discernible	Discernible
75						
80						
85						
90	95% Soil, and Some 5	108° F	N/A	Normal	Discernible	Discernible
95						
100	10% Soil, 40% Plastic, 30% Paper, 5% Wood, 5% Textile/Carpet, and Some 10	114° F	Much	Normal	Discernible	Discernible
105						
110						
115						
120	10% Soil, 35% Plastic, 20% Paper, 15% Wood, 10% Textile/Carpet, and Some 10	99° F	Much	Normal	Discernible	Discernible
126	15% Soil, 40% Plastic, 20% Paper, 20% Wood, 5% Textile/Carpet,	112° F	Much	Wet	Discernible	Discernible
130						
135						
140						
145						
150						
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295						
300						

NOTES:

1. Decomposition Content:

Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:

Little - Printed material is readable. Refuse looks freshly buried.

Some

Moderate - Printed material not legible, branches intact.

Much

Severe - Black/brown mucky material.

3. Moisture Content Scale:

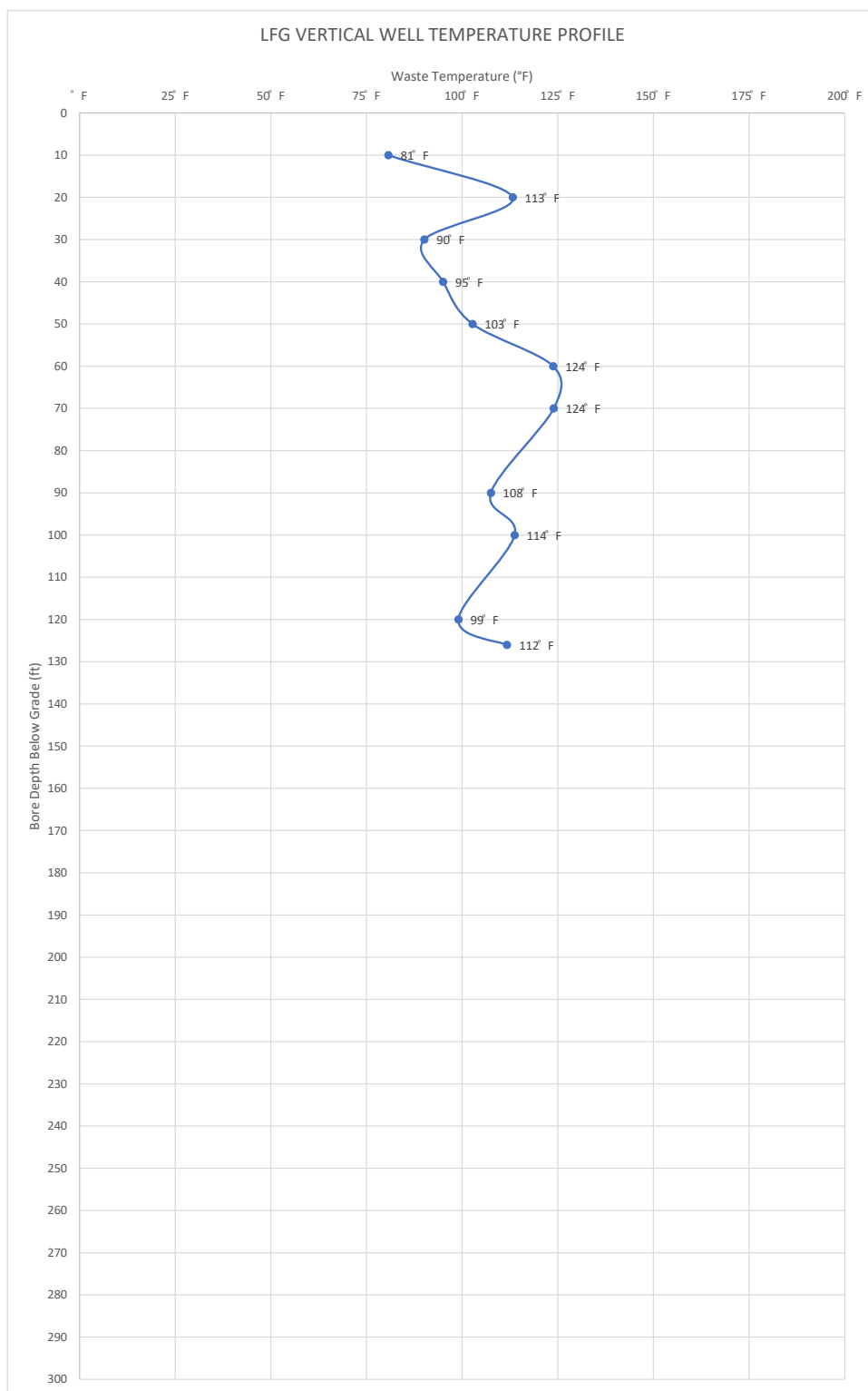
Dry Refuse (15%)- No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.

Normal (20-25%)- Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.

Damp (25-35%)- Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.

Wet (35-50%)- Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.

Saturated (50%)- Mud or free water present.

[illegible]

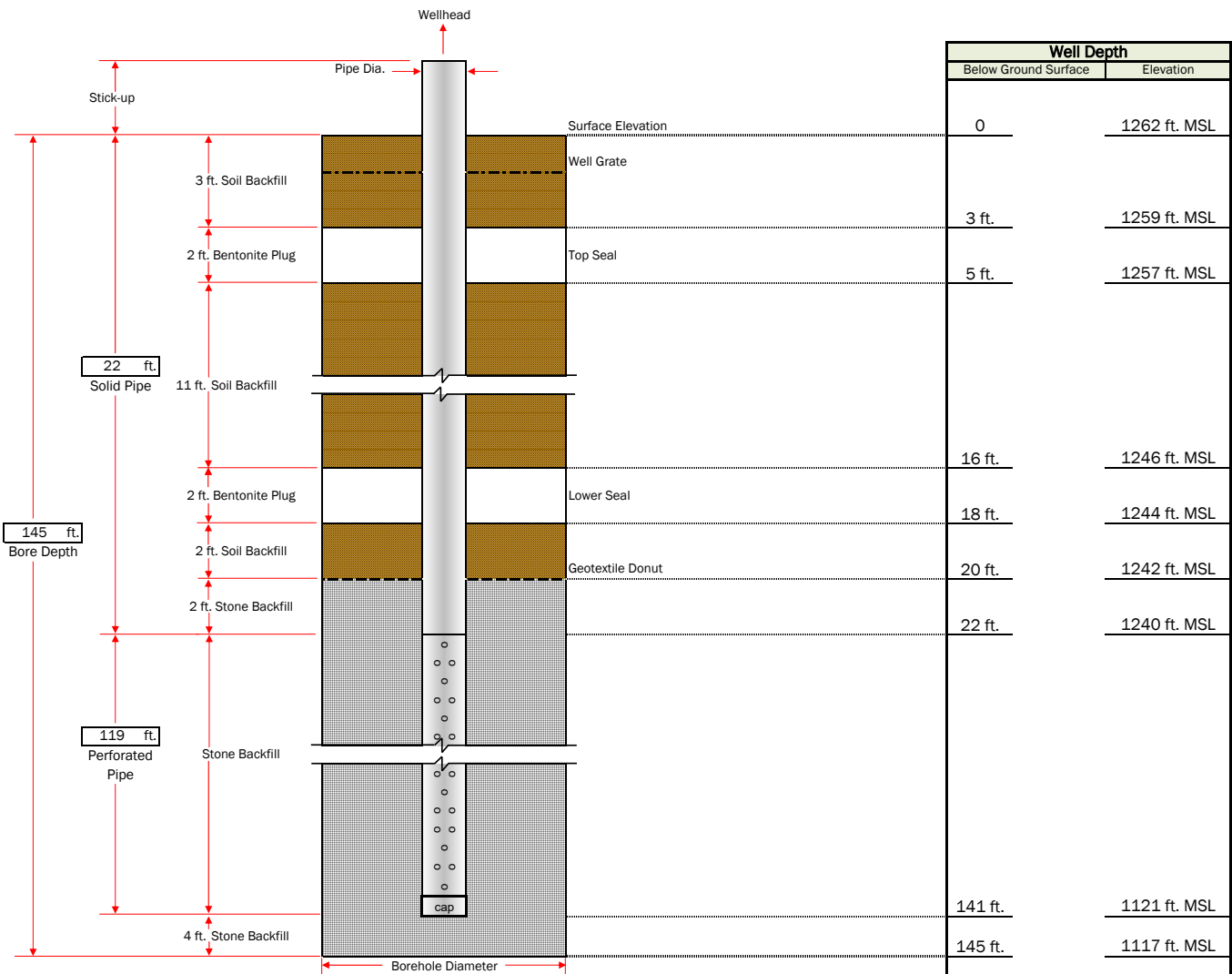
Project Name: 2025 GCCS Expansion
 Project Site: Loess Hills Landfill
 Project Location: Malvern, IA
 Site Technician:
 Contr. Supervisor: Nick Dalton (JCS)
 CQA Technical Staff: Ben Graham (SCS)
 Client Contact: Bret Stephens (IWS)

Start Date: 11/13/2025
 Completion Date: 11/13/2025
 Weather: Sunny
 Design Firm: SCS Engineers
 Surveying Firm: TD2
 Drilling Company: Joe Coleman & Son
 Drill Rig Type: Soilmecc SR-30

Well ID: GEW-52R
 Northing Coordinate: 4700.37
 Easting Coordinate: 3136.98
 Surface Elv (ft. msl): 1262.35
 Base Elv (ft. msl): 1117.35

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Notified
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	N/A
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1"-3" Washed N	Perf. (ft. bgs)	119	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	145
Well Depth (ft. bgs)	141



Field Notes/Comments:

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	15% Soil, 40% Plastic, 30% Paper, 10% Wood, 5% Textile/Carpet,	122° F	Some	Normal	Discernible	Discernible
15						
20	10% Soil, 40% Plastic, 40% Paper, 5% Wood, 5% Textile/Carpet,	110° F	Some	Normal	Discernible	Discernible
25						
30	10% Soil, 25% Plastic, 25% Paper, 30% Wood, 10% Textile/Carpet,	112° F	Moderate	Normal	Discernible	Discernible
35						
40	20% Soil, 30% Plastic, 10% Paper, 20% Wood, 10% Textile/Carpet, and Some 10	103° F	Much	Normal	Discernible	Discernible
45						
50	15% Soil, 35% Plastic, 35% Paper, 10% Wood, 5% Textile/Carpet,	94° F	Much	Normal	Discernible	Discernible
55						
60	30% Soil, 10% Plastic, 10% Paper, 10% Wood, 10% Textile/Carpet, 10% Rubber, and Some 20	123° F	Much	Normal	Discernible	Discernible
65						
70	15% Soil, 40% Plastic, 30% Paper, 5% Wood, 5% Textile/Carpet, 5% Rubber,	130° F	Moderate	Normal	Discernible	Discernible
75						
80	25% Soil, 10% Plastic, 10% Paper, 25% Wood, and Some 30	133° F	Much	Damp	Discernible	Discernible
85						
90	15% Soil, 25% Plastic, 25% Paper, 25% Wood, 10% Textile/Carpet,	129° F	Much	Damp	Discernible	Discernible
95						
100	15% Soil, 15% Plastic, 15% Paper, 25% Wood, 10% Textile/Carpet, and Some 20	127° F	Much	Wet	Discernible	Discernible
105						
110	10% Soil, 20% Plastic, 10% Wood, and Some 60	126° F	Much	Wet	Discernible	Discernible
115						
120	5% Soil, 5% Plastic, 5% Wood, and Some 85	126° F	Much	Wet	Discernible	Discernible
125						
130	5% Soil, 15% Plastic, 10% Wood, and Some 70	113° F	Severe	Saturated	Discernible	Discernible
135						
140	30% Soil, and Some 70	123° F	Severe	Saturated	Discernible	Discernible
145	25% Soil, and Some 75	105° F	Severe	Saturated	Discernible	Discernible
150						
155						
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165						
170						
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290						
295						
300						

NOTES:

1. Decomposition Content:

Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:

Little - Printed material is readable. Refuse looks freshly buried.

Some

Moderate - Printed material not legible, branches intact.

Much

Severe - Black/brown mucky material.

3. Moisture Content Scale:

Dry Refuse (15%)- No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.

Normal (20-25%)- Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.

Damp (25-35%)- Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.

Wet (35-50%)- Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.

Saturated (50%)- Mud or free water present.

LFG VERTICAL WELL TEMPERATURE PROFILE

The graph displays the temperature profile of a vertical well for Landfill Gas (LFG). The temperature starts at 122°F at the surface (0 ft) and generally decreases with depth, with some fluctuations. A significant drop occurs between 100 ft and 140 ft, where the temperature reaches its minimum of 105°F. Below 140 ft, the temperature increases slightly to 123°F at 140 ft and then remains relatively stable around 126°F down to 120 ft.

Bore Depth Below Grade (ft)	Waste Temperature (°F)
10	122
20	110
30	112
40	103
50	94
60	123
70	130
80	133
90	129
100	127
110	126
120	126
130	113
140	123
145	105

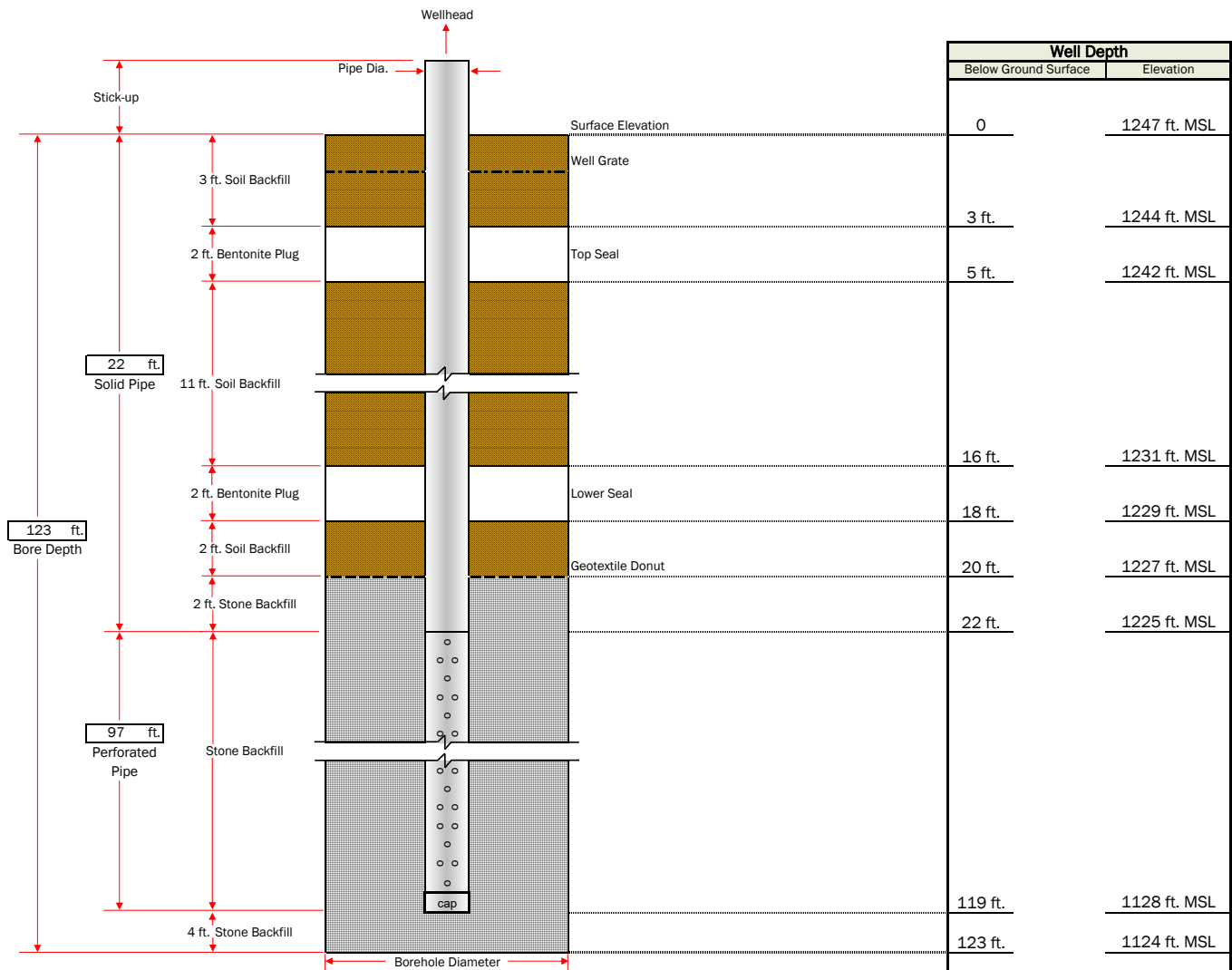
Project Name: 2025 GCCS Expansion
 Project Site: Loess Hills Landfill
 Project Location: Malvern, IA
 Site Technician:
 Contr. Supervisor: Nick Dalton (JCS)
 CQA Technical Staff: Ben Graham (SCS)
 Client Contact: Bret Stephens (IWS)

Start Date: 11/12/2025
 Completion Date: 11/12/2025
 Weather: Sunny
 Design Firm: SCS Engineers
 Surveying Firm: TD2
 Drilling Company: Joe Coleman & Son
 Drill Rig Type: Soilmec SR-30

Well ID: GEW-53R
 Northing Coordinate: 4990.09
 Easting Coordinate: 2910.08
 Surface Elv (ft. msl): 1246.97
 Base Elv (ft. msl): 1123.97

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Notified
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	N/A
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1"-3" Washed N	Perf. (ft. bgs)	97	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	123
Well Depth (ft. bgs)	119



Field Notes/Comments:

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	5% Soil, 30% Plastic, 30% Paper, 15% Wood, 10% Textile/Carpet, 10% Rubber,	103° F	Some	Normal	Discernible	Discernible
15						
20	5% Soil, 35% Plastic, 35% Paper, 10% Wood, 15% Textile/Carpet,	98° F	Some	Normal	Discernible	Discernible
25						
30	15% Soil, 30% Plastic, 40% Paper, 10% Wood, 5% Textile/Carpet,	83° F	Moderate	Normal	Discernible	Discernible
35						
40	10% Soil, 30% Plastic, 20% Paper, 15% Wood, 25% Textile/Carpet,	84° F	Moderate	Normal	Discernible	Discernible
45						
50	10% Soil, 45% Plastic, 20% Paper, 15% Wood, 10% Textile/Carpet,	122° F	Much	Normal	Discernible	Discernible
55						
60	10% Soil, 40% Plastic, 30% Paper, 10% Wood, 10% Textile/Carpet,	137° F	Moderate	Normal	Discernible	Discernible
65						
70	10% Soil, 40% Plastic, 25% Paper, 10% Wood, 15% Textile/Carpet,	114° F	Moderate	Normal	Discernible	Discernible
75						
80	10% Soil, 50% Plastic, 20% Paper, 10% Wood, 10% Textile/Carpet,	159° F	Much	Damp	Discernible	Discernible
85						
90	10% Soil, 35% Plastic, 30% Paper, 20% Wood, 5% Rubber,	131° F	Moderate	Normal	Discernible	Discernible
95						
100	10% Soil, 45% Plastic, 25% Paper, 10% Wood, 10% Textile/Carpet,	122° F	Much	Normal	Discernible	Discernible
105						
110	10% Soil, 35% Plastic, 35% Paper, 10% Wood, 10% Textile/Carpet,	103° F	Much	Normal	Discernible	Discernible
115						
120	15% Soil, 40% Plastic, 10% Wood, and Some 35	103° F	Much	Normal	Discernible	Discernible
125						
130						
135						
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NOTES:

1. Decomposition Content:

Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:

Little - Printed material is readable. Refuse looks freshly buried.

Some

Moderate - Printed material not legible, branches intact.

Much

Severe - Black/brown mucky material.

3. Moisture Content Scale:

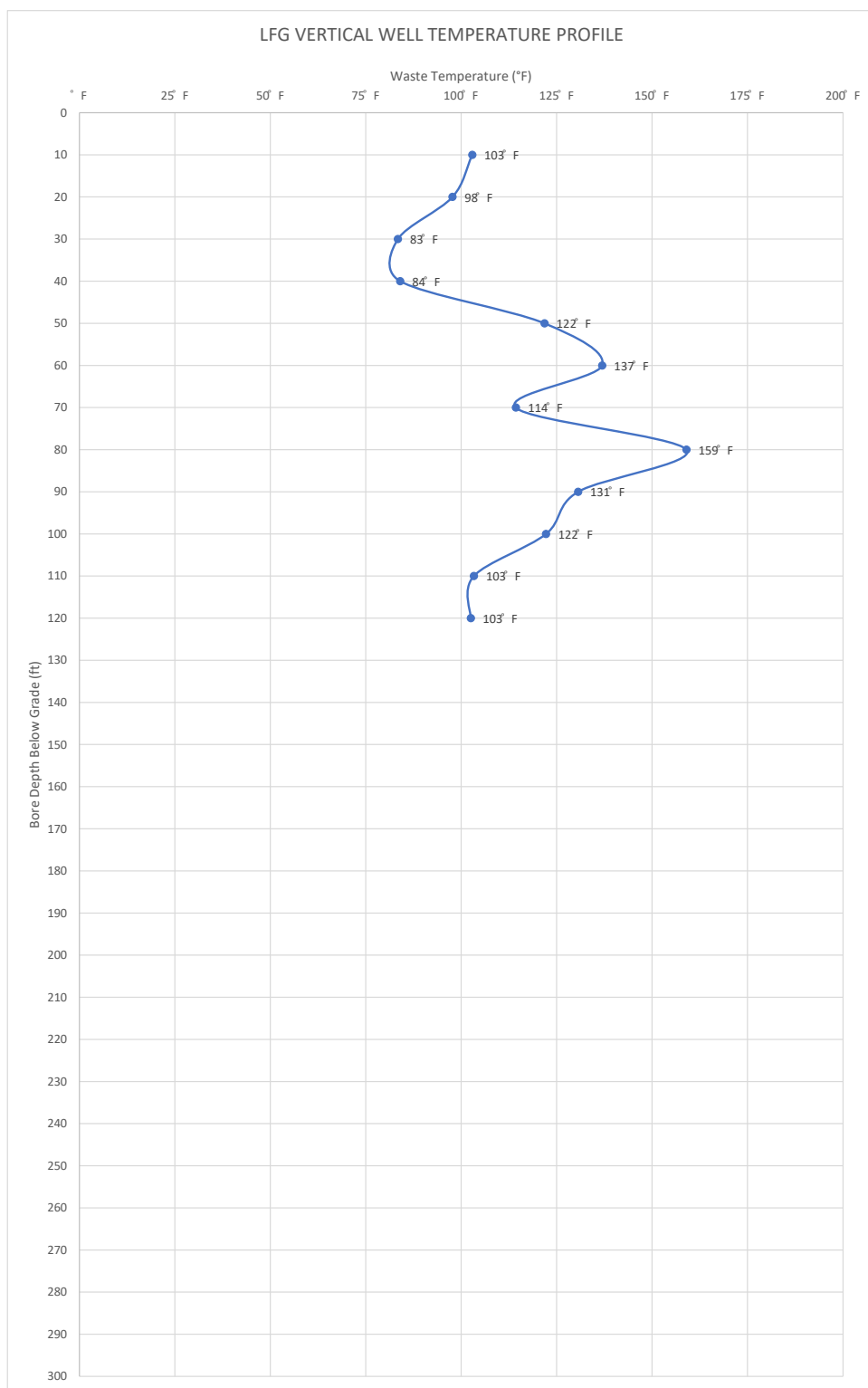
Dry Refuse (15%)- No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.

Normal (20-25%)- Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.

Damp (25-35%)- Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.

Wet (35-50%)- Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.

Saturated (50%)- Mud or free water present.

[illegible]

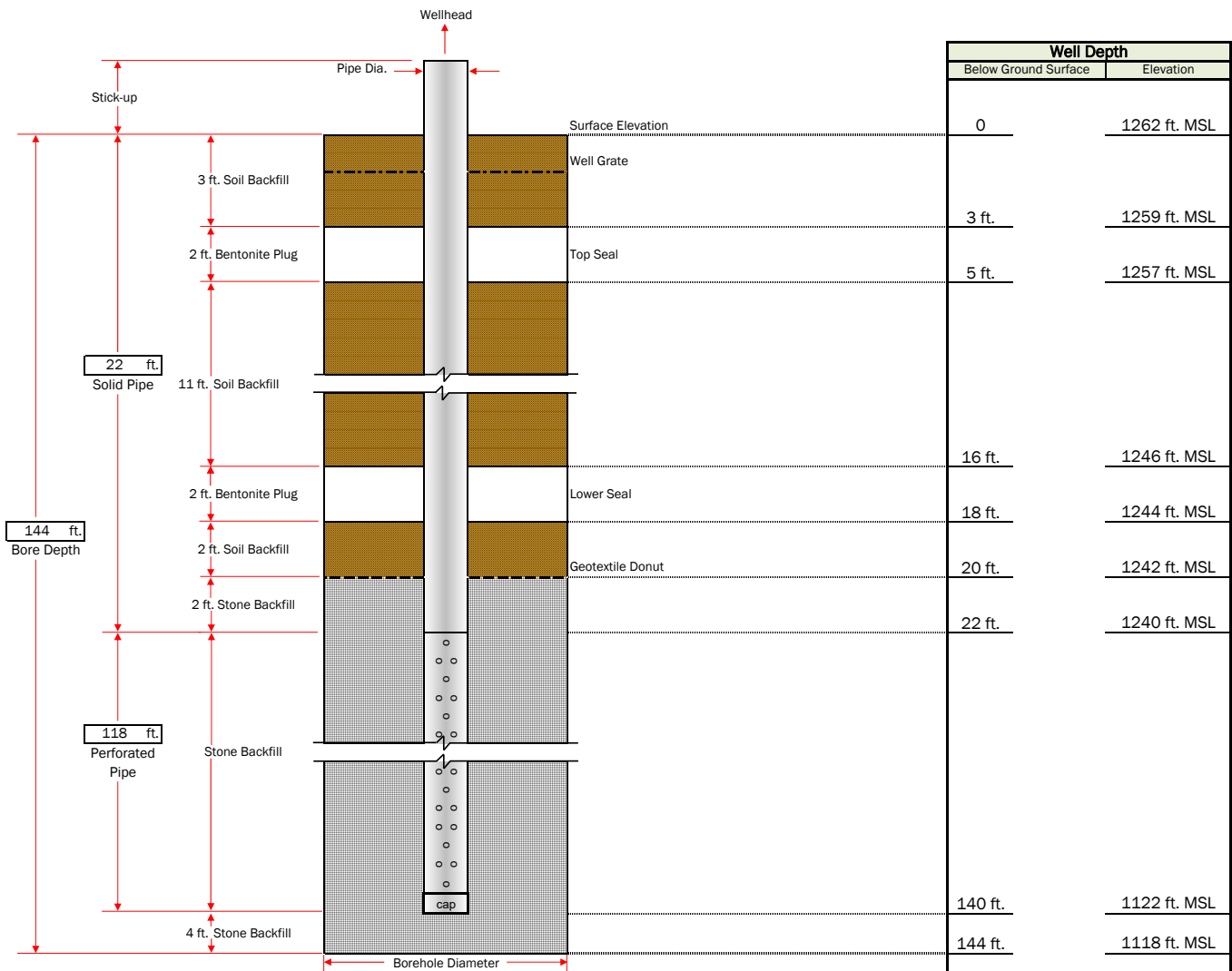
Project Name: 2025 GCCS Expansion
 Project Site: Loess Hills Landfill
 Project Location: Malvern, IA
 Site Technician:
 Contr. Supervisor: Nick Dalton (JCS)
 CQA Technical Staff: Ben Graham (SCS)
 Client Contact: Bret Stephens (IWS)

Start Date: 11/11/2025
 Completion Date: 11/11/2025
 Weather: Sunny
 Design Firm: SCS Engineers
 Surveying Firm: TD2
 Drilling Company: Joe Coleman & Son
 Drill Rig Type: Soilmecc SR-30

Well ID: GEW-54R
 Northing Coordinate: 4942.69
 Easting Coordinate: 3053.36
 Surface Elv (ft. msl): 1261.95
 Base Elv (ft. msl): 1117.95

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Notified
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	N/A
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1"-3" Washed N	Perf. (ft. bgs)	118	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	144
Well Depth (ft. bgs)	140



Field Notes/Comments:

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	20% Soil, 30% Plastic, 30% Paper, 10% Wood, 10% Textile/Carpet,	111° F	Some	Normal	Discernible	Discernible
15						
20	15% Soil, 40% Plastic, 25% Paper, 5% Wood, 15% Textile/Carpet,	114° F	Some	Normal	Discernible	Discernible
25						
30	15% Soil, 30% Plastic, 35% Paper, 10% Wood, 10% Textile/Carpet,	130° F	Moderate	Normal	Discernible	Discernible
35						
40	10% Soil, 40% Plastic, 30% Paper, 10% Wood, 10% Textile/Carpet,	125° F	Moderate	Normal	Discernible	Discernible
45						
50	10% Soil, 40% Plastic, 30% Paper, 15% Wood, 5% Textile/Carpet,	94° F	Moderate	Normal	Discernible	Discernible
55						
60	15% Soil, 35% Plastic, 30% Paper, 20% Wood,	94° F	Moderate	Normal	Discernible	Discernible
65						
70	15% Soil, 30% Plastic, 30% Paper, 20% Wood, 5% Rubber,	116° F	Moderate	Normal	Discernible	Discernible
75						
80	25% Soil, 30% Plastic, 30% Paper, 10% Wood, 5% Textile/Carpet,	139° F	Moderate	Normal	Discernible	Discernible
85						
90	10% Soil, 40% Plastic, 40% Paper, 10% Textile/Carpet,	124° F	Moderate	Normal	Discernible	Discernible
95						
100	20% Soil, 30% Plastic, 30% Paper, 10% Wood, 10% Textile/Carpet,	135° F	Much	Normal	Discernible	Discernible
105						
110	25% Soil, 40% Plastic, 35% Paper,	131° F	Much	Normal	Discernible	Discernible
115						
120	95% Soil, and Some 5	129° F	Moderate	Normal	Discernible	Discernible
125						
130	15% Soil, 35% Plastic, 30% Paper, 15% Wood, 5% Textile/Carpet,	135° F	Much	Normal	Discernible	Discernible
135						
140	15% Soil, 30% Plastic, 30% Paper, 25% Wood,	119° F	Severe	Normal	Discernible	Discernible
144	10% Soil, 20% Wood, and Some 70	119° F	Severe	Wet	Discernible	Discernible
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NOTES:

1. Decomposition Content:

Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:

Little - Printed material is readable. Refuse looks freshly buried.

Some

Moderate - Printed material not legible, branches intact.

Much

Severe - Black/brown mucky material.

3. Moisture Content Scale:

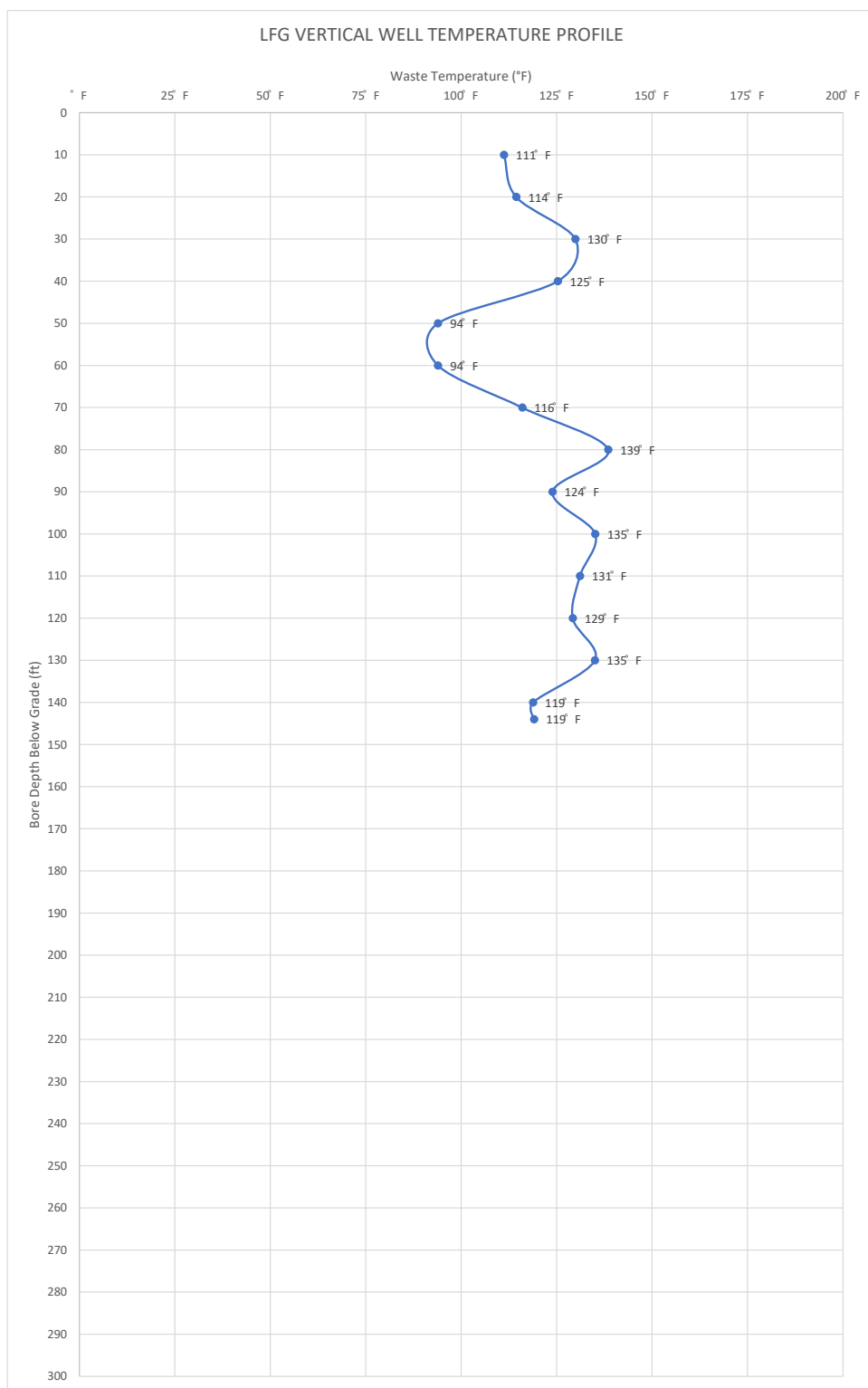
Dry Refuse (15%)- No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.

Normal (20-25%)- Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.

Damp (25-35%)- Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.

Wet (35-50%)- Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.

Saturated (50%)- Mud or free water present.

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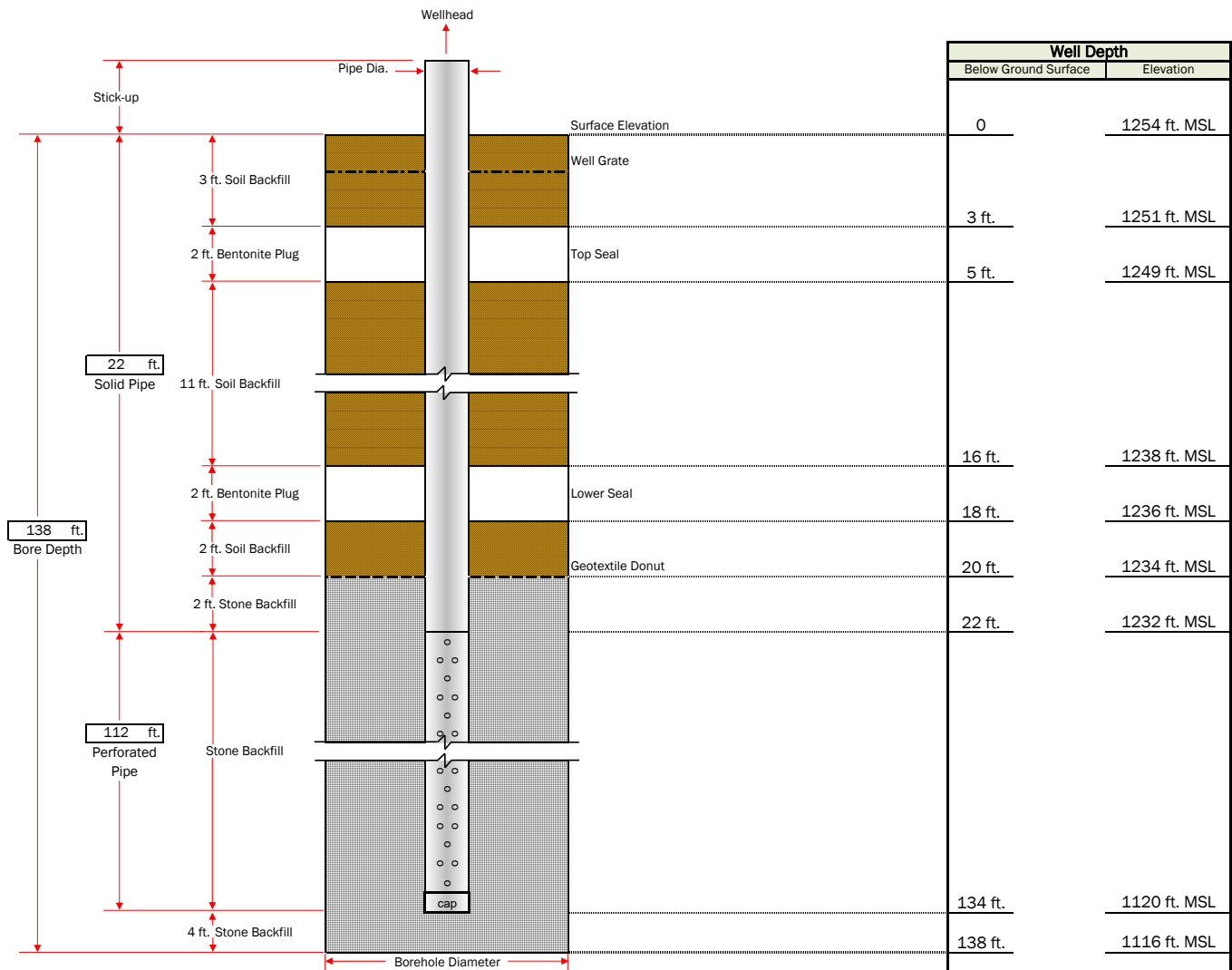
Project Name: 2025 GCCS Expansion
 Project Site: Loess Hills Landfill
 Project Location: Malvern, IA
 Site Technician:
 Contr. Supervisor: Nick Dalton (JCS)
 CQA Technical Staff: Ben Graham (SCS)
 Client Contact: Bret Stephens (IWS)

Start Date: 11/21/2025
 Completion Date: 11/21/2025
 Weather: Cloudy
 Design Firm: SCS Engineers
 Surveying Firm: TD2
 Drilling Company: Joe Coleman & Son
 Drill Rig Type: Soilmecc SR-30

Well ID: GEW-55R
 Northing Coordinate: 5237.43
 Easting Coordinate: 3270.27
 Surface Elv (ft. msl): 1254.46
 Base Elv (ft. msl): 1116.46

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Notified
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	N/A
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1"-3" Washed N	Perf. (ft. bgs)	112	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	138
Well Depth (ft. bgs)	134


Field Notes/Comments:

12' slotted old pipe (laid at the bottom), 100' new perf pipe. Begins raining around depth 100'

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	25% Soil, 20% Plastic, 20% Wood, 25% Textile/Carpet, 10% Rubber,	78° F				
15						
20	20% Soil, 25% Plastic, 15% Paper, 15% Wood, 15% Rubber, and Some 10	89° F				
25						
30	20% Soil, 35% Plastic, 5% Paper, 10% Wood, 15% Textile/Carpet, 10% Rubber,	110° F				
35						
40	20% Soil, 30% Plastic, 15% Wood, 25% Textile/Carpet, 10% Rubber,	112° F				
45						
50	20% Soil, 35% Plastic, 20% Wood, 10% Textile/Carpet, 10% Rubber, and Some 5	104° F				
55						
60	20% Soil, 40% Plastic, 10% Paper, 15% Wood, 10% Textile/Carpet, 5% Rubber,	111° F				
65						
70	70% Soil, 10% Plastic, 5% Wood, 10% Textile/Carpet, 5% Rubber,	100° F				
75						
80	20% Soil, 30% Plastic, 10% Paper, 10% Wood, 15% Textile/Carpet, 10% Rubber, and Some 5	101° F				
85						
90	30% Soil, 30% Plastic, 10% Wood, 30% Rubber,	101° F				
95						
100	25% Soil, 25% Plastic, 5% Paper, 20% Wood, 5% Textile/Carpet, 20% Rubber,	101° F				
105						
110	20% Soil, 30% Plastic, 10% Wood, 15% Textile/Carpet, 25% Rubber,	84° F				
115						
120	15% Soil, 55% Plastic, 5% Paper, 10% Wood, 5% Textile/Carpet, 10% Rubber,	86° F				
125						
130	15% Soil, 40% Plastic, 5% Wood, 20% Textile/Carpet, 20% Rubber,	86° F				
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NOTES:

1. Decomposition Content:

Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:

Little - Printed material is readable. Refuse looks freshly buried.

Some

Moderate - Printed material not legible, branches intact.

Much

Severe - Black/brown mucky material.

3. Moisture Content Scale:

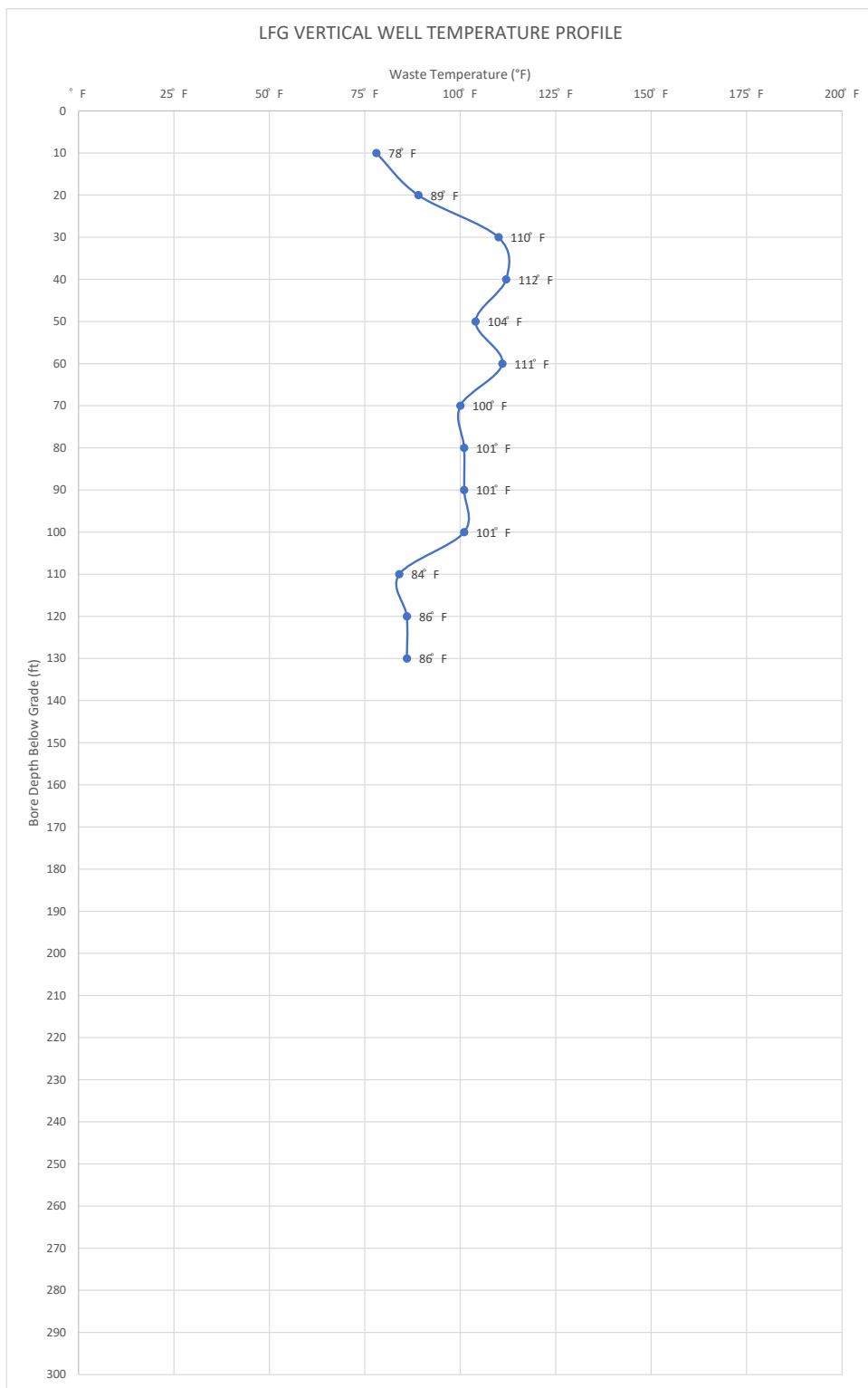
Dry Refuse (15%)- No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.

Normal (20-25%)- Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.

Damp (25-35%)- Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.

Wet (35-50%)- Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.

Saturated (50%)- Mud or free water present.

[illegible]

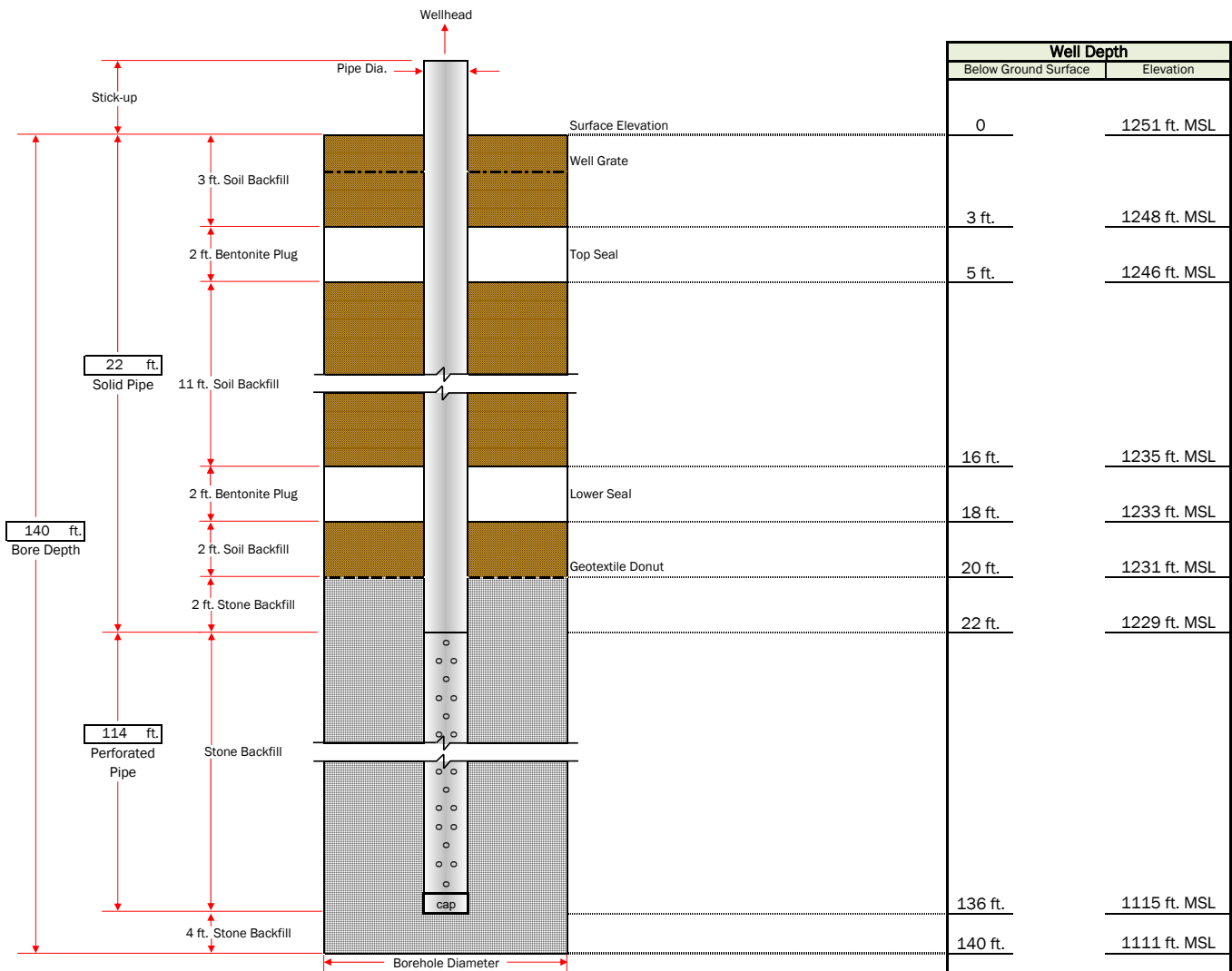
Project Name: 2025 GCCS Expansion
 Project Site: Loess Hills Landfill
 Project Location: Malvern, IA
 Site Technician:
 Contr. Supervisor: Nick Dalton (JCS)
 CQA Technical Staff: Josh Olson (SCS)
 Client Contact: Bret Stephens (IWS)

Start Date: 10/17/2025
 Completion Date: 10/18/2025
 Weather: Cloudy
 Design Firm: SCS Engineers
 Surveying Firm: TD2
 Drilling Company: Joe Coleman & Son
 Drill Rig Type: Soilmecc SR-30

Well ID: GEW-56R
 Northing Coordinate: 5204.90
 Easting Coordinate: 3430.95
 Surface Elv (ft. msl): 1250.72
 Base Elv (ft. msl): 1110.72

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Observed
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	N/A
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1"-3" Washed N	Perf. (ft. bgs)	114	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	140
Well Depth (ft. bgs)	136

**Field Notes/Comments:**

Drilling paused at 56 feet on 10/17/2025 due to thunderstorms. Drilling and installation completed 10/18/2025.

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	40% Soil, 15% Plastic, 25% Paper, 10% Wood, 10% Textile/Carpet,	93° F	Little	Normal	Discernible	None Discernible
15						
20	25% Soil, 20% Plastic, 30% Paper, 15% Wood, 5% Textile/Carpet, and Some 5	100° F	Some	Normal	Discernible	Discernible
25						
30	30% Soil, 20% Plastic, 25% Paper, 20% Wood, 5% Textile/Carpet,	101° F	Some	Normal	Discernible	Discernible
35						
40	30% Soil, 30% Plastic, 20% Paper, 10% Wood, 10% Textile/Carpet,	101° F	Some	Normal	Discernible	Discernible
45						
50	35% Soil, 25% Plastic, 30% Paper, 5% Wood, 5% Textile/Carpet,	102° F	Some	Normal	Discernible	Discernible
55						
60	25% Soil, 35% Plastic, 25% Paper, 5% Wood, 10% Textile/Carpet,	99° F	Some	Normal	Discernible	Discernible
65						
70	35% Soil, 20% Plastic, 35% Paper, 10% Wood, 10% Textile/Carpet,	103° F	Moderate	Normal	Discernible	Discernible
75						
80	35% Soil, 25% Plastic, 25% Paper, 5% Wood, 10% Textile/Carpet,	94° F	Moderate	Normal	Discernible	Discernible
85						
90	30% Soil, 20% Plastic, 25% Paper, 10% Wood, 10% Textile/Carpet, and Some 5	95° F	Moderate	Normal	Discernible	Discernible
95						
100	25% Soil, 30% Plastic, 30% Paper, 5% Wood, 10% Textile/Carpet,	102° F	Moderate	Normal	Discernible	Discernible
105						
110	25% Soil, 25% Plastic, 35% Paper, 10% Wood, 5% Textile/Carpet,	103° F	Moderate	Normal	Discernible	Discernible
115						
120	15% Soil, 25% Plastic, 30% Paper, 5% Wood, 5% Textile/Carpet, and Some 20	101° F	Much	Damp	Discernible	Discernible
125						
130	20% Soil, 25% Plastic, 30% Paper, 10% Wood, 5% Textile/Carpet, and Some 10	98° F	Much	Damp	Discernible	Discernible
135						
140	25% Soil, 30% Plastic, 20% Paper, 5% Wood, 5% Textile/Carpet, and Some 15	99° F	Much	Damp	Discernible	Discernible
145						
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300						

NOTES:

1. Decomposition Content:

Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:

Little - Printed material is readable. Refuse looks freshly buried.

Some

Moderate - Printed material not legible, branches intact.

Much

Severe - Black/brown mucky material.

3. Moisture Content Scale:

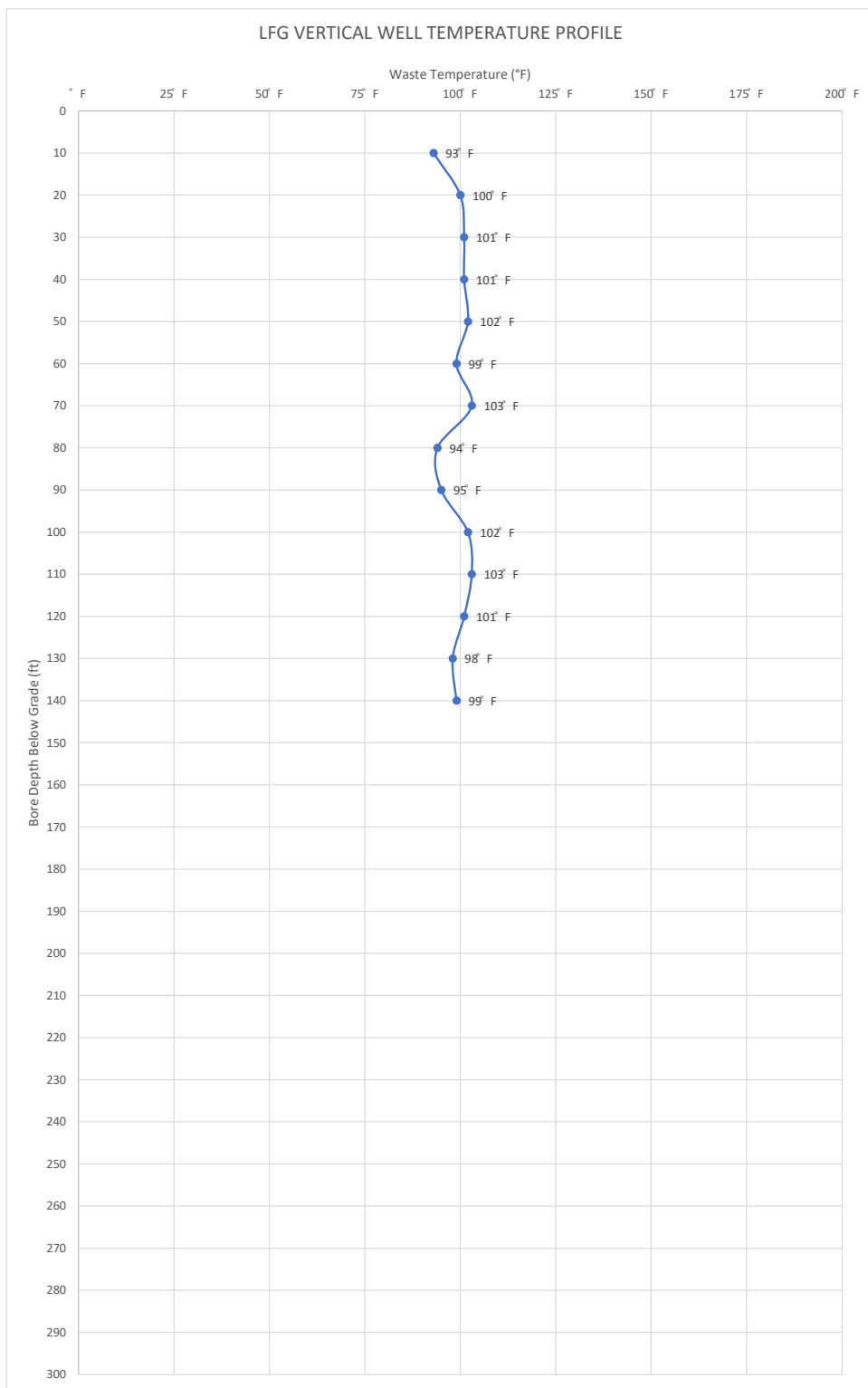
Dry Refuse (15%)- No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.

Normal (20-25%)- Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.

Damp (25-35%)- Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.

Wet (35-50%)- Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.

Saturated (50%)- Mud or free water present.

[illegible]

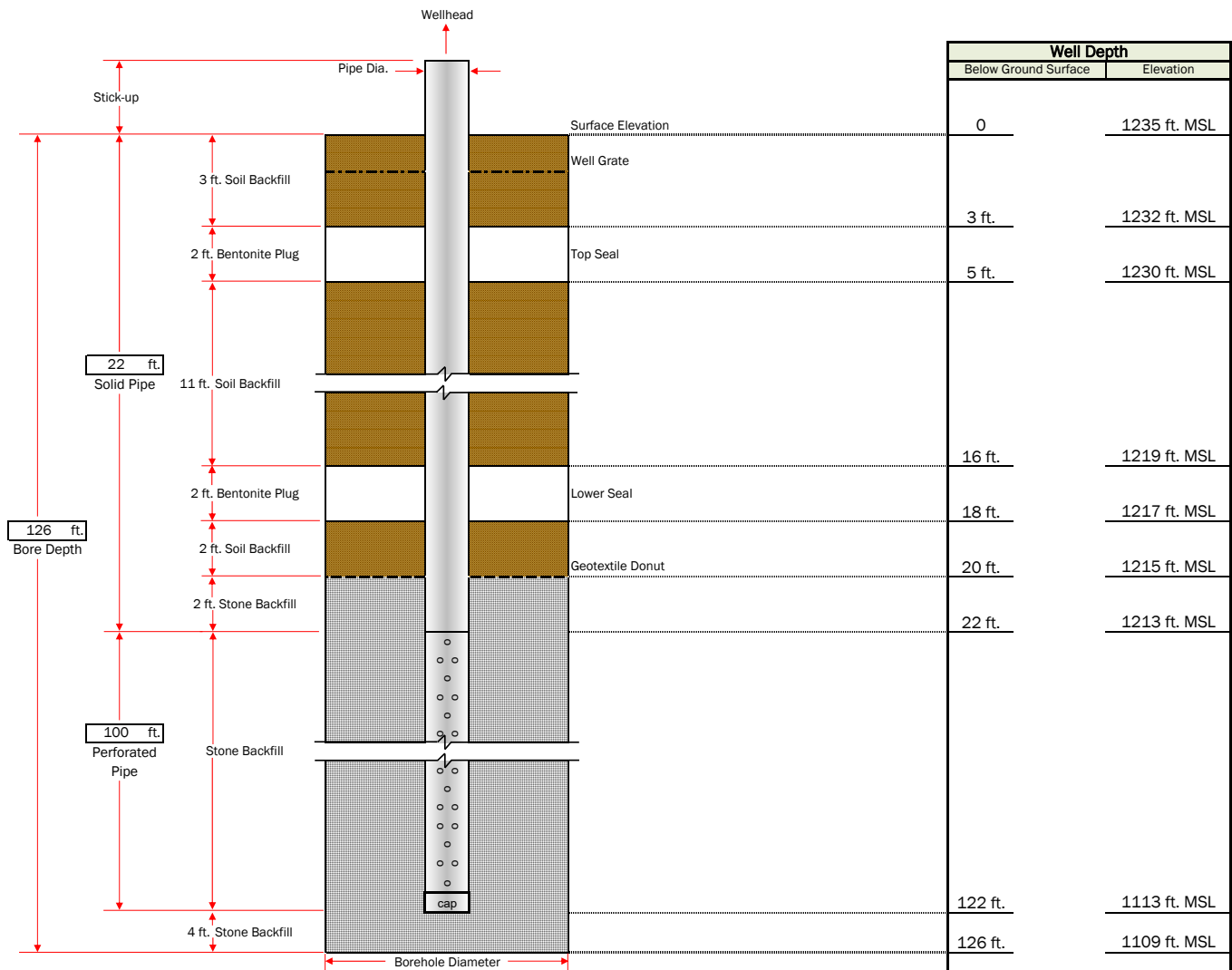
Project Name: 2025 GCCS Expansion
 Project Site: Loess Hills Landfill
 Project Location: Malvern, IA
 Site Technician:
 Contr. Supervisor: Nick Dalton (JCS)
 CQA Technical Staff: Josh Olson (SCS)
 Client Contact: Bret Stephens (IWS)

Start Date: 10/14/2025
 Completion Date: 10/14/2025
 Weather: Overcast
 Design Firm: SCS Engineers
 Surveying Firm: TD2
 Drilling Company: Joe Coleman & Son
 Drill Rig Type: Soilmecc SR-30

Well ID: GEW-57R
 Northing Coordinate: 5211.78
 Easting Coordinate: 3621.85
 Surface Elv (ft. msl): 1234.91
 Base Elv (ft. msl): 1108.91

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Observed
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	N/A
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1"-3" Washed N	Perf. (ft. bgs)	100	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	126
Well Depth (ft. bgs)	122



Field Notes/Comments:

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	10% Soil, 30% Plastic, 50% Paper, 5% Wood, 5% Textile/Carpet,	103° F	Little	Normal	Discernible	Discernible
15						
20	10% Soil, 20% Plastic, 50% Paper, 10% Wood, 10% Textile/Carpet,	111° F	Some	Normal	Discernible	Discernible
25						
30	10% Soil, 20% Plastic, 50% Paper, 10% Wood, 10% Textile/Carpet,	108° F	Some	Normal	Discernible	Discernible
35						
40	10% Soil, 20% Plastic, 20% Paper, 20% Wood, 10% Textile/Carpet, and Some 20	99° F	Some	Normal	Discernible	Discernible
45						
50	40% Soil, 10% Plastic, 30% Paper, 10% Wood, 10% Textile/Carpet,	100° F	Much	Normal	Discernible	Discernible
55						
60	30% Soil, 20% Plastic, 20% Paper, 10% Wood, 10% Textile/Carpet, and Some 10	99° F	Much	Normal	Discernible	Discernible
65						
70	30% Soil, 20% Plastic, 10% Paper, 10% Wood, 10% Textile/Carpet, and Some 20	101° F	Much	Normal	Discernible	Discernible
75						
80			Moderate	Normal	Discernible	Discernible
85						
90	15% Soil, 35% Plastic, 10% Paper, 20% Wood, 10% Textile/Carpet, and Some 10	109° F	Moderate	Normal	Discernible	Discernible
95						
100	40% Soil, 15% Plastic, 15% Paper, 10% Wood, 10% Textile/Carpet, and Some 10	111° F	Moderate	Normal	Discernible	Discernible
105						
110	20% Soil, 20% Plastic, 10% Paper, 20% Wood, 10% Textile/Carpet, and Some 20	103° F	Much	Damp	Discernible	Discernible
115						
120	30% Soil, 20% Plastic, 20% Paper, 15% Wood, 15% Textile/Carpet,	105° F	Severe	Damp	Discernible	Discernible
126		98° F	Severe	Damp	Discernible	Discernible
130						
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NOTES:

1. Decomposition Content:

Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:

Little - Printed material is readable. Refuse looks freshly buried.

Some

Moderate - Printed material not legible, branches intact.

Much

Severe - Black/brown mucky material.

3. Moisture Content Scale:

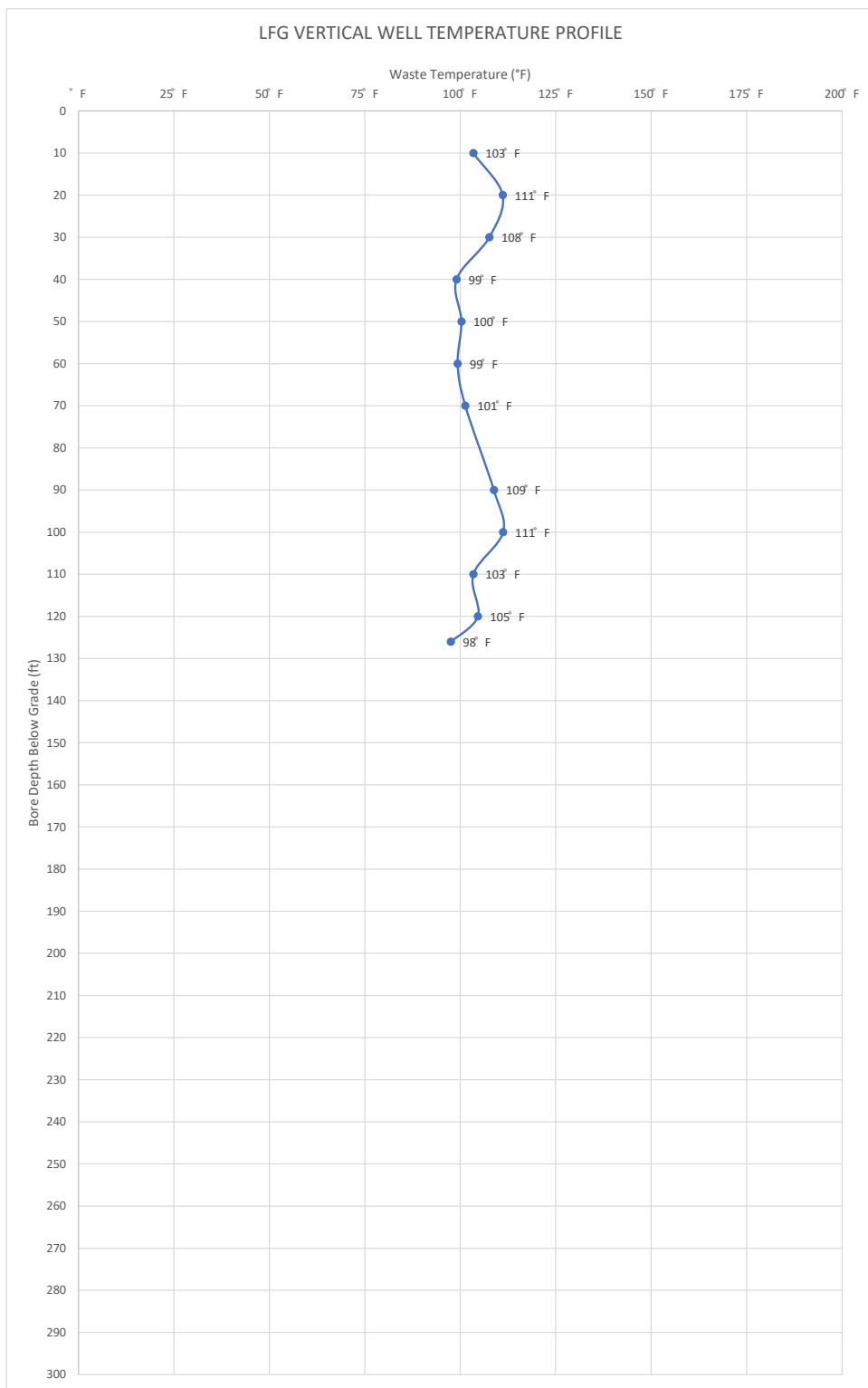
Dry Refuse (15%)- No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.

Normal (20-25%)- Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.

Damp (25-35%)- Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.

Wet (35-50%)- Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.

Saturated (50%)- Mud or free water present.

[illegible]

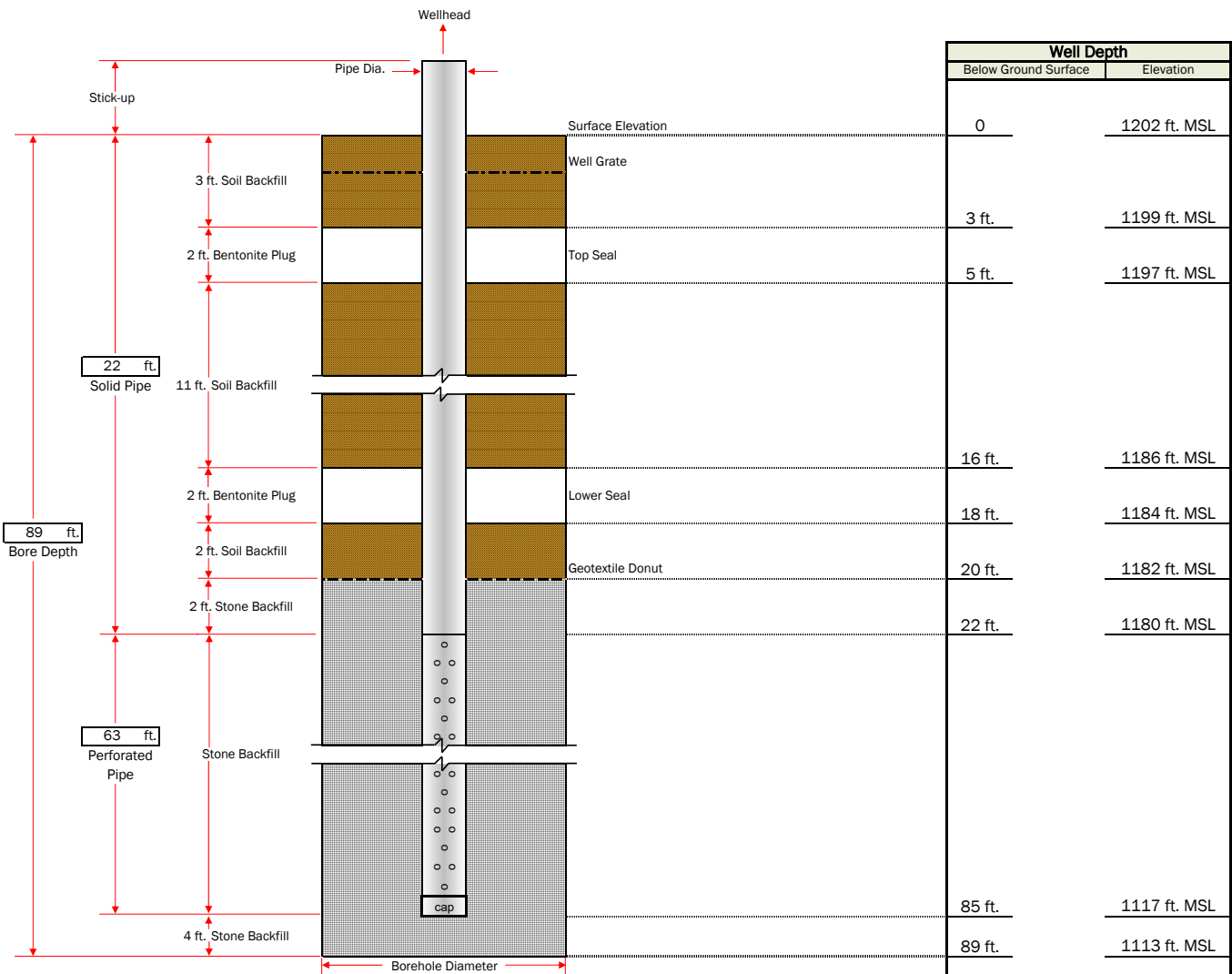
Project Name: 2025 GCCS Expansion
 Project Site: Loess Hills Landfill
 Project Location: Malvern, IA
 Site Technician:
 Contr. Supervisor: Nick Dalton (JCS)
 CQA Technical Staff: Josh Olson (SCS)
 Client Contact: Bret Stephens (IWS)

Start Date: 10/14/2025
 Completion Date: 10/14/2025
 Weather: Overcast
 Design Firm: SCS Engineers
 Surveying Firm: TD2
 Drilling Company: Joe Coleman & Son
 Drill Rig Type: Soilmec SR-30

Well ID: GEW-62R
 Northing Coordinate: 5325.70
 Easting Coordinate: 3720.95
 Surface Elv (ft. msl): 1201.88
 Base Elv (ft. msl): 1112.88

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Observed
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	N/A
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1"-3" Washed N	Perf. (ft. bgs)	63	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	89
Well Depth (ft. bgs)	85



Field Notes/Comments:

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	10% Soil, 40% Plastic, 40% Paper, 5% Wood, 5% Textile/Carpet,	77° F	Little	Normal	Discernible	None Discernible
15						
20	20% Soil, 30% Plastic, 40% Paper, 5% Wood, 5% Textile/Carpet,	80° F	Little	Normal	Discernible	Discernible
25						
30	40% Soil, 30% Plastic, 20% Paper, 5% Wood, 5% Textile/Carpet,	93° F	Some	Normal	Discernible	Discernible
35						
40	25% Soil, 30% Plastic, 25% Paper, 10% Wood, 10% Textile/Carpet,	84° F	Some	Normal	Discernible	Discernible
45						
50	30% Soil, 25% Plastic, 25% Paper, 15% Wood, 5% Textile/Carpet,	104° F	Some	Normal	Discernible	Discernible
55						
60	20% Soil, 30% Plastic, 30% Paper, 5% Wood, 5% Textile/Carpet, and Some 10	116° F	Moderate	Normal	Discernible	Discernible
65						
70	15% Soil, 35% Plastic, 25% Paper, 5% Wood, 15% Textile/Carpet, and Some 5	121° F	Moderate	Normal	Discernible	Extremely Discernible
75						
80	30% Soil, 20% Plastic, 25% Paper, 10% Wood, 10% Textile/Carpet, and Some 5	127° F	Much	Damp	Discernible	Extremely Discernible
85						
89	15% Soil, 35% Plastic, 20% Paper, 10% Wood, 10% Textile/Carpet, and Some 10	103° F	Moderate	Normal	Discernible	Discernible
95						
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NOTES:

1. Decomposition Content:

Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:

Little - Printed material is readable. Refuse looks freshly buried.

Some

Moderate - Printed material not legible, branches intact.

Much

Severe - Black/brown mucky material.

3. Moisture Content Scale:

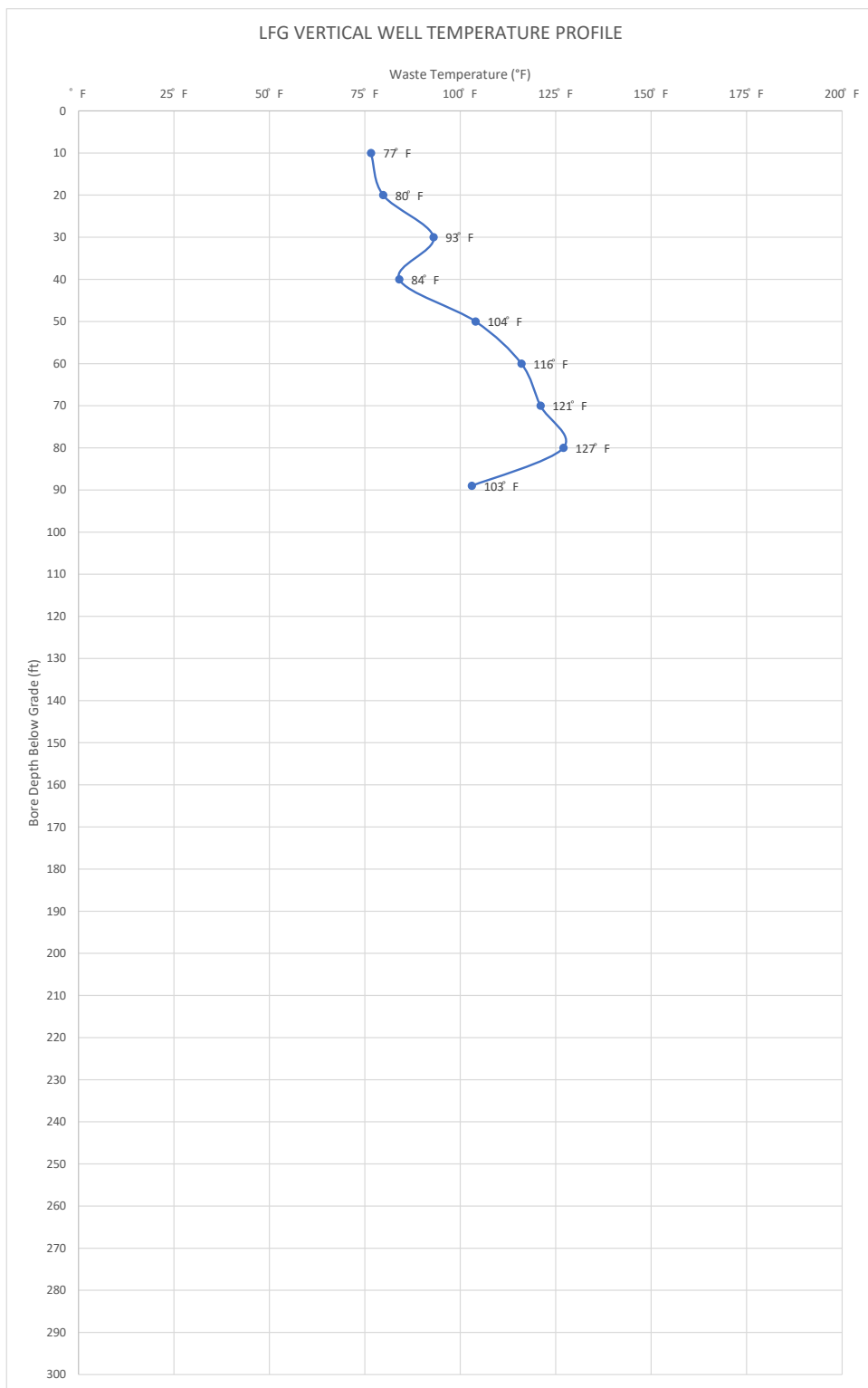
Dry Refuse (15%)- No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.

Normal (20-25%)- Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.

Damp (25-35%)- Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.

Wet (35-50%)- Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.

Saturated (50%)- Mud or free water present.

[illegible]

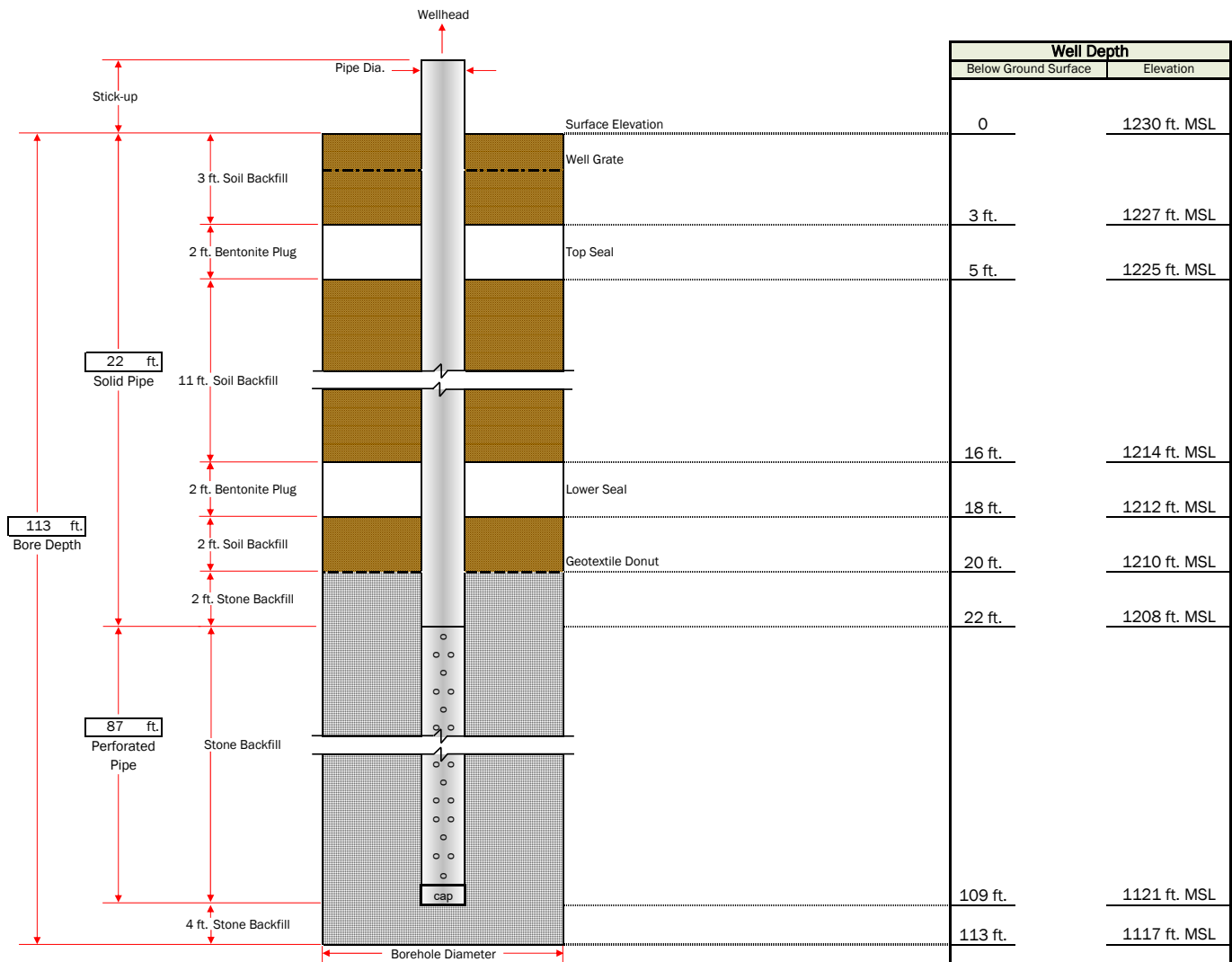
Project Name: 2025 GCCS Expansion
 Project Site: Loess Hills Landfill
 Project Location: Malvern, IA
 Site Technician:
 Contr. Supervisor: Nick Dalton (JCS)
 CQA Technical Staff: Josh Olson (SCS)
 Client Contact: Bret Stephens (IWS)

Start Date: 10/15/2025
 Completion Date: 10/15/2025
 Weather: Cloudy
 Design Firm: SCS Engineers
 Surveying Firm: TD2
 Drilling Company: Joe Coleman & Son
 Drill Rig Type: Soilmec SR-30

Well ID: GEW-63R
 Northing Coordinate: 5337.54
 Easting Coordinate: 3562.14
 Surface Elv (ft. msl): 1229.95
 Base Elv (ft. msl): 1116.95

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Observed
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	N/A
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1"-3" Washed N	Perf. (ft. bgs)	87	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	113
Well Depth (ft. bgs)	109



Field Notes/Comments:

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	50% Soil, 15% Plastic, 15% Paper, 10% Wood, 10% Textile/Carpet,	91° F	Little	Normal	Discernible	Discernible
15						
20	25% Soil, 30% Plastic, 30% Paper, 10% Wood, 5% Textile/Carpet,	95° F	Some	Normal	Discernible	Discernible
25						
30	15% Soil, 25% Plastic, 50% Paper, 10% Wood, 10% Textile/Carpet,	109° F	Some	Normal	Discernible	Extremely Discernible
35						
40	25% Soil, 20% Plastic, 35% Paper, 15% Wood, 5% Textile/Carpet,	108° F	Moderate	Normal	Discernible	Discernible
45						
50	15% Soil, 20% Plastic, 30% Paper, 10% Wood, 5% Textile/Carpet, and Some 20	98° F	Moderate	Damp	Discernible	Discernible
55						
60	20% Soil, 25% Plastic, 35% Paper, 5% Wood, 5% Textile/Carpet, and Some 10	97° F	Much	Normal	Discernible	Discernible
65						
70	20% Soil, 15% Plastic, 30% Paper, 5% Wood, 10% Textile/Carpet, and Some 20	109° F	Much	Damp	Discernible	Discernible
75						
80	15% Soil, 20% Plastic, 30% Paper, 10% Wood, 10% Textile/Carpet, and Some 15	106° F	Much	Damp	Discernible	Discernible
85						
90	20% Soil, 20% Plastic, 25% Paper, 5% Wood, 15% Textile/Carpet, and Some 15	118° F	Much	Damp	Discernible	Discernible
95						
100	25% Soil, 15% Plastic, 30% Paper, 10% Wood, 10% Textile/Carpet, and Some 10	121° F	Much	Damp	Discernible	Discernible
105						
110						
113	30% Soil, 15% Plastic, 20% Paper, 10% Wood, 10% Textile/Carpet, and Some 15	117° F	Much	Damp	Discernible	Discernible
120						
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NOTES:

1. Decomposition Content:

Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:

Little - Printed material is readable. Refuse looks freshly buried.

Some

Moderate - Printed material not legible, branches intact.

Much

Severe - Black/brown mucky material.

3. Moisture Content Scale:

Dry Refuse (15%)- No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.

Normal (20-25%)- Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.

Damp (25-35%)- Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.

Wet (35-50%)- Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.

Saturated (50%)- Mud or free water present.

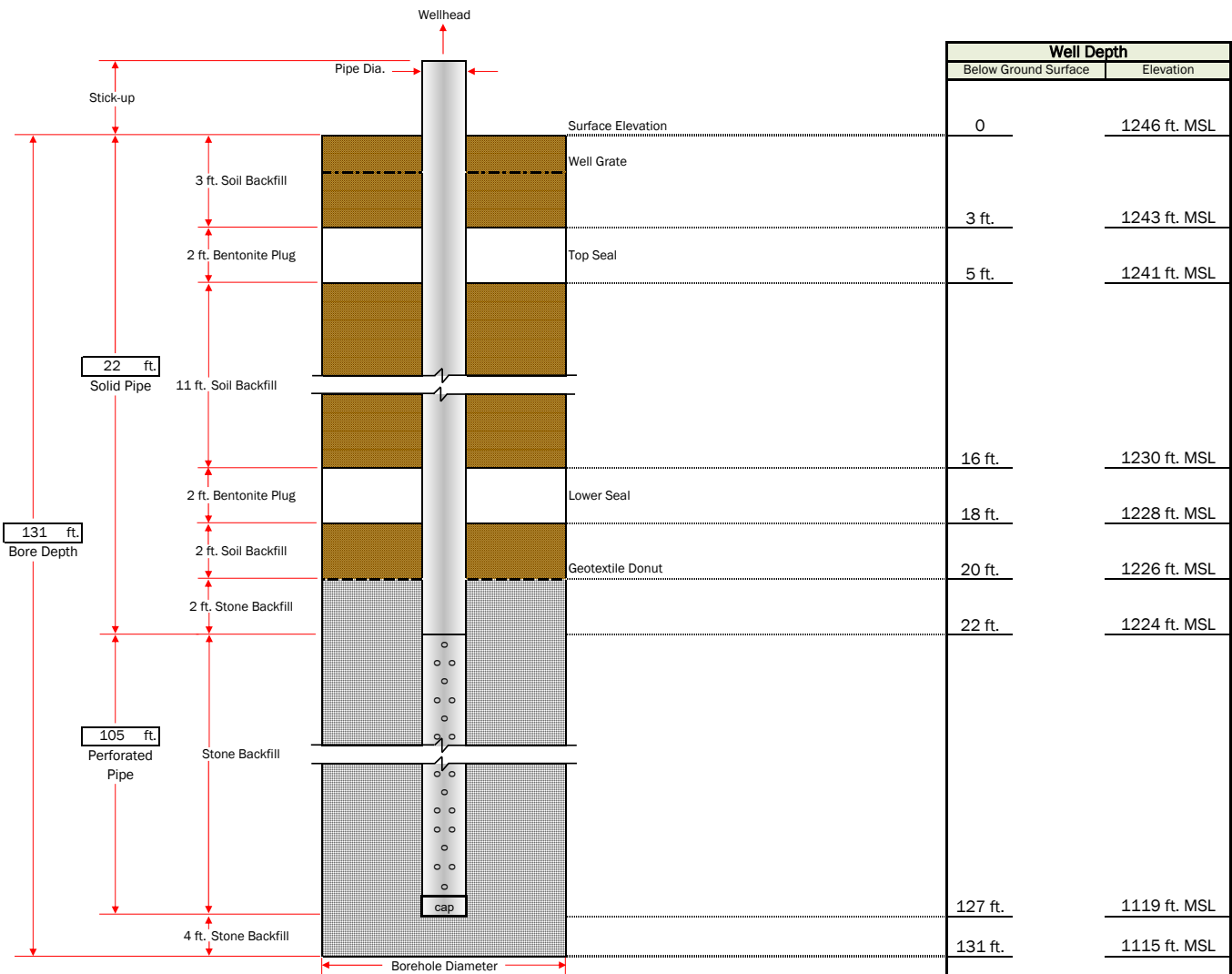
Project Name: 2025 GCCS Expansion
 Project Site: Loess Hills Landfill
 Project Location: Malvern, IA
 Site Technician:
 Contr. Supervisor: Nick Dalton (JCS)
 CQA Technical Staff: Josh Olson (SCS)
 Client Contact: Bret Stephens (IWS)

Start Date: 10/16/2025
 Completion Date: 10/16/2025
 Weather: Sunny
 Design Firm: SCS Engineers
 Surveying Firm: TD2
 Drilling Company: Joe Coleman & Son
 Drill Rig Type: Soilmecc SR-30

Well ID: GEW-64R2
 Northing Coordinate: 5370.54
 Easting Coordinate: 3417.80
 Surface Elv (ft. msl): 1246.07
 Base Elv (ft. msl): 1115.07

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Notified
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	N/A
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1" 3" Washed N	Perf. (ft. bgs)	105	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	131
Well Depth (ft. bgs)	127



Field Notes/Comments:

Strong wind gusts obscuring waste heat and gas odor.

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	45% Soil, 25% Plastic, 20% Paper, 5% Wood, 5% Textile/Carpet,	93° F	Little	Normal	Discernible	None Discernible
15						
20	35% Soil, 20% Plastic, 20% Paper, 15% Wood, 10% Textile/Carpet,	89° F	Little	Normal	Discernible	None Discernible
25						
30	30% Soil, 20% Plastic, 30% Paper, 5% Wood, 15% Textile/Carpet,	89° F	Some	Normal	Discernible	None Discernible
35						
40	25% Soil, 25% Plastic, 30% Paper, 10% Wood, 10% Textile/Carpet,	97° F	Some	Normal	Discernible	None Discernible
45						
50	30% Soil, 20% Plastic, 35% Paper, 10% Wood, 5% Textile/Carpet,	106° F	Some	Normal	Discernible	None Discernible
55						
60	35% Soil, 25% Plastic, 20% Paper, 10% Wood, 10% Textile/Carpet,	103° F	Some	Normal	Discernible	None Discernible
65						
70	30% Soil, 20% Plastic, 25% Paper, 5% Wood, 10% Textile/Carpet, and Some 10	112° F	Moderate	Normal	Discernible	None Discernible
75						
80	30% Soil, 15% Plastic, 25% Paper, 10% Wood, 10% Textile/Carpet, and Some 10	119° F	Moderate	Normal	Discernible	None Discernible
85						
90	25% Soil, 25% Plastic, 20% Paper, 5% Wood, 5% Textile/Carpet, and Some 20	120° F	Much	Normal	Discernible	Discernible
95						
100	30% Soil, 15% Plastic, 20% Paper, 10% Wood, 15% Textile/Carpet, and Some 10	113° F	Much	Normal	Discernible	Discernible
105						
110	25% Soil, 15% Plastic, 25% Paper, 10% Wood, 10% Textile/Carpet, and Some 15	111° F	Much	Damp	Discernible	Discernible
115						
120	30% Soil, 25% Plastic, 20% Paper, 5% Wood, 5% Textile/Carpet, and Some 15	112° F	Much	Damp	Discernible	Discernible
125						
131	20% Soil, 30% Plastic, 30% Paper, 5% Wood, 5% Textile/Carpet, and Some 10	114° F	Much	Damp	Discernible	Discernible
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NOTES:

1. Decomposition Content:

Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:

Little - Printed material is readable. Refuse looks freshly buried.

Some

Moderate - Printed material not legible, branches intact.

Much

Severe - Black/brown mucky material.

3. Moisture Content Scale:

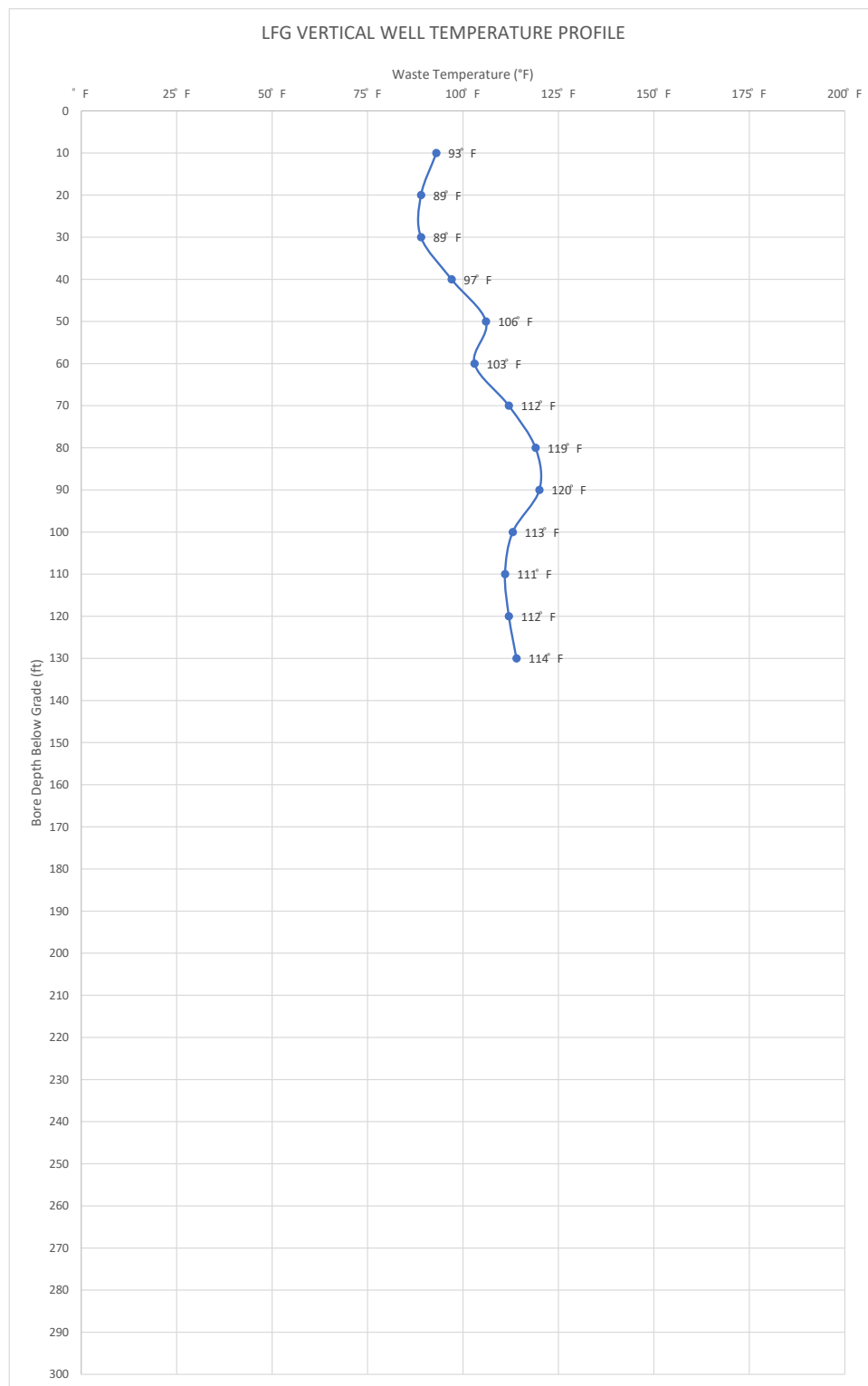
Dry Refuse (15%)- No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.

Normal (20-25%)- Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.

Damp (25-35%)- Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.

Wet (35-50%)- Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.

Saturated (50%)- Mud or free water present.

[illegible]

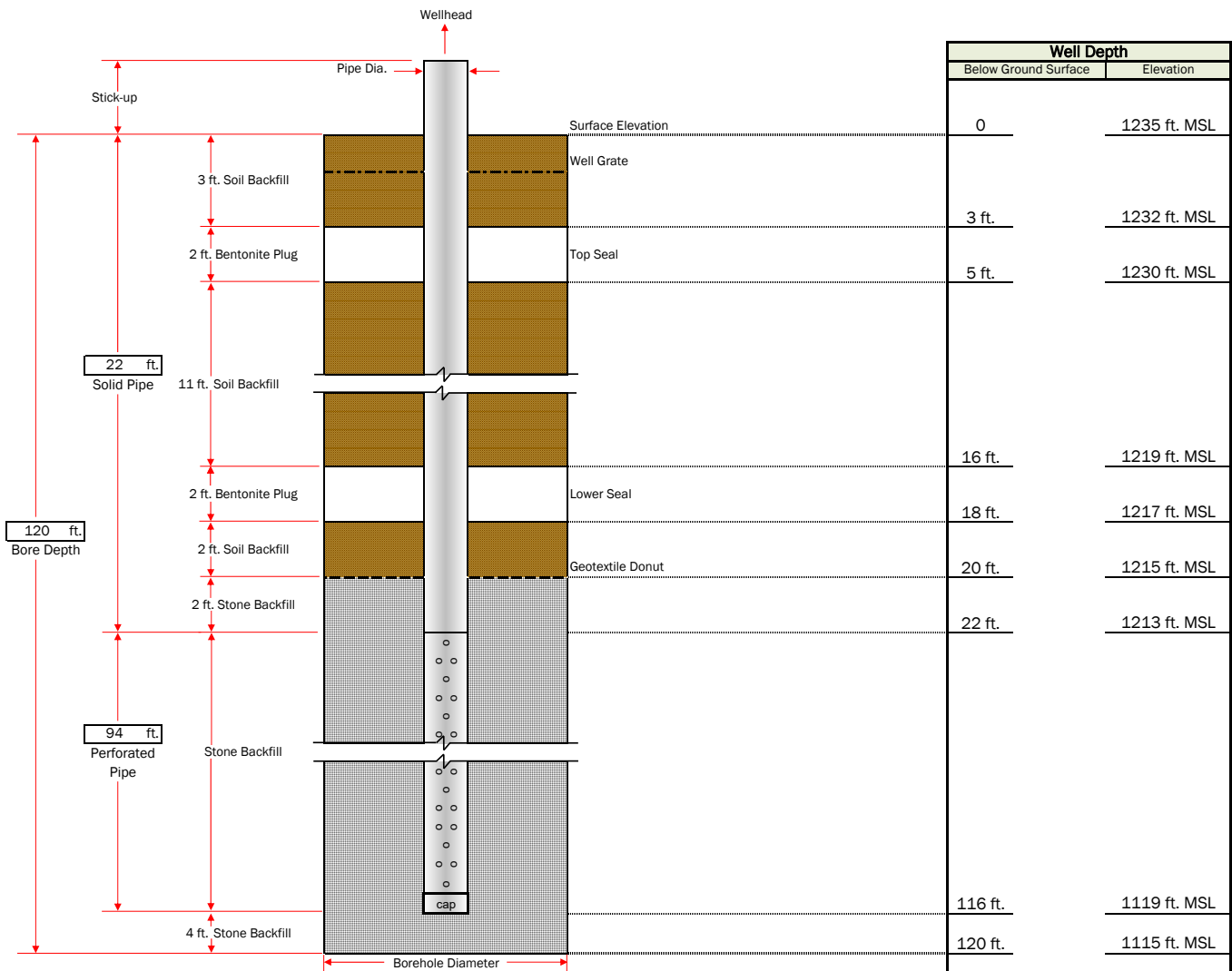
Project Name: 2025 GCCS Expansion
 Project Site: Loess Hills Landfill
 Project Location: Malvern, IA
 Site Technician:
 Contr. Supervisor: Nick Dalton (JCS)
 CQA Technical Staff: Josh Olson (SCS)
 Client Contact: Bret Stephens (IWS)

Start Date: 10/16/2025
 Completion Date: 10/16/2025
 Weather: Sunny
 Design Firm: SCS Engineers
 Surveying Firm: TD2
 Drilling Company: Joe Coleman & Son
 Drill Rig Type: Soilmecc SR-30

Well ID: GEW-65R
 Northing Coordinate: 5461.11
 Easting Coordinate: 3390.34
 Surface Elv (ft. msl): 1234.69
 Base Elv (ft. msl): 1114.69

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Observed
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	N/A
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1"-3" Washed N	Perf. (ft. bgs)	94	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	120
Well Depth (ft. bgs)	116



Field Notes/Comments:

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	50% Soil, 20% Plastic, 15% Paper, 10% Wood, 5% Textile/Carpet,	86° F	Little	Normal	Discernible	None Discernible
15						
20	35% Soil, 20% Plastic, 25% Paper, 10% Wood, 10% Textile/Carpet,	90° F	Little	Normal	Discernible	None Discernible
25						
30	35% Soil, 30% Plastic, 20% Paper, 5% Wood, 10% Textile/Carpet,	92° F	Little	Normal	Discernible	Discernible
35						
40	30% Soil, 25% Plastic, 35% Paper, 5% Wood, 5% Textile/Carpet,	105° F	Some	Normal	Discernible	Discernible
45						
50	30% Soil, 20% Plastic, 25% Paper, 10% Wood, 15% Textile/Carpet,	105° F	Some	Normal	Discernible	Discernible
55						
60	20% Soil, 25% Plastic, 25% Paper, 15% Wood, 5% Textile/Carpet, and Some 10	111° F	Moderate	Damp	Discernible	Discernible
65						
70	20% Soil, 30% Plastic, 25% Paper, 5% Wood, 5% Textile/Carpet, and Some 15	115° F	Moderate	Damp	Discernible	Extremely Discernible
75						
80	25% Soil, 25% Plastic, 35% Paper, 10% Wood, 5% Textile/Carpet,	113° F	Moderate	Damp	Discernible	Discernible
85						
90	20% Soil, 20% Plastic, 40% Paper, 5% Wood, 5% Textile/Carpet, and Some 10	117° F	Much	Damp	Discernible	Discernible
95						
100	25% Soil, 25% Plastic, 25% Paper, 10% Wood, 5% Textile/Carpet, and Some 10	121° F	Much	Damp	Discernible	Extremely Discernible
105						
110	20% Soil, 30% Plastic, 20% Paper, 5% Wood, 5% Textile/Carpet, and Some 20	120° F	Severe	Damp	Discernible	Discernible
115						
120	30% Soil, 20% Plastic, 20% Paper, 10% Wood, 10% Textile/Carpet, and Some 10	104° F	Much	Damp	Discernible	Discernible
125						
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NOTES:

1. Decomposition Content:

Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:

Little - Printed material is readable. Refuse looks freshly buried.

Some

Moderate - Printed material not legible, branches intact.

Much

Severe - Black/brown mucky material.

3. Moisture Content Scale:

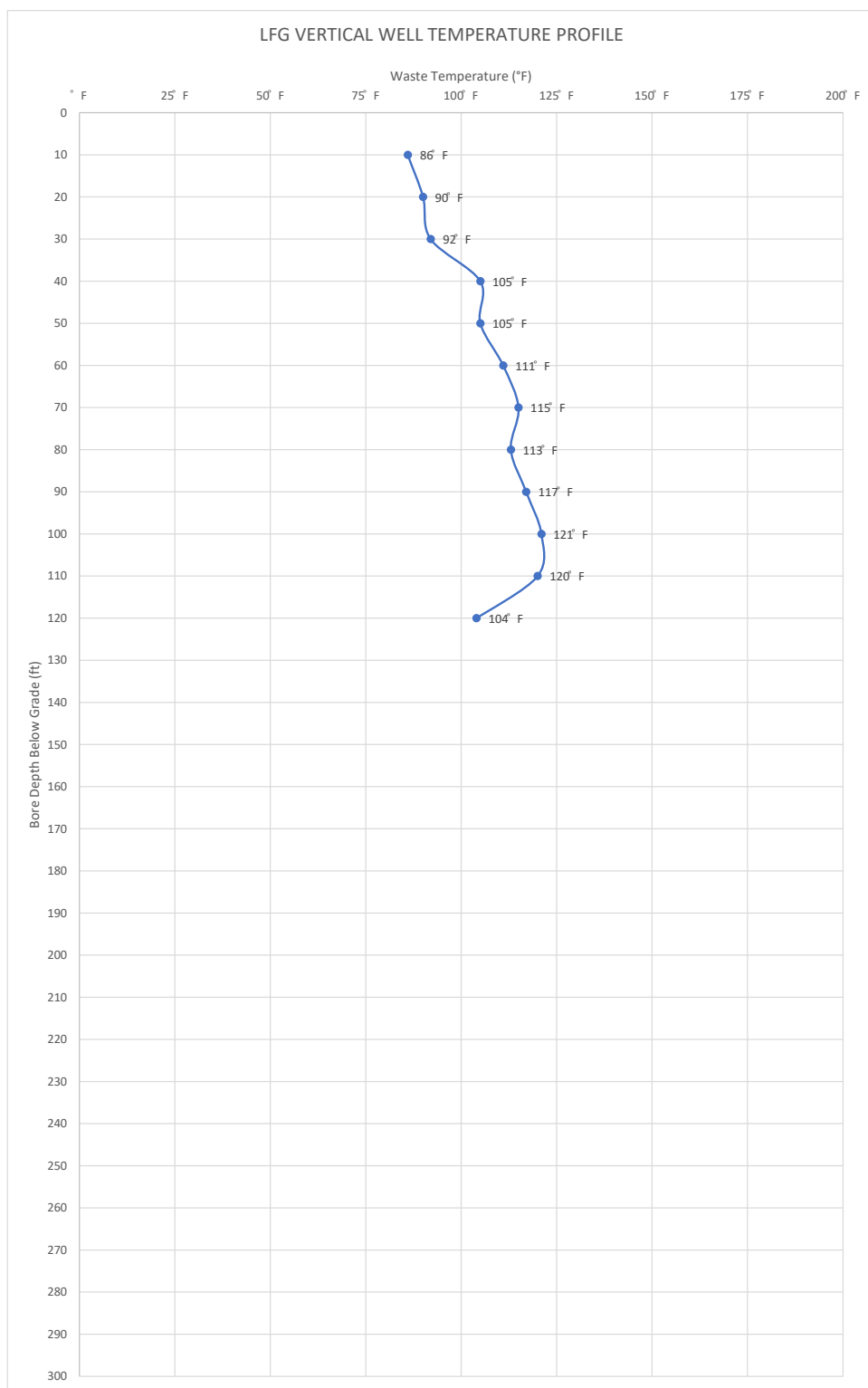
Dry Refuse (15%)- No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.

Normal (20-25%)- Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.

Damp (25-35%)- Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.

Wet (35-50%)- Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.

Saturated (50%)- Mud or free water present.

[illegible]

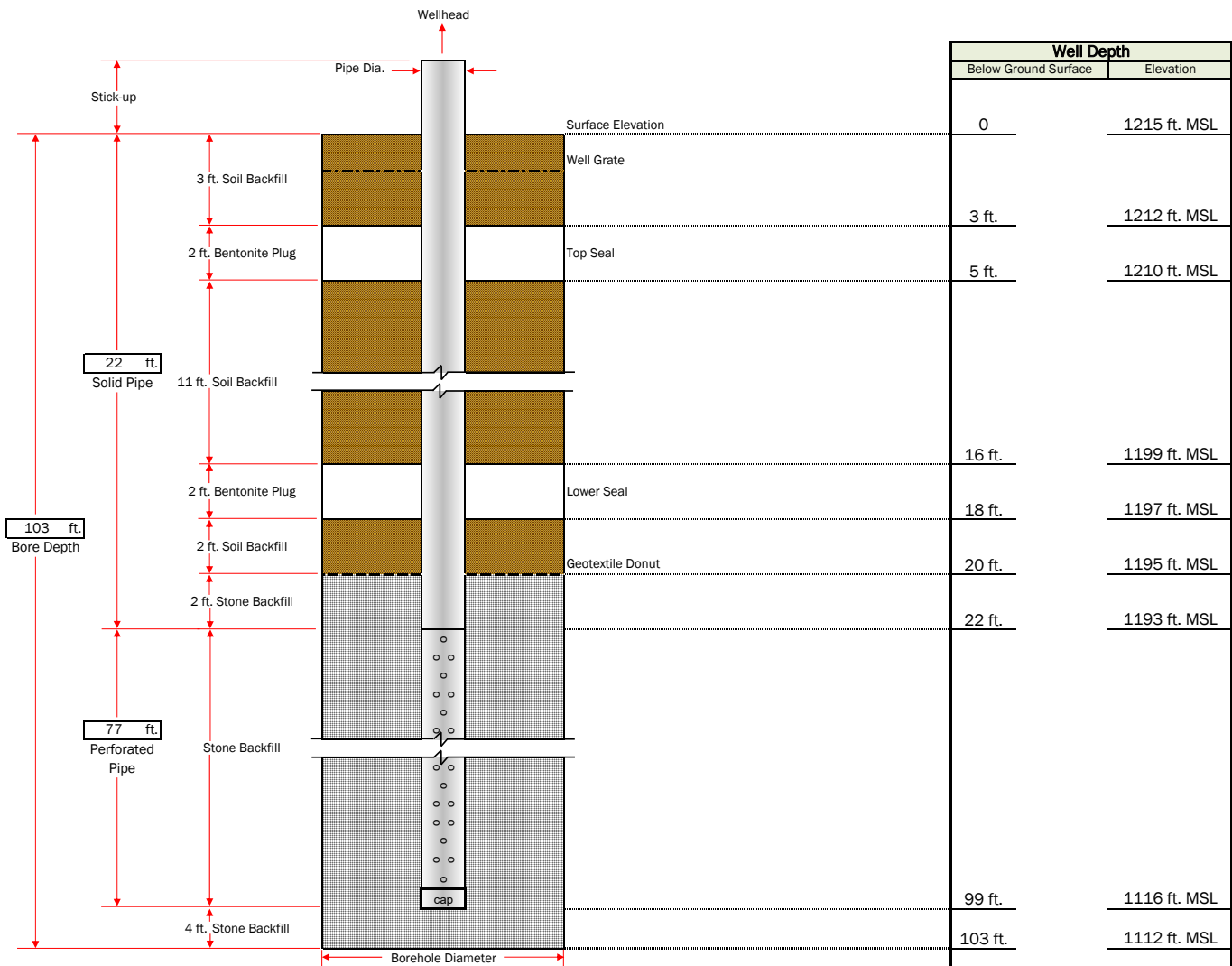
Project Name: 2025 GCCS Expansion
 Project Site: Loess Hills Landfill
 Project Location: Malvern, IA
 Site Technician:
 Contr. Supervisor: Nick Dalton (JCS)
 CQA Technical Staff: Josh Olson (SCS)
 Client Contact: Bret Stephens (IWS)

Start Date: 10/15/2025
 Completion Date: 10/15/2025
 Weather: Cloudy
 Design Firm: SCS Engineers
 Surveying Firm: TD2
 Drilling Company: Joe Coleman & Son
 Drill Rig Type: Soilmecc SR-30

Well ID: GEW-66R
 Northing Coordinate: 5490.97
 Easting Coordinate: 3522.30
 Surface Elv (ft. msl): 1215.49
 Base Elv (ft. msl): 1112.49

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Observed
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	N/A
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1" 3" Washed N	Perf. (ft. bgs)	77	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	103
Well Depth (ft. bgs)	99



Field Notes/Comments:

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	50% Soil, 25% Plastic, 15% Paper, 5% Wood, 5% Textile/Carpet,	72° F	Little	Normal	Discernible	None Discernible
15						
20	35% Soil, 30% Plastic, 20% Paper, 10% Wood, 5% Textile/Carpet,	75° F	Little	Normal	Discernible	None Discernible
25						
30	25% Soil, 35% Plastic, 20% Paper, 10% Wood, 10% Textile/Carpet,	87° F	Little	Normal	Discernible	None Discernible
35						
40	25% Soil, 30% Plastic, 20% Paper, 15% Wood, 10% Textile/Carpet,	94° F	Some	Normal	Discernible	Discernible
45						
50	25% Soil, 40% Plastic, 25% Paper, 5% Wood, 5% Textile/Carpet,	97° F	Some	Normal	Discernible	Discernible
55						
60	30% Soil, 30% Plastic, 30% Paper, 5% Wood, 5% Textile/Carpet,	97° F	Some	Normal	Discernible	Discernible
65						
70	20% Soil, 20% Plastic, 30% Paper, 5% Wood, 15% Textile/Carpet, and Some 10	109° F	Moderate	Damp	Discernible	Discernible
75						
80	25% Soil, 25% Plastic, 15% Paper, 10% Wood, 10% Textile/Carpet, and Some 15	117° F	Moderate	Damp	Discernible	Discernible
85						
90	30% Soil, 20% Plastic, 25% Paper, 5% Wood, 15% Textile/Carpet, and Some 5	126° F	Much	Normal	Discernible	Discernible
95						
100	30% Soil, 20% Plastic, 20% Paper, 10% Wood, 10% Textile/Carpet, and Some 10	114° F	Much	Damp	Discernible	Discernible
103	30% Soil, 20% Plastic, 20% Paper, 10% Wood, 10% Textile/Carpet, and Some 10	115° F	Much	Damp	Discernible	Discernible
110						
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300						

NOTES:

1. Decomposition Content:

Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:

Little - Printed material is readable. Refuse looks freshly buried.

Some

Moderate - Printed material not legible, branches intact.

Much

3. Moisture Content Scale:

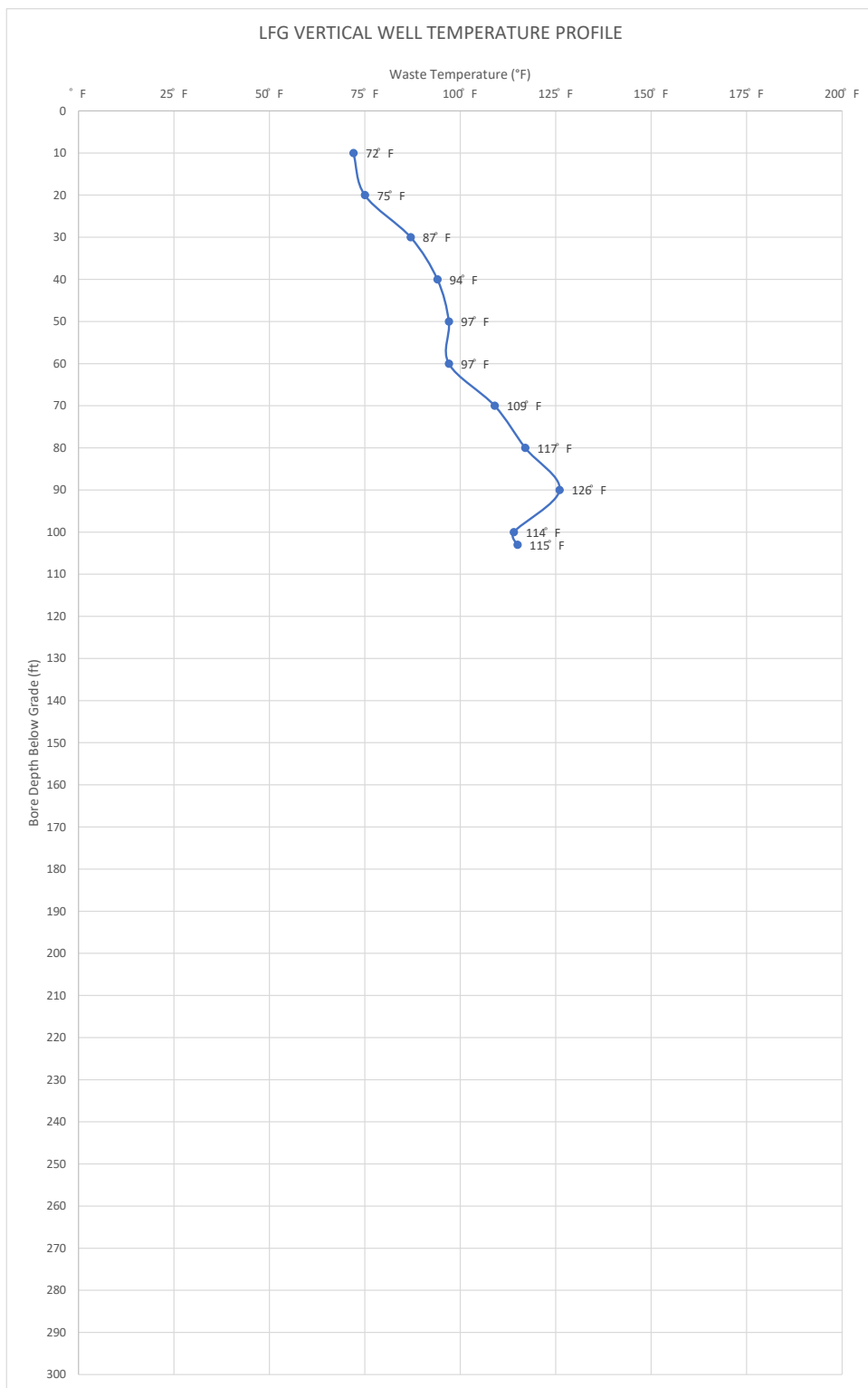
Dry Refuse (15%)- No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.

Normal (20-25%)- Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.

Damp (25-35%)- Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.

Wet (35-50%)- Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.

Saturated (50%)- Mud or free water present.

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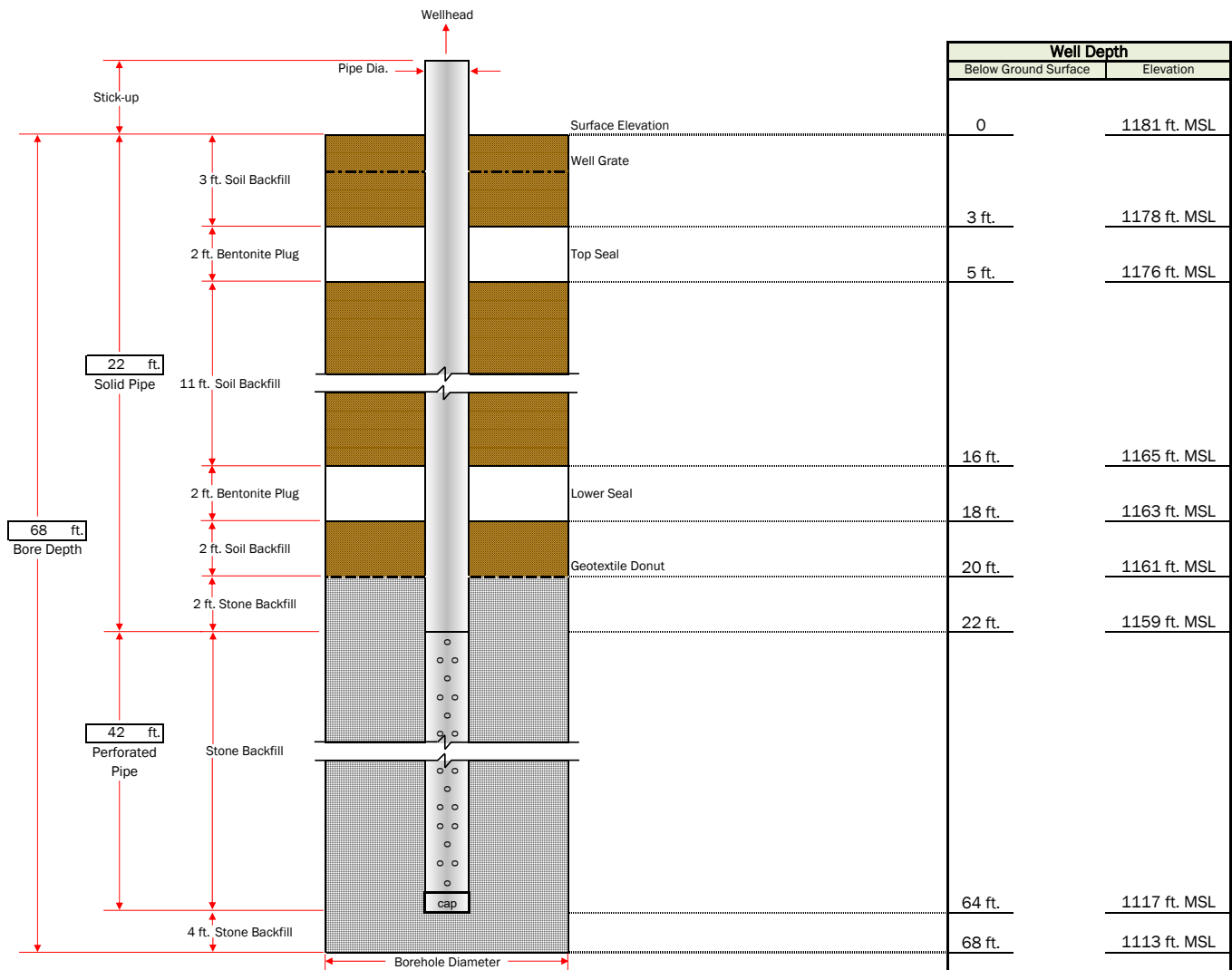
Project Name: 2025 GCCS Expansion
 Project Site: Loess Hills Landfill
 Project Location: Malvern, IA
 Site Technician:
 Contr. Supervisor: Nick Dalton (JCS)
 CQA Technical Staff: Josh Olson (SCS)
 Client Contact: Bret Stephens (IWS)

Start Date: 10/21/2025
 Completion Date: 10/21/2025
 Weather: Clear
 Design Firm: SCS Engineers
 Surveying Firm: TD2
 Drilling Company: Joe Coleman & Son
 Drill Rig Type: Soilmecc SR-30

Well ID: GEW-67R
 Northing Coordinate: 5547.66
 Easting Coordinate: 3671.80
 Surface Elv (ft. msl): 1180.85
 Base Elv (ft. msl): 1112.85

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Observed
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	N/A
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1"-3" Washed N	Perf. (ft. bgs)	42	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	68
Well Depth (ft. bgs)	64



Field Notes/Comments:

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	35% Soil, 30% Plastic, 35% Paper,	73° F	Little	Normal	Discernible	Discernible
15						
20	30% Soil, 20% Plastic, 25% Paper, 10% Wood, 5% Textile/Carpet,	102° F	Some	Normal	Discernible	Discernible
25						
30	30% Soil, 25% Plastic, 20% Paper, 10% Wood, 10% Textile/Carpet, and Some 5	113° F	Some	Normal	Discernible	Discernible
35						
40	25% Soil, 35% Plastic, 30% Paper, 5% Wood, 5% Textile/Carpet,	117° F	Some	Normal	Discernible	Discernible
45						
50	30% Soil, 20% Plastic, 30% Paper, 10% Wood, 5% Textile/Carpet,	122° F	Moderate	Normal	Discernible	Extremely Discernible
55						
60	25% Soil, 30% Plastic, 35% Paper, 10% Wood,	115° F	Moderate	Normal	Discernible	Extremely Discernible
65						
68	25% Soil, 25% Plastic, 30% Paper, 5% Wood, 5% Textile/Carpet, and Some 10	108° F	Moderate	Normal	Discernible	Extremely Discernible
75						
80						
85						
90						
95						
100						
105						
110						
115						
120						
125						
130						
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295						
300						

NOTES:

1. Decomposition Content:

Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:

Little - Printed material is readable. Refuse looks freshly buried.

Some

Moderate - Printed material not legible, branches intact.

Much

Severe - Black/brown mucky material.

3. Moisture Content Scale:

Dry Refuse (15%)- No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.

Normal (20-25%)- Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.

Damp (25-35%)- Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.

Wet (35-50%)- Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.

Saturated (50%)- Mud or free water present.

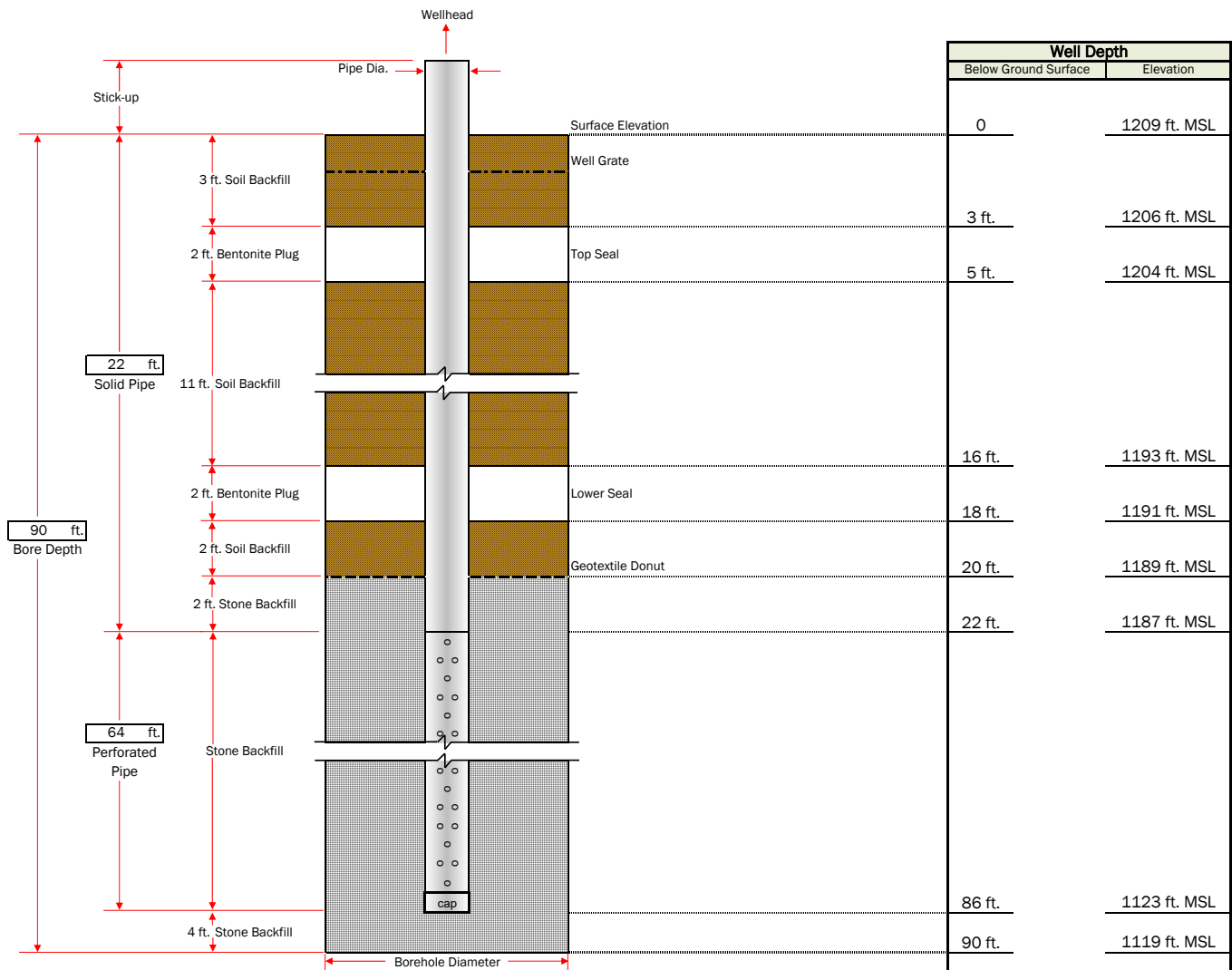
Project Name: 2025 GCCS Expansion
 Project Site: Loess Hills Landfill
 Project Location: Malvern, IA
 Site Technician:
 Contr. Supervisor: Nick Dalton (JCS)
 CQA Technical Staff: Josh Olson (SCS)
 Client Contact: Bret Stephens (IWS)

Start Date: 10/16/2025
 Completion Date: 10/16/2025
 Weather: Sunny
 Design Firm: SCS Engineers
 Surveying Firm: TD2
 Drilling Company: Joe Coleman & Son
 Drill Rig Type: Soilmecc SR-30

Well ID: GEW-71R
 Northing Coordinate: 5605.06
 Easting Coordinate: 3396.13
 Surface Elv (ft. msl): 1208.84
 Base Elv (ft. msl): 1118.84

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Observed
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	N/A
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1"-3" Washed N	Perf. (ft. bgs)	64	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	90
Well Depth (ft. bgs)	86



Field Notes/Comments:

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	80% Soil, 10% Plastic, 10% Paper,	72° F	Little	Normal	Discernible	None Discernible
15						
20	35% Soil, 20% Plastic, 25% Paper, 10% Wood, 10% Textile/Carpet,	76° F	Little	Normal	Discernible	None Discernible
25						
30	30% Soil, 25% Plastic, 20% Paper, 10% Wood, 10% Textile/Carpet, 5% Rubber,	82° F	Little	Normal	Discernible	None Discernible
35						
40	30% Soil, 20% Plastic, 30% Paper, 5% Wood, 15% Textile/Carpet,	101° F	Little	Normal	Discernible	Discernible
45						
50	35% Soil, 25% Plastic, 30% Paper, 5% Wood, 5% Textile/Carpet,	99° F	Some	Normal	Discernible	Discernible
55						
60			Moderate	Normal	Discernible	Discernible
65						
70	20% Soil, 35% Plastic, 35% Paper, 5% Wood, 5% Textile/Carpet,	109° F	Moderate	Normal	Discernible	Discernible
75						
80	25% Soil, 30% Plastic, 25% Paper, 10% Wood, 5% Textile/Carpet, and Some 5	103° F	Moderate	Damp	Discernible	Discernible
85						
90	30% Soil, 20% Plastic, 25% Paper, 10% Wood, 10% Textile/Carpet, and Some 5	113° F	Moderate	Damp	Discernible	Discernible
95						
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NOTES:

1. Decomposition Content:

Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:

Little - Printed material is readable. Refuse looks freshly buried.

Some

Moderate - Printed material not legible, branches intact.

Much

Severe - Black/brown mucky material.

3. Moisture Content Scale:

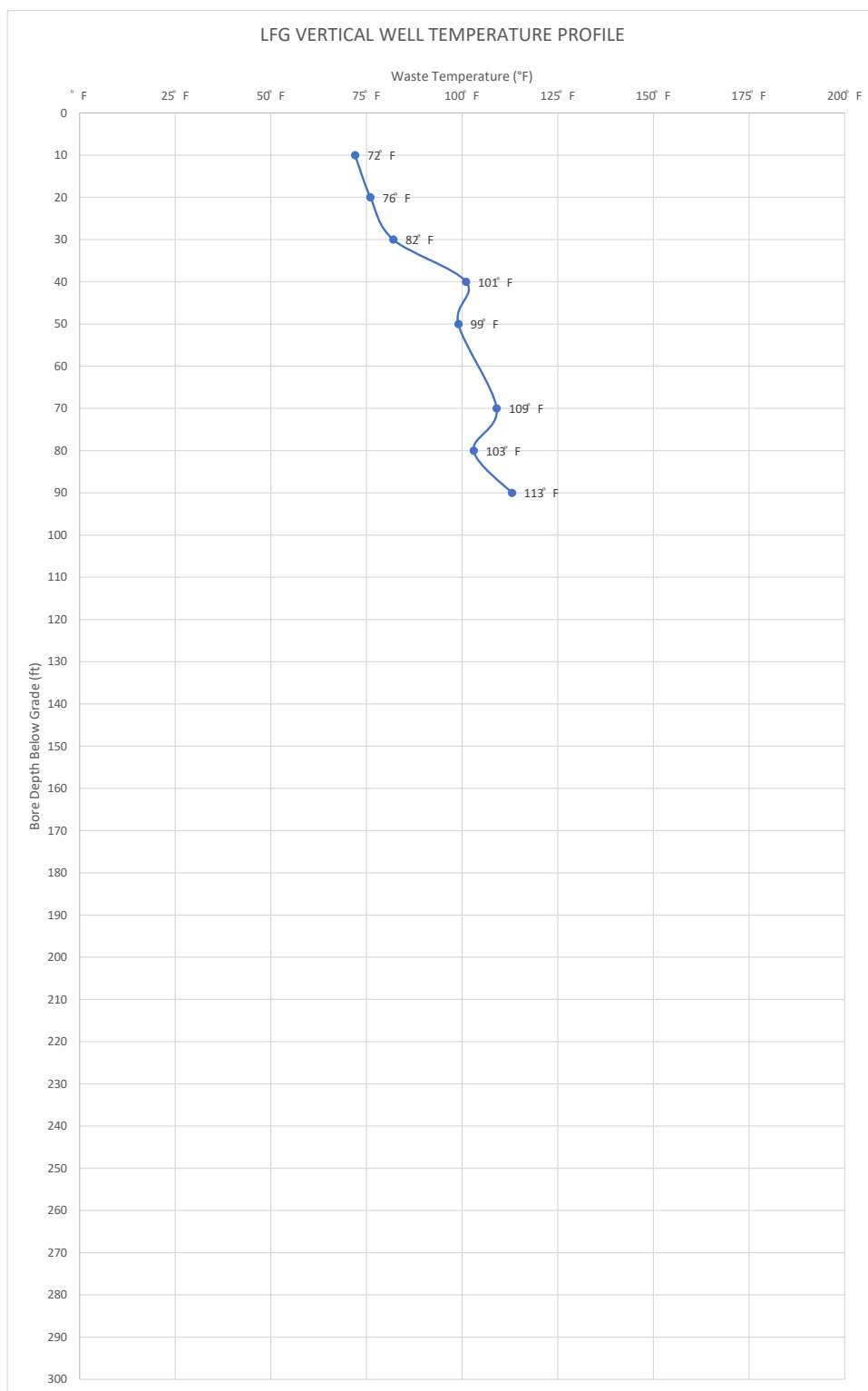
Dry Refuse (15%)- No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.

Normal (20-25%)- Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.

Damp (25-35%)- Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.

Wet (35-50%)- Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.

Saturated (50%)- Mud or free water present.

[illegible]

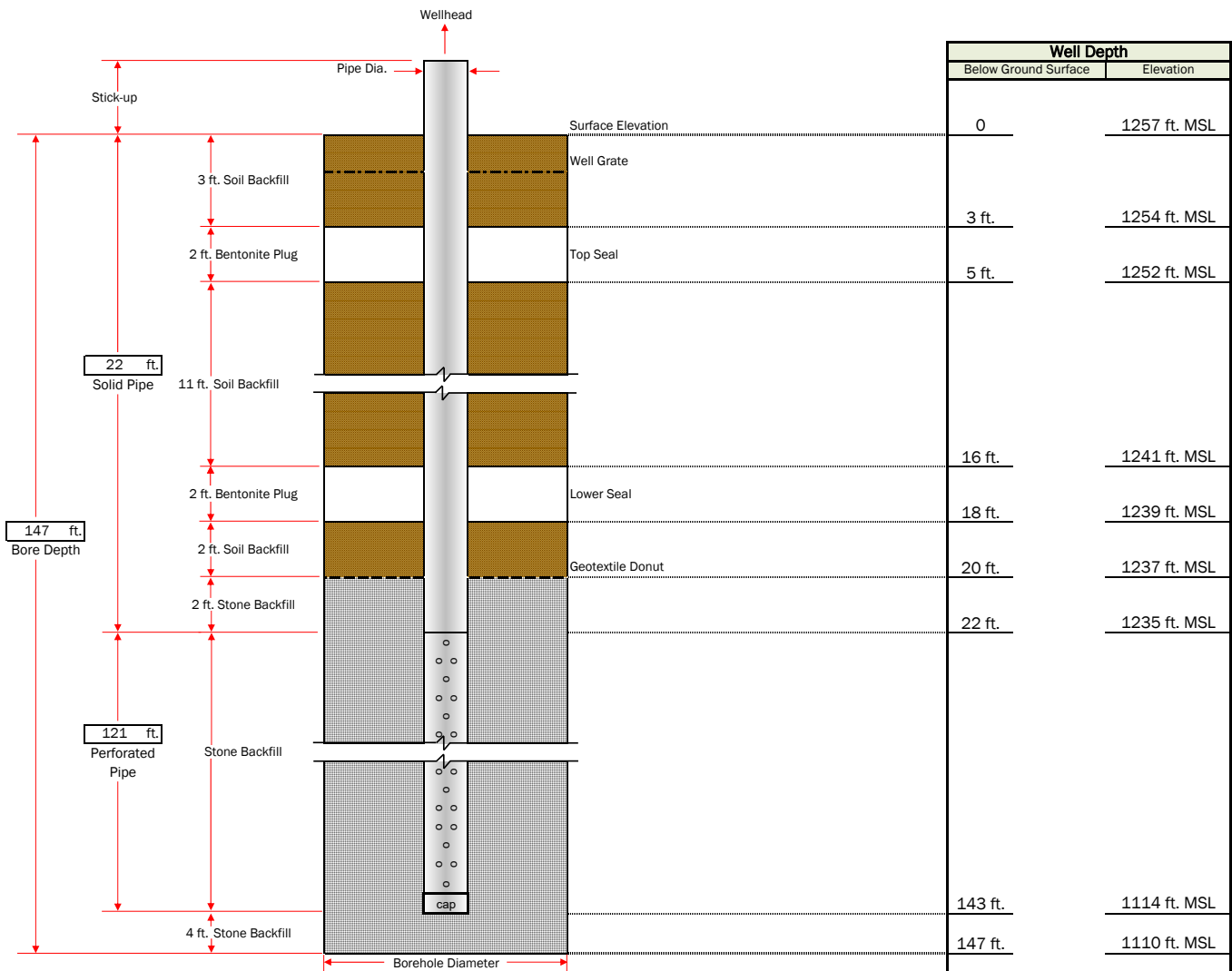
Project Name: 2025 GCCS Expansion
 Project Site: Loess Hills Landfill
 Project Location: Malvern, IA
 Site Technician:
 Contr. Supervisor: Nick Dalton (JCS)
 CQA Technical Staff: Ben Graham (SCS)
 Client Contact: Bret Stephens (IWS)

Start Date: 11/10/2025
 Completion Date: 11/10/2025
 Weather: Sunny
 Design Firm: SCS Engineers
 Surveying Firm: TD2
 Drilling Company: Joe Coleman & Son
 Drill Rig Type: Soilmecc SR-30

Well ID: GEW-82
 Northing Coordinate: 4892.68
 Easting Coordinate: 3561.61
 Surface Elv (ft. msl): 1256.64
 Base Elv (ft. msl): 1109.64

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Notified
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	N/A
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1"-3" Washed N	Perf. (ft. bgs)	121	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	147
Well Depth (ft. bgs)	143



Field Notes/Comments:

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	10% Soil, 40% Plastic, 40% Paper, 5% Wood, 5% Textile/Carpet,	87° F	Little	Normal	Discernible	Discernible
15						
20	10% Soil, 25% Plastic, 50% Paper, 10% Wood, 5% Textile/Carpet,	112° F	Some	Normal	Discernible	Discernible
25						
30	50% Soil, 20% Plastic, 10% Paper, 10% Wood, 10% Textile/Carpet,	89° F	Some	Normal	Discernible	Discernible
35						
40	10% Soil, 50% Plastic, 10% Paper, 30% Textile/Carpet,	87° F	Some	Normal	Discernible	Discernible
45						
50	60% Soil, 20% Plastic, 5% Paper, 15% Wood,	122° F	Much	Normal	Discernible	Discernible
55						
60	10% Soil, 40% Plastic, 30% Paper, 10% Wood, 10% Textile/Carpet,	119° F	Much	Normal	Discernible	Discernible
65						
70	30% Soil, 20% Plastic, 10% Paper, 5% Wood, 5% Textile/Carpet, and Some 30	122° F	Much	Normal	Discernible	Discernible
75						
80	10% Soil, 40% Plastic, 20% Paper, 15% Wood, 5% Textile/Carpet, 10% Rubber,	127° F	Moderate	Normal	Discernible	Discernible
85						
90	5% Soil, 40% Plastic, 10% Paper, 40% Wood, 5% Textile/Carpet,	131° F	Moderate	Normal	Discernible	Discernible
95						
100	10% Soil, 40% Plastic, 20% Paper, 10% Wood, 10% Textile/Carpet, and Some 10	139° F	Much	Normal	Discernible	Discernible
105						
110	20% Soil, 20% Plastic, 10% Paper, 20% Wood, 10% Textile/Carpet, and Some 20	120° F	Much	Normal	Discernible	Discernible
115						
120	10% Soil, 20% Plastic, 20% Paper, 25% Wood, 5% Textile/Carpet, and Some 20	125° F	Severe	Wet	Discernible	Discernible
125						
130	50% Soil, 5% Wood, and Some 45	122° F	Severe	Wet	Discernible	Discernible
135						
140						
147	20% Soil, 20% Plastic, 10% Paper, 15% Wood, 10% Textile/Carpet, and Some 25	112° F	Severe	Damp	Discernible	Discernible
150						
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170						
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NOTES:

1. Decomposition Content:

Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:

Little - Printed material is readable. Refuse looks freshly buried.

Some

Moderate - Printed material not legible, branches intact.

Much

Severe - Black/brown mucky material.

3. Moisture Content Scale:

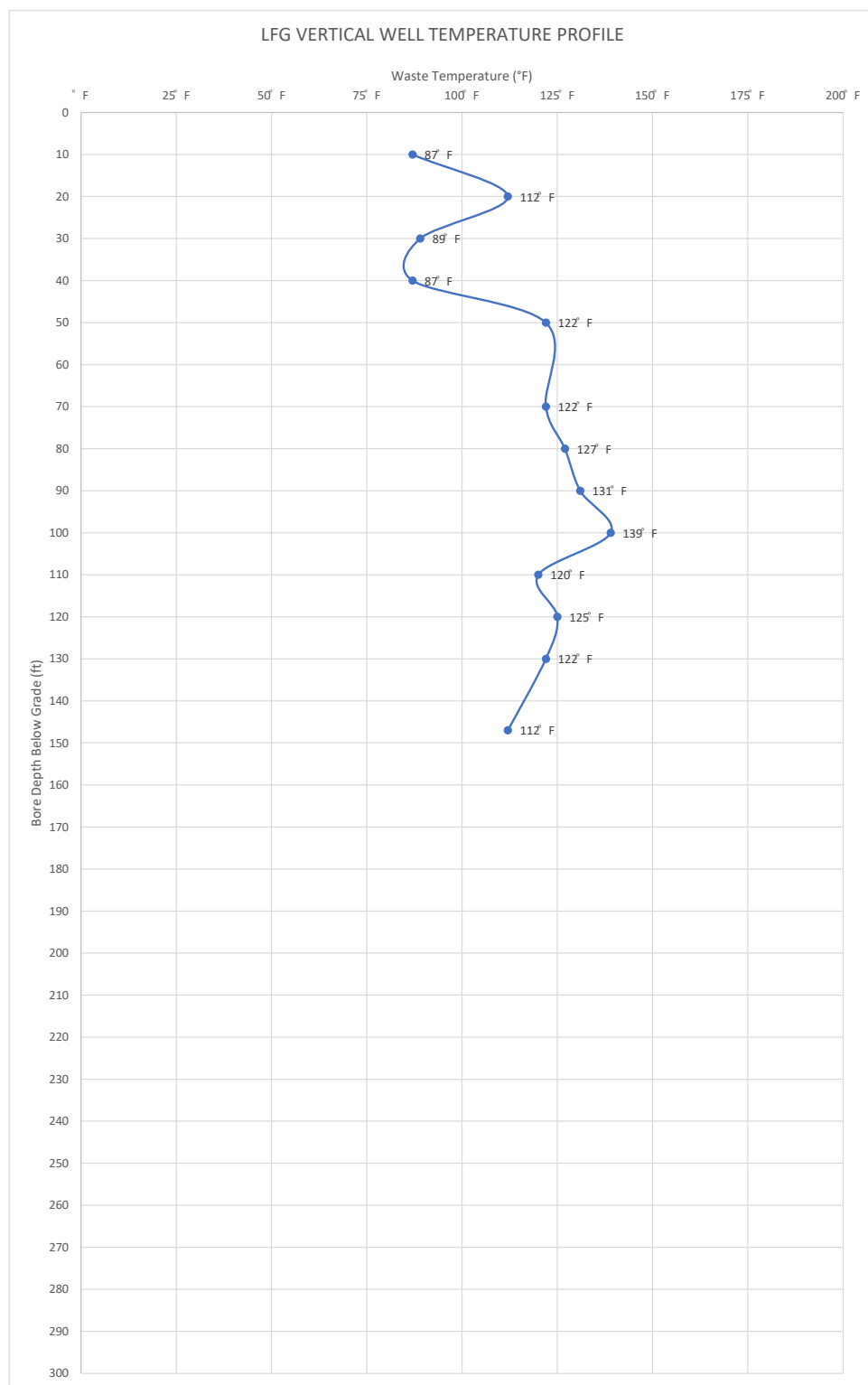
Dry Refuse (15%)- No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.

Normal (20-25%)- Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.

Damp (25-35%)- Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.

Wet (35-50%)- Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.

Saturated (50%)- Mud or free water present.



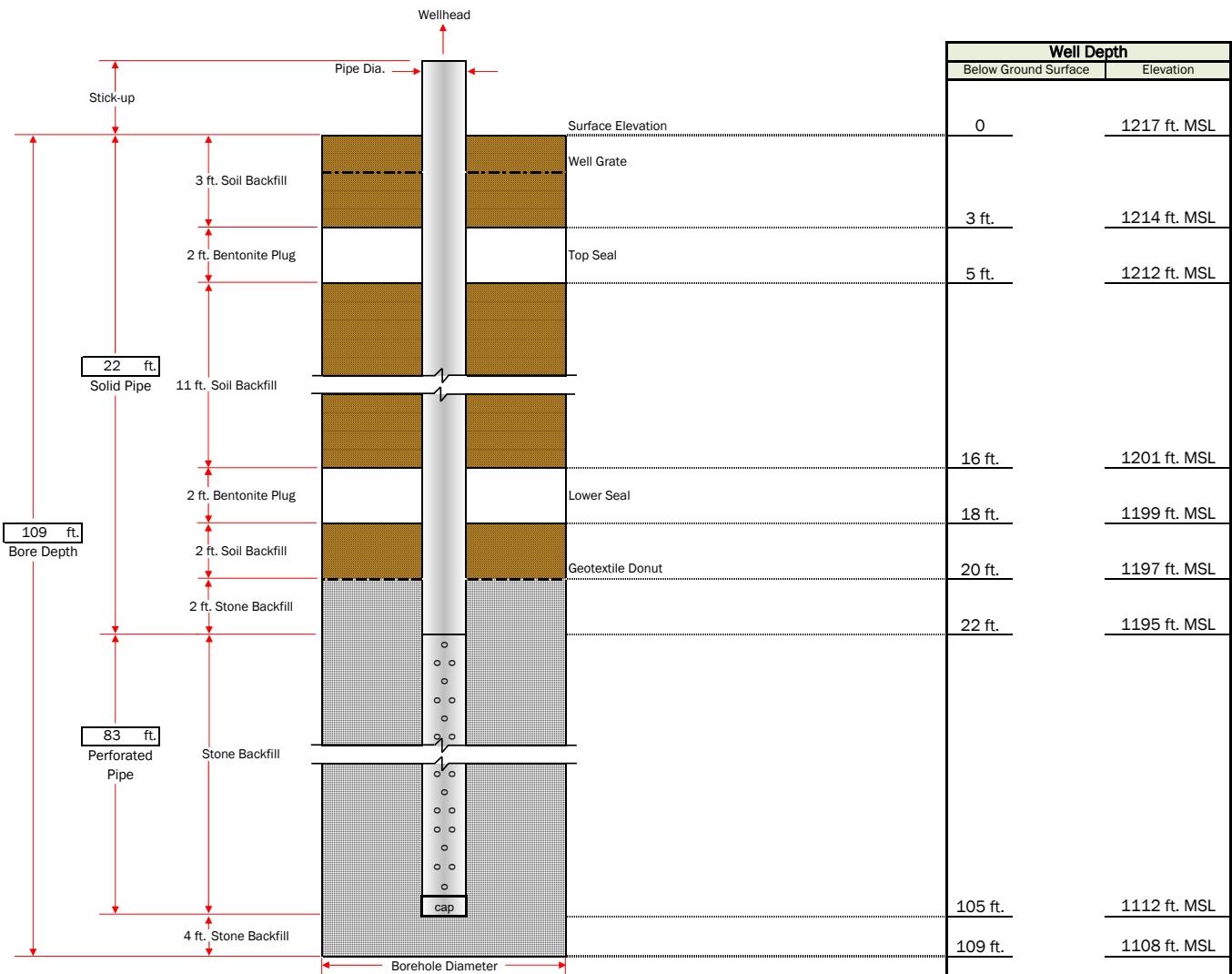
Project Name: 2025 GCCS Expansion
 Project Site: Loess Hills Landfill
 Project Location: Malvern, IA
 Site Technician:
 Contr. Supervisor: Nick Dalton (JCS)
 CQA Technical Staff: Josh Olson (SCS)
 Client Contact: Bret Stephens (IWS)

Start Date: 10/21/2025
 Completion Date: 10/21/2025
 Weather: Sunny
 Design Firm: SCS Engineers
 Surveying Firm: TD2
 Drilling Company: Joe Coleman & Son
 Drill Rig Type: Soilmecc SR-30

Well ID: GEW-83
 Northing Coordinate: 4885.34
 Easting Coordinate: 3732.49
 Surface Elv (ft. msl): 1217.11
 Base Elv (ft. msl): 1108.11

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Observed
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	N/A
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1"-3" Washed N	Perf. (ft. bgs)	83	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	109
Well Depth (ft. bgs)	105



Field Notes/Comments:

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	30% Soil, 25% Plastic, 25% Paper, 5% Wood, 15% Textile/Carpet,	92° F	Some	Normal	Discernible	Discernible
15						
20	40% Soil, 15% Plastic, 25% Paper, 10% Wood, 5% Textile/Carpet, and Some 5	88° F	Moderate	Normal	Discernible	Discernible
25						
30	35% Soil, 25% Plastic, 20% Paper, 10% Wood, 10% Textile/Carpet,	78° F	Moderate	Normal	Discernible	Discernible
35						
40	30% Soil, 20% Plastic, 30% Paper, 15% Wood, 5% Textile/Carpet,	102° F	Moderate	Normal	Discernible	Discernible
45						
50	35% Soil, 25% Plastic, 30% Paper, 5% Wood, 5% Textile/Carpet,	109° F	Moderate	Normal	Discernible	Extremely Discernible
55						
60	30% Soil, 30% Plastic, 30% Paper, 5% Wood, 5% Textile/Carpet,	119° F	Moderate	Normal	Discernible	Extremely Discernible
65						
70	35% Soil, 25% Plastic, 25% Paper, 10% Wood, 5% Textile/Carpet,	102° F	Moderate	Normal	Discernible	Extremely Discernible
75						
80	30% Soil, 20% Plastic, 25% Paper, 15% Wood, 10% Textile/Carpet,	110° F	Moderate	Normal	Discernible	Extremely Discernible
85						
90	25% Soil, 20% Plastic, 30% Paper, 10% Wood, 10% Textile/Carpet, and Some 5	104° F	Moderate	Damp	Discernible	Discernible
95						
100	35% Soil, 25% Plastic, 25% Paper, 5% Wood, and Some 10	110° F	Much	Damp	Discernible	Discernible
105						
109	20% Soil, 20% Plastic, 30% Paper, 10% Wood, 5% Textile/Carpet, and Some 15	100° F	Much	Damp	Discernible	Discernible
115						
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NOTES:

1. Decomposition Content:

Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:

Little - Printed material is readable. Refuse looks freshly buried.

Some

Moderate - Printed material not legible, branches intact.

Much

Severe - Black/brown mucky material.

3. Moisture Content Scale:

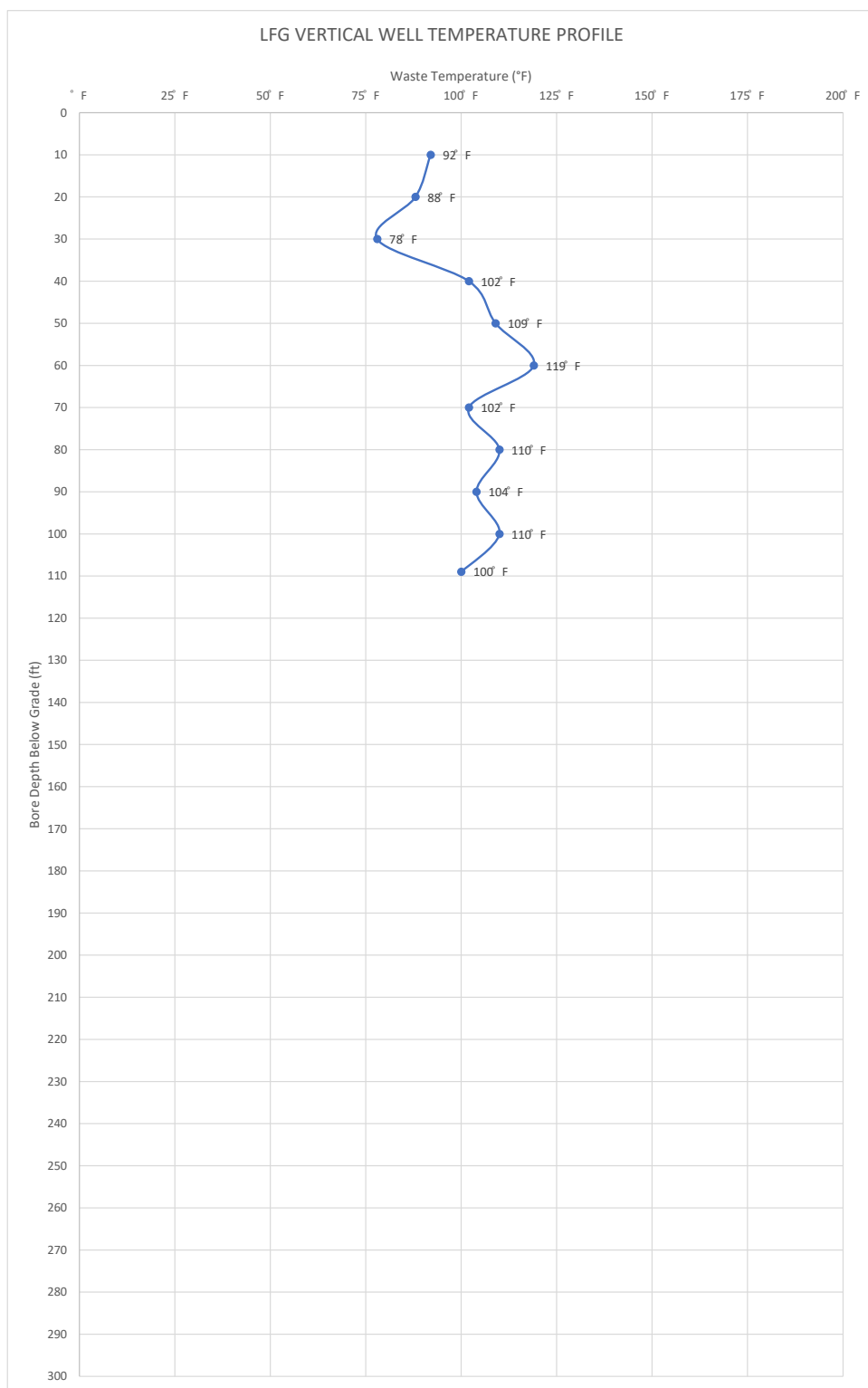
Dry Refuse (15%)- No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.

Normal (20-25%)- Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.

Damp (25-35%)- Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.

Wet (35-50%)- Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.

Saturated (50%)- Mud or free water present.

[illegible]

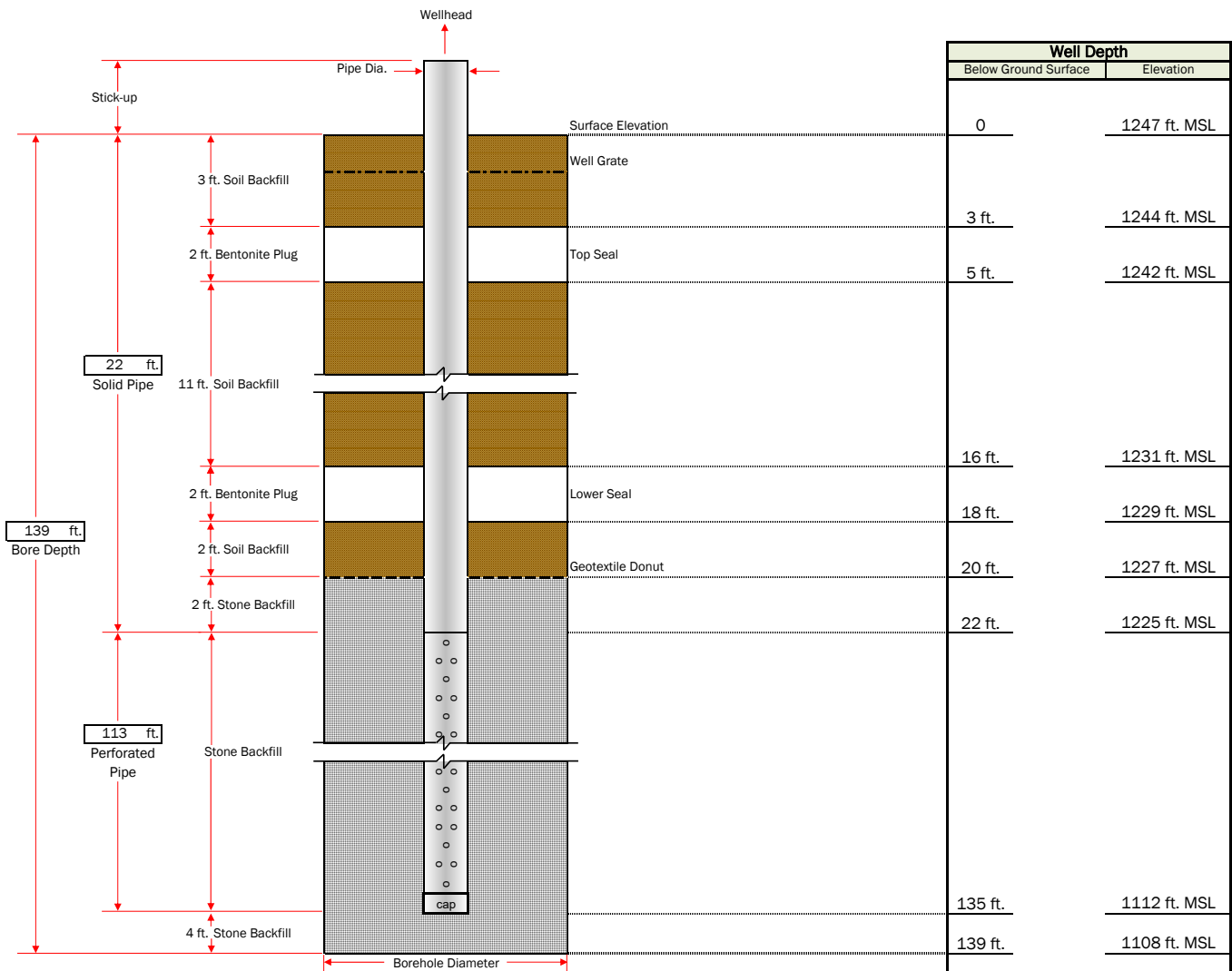
Project Name: 2025 GCCS Expansion
 Project Site: Loess Hills Landfill
 Project Location: Malvern, IA
 Site Technician:
 Contr. Supervisor: Nick Dalton (JCS)
 CQA Technical Staff: Ben Graham (SCS)
 Client Contact: Bret Stephens (IWS)

Start Date: 11/7/2025
 Completion Date: 11/7/2025
 Weather: Sunny
 Design Firm: SCS Engineers
 Surveying Firm: TD2
 Drilling Company: Joe Coleman & Son
 Drill Rig Type: Soilmecc SR-30

Well ID: GEW-84
 Northing Coordinate: 5057.91
 Easting Coordinate: 3638.24
 Surface Elv (ft. msl): 1247.36
 Base Elv (ft. msl): 1108.36

Well Construction List			
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap
Pipe Material	PVC SCH 80	Stick-up (ft.)	3
Soil Backfill	Site Material	Solid (ft. bgs)	22
Stone Backfill	1" 3" Washed N	Perf. (ft. bgs)	113
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap
		Well Grate Installed	Yes, Notified
		Bore Seal Installed	N/A
		Pump Installed	N/A
		Wellhead Installed	QED 2-inch
		Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	139
Well Depth (ft. bgs)	135



Field Notes/Comments:

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	20% Soil, 40% Plastic, 30% Textile/Carpet, 10% Rubber,	60° F				
15						
20	10% Soil, 30% Plastic, 30% Wood, 20% Textile/Carpet, 10% Rubber,	78° F				
25						
30	10% Soil, 30% Plastic, 30% Wood, 15% Textile/Carpet, 15% Rubber,	82° F				
35						
40	15% Soil, 10% Plastic, 10% Paper, 30% Wood, 10% Textile/Carpet, 25% Rubber,	83° F				
45						
50	15% Soil, 15% Plastic, 10% Paper, 30% Wood, 10% Textile/Carpet, 20% Rubber,	87° F				
55						
60	15% Soil, 25% Plastic, 10% Paper, 40% Textile/Carpet, 10% Rubber,	61° F				
65						
70	25% Soil, 20% Plastic, 25% Wood, 15% Textile/Carpet, 15% Rubber,	91° F				
75						
80	50% Soil, 10% Plastic, 15% Wood, 20% Rubber,5% Rocks,	90° F				
85						
90	20% Soil, 35% Plastic, 20% Wood, 10% Textile/Carpet, 10% Rubber, and Some 5	85° F				
95						
100	20% Soil, 40% Plastic, 30% Wood, 10% Rubber,	82° F				
105						
110	20% Soil, 30% Plastic, 20% Wood, 15% Textile/Carpet, 15% Rubber,	103° F				
115						
120	15% Soil, 40% Plastic, 20% Wood, 10% Textile/Carpet, 10% Rubber,5% Rocks,	105° F				
125						
130	20% Soil, 30% Plastic, 20% Wood, 20% Textile/Carpet, 10% Rubber,	99° F				
135						
139	25% Soil, 30% Plastic, 30% Wood, 5% Textile/Carpet, 10% Rubber,	101° F				
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NOTES:

1. Decomposition Content:

Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:

Little - Printed material is readable. Refuse looks freshly buried.

Some

Moderate - Printed material not legible, branches intact.

Much

Severe - Black/brown mucky material.

3. Moisture Content Scale:

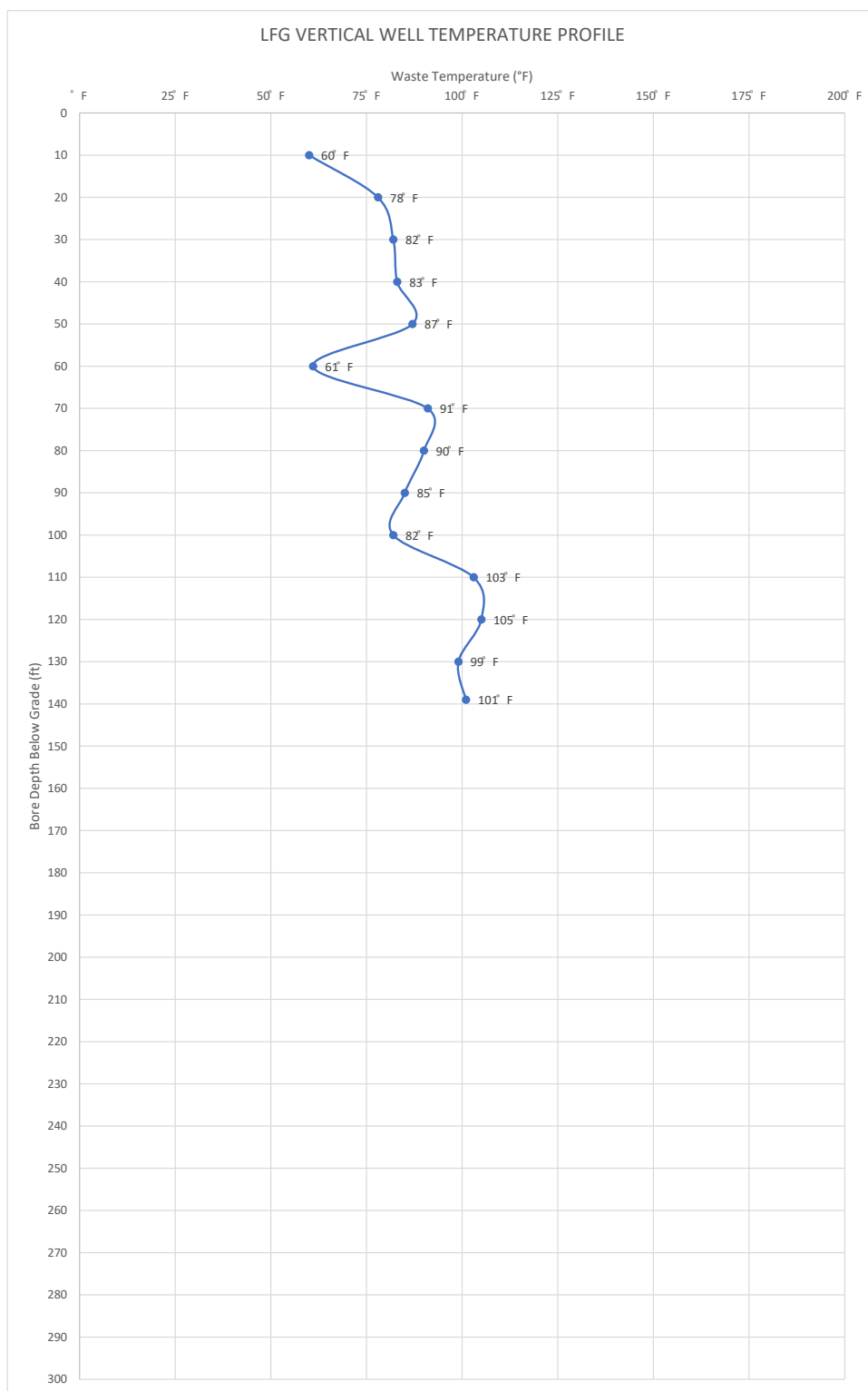
Dry Refuse (15%)- No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.

Normal (20-25%)- Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.

Damp (25-35%)- Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.

Wet (35-50%)- Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.

Saturated (50%)- Mud or free water present.

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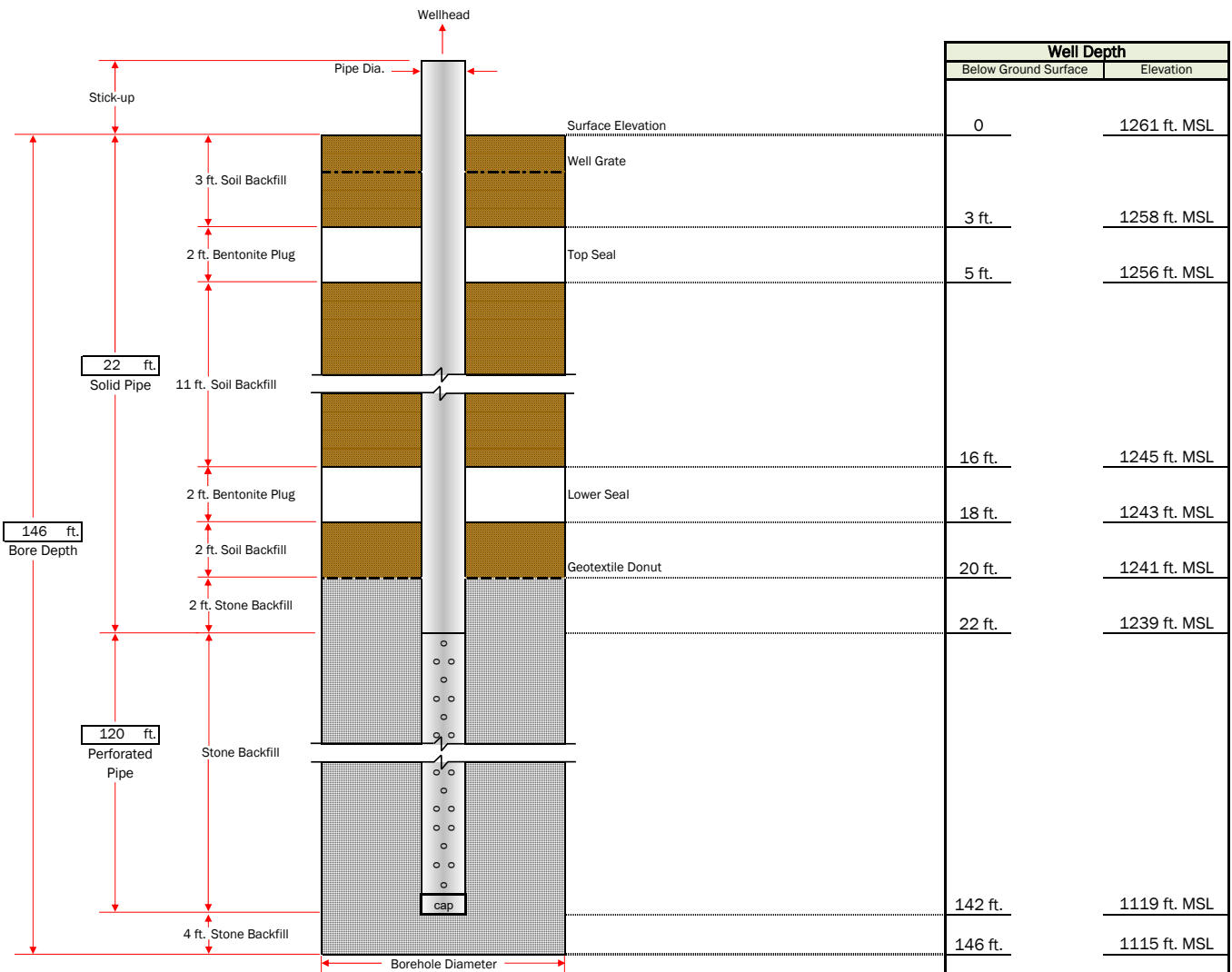
Project Name: 2025 GCCS Expansion
 Project Site: Loess Hills Landfill
 Project Location: Malvern, IA
 Site Technician:
 Contr. Supervisor: Nick Dalton (JCS)
 CQA Technical Staff: Jenna Miller (SCS)
 Client Contact: Bret Stephens (IWS)

Start Date: 11/18/2025
 Completion Date: 11/20/2025
 Weather: Cloudy
 Design Firm: SCS Engineers
 Surveying Firm: TD2
 Drilling Company: Joe Coleman & Son
 Drill Rig Type: Soilmecc SR-30

Well ID: GEW-85
 Northing Coordinate: 5044.46
 Easting Coordinate: 3443.09
 Surface Elv (ft. msl): 1261.00
 Base Elv (ft. msl): 1115.00

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Notified
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	N/A
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1"-3" Washed N	Perf. (ft. bgs)	120	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	146
Well Depth (ft. bgs)	142



Field Notes/Comments:

Drilling paused at 116 feet on 11/18/2025 due to equipment failure. Drilling resumed and completed 11/20/2025.

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	5% Soil, 50% Plastic, 35% Paper, 5% Wood, 5% Textile/Carpet,	75° F	Some	Normal	Discernible	None Discernible
15						
20	15% Soil, 40% Plastic, 30% Paper, 10% Wood, and Some 5	103° F	Moderate	Normal	Discernible	Discernible
25						
30	10% Soil, 40% Plastic, 20% Paper, 15% Wood, 10% Textile/Carpet, 5% Rubber,	99° F	Moderate	Normal	Discernible	Discernible
35						
40	40% Soil, 5% Plastic, 5% Paper, 25% Wood, 10% Textile/Carpet, 15% Rubber,	108° F	Moderate	Normal	Discernible	Discernible
45						
50	20% Soil, 60% Plastic, 10% Wood, 10% Textile/Carpet,	102° F	Moderate	Normal	Discernible	Discernible
55						
60	15% Soil, 30% Plastic, 20% Paper, 20% Wood, 10% Textile/Carpet, 5% Rubber,	116° F	Much	Normal	Discernible	Discernible
65						
70	20% Soil, 20% Plastic, 10% Paper, 20% Wood, 15% Textile/Carpet, 15% Rubber,	113° F	Severe	Normal	Discernible	Discernible
75						
80	30% Soil, 10% Plastic, 15% Wood, 25% Textile/Carpet, 20% Rubber,	119° F	Severe	Normal	Discernible	Discernible
85						
90	30% Soil, 10% Plastic, 20% Wood, 30% Textile/Carpet, 10% Rubber,	116° F	Severe	Normal	Discernible	Discernible
95						
100						
105						
110		107° F				
115						
120	30% Soil, 30% Plastic, 10% Wood, 20% Textile/Carpet, 10% Rubber,	108° F				
125						
130	30% Soil, 35% Plastic, 15% Wood, 15% Textile/Carpet, 5% Rubber,	97° F				
135						
140	30% Soil, 30% Plastic, 20% Wood, 5% Textile/Carpet, 5% Rubber,10% Rocks,	105° F				
145						
150						
155						
160						
165						
170						
175						
180						
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190						
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285						
290						
295						
300						

NOTES:

1. Decomposition Content:

Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:

Little - Printed material is readable. Refuse looks freshly buried.

Some

Moderate - Printed material not legible, branches intact.

Much

Severe - Black/brown mucky material.

3. Moisture Content Scale:

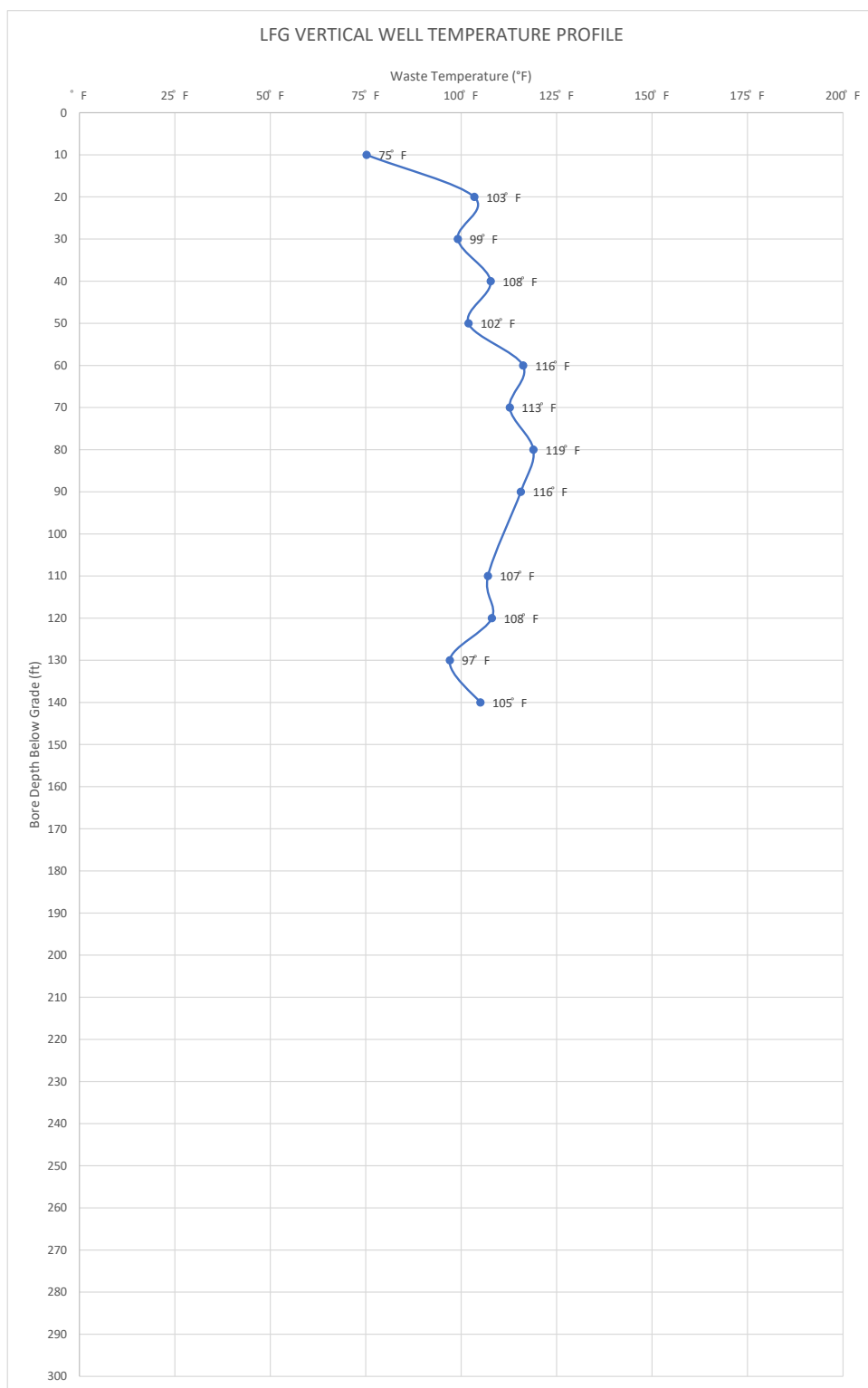
Dry Refuse (15%)- No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.

Normal (20-25%)- Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.

Damp (25-35%)- Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.

Wet (35-50%)- Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.

Saturated (50%)- Mud or free water present.

[illegible]

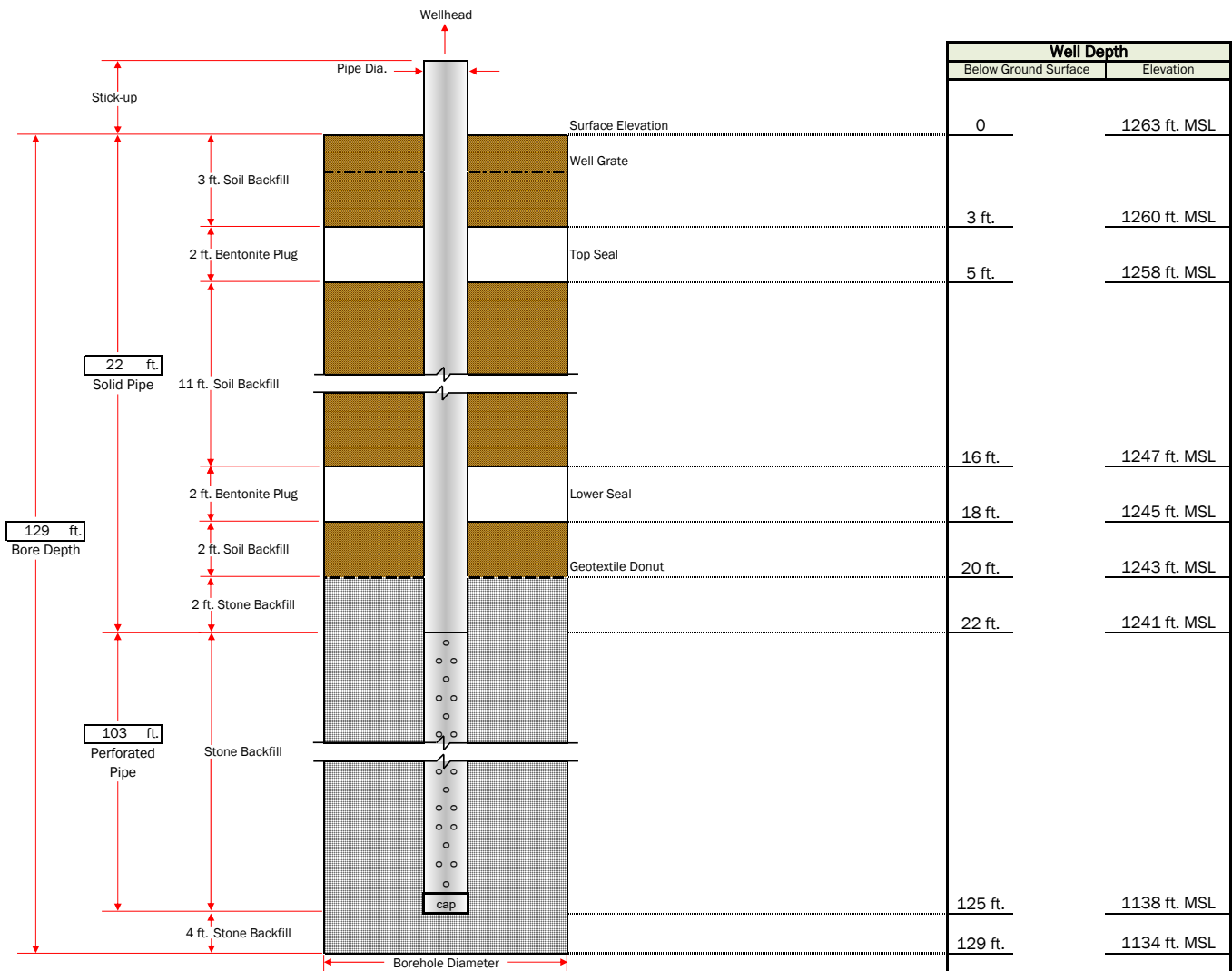
Project Name: 2025 GCCS Expansion
 Project Site: Loess Hills Landfill
 Project Location: Malvern, IA
 Site Technician:
 Contr. Supervisor: Nick Dalton (JCS)
 CQA Technical Staff: Jenna Miller (SCS)
 Client Contact: Bret Stephens (IWS)

Start Date: 11/21/2025
 Completion Date: 11/21/2025
 Weather: Rainy
 Design Firm: SCS Engineers
 Surveying Firm: TD2
 Drilling Company: Joe Coleman & Son
 Drill Rig Type: Soilmecc SR-30

Well ID: GEW-86
 Northing Coordinate: 5063.62
 Easting Coordinate: 3262.05
 Surface Elv (ft. msl): 1263.06
 Base Elv (ft. msl): 1134.06

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Notified
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	N/A
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1"-3" Washed N	Perf. (ft. bgs)	103	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	129
Well Depth (ft. bgs)	125


Field Notes/Comments:

Stopped at 120' on 11/21, completed on 11/22; Stopped at 129' due to wet material causing boring refusal

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	30% Soil, 30% Plastic, 35% Wood, 5% Rubber,	121° F				
15						
20	20% Soil, 30% Plastic, 10% Paper, 30% Wood, 10% Textile/Carpet,	124° F				
25						
30	20% Soil, 40% Plastic, 5% Paper, 25% Wood, 10% Textile/Carpet,	111° F				
35						
40						
45						
50	15% Soil, 15% Plastic, 70% Wood,	100° F				
55						
60	30% Soil, 30% Plastic, 10% Paper, 10% Wood, 5% Textile/Carpet, 15% Rubber,	100° F				
65						
70	30% Soil, 30% Plastic, 5% Paper, 15% Wood, 15% Textile/Carpet, 5% Rubber,	105° F				
75						
80	15% Soil, 50% Plastic, 10% Wood, 10% Textile/Carpet, 5% Rubber,	100° F				
85						
90	20% Soil, 40% Plastic, 25% Wood, 10% Textile/Carpet, 5% Rubber,	89° F				
95						
100	80% Soil, 15% Plastic, 5% Paper,	89° F				
105						
110	20% Soil, 35% Plastic, 25% Wood, 15% Textile/Carpet, 5% Rubber,	100° F				
115						
120	25% Soil, 40% Plastic, 5% Paper, 10% Wood, 15% Textile/Carpet, 5% Rubber,	106° F				
125						
129	35% Soil, 10% Plastic, and Some 55	93° F	Severe	Saturated	Discernible	Discernible
135						
140						
145						
150						
155						
160						
165						
170						
175						
180						
185						
190						
195						
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285						
290						
295						
300						

NOTES:

1. Decomposition Content:

Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:

Little - Printed material is readable. Refuse looks freshly buried.

Some

Moderate - Printed material not legible, branches intact.

Much

Severe - Black/brown mucky material.

3. Moisture Content Scale:

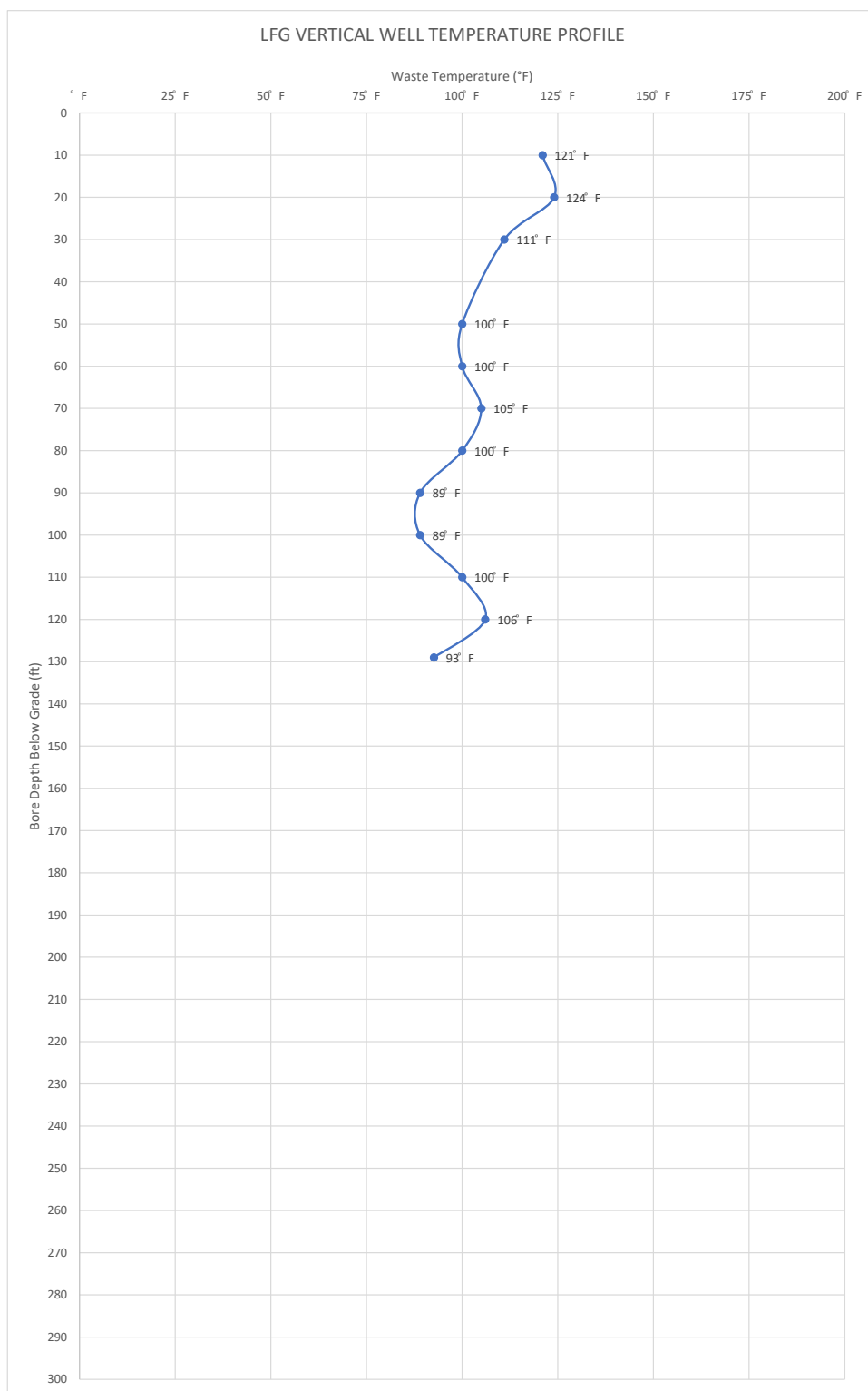
Dry Refuse (15%)- No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.

Normal (20-25%)- Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.

Damp (25-35%)- Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.

Wet (35-50%)- Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.

Saturated (50%)- Mud or free water present.

[illegible]

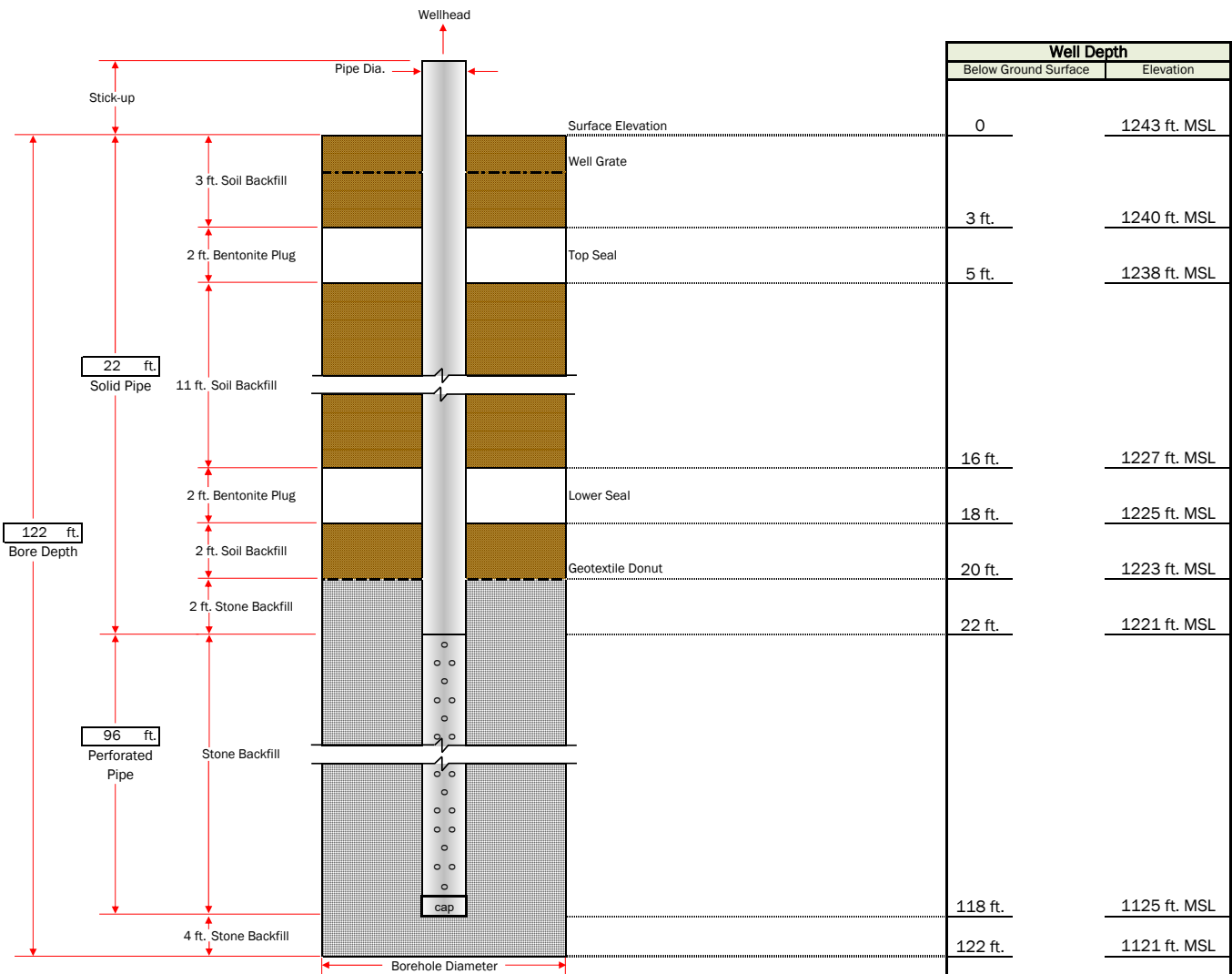
Project Name: 2025 GCCS Expansion
 Project Site: Loess Hills Landfill
 Project Location: Malvern, IA
 Site Technician:
 Contr. Supervisor: Nick Dalton (JCS)
 CQA Technical Staff: Jenna Miller (SCS)
 Client Contact: Bret Stephens (IWS)

Start Date: 11/20/2025
 Completion Date: 11/20/2025
 Weather: Fog
 Design Firm: SCS Engineers
 Surveying Firm: TD2
 Drilling Company: Joe Coleman & Son
 Drill Rig Type: Soilmecc SR-30

Well ID: GEW-87
 Northing Coordinate: 5197.73
 Easting Coordinate: 3068.54
 Surface Elv (ft. msl): 1243.34
 Base Elv (ft. msl): 1121.34

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Notified
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	N/A
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1"-3" Washed N	Perf. (ft. bgs)	96	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	122
Well Depth (ft. bgs)	118

**Field Notes/Comments:**

80' new perf pipe, 16' old slotted pipe (2nd piece to be installed)

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	15% Soil, 50% Plastic, 10% Wood, 10% Textile/Carpet, 5% Rubber,					
15						
20	20% Soil, 45% Plastic, 5% Paper, 10% Wood, 10% Textile/Carpet, 10% Rubber,	86° F				
25						
30	10% Soil, 40% Plastic, 10% Paper, 10% Wood, 20% Textile/Carpet, 10% Rubber,	84° F				
35						
40	10% Soil, 30% Plastic, 10% Paper, 20% Wood, 25% Textile/Carpet, 5% Rubber,	81° F				
45						
50	15% Soil, 50% Plastic, 5% Wood, 10% Textile/Carpet, 20% Rubber,	89° F				
55						
60	10% Soil, 40% Plastic, 30% Wood, 15% Textile/Carpet, 5% Rubber,	86° F				
65						
70	10% Soil, 40% Plastic, 25% Wood, 20% Textile/Carpet, 5% Rubber,	91° F				
75						
80	10% Soil, 40% Plastic, 20% Wood, 15% Textile/Carpet, 10% Rubber, and Some 5	105° F				
85						
90	15% Soil, 35% Plastic, 10% Wood, 20% Textile/Carpet, 10% Rubber, and Some 10	104° F				
95						
100	20% Soil, 30% Plastic, 10% Wood, 15% Textile/Carpet, 10% Rubber, and Some 5	88° F				
105						
110	70% Soil, 20% Plastic, 10% Rubber,	106° F				
115						
120	30% Soil, 40% Plastic, 5% Wood, 10% Textile/Carpet, 10% Rubber, and Some 5	86° F				
125						
130						
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300						

NOTES:

1. Decomposition Content:

Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:

Little - Printed material is readable. Refuse looks freshly buried.

Some

Moderate - Printed material not legible, branches intact.

Much

Severe - Black/brown mucky material.

3. Moisture Content Scale:

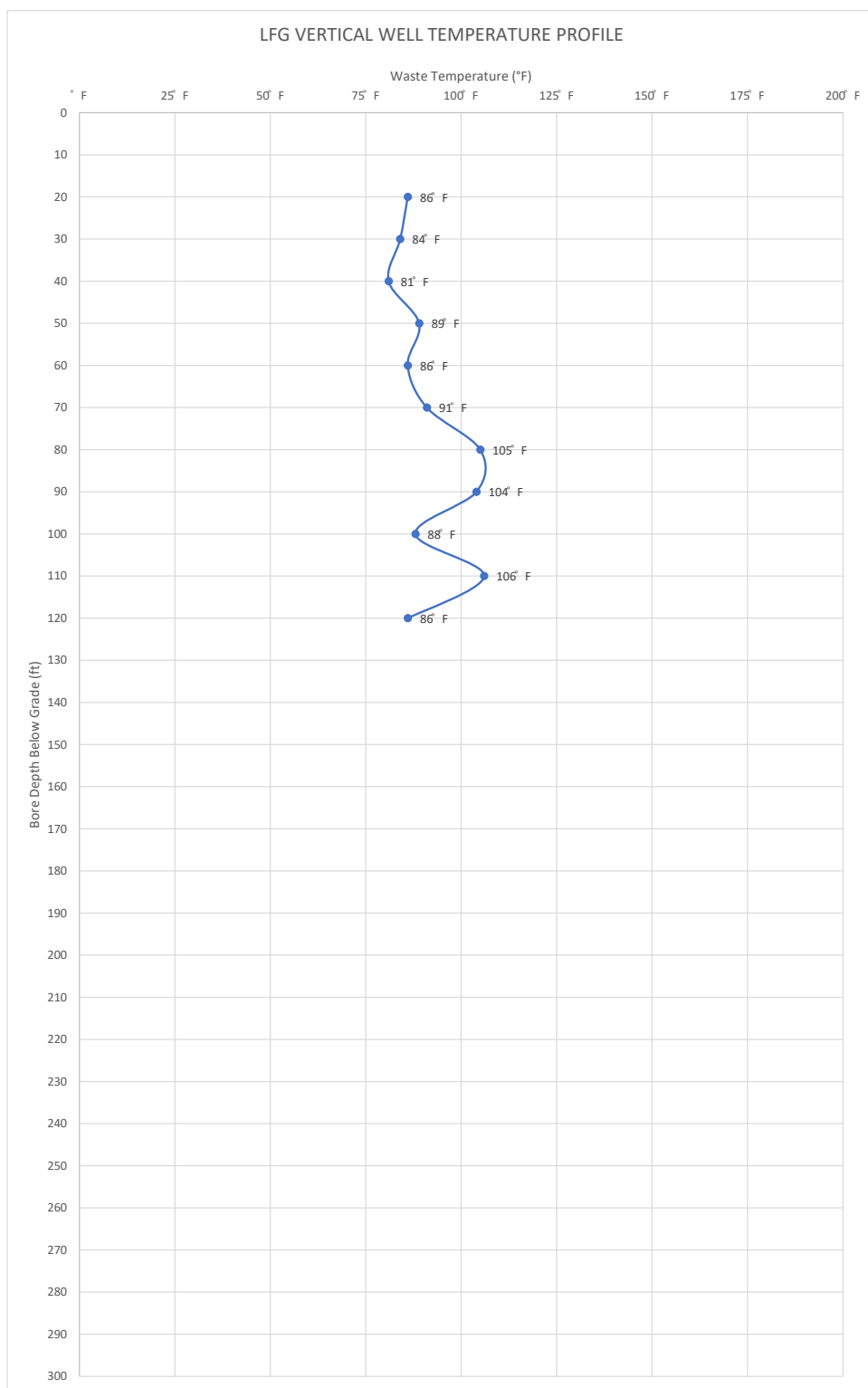
Dry Refuse (15%)- No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.

Normal (20-25%)- Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.

Damp (25-35%)- Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.

Wet (35-50%)- Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.

Saturated (50%)- Mud or free water present.

[illegible]

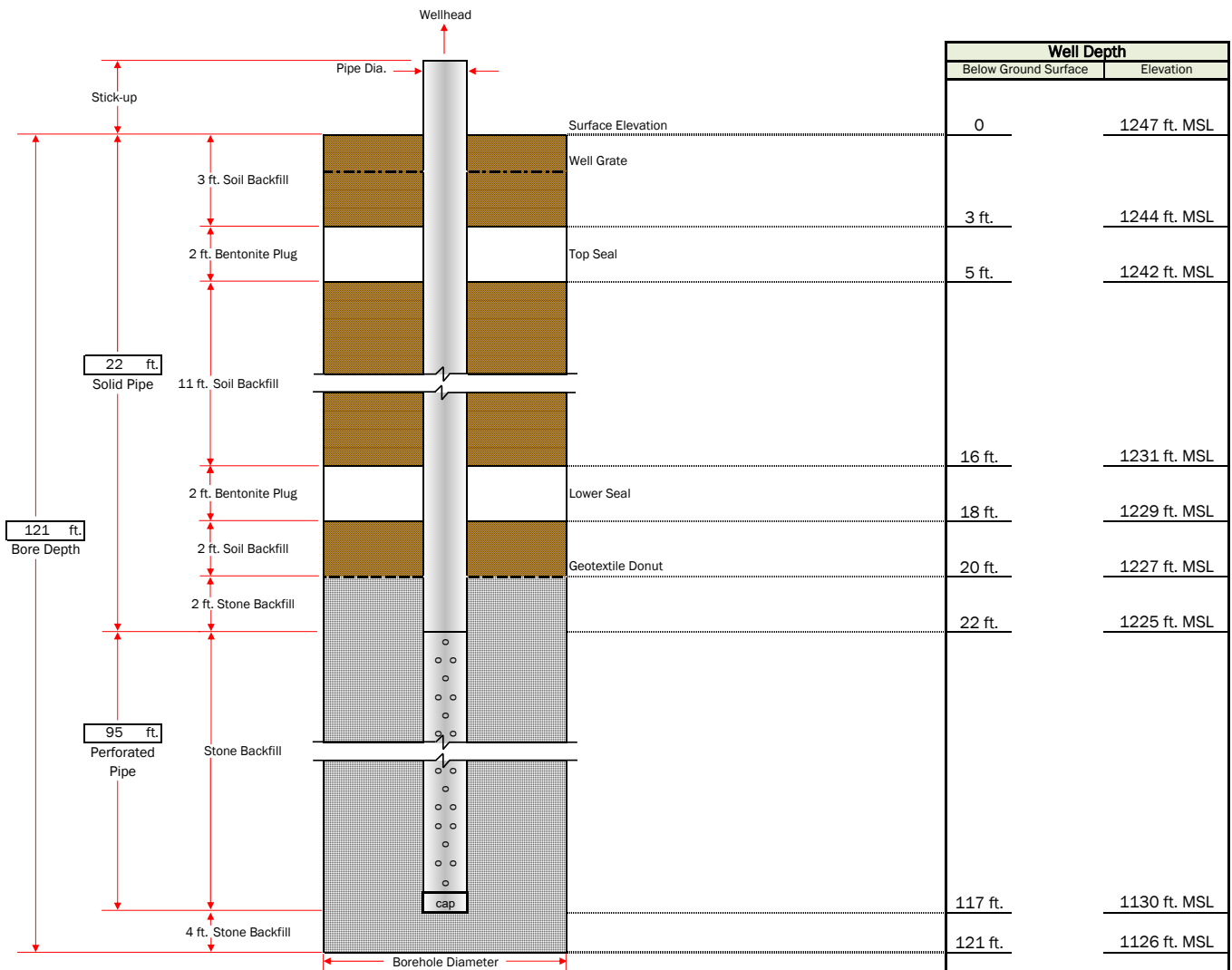
Project Name: 2025 GCCS Expansion
 Project Site: Loess Hills Landfill
 Project Location: Malvern, IA
 Site Technician:
 Contr. Supervisor: Nick Dalton (JCS)
 CQA Technical Staff: Josh Olson (SCS)
 Client Contact: Bret Stephens (IWS)

Start Date: 10/17/2025
 Completion Date: 10/17/2025
 Weather: Cloudy
 Design Firm: SCS Engineers
 Surveying Firm: TD2
 Drilling Company: Joe Coleman & Son
 Drill Rig Type: Soilmecc SR-30

Well ID: GEW-88
 Northing Coordinate: 5412.38
 Easting Coordinate: 3224.09
 Surface Elv (ft. msl): 1246.79
 Base Elv (ft. msl): 1125.79

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Observed
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	N/A
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1"-3" Washed N	Perf. (ft. bgs)	95	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	121
Well Depth (ft. bgs)	117



Field Notes/Comments:

Drilling stopped at 121 feet due to boring refusal.

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	25% Soil, 25% Plastic, 35% Paper, 10% Wood, 5% Textile/Carpet,	92° F	Little	Normal	Discernible	Discernible
15						
20	30% Soil, 25% Plastic, 25% Paper, 10% Wood, 10% Textile/Carpet,	102° F	Some	Normal	Discernible	Discernible
25						
30	30% Soil, 20% Plastic, 30% Paper, 15% Wood, 5% Textile/Carpet,	90° F	Moderate	Normal	Discernible	Discernible
35						
40	25% Soil, 20% Plastic, 25% Paper, 10% Wood, 10% Textile/Carpet, and Some 10	94° F	Moderate	Normal	Discernible	Discernible
45						
50	30% Soil, 20% Plastic, 20% Paper, 10% Wood, 5% Textile/Carpet, and Some 15	96° F	Moderate	Normal	Discernible	Discernible
55						
60	20% Soil, 30% Plastic, 20% Paper, 10% Wood, 10% Textile/Carpet, and Some 10	102° F	Moderate	Normal	Discernible	Discernible
65						
70	25% Soil, 15% Plastic, 25% Paper, 15% Wood, 5% Textile/Carpet, and Some 15	106° F	Much	Damp	Discernible	Discernible
75						
80	20% Soil, 25% Plastic, 30% Paper, 5% Wood, 10% Textile/Carpet, and Some 10	100° F	Much	Damp	Discernible	Discernible
85						
90	30% Soil, 15% Plastic, 20% Paper, 10% Wood, 10% Textile/Carpet, and Some 15	106° F	Much	Damp	Discernible	Discernible
95						
100	25% Soil, 15% Plastic, 25% Paper, 15% Wood, 5% Textile/Carpet, and Some 15	110° F	Much	Damp	Discernible	Discernible
105						
110	30% Soil, 20% Plastic, 25% Paper, 10% Wood, 5% Textile/Carpet, and Some 10	104° F	Much	Damp	Discernible	Discernible
115						
120	25% Soil, 20% Plastic, 35% Paper, 5% Wood, 5% Textile/Carpet, and Some 10	108° F	Much	Damp	Discernible	Discernible
125						
130						
135						
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300						

NOTES:

1. Decomposition Content:
Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:
Little - Printed material is readable. Refuse looks freshly buried.
Some
Moderate - Printed material not legible, branches intact.
Much
Severe - Black/brown mucky material.

3. Moisture Content Scale:
Dry Refuse (15%)- No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.
Normal (20-25%)- Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.
Damp (25-35%)- Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.
Wet (35-50%)- Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.
Saturated (50%)- Mud or free water present.

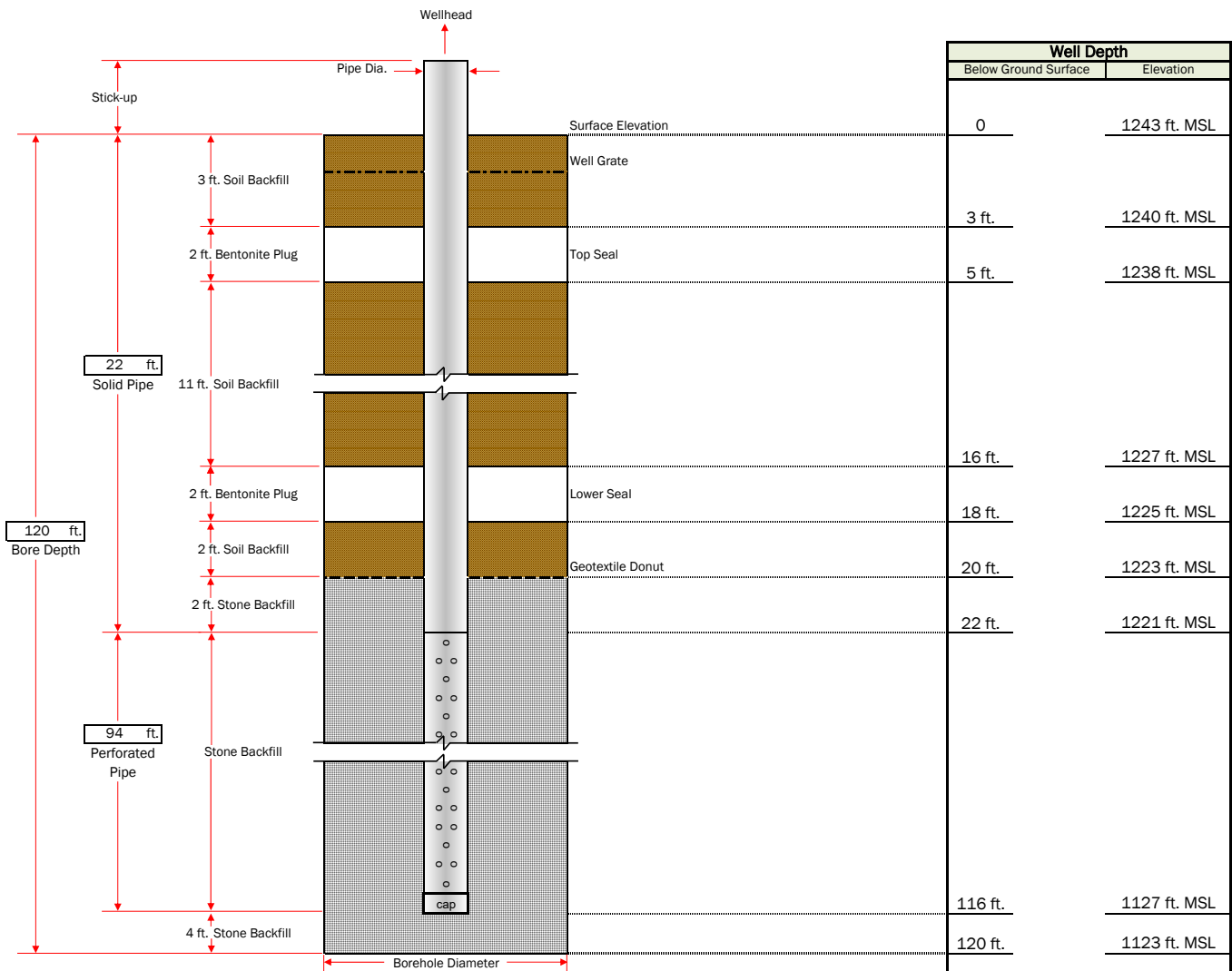
Project Name: 2025 GCCS Expansion
 Project Site: Loess Hills Landfill
 Project Location: Malvern, IA
 Site Technician:
 Contr. Supervisor: Nick Dalton (JCS)
 CQA Technical Staff: Josh Olson (SCS)
 Client Contact: Bret Stephens (IWS)

Start Date: 10/18/2025
 Completion Date: 10/18/2025
 Weather: Sunny
 Design Firm: SCS Engineers
 Surveying Firm: TD2
 Drilling Company: Joe Coleman & Son
 Drill Rig Type: Soilmecc SR-30

Well ID: GEW-89
 Northing Coordinate: 5354.68
 Easting Coordinate: 3051.03
 Surface Elv (ft. msl): 1242.69
 Base Elv (ft. msl): 1122.69

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Notified
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	N/A
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1"-3" Washed N	Perf. (ft. bgs)	94	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	120
Well Depth (ft. bgs)	116



Field Notes/Comments:

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	40% Soil, 15% Plastic, 35% Paper, 10% Wood,	98° F	Little	Normal	Discernible	None Discernible
15						
20	25% Soil, 25% Plastic, 30% Paper, 15% Wood, 5% Textile/Carpet,	100° F	Some	Normal	Discernible	Discernible
25						
30	30% Soil, 20% Plastic, 25% Paper, 15% Wood, 10% Textile/Carpet,	95° F	Some	Normal	Discernible	None Discernible
35						
40	35% Soil, 35% Plastic, 20% Paper, 5% Wood, 5% Textile/Carpet,	90° F	Some	Normal	Discernible	None Discernible
45						
50	30% Soil, 20% Plastic, 25% Paper, 15% Wood, 10% Textile/Carpet,	93° F	Some	Normal	Discernible	Discernible
55						
60	20% Soil, 25% Plastic, 20% Paper, 10% Wood, 5% Textile/Carpet, and Some 20	111° F	Moderate	Damp	Discernible	Discernible
65						
70	25% Soil, 10% Plastic, 20% Paper, 10% Wood, 10% Textile/Carpet, and Some 15	104° F	Moderate	Damp	Discernible	Discernible
75						
80	30% Soil, 30% Plastic, 20% Paper, 5% Wood, 5% Textile/Carpet, and Some 10	120° F	Moderate	Normal	Discernible	Discernible
85						
90	35% Soil, 25% Plastic, 25% Paper, 10% Wood, 5% Textile/Carpet,	120° F	Moderate	Normal	Discernible	Discernible
95						
100	25% Soil, 20% Plastic, 30% Paper, 10% Wood, 10% Textile/Carpet, and Some 15	123° F	Much	Normal	Discernible	Discernible
105						
110	30% Soil, 15% Plastic, 20% Paper, 10% Wood, 5% Textile/Carpet, and Some 20	129° F	Much	Damp	Discernible	Discernible
115						
120	20% Soil, 15% Plastic, 25% Paper, 10% Wood, 5% Textile/Carpet, and Some 25	115° F	Severe	Damp	Discernible	Discernible
125						
130						
135						
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NOTES:

1. Decomposition Content:

Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:

Little - Printed material is readable. Refuse looks freshly buried.

Some

Moderate - Printed material not legible, branches intact.

Much

Severe - Black/brown mucky material.

3. Moisture Content Scale:

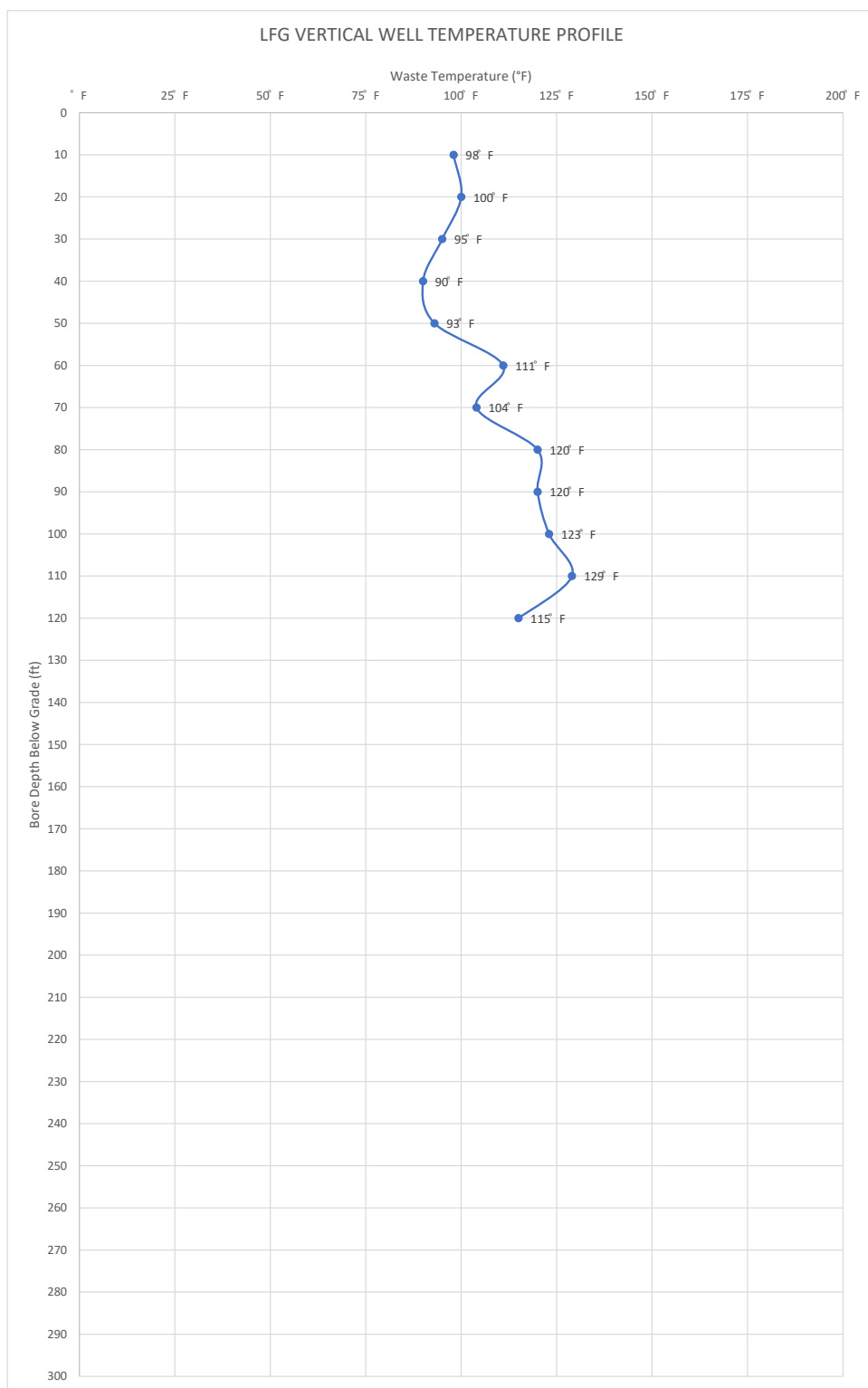
Dry Refuse (15%)- No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.

Normal (20-25%)- Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.

Damp (25-35%)- Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.

Wet (35-50%)- Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.

Saturated (50%)- Mud or free water present.

[illegible]

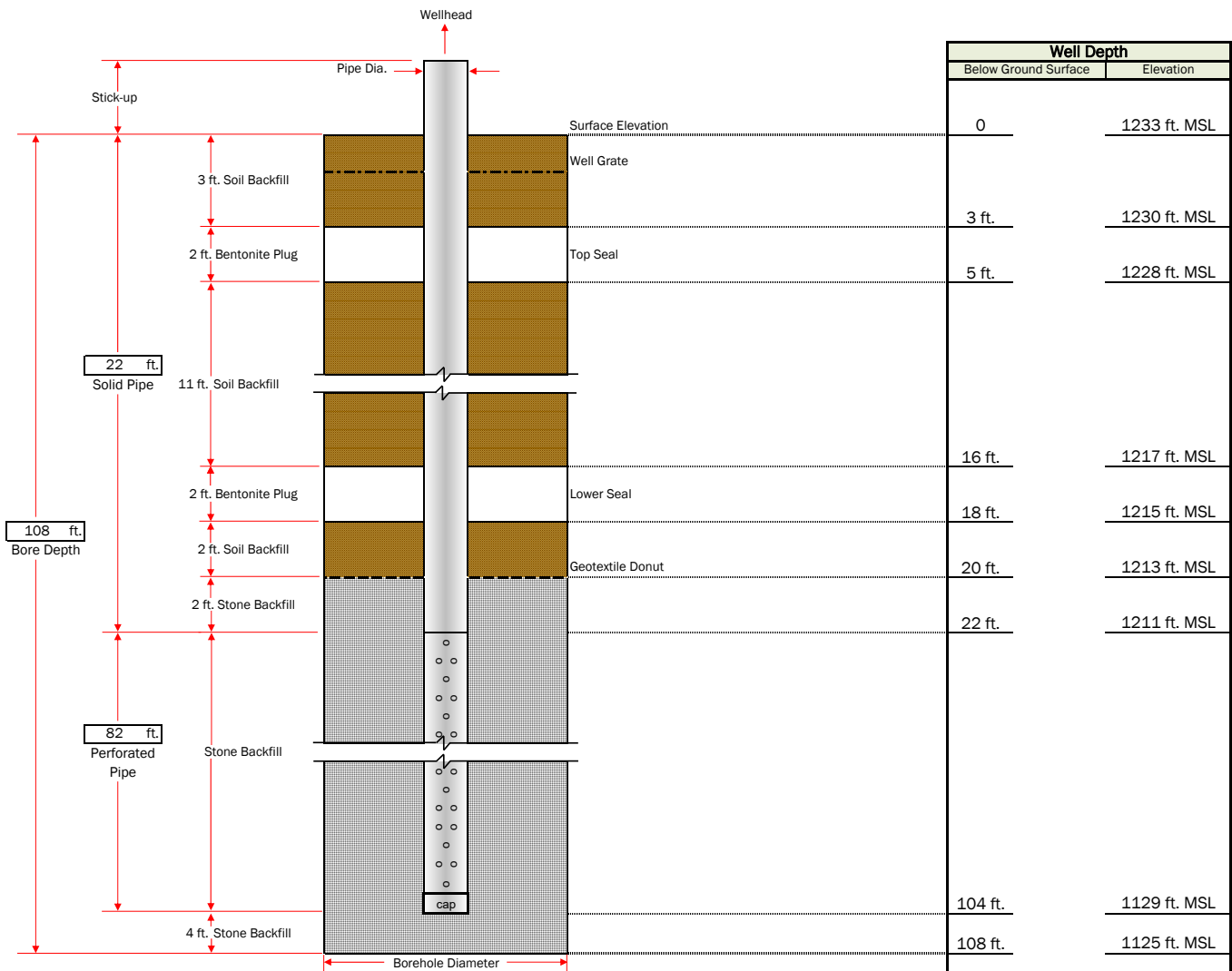
Project Name: 2025 GCCS Expansion
 Project Site: Loess Hills Landfill
 Project Location: Malvern, IA
 Site Technician:
 Contr. Supervisor: Nick Dalton (JCS)
 CQA Technical Staff: Josh Olson (SCS)
 Client Contact: Bret Stephens (IWS)

Start Date: 10/20/2025
 Completion Date: 10/20/2025
 Weather: Sunny
 Design Firm: SCS Engineers
 Surveying Firm: TD2
 Drilling Company: Joe Coleman & Son
 Drill Rig Type: Soilmecc SR-30

Well ID: GEW-90
 Northing Coordinate: 5465.76
 Easting Coordinate: 2903.99
 Surface Elv (ft. msl): 1233.01
 Base Elv (ft. msl): 1125.01

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Notified
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	N/A
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1" 3" Washed N	Perf. (ft. bgs)	82	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	108
Well Depth (ft. bgs)	104



Field Notes/Comments:

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	20% Soil, 30% Plastic, 25% Paper, 15% Wood, 10% Textile/Carpet,	81° F	Some	Normal	Discernible	None Discernible
15						
20	25% Soil, 25% Plastic, 30% Paper, 10% Wood, 10% Textile/Carpet,	91° F	Some	Normal	Discernible	None Discernible
25						
30	30% Soil, 20% Plastic, 25% Paper, 10% Wood, 15% Textile/Carpet,	82° F	Some	Normal	Discernible	None Discernible
35						
40	35% Soil, 30% Plastic, 20% Paper, 10% Wood, 5% Textile/Carpet,	91° F	Some	Normal	Discernible	None Discernible
45						
50	30% Soil, 20% Plastic, 25% Paper, 10% Wood, 15% Textile/Carpet,	118° F	Moderate	Normal	Discernible	Discernible
55						
60	35% Soil, 25% Plastic, 25% Paper, 5% Wood, 10% Textile/Carpet,	117° F	Moderate	Damp	Discernible	Discernible
65						
70	40% Soil, 20% Plastic, 25% Paper, 10% Wood, 5% Textile/Carpet,	116° F	Moderate	Normal	Discernible	Discernible
75						
80	30% Soil, 30% Plastic, 25% Paper, 5% Wood, 10% Textile/Carpet,	113° F	Moderate	Normal	Discernible	Discernible
85						
90	25% Soil, 25% Plastic, 20% Paper, 10% Wood, 10% Textile/Carpet, and Some 10	106° F	Much	Damp	Discernible	Discernible
95						
100	20% Soil, 15% Plastic, 35% Paper, 10% Wood, 5% Textile/Carpet, and Some 15	120° F	Much	Damp	Discernible	Discernible
105						
108	15% Soil, 25% Plastic, 20% Paper, 10% Wood, 10% Textile/Carpet, and Some 20	117° F	Much	Damp	Discernible	Discernible
115						
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NOTES:

1. Decomposition Content:

Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:

Little - Printed material is readable. Refuse looks freshly buried.

Some

Moderate - Printed material not legible, branches intact.

Much

Severe - Black/brown mucky material.

3. Moisture Content Scale:

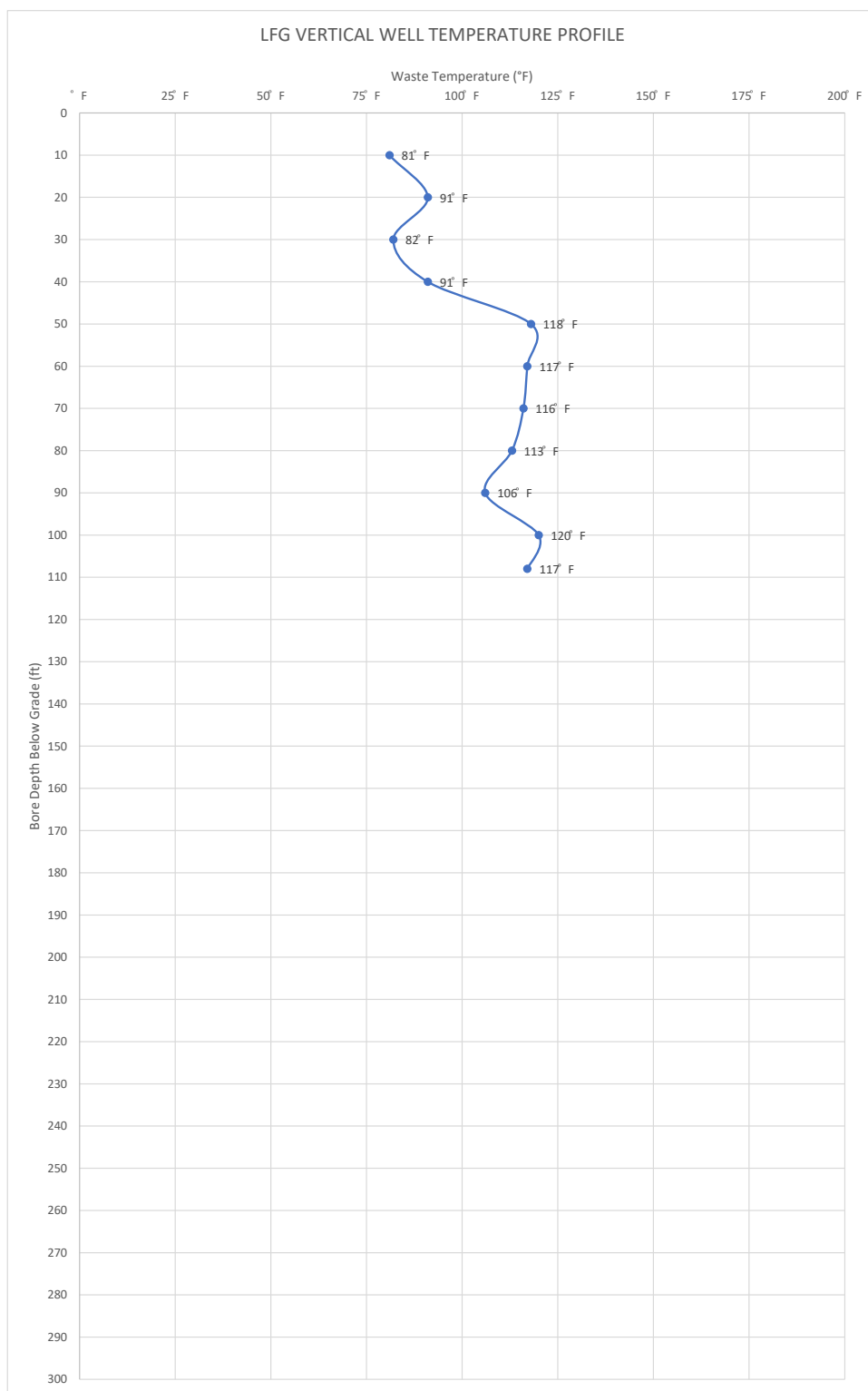
Dry Refuse (15%)- No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.

Normal (20-25%)- Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.

Damp (25-35%)- Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.

Wet (35-50%)- Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.

Saturated (50%)- Mud or free water present.

[illegible]

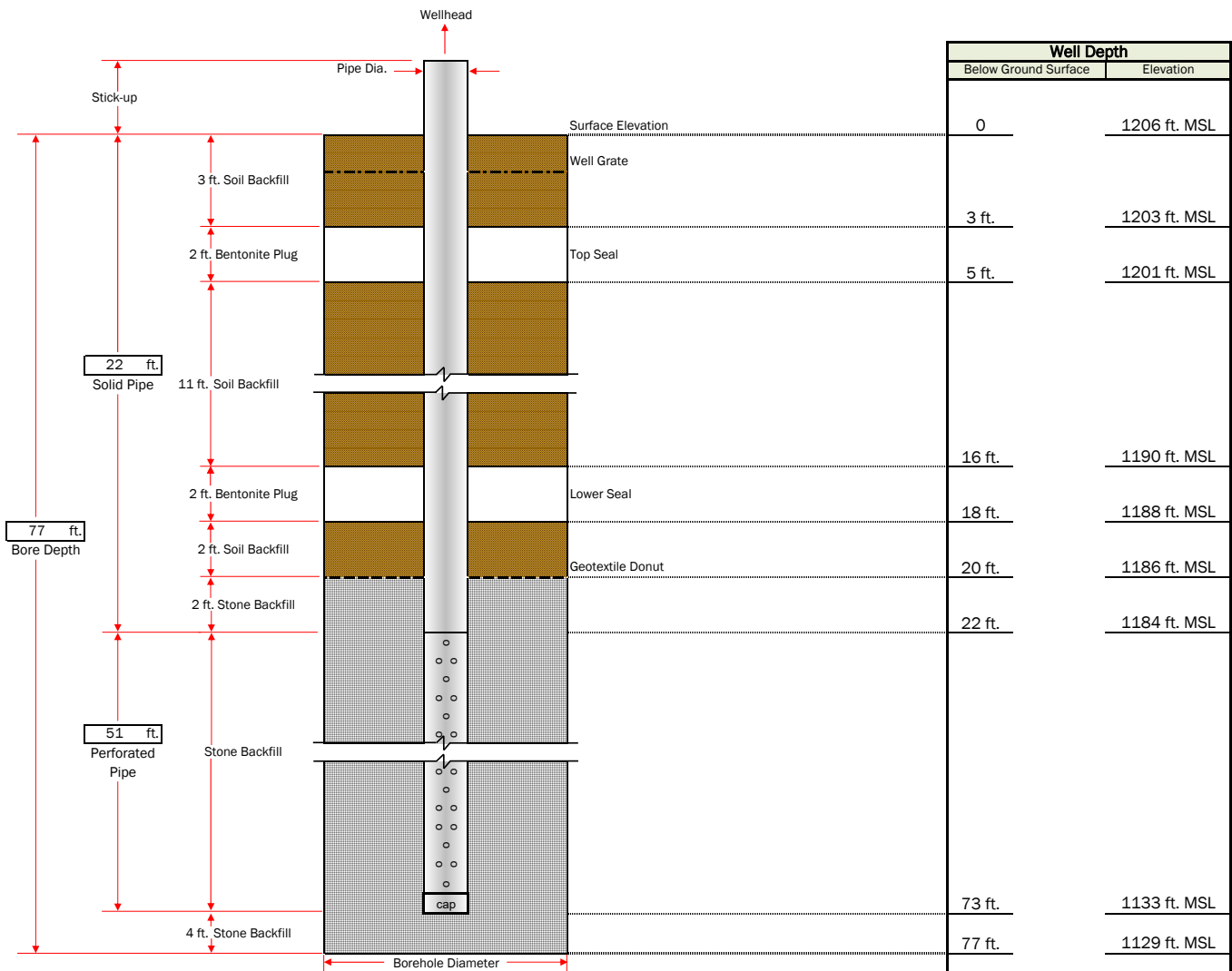
Project Name: 2025 GCCS Expansion
 Project Site: Loess Hills Landfill
 Project Location: Malvern, IA
 Site Technician:
 Contr. Supervisor: Nick Dalton (JCS)
 CQA Technical Staff: Josh Olson (SCS)
 Client Contact: Bret Stephens (IWS)

Start Date: 10/20/2025
 Completion Date: 10/20/2025
 Weather: Cloudy
 Design Firm: SCS Engineers
 Surveying Firm: TD2
 Drilling Company: Joe Coleman & Son
 Drill Rig Type: Soilmecc SR-30

Well ID: GEW-91
 Northing Coordinate: 5454.24
 Easting Coordinate: 2712.57
 Surface Elv (ft. msl): 1205.89
 Base Elv (ft. msl): 1128.89

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Observed
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	N/A
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1" 3" Washed N	Perf. (ft. bgs)	51	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	77
Well Depth (ft. bgs)	73



Field Notes/Comments:

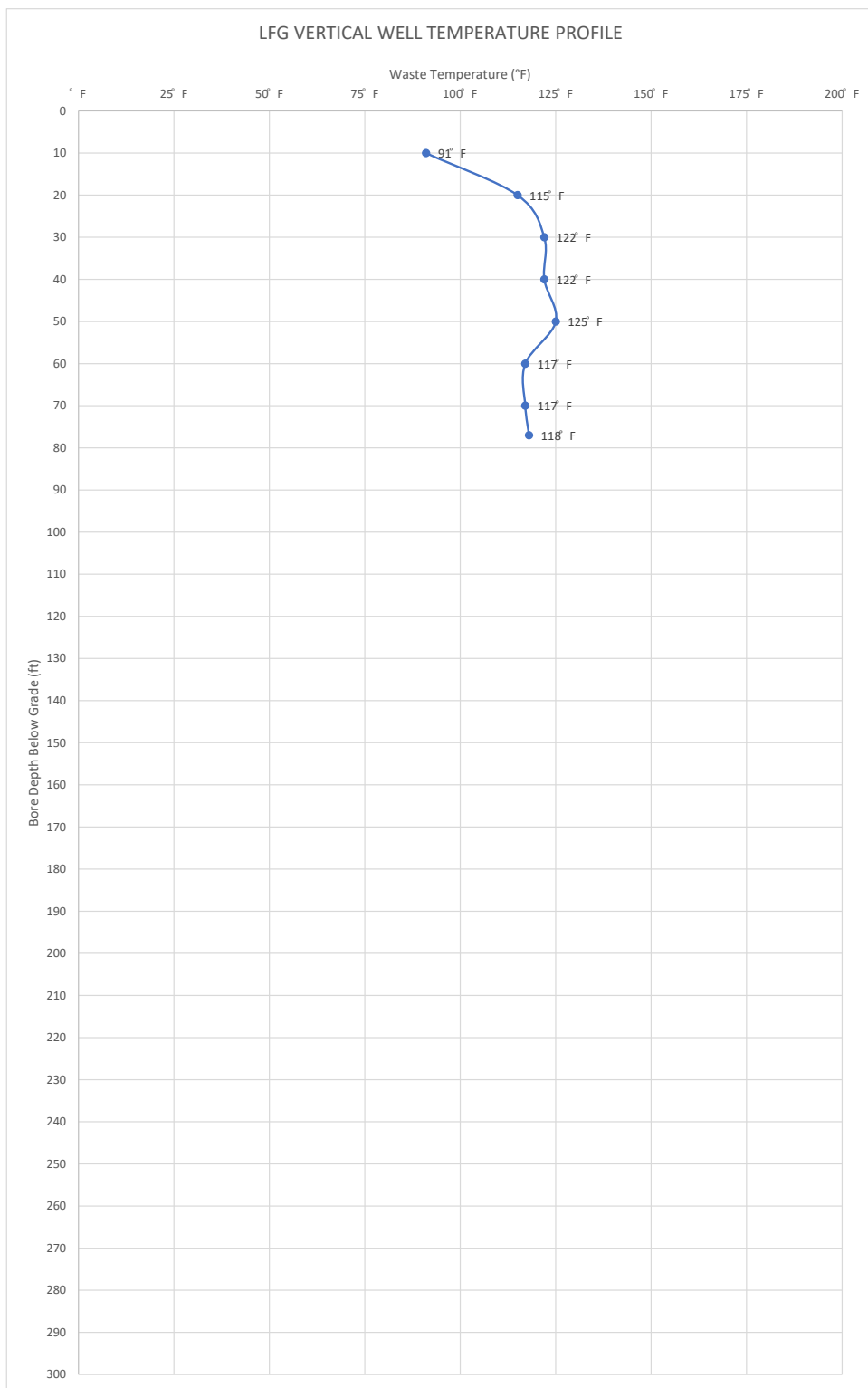
Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	25% Soil, 15% Plastic, 30% Paper, 20% Wood, 10% Textile/Carpet,	91° F	Some	Normal	Discernible	Discernible
15						
20	30% Soil, 20% Plastic, 25% Paper, 15% Wood, 5% Textile/Carpet, and Some 5	115° F	Moderate	Damp	Discernible	Discernible
25						
30	25% Soil, 35% Plastic, 25% Paper, 10% Wood, 5% Textile/Carpet,	122° F	Moderate	Damp	Discernible	Discernible
35						
40	25% Soil, 35% Plastic, 20% Paper, 10% Wood, 10% Textile/Carpet,	122° F	Moderate	Damp	Discernible	Discernible
45						
50	20% Soil, 25% Plastic, 25% Paper, 15% Wood, 5% Textile/Carpet, and Some 10	125° F	Moderate	Damp	Discernible	Discernible
55						
60	30% Soil, 15% Plastic, 20% Paper, 15% Wood, 5% Textile/Carpet, and Some 15	117° F	Moderate	Damp	Discernible	Discernible
65						
70	25% Soil, 20% Plastic, 15% Paper, 10% Wood, 10% Textile/Carpet, and Some 20	117° F	Much	Damp	Discernible	Discernible
75						
77	25% Soil, 30% Plastic, 20% Paper, 10% Wood, and Some 15	118° F	Much	Damp	Discernible	Discernible
85						
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NOTES:

1. Decomposition Content:
Remainder = metal, yard waste, tires, concrete, and indiscernible brown and black soil-like material

2. Decomposition Scale:
Little - Printed material is readable. Refuse looks freshly buried.
Some
Moderate - Printed material not legible, branches intact.
Much
Severe - Black/brown mucky material.

3. Moisture Content Scale:
Dry Refuse (15%)- No trace of Moisture. Rock, dirt; paper will be fuzzed up or brittle.
Normal (20-25%)- Paper and cardboard, etc., still not noticeably wet. Normal moisture content of material consistent with prior to disposal.
Damp (25-35%)- Paper shows dampness. Lawn clipping and tree branches are stiff and hold together.
Wet (35-50%)- Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.
Saturated (50%)- Mud or free water present.

[illegible]

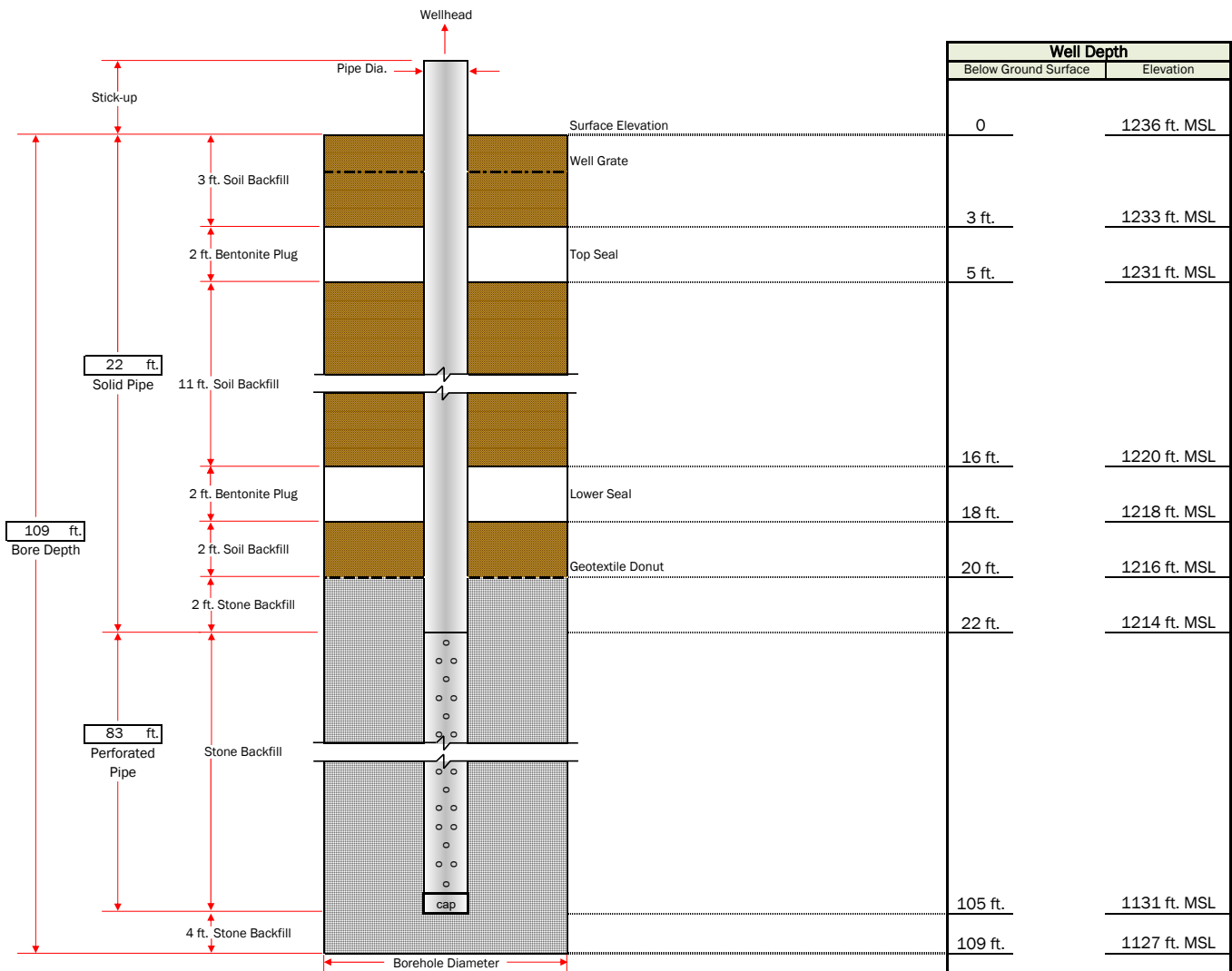
Project Name: 2025 GCCS Expansion
 Project Site: Loess Hills Landfill
 Project Location: Malvern, IA
 Site Technician:
 Contr. Supervisor: Nick Dalton (JCS)
 CQA Technical Staff: Josh Olson (SCS)
 Client Contact: Bret Stephens (IWS)

Start Date: 10/20/2025
 Completion Date: 10/20/2025
 Weather: Clear
 Design Firm: SCS Engineers
 Surveying Firm: TD2
 Drilling Company: Joe Coleman & Son
 Drill Rig Type: Soilmecc SR-30

Well ID: GEW-92
 Northing Coordinate: 5271.89
 Easting Coordinate: 2878.81
 Surface Elv (ft. msl): 1235.70
 Base Elv (ft. msl): 1126.70

Well Construction List					
Pipe Diameter(in.)	8	Top Pipe End	PVC Cap	Well Grate Installed	Yes, Observed
Pipe Material	PVC SCH 80	Stick-up (ft.)	3	Bore Seal Installed	N/A
Soil Backfill	Site Material	Solid (ft. bgs)	22	Pump Installed	N/A
Stone Backfill	1'-3" Washed N	Perf. (ft. bgs)	83	Wellhead Installed	QED 2-inch
Top/Bottom Seal	Bentonite	Bottom Pipe End	PVC Cap	Geotextile Installed	Yes

Well Boring	
Bore Diameter (in.)	36
Bore Depth (ft. bgs)	109
Well Depth (ft. bgs)	105



Field Notes/Comments:

Depth (ft.)	Composition ¹	Temperature	Decomposition Scale ²	Moisture Content Scale ³	Odor Notations ⁴	Gas Pressure ⁵
5						
10	40% Soil, 30% Plastic, 25% Paper, 10% Wood, 5% Textile/Carpet,	87° F	Little	Normal	Discernible	Discernible
15						
20	30% Soil, 20% Plastic, 25% Paper, 15% Wood, 10% Textile/Carpet,	71° F	Some	Normal	Discernible	None Discernible
25						
30	25% Soil, 25% Plastic, 30% Paper, 10% Wood, 10% Textile/Carpet,	73° F	Some	Normal	Discernible	None Discernible
35						
40	25% Soil, 30% Plastic, 25% Paper, 10% Wood, 5% Textile/Carpet, 5% Rubber,	64° F	Some	Normal	Discernible	None Discernible
45						
50	30% Soil, 20% Plastic, 30% Paper, 10% Wood, 10% Textile/Carpet,	95° F	Moderate	Normal	Discernible	Discernible
55						
60	25% Soil, 25% Plastic, 25% Paper, 10% Wood, 5% Textile/Carpet, 5% Rubber, and Some 5	102° F	Moderate	Normal	Discernible	Extremely Discernible
65						
70	30% Soil, 25% Plastic, 35% Paper, 5% Wood, 5% Textile/Carpet,	103° F	Moderate	Normal	Discernible	Discernible
75						
80	25% Soil, 30% Plastic, 30% Paper, 10% Wood, 5% Textile/Carpet,	95° F	Moderate	Normal	Discernible	Discernible
85						
90						
95						
100	20% Soil, 30% Plastic, 25% Paper, 5% Wood, 5% Textile/Carpet, and Some 15	107° F	Much	Damp	Discernible	Discernible
105						
109	25% Soil, 20% Plastic, 20% Paper, 5% Wood, 10% Textile/Carpet, and Some 20	115° F	Much	Damp	Discernible	Discernible
115						
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NOTES:

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Little - Printed material is readable. Refuse looks freshly buried.

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Moderate - Printed material not legible, branches intact.

Much

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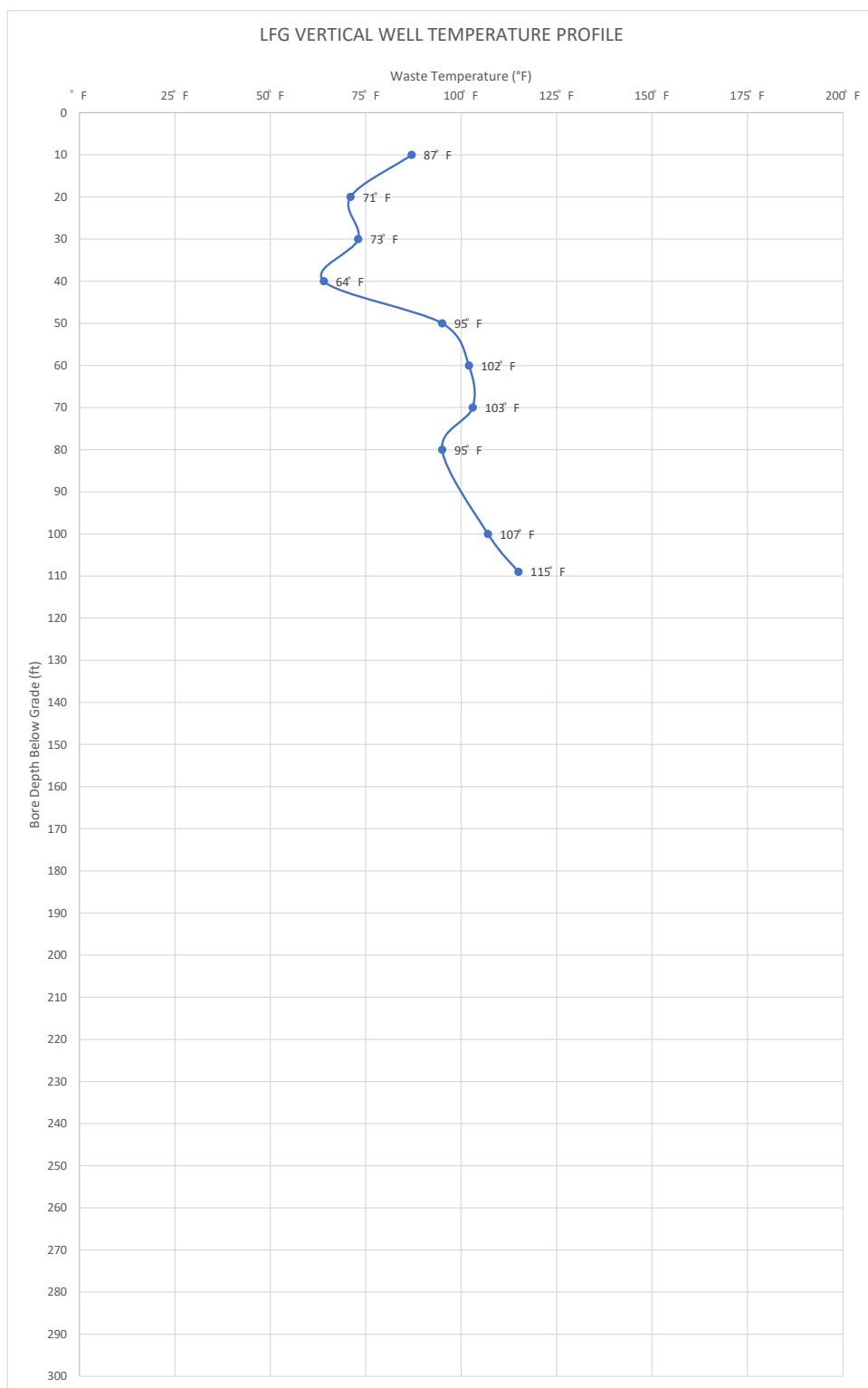
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Wet (35-50%)- Paper saturated but not free water. Waste is just getting sloppy. Water emanates when squeezed.

Saturated (50%)- Mud or free water present.

[illegible]



Appendix C

Field Pressure Test Results

SCS ENGINEERS

Pressure Testing Information

Client: Iowa Waste Services, LLC.
 Project: Loess Hills Landfill 2025 GCCS Exp
 Project No.: 27225516.00

CQA Technician: Josh Olson, Jenna Miller, Ben Graham
 Contractor: Joe Coleman & Son
 Pressure Gauge: Trerice 200 psi gauge

Date	Test Number	Segment	Pipe Size (in.)	Time		Temperature (°F)		Pressure (psig)		Acceptable Pressure Change Due to Temp Change	Pressure Change (psig)	Pass/Fail
				Start	End	Start	End	Start	End			
10/22/25	1	N-Q	12	14:51	15:51	63	63	12.5	12.5	0.00	0.00	P
10/28/25	2	NW System (up to road)	6->12	8:19	10:21	51	50	10	9.5	-0.05	-0.50	P
10/28/25	3	NW System (up to road)	2	8:33	10:21	51	50	101	96	-0.23	-5.00	P
10/28/25	4	NW System (up to road)	3	8:56	10:21	51	50	100	100	-0.22	0.00	P
11/06/25	5	POI E to 71R, 88, 64R2, 57R, 66R	8,12,6	14:40	15:45	59	60	10	10	0.05	0.00	P
11/06/25	6	POI E to 71R, 88, 64R2, 57R, 66R	2	14:11	15:11	60	60	100	100	0.00	0.00	P
11/06/25	7	POI E to 71R, 88, 64R2, 57R, 66R	3	15:49	16:49	60	60	100	100	0.00	0.00	P
11/15/25	8	67R to POI G	6	10:35	11:35	51	55	23	23	0.30	0.00	P
11/10/25	9	POI N to POI L	3	13:40	14:40	45.3	55.2	100	98	2.25	-2.00	P
11/10/25	10	POI N to POI L	2	13:40	14:40	62.7	58.6	100	98	-0.90	-2.00	P
11/10/25	11	GEW-92 to GEW-87	3	14:00	15:00	51.4	34.5	100	99	-3.80	-1.00	P
11/10/25	12	GEW-92 to GEW-87	2	14:00	15:00	52.1	31.7	100	99	-4.58	-1.00	P
11/11/25	13	GEW-92 to GEW-87	6	10:20	11:20	44.6	39.2	10	10	-0.26	0.00	P

Acceptable Change in Pressure =

$$\left((\text{End Pres} + 459) \left(\frac{\text{Start Pres} + 14.65}{\text{Start Temp} + 459} \right) \right) - 14.65 - \text{Start Pres}$$

SCS ENGINEERS

Pressure Testing Information

Client: Iowa Waste Services, LLC.
 Project: Loess Hills Landfill 2025 GCCS Exp
 Project No.: 27225516.00

CQA Technician: Josh Olson, Jenna Miller, Ben Graham
 Contractor: Joe Coleman & Son
 Pressure Gauge: Trerice 200 psi gauge

Date	Test Number	Segment	Pipe Size (in.)	Time		Temperature (°F)		Pressure (psig)		Acceptable Pressure Change Due to Temp Change	Pressure Change (psig)	Pass/Fail
				Start	End	Start	End	Start	End			
11/25/25	14	Mid Header/Lats (POI L to N)	6"/12"	8:07	9:07	55.1	47.8	24	24	-0.55	0.00	P
12/03/25	15	GEW 37R to 50R & West to "N" header	6"/8"	14:02	15:05	27	25	14	15	-0.12	1.00	P
12/07/25	16	POI P to POI L & 38R, 29R	2"	8:09	9:12	23	23	99	99	0.00	0.00	P
12/07/25	17	POI P to POI L & 38R, 29R	3"	9:56	10:57	23	22	102	100	-0.24	-2.00	P
12/07/25	18	GEW-53R to Crossing East of GEW-92	2"	11:20	11:22	22	23	100	100	0.24	0.00	P
12/07/25	19	GEW-53R to Crossing East of GEW-92	6"	11:20	11:22	22	23	30	30	0.09	0.00	P
12/07/25	20	GEW-53R to Crossing East of GEW-92	3"	12:07	13:08	23	23	100	100	0.00	0.00	P
12/08/25	21	POI R to GEW-38R	6"	10:07	11:07	9.7	-	29	30	-	1.00	P
12/20/25	22	GEW-55R to POI H, w/ 59, 62R, 86, 82	6"	9:29	10:32	38	40	10	10	0.10	0.00	P
12/20/25	23	GEW-55R to POI H, w/ 59, 62R, 86, 82	3"	11:40	12:40	41	42	102	66	0.23	-36.00	F
12/20/25	24	GEW-55R to POI H, w/ 59, 62R, 86, 82	2"	10:12	11:13	39	41	101	100	0.46	-1.00	P
12/20/25	25	GEW-55R to POI H, w/ 59, 62R, 86, 82	3"	14:30	15:30	44	44	102	100	0.00	-2.00	P

Acceptable Change in Pressure =

$$\left((\text{End Pres} + 459) \left(\frac{\text{Start Pres} + 14.65}{\text{Start Temp} + 459} \right) \right) - 14.65 - \text{Start Pres}$$

T:\272255\16.00\AUTOCAD\AUTOCAD\SHEET\SC2.0 SITE LAYOUT.DWG

PROPOSED ROAD
CROSSING.
SEE DETAIL 5/C2.3

LEGEND

- EXISTING LFG PIPE
- EXISTING AIR/LIQUID CONVEYANCE PIPE
- PROPOSED 6" LFG PIPE
- PROPOSED 8" LFG PIPE
- PROPOSED 12" LFG PIPE
- PROPOSED AIR/LIQUID CONVEYANCE PIPE
- CONSTRUCTED FINAL COVER AREA
- 2' CONTOURS
- 10' CONTOURS
- PROPOSED VERTICAL LFG EXTRACTION WELL
- LFG WELL TO BE ABANDONED
- EXISTING LFG EXTRACTION WELL
- LFG ISOLATION VALVE
- AIR SUPPLY/LEACHATE FORCEMAIN ISOLATION VALVE
- POINT OF INTEREST (SEE SHEET C0.3 FOR ADDITIONAL DETAILS)

NOTES:

- EXISTING SITE LAYOUT FROM AS-CONSTRUCTED SURVEYS OF GCCS INSTALLATION AND EXPANSION PROJECTS PROVIDED BY IOWA WASTE SERVICES, LLC.
- EXISTING TOPOGRAPHY FROM SURVEY CONDUCTED SEPTEMBER 16, 2025, PROVIDED BY IOWA WASTE SERVICES, LLC.

250 0 250

SCALE FEET
ISSUED FOR CONSTRUCTION

CK		BY		DATE		REV.		SHEET TITLE		PROJECT TITLE		CK		BY		DATE		REV.	
								SITE LAYOUT		LOESS HILLS LANDFILL									

Appendix D

Issued for Construction Drawings

IOWA WASTE SERVICES, LLC.

LOESS HILLS REGIONAL SANITARY LANDFILL

2025 GCCS EXPANSION

PREPARED FOR



IOWA WASTE SERVICES, LLC.
59722 290TH STREET
MALVERN, IA

PREPARED BY

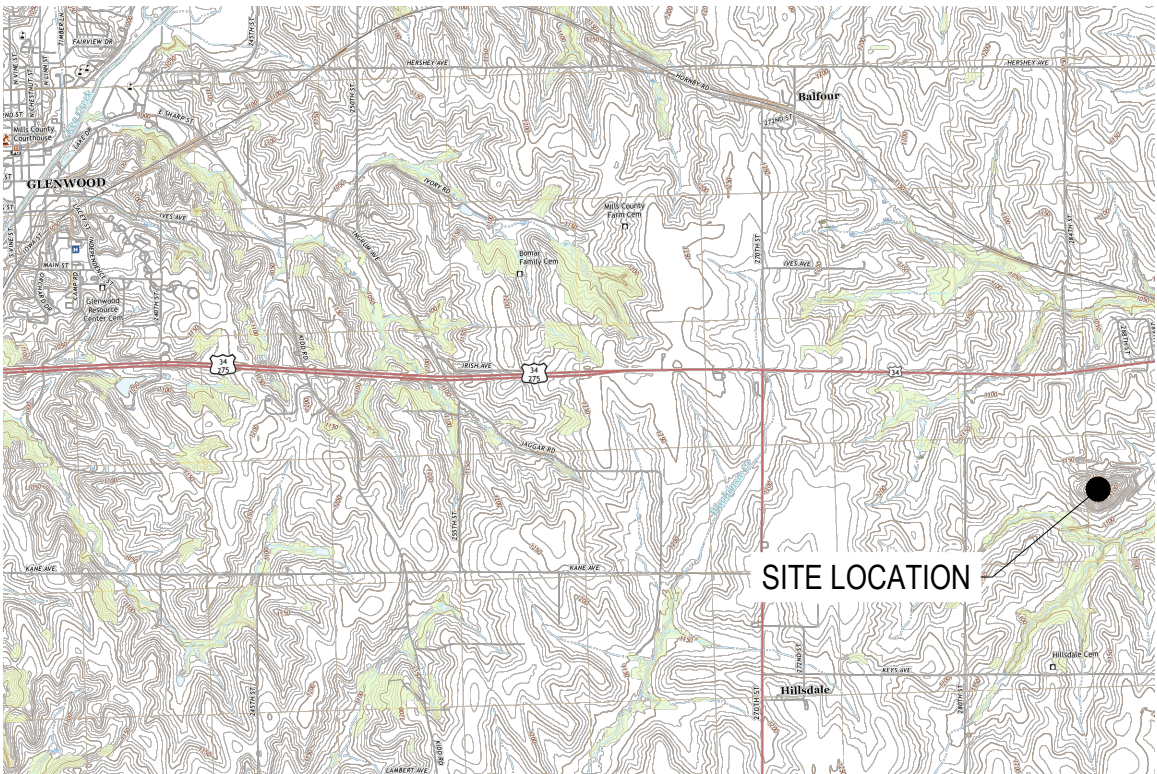
SCS ENGINEERS

14755 GROVER STREET
OMAHA, NE 68144
(402) 884-6202 FAX (913) 681-0012

PROJECT NO. 27225516.00

Solid Waste Permit No. 65-SDP-01-72P
OCTOBER 2025

TABLE OF CONTENTS			
SHEET NO.	DESCRIPTION	REV NO.	DATE
C0.0	COVER SHEET	0	10/10/2025
C0.1	NOTES	0	10/10/2025
C0.2	PHASE 1 WELL SCHEDULE	0	10/10/2025
C0.3	POINTS OF INTEREST	0	10/10/2025
C1.0	SITE LAYOUT	0	10/10/2025
C2.0	EXTRACTION WELL DETAILS	0	10/10/2025
C2.1	PIPE PLACEMENT AND DECOMMISSIONING DETAILS	0	10/10/2025
C2.2	RISER AND CLEANOUT DETAILS	0	10/10/2025
C2.3	PIPE CONNECTIONS DETAILS	0	10/10/2025



REFERENCE: USGS QUADRANGLE MAP, GLENWOOD, IOWA, 2022



I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Eric Sonsthagen **October 10, 2025**
ERIC SONSTHAGEN, P.E. (date)

My license renewal date is December 31, 2025.

Pages or sheets covered by this seal:

ALL SHEETS

T:\272255\16.00\AUTOCAD\AUTOCAD\SHEETS\C0.2 WELL SCHEDULE.DWG

WELL NUMBER	NORTHING (FT)	EASTING (FT)	EXISTING SURFACE ELEVATION (FT)	LINER ELEVATION (FT)	DEPTH OF WASTE (FT)	BOREHOLE DEPTH (FT)	PERFORATED PIPE LENGTH (FT)	SOLID PIPE LENGTH (FT)	SOLID PIPE ABOVE GRADE (FT)	TOTAL PIPE LENGTH (FT)	THICKNESS OF GRAVEL PACK (FT)
GEW-36R	4514.91	3061.25	1242	1152	90	75	49	25	3	77	52
GEW-38R	4570.63	3432.86	1253	1138	115	100	74	25	3	102	77
GEW-43R	4760.71	3424.11	1263	1108	154	139	113	25	3	141	116
GEW-50R	4602.96	3068.18	1256	1132	124	109	83	25	3	111	86
GEW-53R	4991.49	2906.32	1246	1108	138	123	97	25	3	125	100
GEW-56R	5204.19	3431.22	1250	1094	155	140	114	25	3	142	117
GEW-57R	5209.28	3621.06	1234	1092	141	126	100	25	3	128	103
GEW-62R	5324.79	3721.05	1202	1098	104	89	63	25	3	91	66
GEW-63R	5336.60	3562.38	1231	1102	128	113	87	25	3	115	90
GEW-64R2	5371.89	3415.41	1247	1100	146	131	105	25	3	133	108
GEW-65R	5461.25	3392.13	1235	1100	135	120	94	25	3	122	97
GEW-66R	5489.51	3525.41	1216	1098	118	103	77	25	3	105	80
GEW-67R	5546.93	3668.44	1182	1098	83	68	42	25	3	70	45
GEW-71R	5609.65	3397.03	1209	1104	105	90	64	25	3	92	67
GEW-82	4887.22	3543.59	1258	1096	162	147	121	25	3	149	124
GEW-83	4884.60	3735.58	1216	1092	124	109	83	25	3	111	86
GEW-84	5059.43	3638.78	1250	1096	154	139	113	25	3	141	116
GEW-88	5412.85	3223.66	1247	1104	143	128	102	25	3	130	105
GEW-89	5368.06	3050.52	1243	1108	135	120	94	25	3	122	97
GEW-90	5469.75	2905.45	1233	1110	123	108	82	25	3	110	85
GEW-91	5457.57	2711.68	1207	1114	92	77	51	25	3	79	54
GEW-92	5271.71	2878.28	1237	1112	124	109	83	25	3	111	86

NOTES:

1. EXISTING SURFACE ELEVATIONS FROM SURVEY CONDUCTED OCTOBER 9, 2025 BY TD2.
2. LINER ELEVATIONS FROM VARIOUS CELL CONSTRUCTION AS-BUILT DRAWINGS FROM BARKER-LEMAR AND EVORA GROUP.
3. WELLS NOTED AS "R" ARE REDRILLS OF EXISTING WELLS.
4. WELLS SHOWN ON SHEET C1.0 BUT NOT INCLUDED IN THE PHASE 1 WELL SCHEDULE HAVE NOT BEEN SURVEYED DUE TO ONGOING FACILITY OPERATIONS. WELLS NOT INCLUDED IN THIS WELL SCHEDULE WILL BE INCLUDED IN THE PHASE 2 WELL SCHEDULE AND SHALL NOT BE DRILLED OR CONSTRUCTED UNTIL THE PHASE 2 WELL SCHEDULE IS ISSUED AND THE ACKNOWLEDGEMENT IS SIGNED BY INVOLVED PARTIES.

THE UNDERSIGNED ACKNOWLEDGES THAT THEY HAVE REVIEWED WELLS IN THE ASSOCIATED WELL SCHEDULE AND BELIEVES THE INFORMATION TO BE CORRECT TO THE BEST OF THEIR KNOWLEDGE AND HAS NOTIFIED THE ENGINEER OF DEFICIENCIES OR OMISSIONS.

DESIGN ENGINEER

DESIGN ENGINEER PROJECT MANAGER

OWNER/OWNER'S REPRESENTATIVE

CQA CONSULTANT

SURVEYOR

DRILLER

DATE

DATE

DATE

DATE

DATE

DATE

CK
BY

REV

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DATE

SHEET TITLE

PHASE 1 WELL SCHEDULE

PROJECT TITLE

LOESS HILLS LANDFILL
2025 GCCS EXPANSION

CLIENT

IOWA WASTE SERVICES, LLC.
59722 290TH STREET
MALVERN, IA

SCS ENGINEERS

14755 GROVER STREET
OMAHA, NE 68144
PH. (402) 884-6202 FAX. (913) 881-0012

PROJ NO
27225516.00

DWN BY
BSG

CHK BY
ZEM

PROJ MGR
ZEM

CADD FILE:

C0.2 WELL SCHEDULE.DWG

DATE:

10/10/25

DRAWING NO.

C0.2

ISSUED FOR CONSTRUCTION

T:\272255\16.00\AUTOCAD\AUTOCAD\SHEET\SC0.3 POINTS OF INTEREST.DWG

POINTS OF INTEREST				
POINT OF INTEREST	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)	DESCRIPTION
A	5295.36	2784.74	—	LEACHATE FORCEMAIN DOUBLE CLEANOUT
B	5368.75	3067.62	—	LEACHATE FORCEMAIN END CLEANOUT
C	5533.14	2646.41	1196.5	PROPOSED 12” HEADER TIE-IN TO EXISTING 12” HEADER; CAP AND ABANDON IN PLACE EXISTING HEADER; LEACHATE FORCEMAIN DOUBLE CLEANOUT
D	5835.87	2529.54	1158.9	AIR AND FORCEMAIN TIE-IN AND ISOLATION VALVES AT EXISTING AIR AND FORCEMAIN
E	5808.31	3458.85	1158.7	PROPOSED 12” HEADER TIE-IN AND LFG ISOLATION VALVE AT EXISTING 12” HEADER; AIR AND FORCEMAIN TIE-IN AND ISOLATION VALVES AT EXISTING AIR AND FORCEMAIN
F	5403.46	3209.37	—	LEACHATE FORCEMAIN END CLEANOUT
G	5596.00	3810.86	—	PROPOSED 6” LATERAL TIE-IN TO EXISTING 6” LATERAL RISER
H	5273.38	4133.39	1106.9	PROPOSED 12” HEADER TIE-IN AND LFG ISOLATION VALVE AT EXISTING 12” HEADER; AIR AND FORCEMAIN TIE-IN AND ISOLATION VALVES AT EXISTING AIR AND FORCEMAIN
I	5188.77	3658.27	—	LEACHATE FORCEMAIN DOUBLE CLEANOUT
J	5056.66	3537.33	—	LEACHATE FORCEMAIN DOUBLE CLEANOUT
K	4898.76	3541.97	—	LEACHATE FORCEMAIN END CLEANOUT
L	4656.21	3649.92	1216.7	PROPOSED 12” HEADER TIE-IN AND LFG ISOLATION VALVE AT EXISTING 12” HEADER; CAP AND ABANDON IN PLACE EXISTING HEADER
M	4756.21	3138.47	—	LEACHATE FORCEMAIN DOUBLE CLEANOUT
N	4525.96	2627.07	1179.2	PROPOSED 12” HEADER TIE-IN AND LFG ISOLATION VALVE AT EXISTING 12” HEADER; CAP AND ABANDON IN PLACE EXISTING HEADER; 12” TEE TO POI Q
O	4538.03	2896.59	1227.4	LEACHATE FORCEMAIN DOUBLE CLEANOUT; CAP AND ABANDON IN PLACE EXISTING 12” HEADER
P	4272.17	2859.29	1205.2	PROPOSED AIR SUPPLY AND LEACHATE FORCEMAIN TIE-IN TO EXISTING AIR SUPPLY AND LEACHATE FORCEMAIN
Q	4631.46	2645.64	—	PROPOSED 12” HEADER REDUCED TO 6” LATERAL WITH 6” LFG RISER
R	4497.63	3617.76	1211.7	PROPOSED 6” LATERAL TIE-IN TO EXISTING 6” LATERAL/12” HEADER; ABANDON IN PLACE EXISTING LATERAL
S	5071.85	4030.23	1151.8	CAP AND ABANDON IN PLACE EXISTING 12” HEADER; LOCATION EXPOSED BY FACILITY PERSONNEL
T	4800.64	2886.49	1226.0	CAP AND ABANDON IN PLACE EXISTING 12” HEADER

NOTES:
1. ELEVATIONS INCLUDED FOR TIE-IN LOCATIONS FROM AS-CONSTRUCTED DOCUMENTATION FROM VARIOUS GCCS PROJECTS AND ARE APPROXIMATE.

ISSUED FOR CONSTRUCTION

CK BY										
REV										
DATE										
SHEET TITLE					PROJECT TITLE					
POINTS OF INTEREST					LOESS HILLS LANDFILL 2025 GCCS EXPANSION					
CLIENT					IOWA WASTE SERVICES, LLC. 59722 290TH STREET MALVERN, IA					
SCS ENGINEERS 14755 GROVER STREET OMAHA, NE 68144 PH. (402) 884-6202 FAX. (913) 681-0012					DESIGNED BY	BSG	CHECKED BY	ZEM	PROJECT MANAGER	ZEM
CADD FILE: C0.3 POINTS OF INTEREST.DWG					DATE:	10/10/25				
DRAWING NO.					C0.3					

T:\272255\16.00\AUTOCAD\AUTOCAD\SHEET\SC2.0 SITE LAYOUT.DWG

PROPOSED ROAD
CROSSING.
SEE DETAIL 5/C2.3

LEGEND

- EXISTING LFG PIPE
- EXISTING AIR/LIQUID CONVEYANCE PIPE
- PROPOSED 6" LFG PIPE
- PROPOSED 8" LFG PIPE
- PROPOSED 12" LFG PIPE
- PROPOSED AIR/LIQUID CONVEYANCE PIPE
- CONSTRUCTED FINAL COVER AREA
- 2' CONTOURS
- 10' CONTOURS
- PROPOSED VERTICAL LFG EXTRACTION WELL
- LFG WELL TO BE ABANDONED
- EXISTING LFG EXTRACTION WELL
- LFG ISOLATION VALVE
- AIR SUPPLY/LEACHATE FORCEMAIN ISOLATION VALVE
- POINT OF INTEREST (SEE SHEET C0.3 FOR ADDITIONAL DETAILS)

NOTES:

- EXISTING SITE LAYOUT FROM AS-CONSTRUCTED SURVEYS OF GCCS INSTALLATION AND EXPANSION PROJECTS PROVIDED BY IOWA WASTE SERVICES, LLC.
- EXISTING TOPOGRAPHY FROM SURVEY CONDUCTED SEPTEMBER 16, 2025, PROVIDED BY IOWA WASTE SERVICES, LLC.

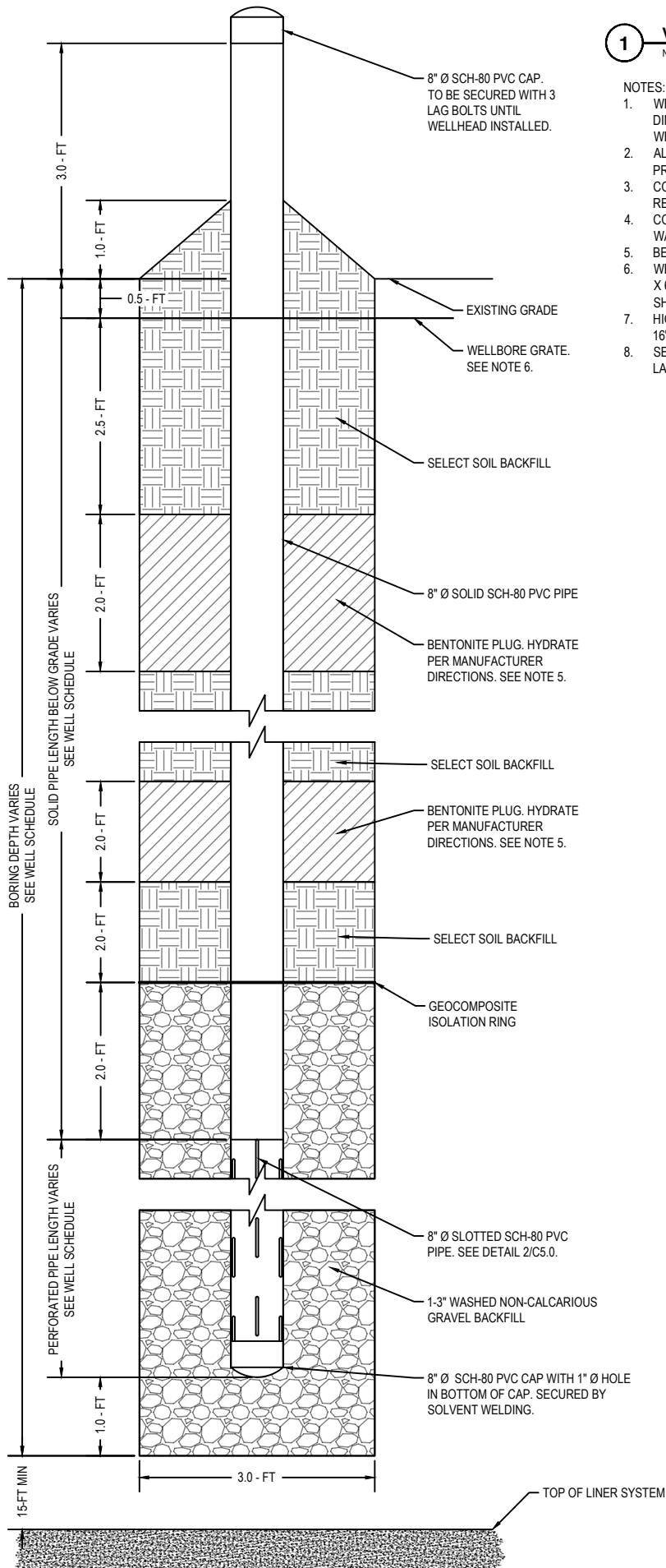
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SCALE FEET

ISSUED FOR CONSTRUCTION

CK		BY		DATE		REV		SHEET TITLE		PROJECT TITLE	
IOWA WASTE SERVICES, LLC.										59722 290TH STREET MALVERN, IA	
SCS ENGINEERS										14755 GROVER STREET OMAHA, NE 68144 PH. (402) 884-6202 FAX. (913) 881-0012	
CADD FILE: C:\0 SITE LAYOUT.DWG		DATE:		10/10/25		DRAWING NO.		C1.0			
DWN BY: BSG		CKD BY: ZEM		PRJL MGR: ZEM							

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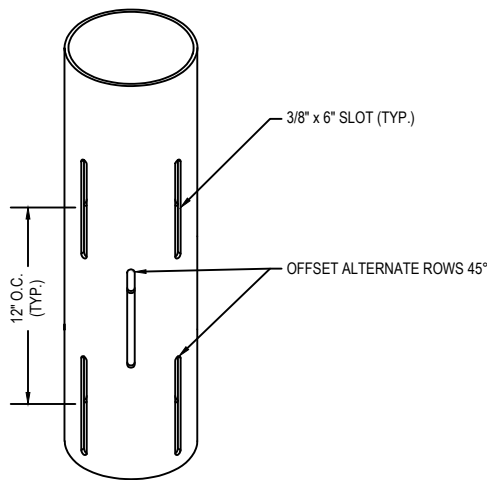


1 VERTICAL LFG EXTRACTION WELL

NOT TO SCALE

NOTES:

1. WELL TO BE DRILLED AND CONSTRUCTED TO THE DIMENSIONS SHOWN IN THE ISSUED-FOR-CONSTRUCTION WELL SCHEDULE.
2. ALL WELL LOCATIONS TO BE STAKED OUT AND APPROVED PRIOR TO DRILLING AND CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION, REMOVAL, AND RESTORATION OF DRILLING PADS/BENCHES.
4. CONTRACTOR IS RESPONSIBLE FOR HAULING EXCAVATED WASTE TO THE ACTIVE FACE.
5. BENTONITE PLUGS TO BE HYDRATED AND PLACED IN 6" LIFTS.
6. WELLBORE REINFORCEMENT GRATE SHALL BE 5' BY 5' WITH 6" X 6" SPACING. SIZE OF BARS SHALL BE A MINIMUM OF 1/4" AND SHALL BE GALVANIZED OR EPOXY COATED.
7. HIGHEST ELEVATED BELL-SOCKET JOINT TO BE A MINIMUM OF 16" BELOW EXISTING GROUND SURFACE.
8. SELECT SOIL BACKFILL SHALL BE FREE OF REFUSE AND LARGE STONES THAT MAY DAMAGE THE WELL.

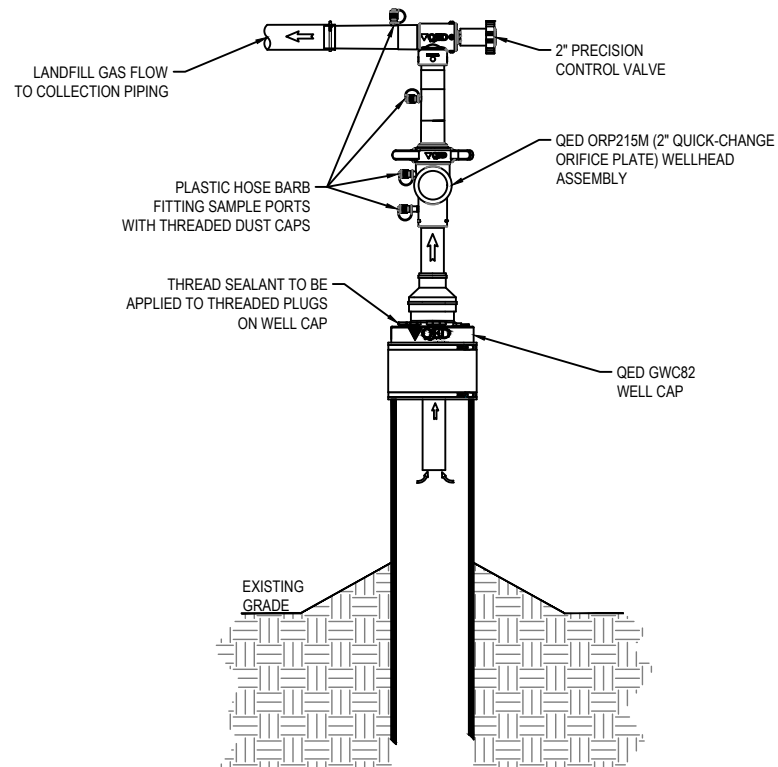


2 SLOTTED PVC PIPE DETAIL

NOT TO SCALE

NOTES:

1. PIPE TO BE 8" Ø SCHEDULE 80 PVC PIPE.
2. SLOTS TO BE SPACED 90° APART HORIZONTALLY.
3. ALTERNATIVE SLOT DETAILS MAY BE PROPOSED BY CONTRACTOR TO DESIGN ENGINEER. ALTERNATES MUST BE APPROVED BY ENGINEER PRIOR TO USE.



3 WELLHEAD ASSEMBLY

NOT TO SCALE

NOTES:

1. NEW WELLHEADS PROVIDED BY THE OWNER AND EXISTING WELLHEADS TO BE USED FOR REDRILLED WELLS SHALL BE PROTECTED DURING CONSTRUCTION ACTIVITIES. WELL COMPONENTS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
2. WELL CAPS, WELLHEADS, AND ASSOCIATED APPURTENANCES TO BE INSTALLED BY THE OWNER OR ITS REPRESENTATIVE. WELL CASINGS AND LFG COLLECTION RISERS SHALL REMAINED CAPPED AFTER INSTALLATION.

ISSUED FOR CONSTRUCTION

CK	BY	DATE	REV	DATE	REV
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SHEET TITLE	PROJECT TITLE
WELL DETAILS	LOESS HILLS LANDFILL 2025 GCCS EXPANSION

CLIENT	PROJECT
IOWA WASTE SERVICES, LLC. 59722 290TH STREET MALVERN, IA	

SCS ENGINEERS	DATE	DRAWN BY	CHECKED BY	PROJECT MANAGER
14755 GROVER STREET OMAHA, NE 68144 PH. (402) 884-6202 FAX. (913) 881-0012	10/10/25	BSG	ZEM	ZEM

CADD FILE: C5.0 WELL DETAILS.DWG	DRAWING NO.
	C2.0

EXISTING HDPE LFG COLLECTION RISER

SELECT SOIL BACKFILL MOUNDED TO ACCOMMODATE SETTLING

EXISTING GRADE

10'-FT

20'-FT

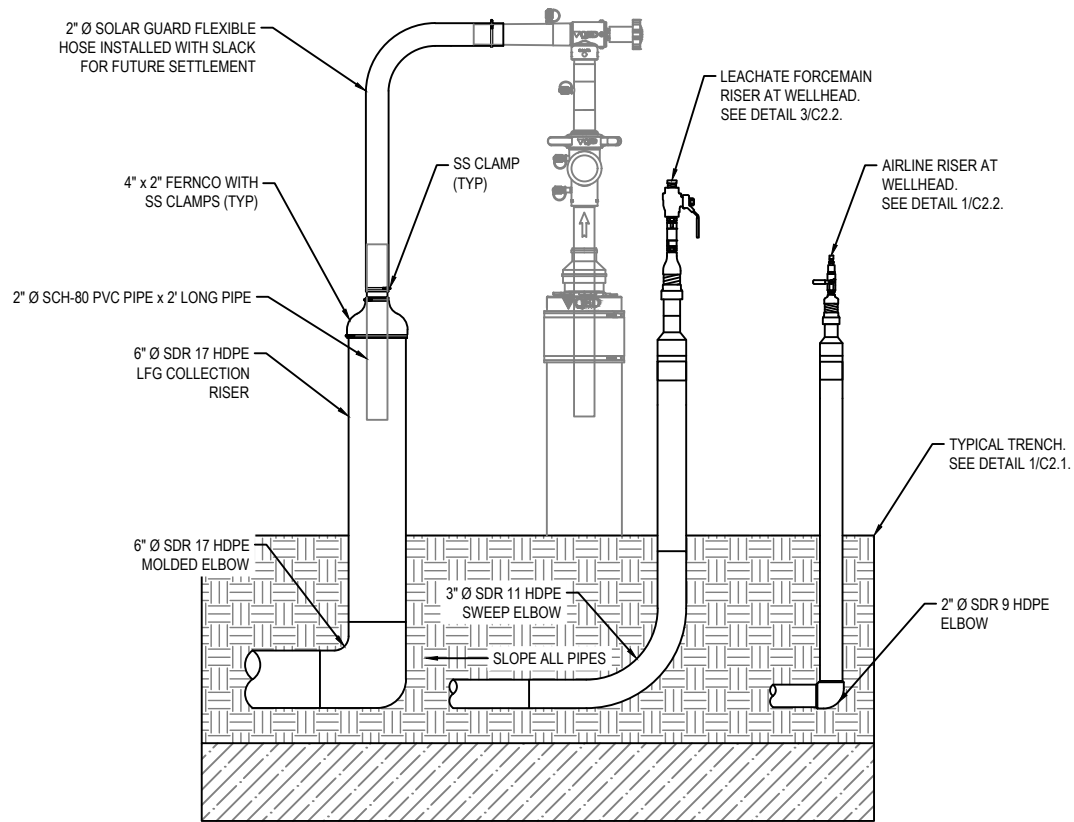
HYDRATED BENTONITE PLUG

BUTT-WELDED HDPE CAP. PVC SLIP CAPS WILL NOT BE ACCEPTED. EQUIVALENT SIZE AND SDR AS EXISTING RISER

EXISTING SOIL AND WASTE

NOTES:

1. CONTRACTOR SHALL PLACE RISER PIPE FROM DECOMMISSIONED WELL IN OWNER APPROVED LOCATION.
2. BENTONITE PLUG TO BE PLACED AND HYDRATED IN 6" LIFTS.



NOTES:

1. AIR SUPPLY AND LIQUID CONVEYANCE PIPE NOT SHOWN FOR CLARITY. PIPES SHALL BE PLACED IN TRENCH ACCORDING TO DETAIL 1/C2.1.

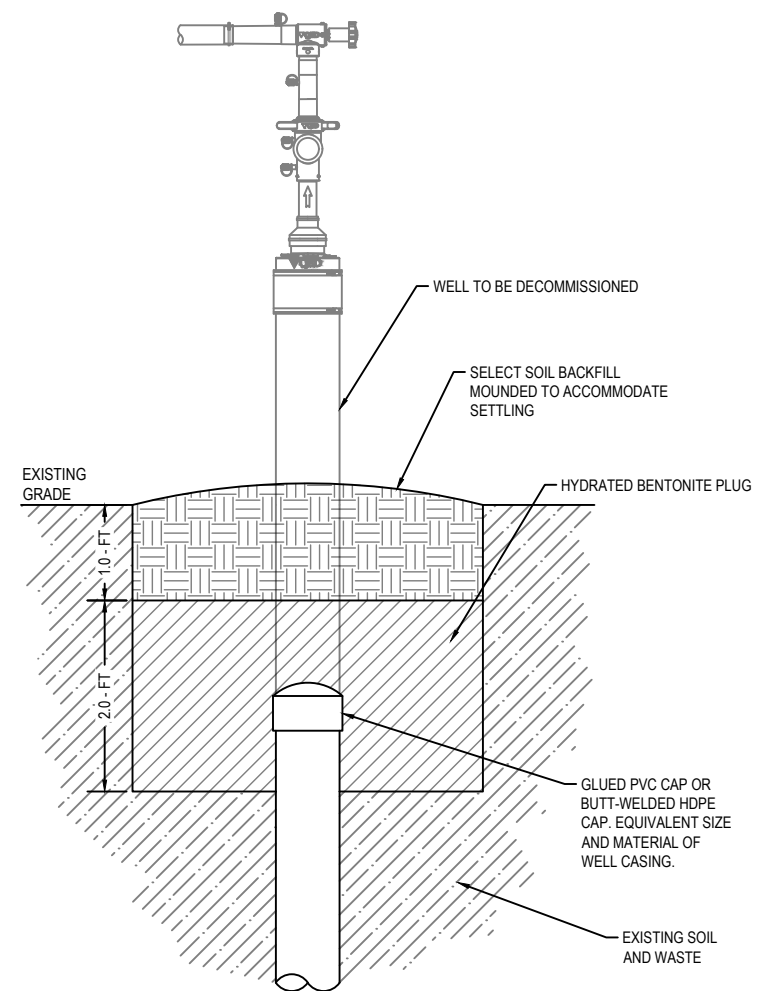


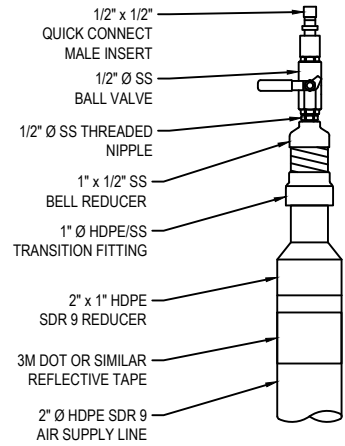
Diagram illustrating the installation of a butt-welded SDR 17 HDPE cap. The diagram shows a cross-section of the cap being welded to an existing header. The cap is labeled "NEW SDR 17 HDPE HEADER" and the existing header is labeled "EXISTING HEADER". The pipes to be butt-welded together are labeled "PIPES TO BE BUTT-WELDED TOGETHER". The cap is labeled "BUTT-WELDED SDR 17 HDPE CAP (DIA VARIES)". The header to be abandoned is labeled "HEADER TO BE ABANDONED".

NOTES:

1. TRENCH FOR CONNECTION SHALL BE WIDE AND LONG ENOUGH TO ALLOW FOR CONNECTION WITHOUT KINKING OR CRUSHING EXISTING OR NEW HEADER. SLOPE OF MIN 3.5% SHALL BE MAINTAINED WHEN MAKING CONNECTION.
2. ABANDONED SECTION OF HEADER TO BE ABANDONED USING BUTT-WELDED HOPE CAP OF SAME DIAMETER. BLIND FLANGE OR PVC SLIP CAP WILL NOT BE ACCEPTED.

ISSUED FOR CONSTRUCTION

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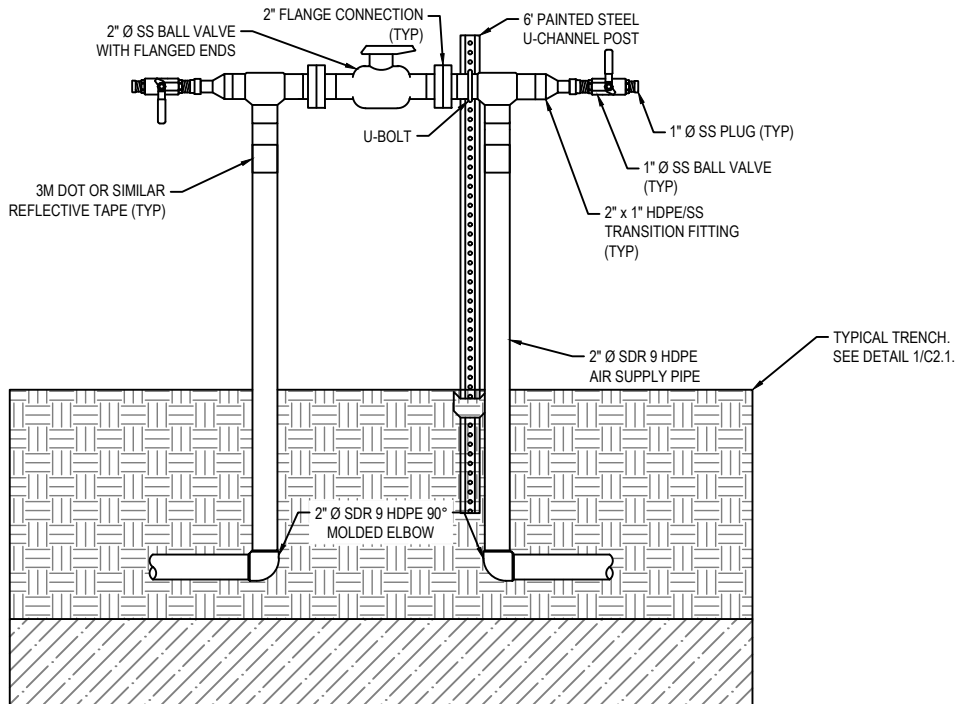


1 AIRLINE RISER AT WELLHEAD

NOT TO SCALE

NOTES:

- AIRLINE RISERS SHALL EXTEND NO LESS THAN 2' AND NO MORE THAN 3' ABOVE FINAL GRADE AS MEASURED FROM CENTER OF TEE FITTING.
- RISER TO BE LOCATED NO MORE THAN 3' FROM WELL.

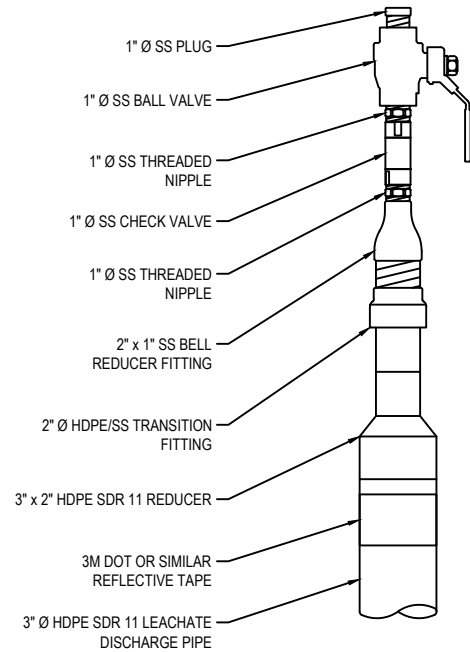


2 AIR SUPPLY LINE ISOLATION VALVE

NOT TO SCALE

NOTES:

- AIR SUPPLY LINE ISOLATION VALVE SHALL EXTEND NO LESS THAN 2' AND NO MORE THAN 3' ABOVE FINAL GRADE AS MEASURED FROM CENTER OF VALVE.
- FLANGES AND VALVES SHALL BE RATED FOR A MINIMUM PRESSURE OF 200 PSI.
- ISOLATION VALVE ASSEMBLY SECURED TO U-CHANNEL POST USING HOT-DIP GALVANIZED U-BOLT, WASHERS, AND LOCK NUTS.
- CARE SHALL BE TAKEN WHEN DRIVING POSTS TO AVOID DAMAGE TO PIPE.

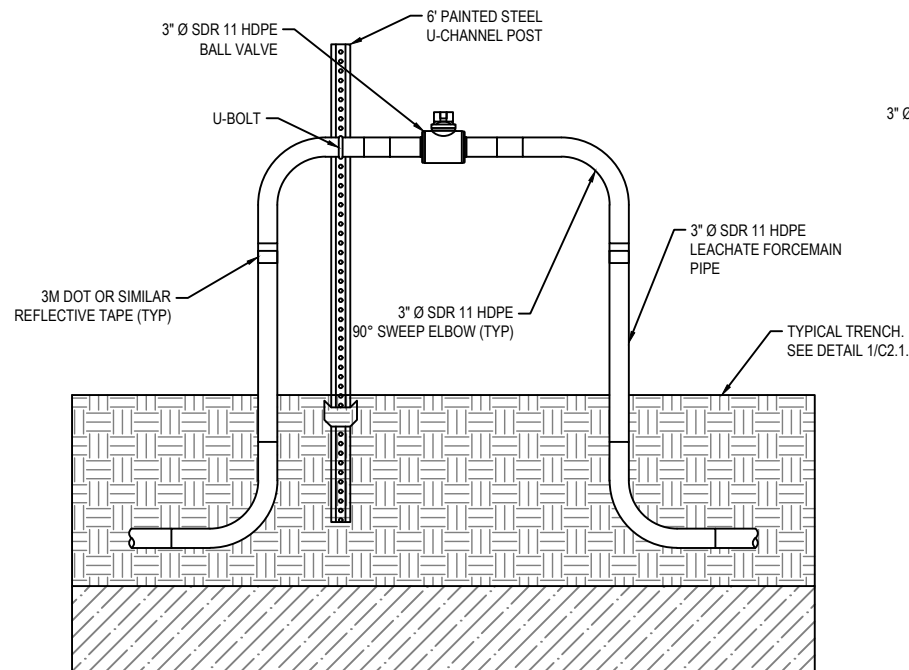


3 LEACHATE FORCEMAIN RISER AT WELLHEAD

NOT TO SCALE

NOTES:

- LEACHATE FORCEMAIN RISERS SHALL EXTEND NO LESS THAN 2' AND NO MORE THAN 3' ABOVE FINAL GRADE AS MEASURED FROM CENTER OF TEE FITTING.
- RISER TO BE LOCATED NO MORE THAN 3' FROM WELL.

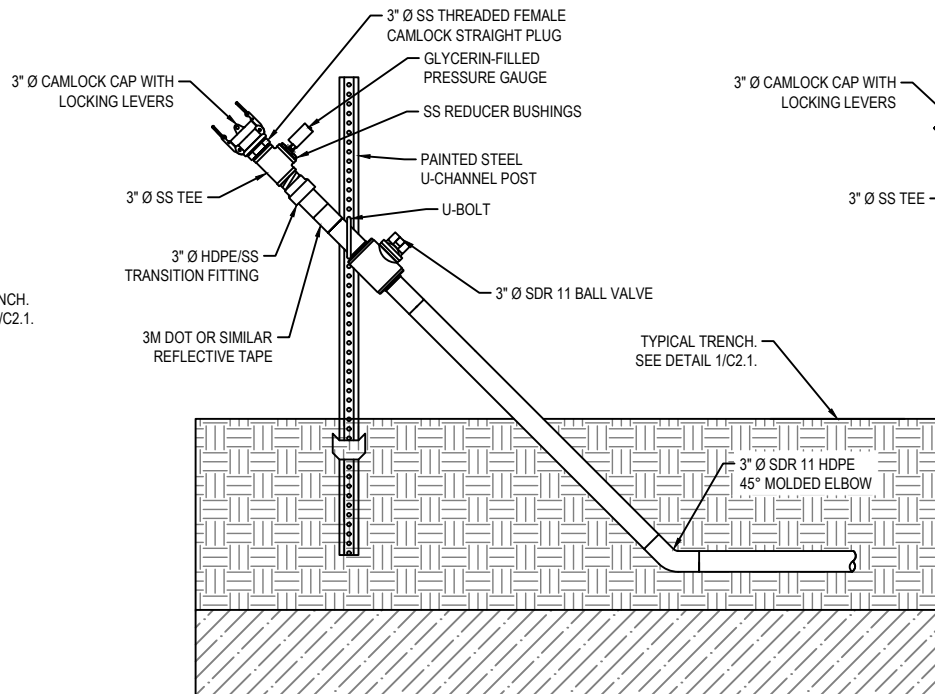


4 LEACHATE FORCEMAIN ISOLATION VALVE

NOT TO SCALE

NOTES:

- LEACHATE FORCEMAIN ISOLATION VALVE SHALL EXTEND NO LESS THAN 2' AND NO MORE THAN 3' ABOVE FINAL GRADE AS MEASURED FROM CENTER OF VALVE.
- ALL COMPONENTS SHALL BE BUTT-WELDED.
- ISOLATION VALVE ASSEMBLY SECURED TO U-CHANNEL POST USING HOT-DIP GALVANIZED U-BOLT, WASHERS, AND LOCK NUTS.
- CARE SHALL BE TAKEN WHEN DRIVING POSTS TO AVOID DAMAGE TO PIPE.

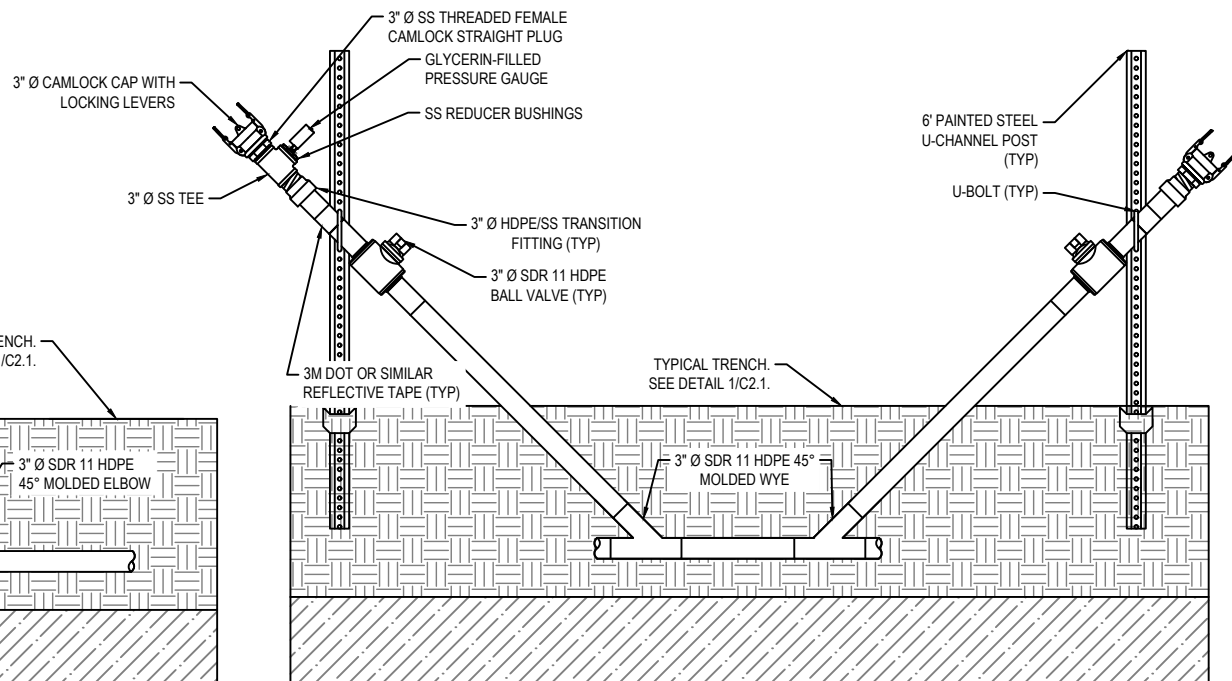


5 TYPICAL LEACHATE FORCEMAIN END CLEANOUT

NOT TO SCALE

NOTES:

- LEACHATE FORCEMAIN CLEANOUT SHALL EXTEND NO LESS THAN 2' AND NO MORE THAN 3' ABOVE FINAL GRADE AS MEASURED FROM CENTER OF VALVE.
- CLEANOUT ASSEMBLY SECURED TO U-CHANNEL POST USING HOT-DIP GALVANIZED U-BOLT, WASHERS, AND LOCK NUTS.
- CARE SHALL BE TAKEN WHEN DRIVING POSTS TO AVOID DAMAGE TO PIPE.



6 TYPICAL LEACHATE FORCEMAIN DOUBLE CLEANOUT

NOT TO SCALE

NOTES:

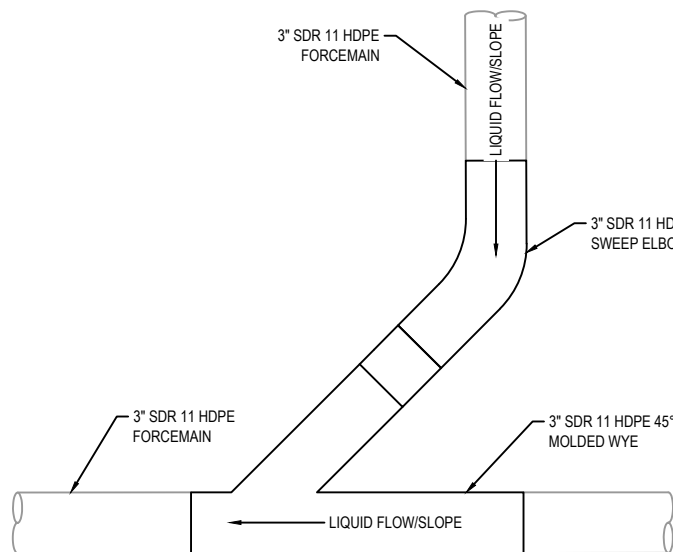
- LEACHATE FORCEMAIN CLEANOUT SHALL EXTEND NO LESS THAN 2' AND NO MORE THAN 3' ABOVE FINAL GRADE AS MEASURED FROM CENTER OF VALVES.
- CLEANOUT ASSEMBLY SECURED TO U-CHANNEL POST USING HOT-DIP GALVANIZED U-BOLT, WASHERS, AND LOCK NUTS.
- CARE SHALL BE TAKEN WHEN DRIVING POSTS TO AVOID DAMAGE TO PIPE.

CK		BY		DATE		REV	
SHEET TITLE		RISER AND CLEANOUT DETAILS				PROJECT TITLE	
CLIENT		IOWA WASTE SERVICES, LLC.				LOESS HILLS LANDFILL	
CADD FILE:		13755 GROVER STREET				2025 GCCS EXPANSION	
DATE:		10/10/25					
DRAWING NO.		C2.2					
SCS ENGINEERS		14755 GROVER STREET					
		OMAHA, NE 68144					
		PH. (402) 884-6202 FAX. (913) 881-0012					
PROJ. NO.		27225516.00		BSG		ZENI	
CADD FILE:		C5.2 RISER AND CLEANOUT DETAILS.DWG		ZENI			
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NOTES:

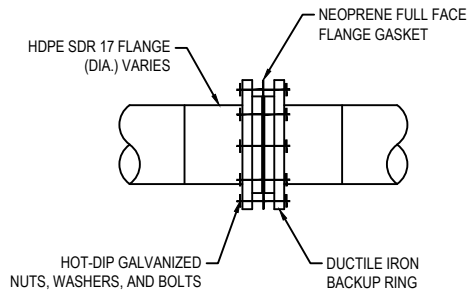
1. NUTS, BOLTS, AND WASHERS SHALL BE HOT-DIP GALVANIZED. STAINLESS STEEL BOLTS AND NUTS WILL NOT BE PERMITTED.
2. THOROUGHLY COAT ENTIRE SURFACE OF BOLTS, WASHERS, NUTS AND BACKUP RINGS WITH POLYCOAT RUBBERIZED PRIMER, OR EQUAL, AFTER TIGHTENING BOLTS. COATING SHALL HAVE NO GAPS IN ITS APPLICATION.
3. WRAP FLANGE IN PLASTIC WRAP PRIOR TO BACKFILLING.



NOT TO SCALE

NOTES:

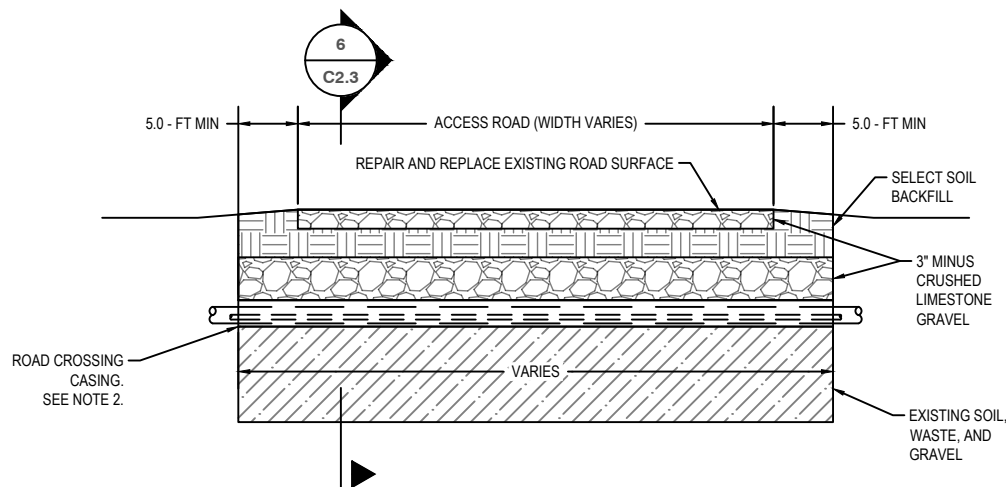
1. TEES SHALL NOT BE USED TO CONNECT LEACHATE FORCEMAIN LINES.
2. CONNECTIONS SHALL BE BUTT-WELDED. FLANGED CONNECTIONS WILL NOT BE ACCEPTED.



NOT TO SCALE

NOTES:

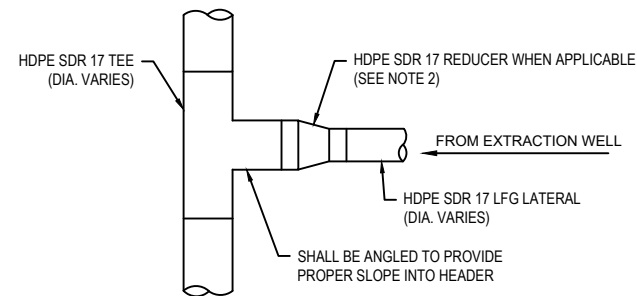
1. NUTS, BOLTS, AND WASHERS SHALL BE HOT-DIP GALVANIZED. STAINLESS STEEL BOLTS AND NUTS WILL NOT BE PERMITTED.
2. THOROUGHLY COAT ENTIRE SURFACE OF BOLTS, WASHERS, NUTS AND BACKUP RINGS WITH POLYCOAT RUBBERIZED PRIMER, OR EQUAL, AFTER TIGHTENING BOLTS. COATING SHALL HAVE NO GAPS IN ITS APPLICATION.
3. WRAP FLANGE IN PLASTIC WRAP PRIOR TO BACKFILLING.



NOT TO SCALE

NOTES:

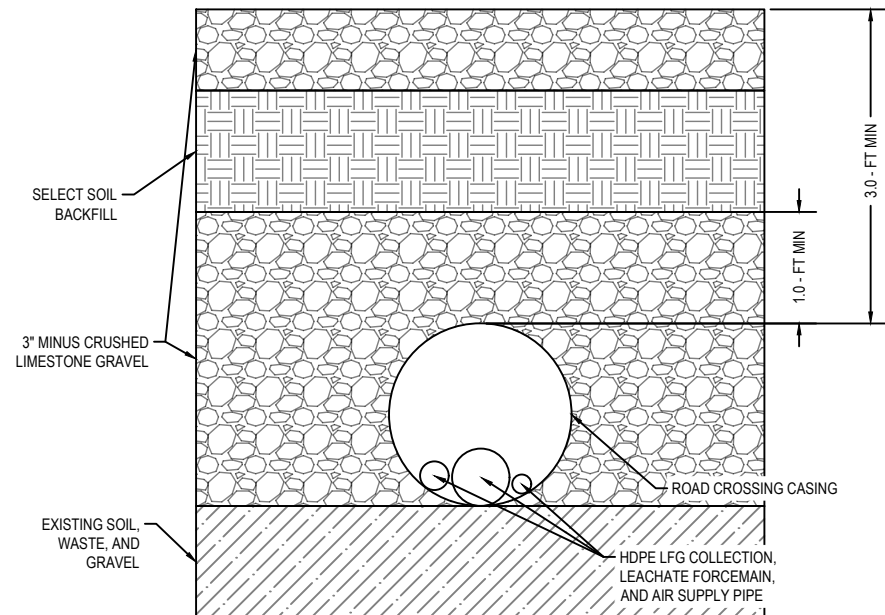
1. ROAD SHALL BE RESTORED TO MATCH ORIGINAL CONDITIONS.
2. ROAD CROSSING CASING SHALL BE 14 GAUGE GALVANIZED CMP WITH A MINIMUM DIAMETER OF 5" GREATER THAN THE CUMULATIVE DIAMETER OF THE PIPES ENCLOSED.



NOT TO SCALE

NOTES:

1. MOLDED HDPE TEES SHALL BE INSTALLED FOR ALL TIE-INS OF LATERALS TO HEADER 12"Ø AND SMALLER. TEE SHALL BE ANGLED TO MAINTAIN 3% MIN SLOPE INTO THE HEADER.
2. CONSECUTIVE SIZE REDUCERS SHALL BE USED TO TRANSITION FROM THE MOLDED TEE TO THE LFG LATERAL. FOR EXAMPLE, TO TRANSITION FROM A 12" TEE, A 12"x10" REDUCER, 10"x8" REDUCER, AND 8"x6" REDUCER SHALL BE INSTALLED.
3. PLACE SAND OR SELECT BACKFILL SOIL AROUND LATERAL WHEN NEEDED FOR ANCHOR.



NOT TO SCALE

NOTES:

1. HDPE PIPES SHALL NOT CROSS-OVER WITHIN ROAD CROSSING CASING.
2. LIMESTONE GRAVEL AND SELECT SOIL BACKFILL SHALL BE COMPACTED IN 6-INCH LIFTS.
3. RESTORED ROAD SURFACE SHALL MATCH DEPTH OF ORIGINAL ROAD.

ISSUED FOR CONSTRUCTION