WATER WELL RECORD (WWC-5)

Constructed

KOLAR DOC ID 1784494 WELL ID 043MW004

✓ Original Record ☐ Correction ☐ Change in Well Use

LOCATION OF WATER WELL

Latitude	38.904506	Longitude	-95.022192	Section	24	Township	13	Range	21 ✓E ☐W	Fraction	NW ¼ NE ¼ SE ¼
Datum	WGS84	Elevation	932	County	Johnson						

WATER WELL OWNER

Name	
Business	Sunflower Redevelopment, LL(
Address	10345 West 103rd St DeSoto Kans 66019
Well location ☐ at owner's address	Former Sunflower Army Ammunition Plant (SWMU 43) DeSoto, KS 66019

CONSTRUCTION

Borehole interval: from 0 to 28 ft. from ____ to ____ ft.

Borehole diameter: 7.25 in. ____ in.

Casing height above land surface: 30 in.

If casing height is less than 12 in. has a variance been approved?* ☐ Yes ✓ No

*variance not required for monitoring or environmental remediation wells

Casing type: ThermalPlastic

Blank casing interval: 0 ft. to 18 ft.

Blank casing diameter: 2 in.

Casing joints: Threaded

Weight: ____ lbs/ft.

Wall thickness or gauge no.: 40

Blank casing interval: ____ ft. to ____ ft.

Blank casing diameter: ____ in.

Casing joints: ____

Weight: ____ lbs/ft.

Wall thickness or gauge no.: ____

Grout interval: 2 ft. to 15 ft.

Grout material: Bentonite

Grout interval: ____ ft. to ____ ft.

Grout material: ____

Screen / perforation material: PVC

Screen / perforation openings: Mill slot

Screen / perforation intervals:

From 18 ft. to 28 ft.

Slot size .01 unit inches

From ____ ft. to ____ ft.

Slot size ____ unit ____

Gravel pack intervals:

Gravel pack not used: ☐ Gravel size 12/2 in

From 15 ft. to 28 ft.

Gravel pack not used: ☐ Gravel size ____ in

From ____ ft. to ____ ft.

WELL WATER USE

Environmental Remediation / Monitoring Mc

COMPLETION

Depth of completed well: 28 ft.

Depth(s) groundwater encountered:

(1) 17 ft.; (2) ____ ft.;

(3) ____ ft.; (4) ☐ dry well

Static water level in well: 17 ft.

✓ measured below land surface on (mm/dd/yy): 5/30/2024

☐ measured above land surface on (mm/dd/yy): ____

Estimated yield: ____ gpm

Water level was: ____ ft. after ____ hours pumping ____ gpm

Pump installed? ☐ Yes ✓ No

Water well disinfected? ☐ Yes ✓ No

Date disinfected (mm/dd/yy): ____

Aquifer, if known:

NEAREST SOURCE OF POTENTIAL CONTAMINATION

Source: ____

Distance from well: ____ Direction from well: ____

Source description: ____

Source: ____

Distance from well: ____ Direction from well: ____

Source description: ____

☐ No potential source of contamination within 100 feet.

PERMIT & ID NUMBERS (AS REQUIRED)

DWR Application No.: ____

KDHE / EPA Project Code: C404671046

Site Name: SWMU 43 TUNNEL DRYERS CC

KDHE UIC Class V Form Completed: ☐ Yes ✓ No

County Permit: ☐ Yes ✓ No Permit ID: ____

Lease Name & Well #: ____

# of boreholes: ____ # of dewatering wells: ____

LITHOLOGIC LOG

FROM	TO	LITHOLOGY INTERVALS
0	28	clay,brown

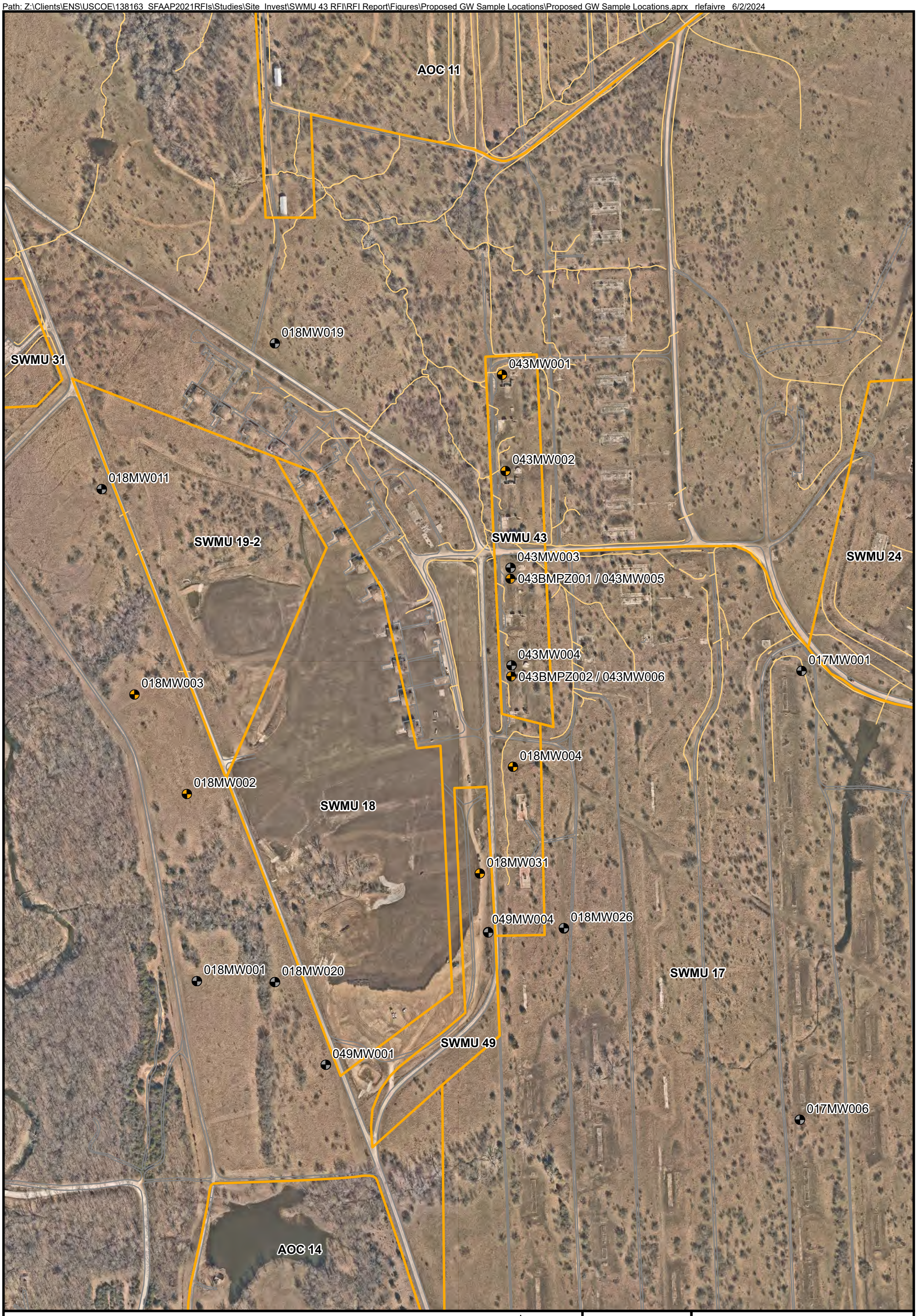
COMMENTS

CONTRACTOR'S OR LANDOWNERS CERTIFICATION

This water well was constructed ✓ reconstructed ☐ pursuant to the stated water well contractor's license and was completed on 05/30/2024. I certify that this record is true to the best of my knowledge and belief. This water well record was completed on 07/14/2024 under the business name of Razek Environmental, LLC, Kansas Water Well Contractor's License No. 759 under the authority of the designated person as defined in K.A.R. 28-30-2(j) and signed and certified by the electronic signature of the designated person at its submittal: Anthony Poulter.

Send one copy to WATER WELL OWNER and retain one for your records. Fee of $5.00 for each constructed well.

Path: Z:\Clients\ENS\USCOE\138163_SFAAP2021RFIs\Studies\Site_Invest\SWMU 43 RFI\RFI Report\Figures\Proposed GW Sample Locations\Proposed GW Sample Locations.aprx rlefaivre 6/2/2024



Legend

- Monitoring Well/ Temporary Piezometer (Overburden) (Sampled during SWMU 43 RFI)
- Monitoring Well (Not sampled during SWMU 43 RFI)
- SWMU/AOC Boundary
- Paved Road
- Drainage Ditch

NORTH

200 100 0 200

Scale in Feet

BURNS McDONNELL

Figure 2-2
Temporary Piezometer and Monitoring Well Location Map

SWMU 43 RFI/CMS Report

Former Sunflower Army Ammunition Plant
De Soto, Kansas

Issued: 6/2/2024

HTW DRILLING LOG

HOLE NO. 043MW006

1. COMPANY NAME: Burns & McDonnell	2. DRILLING SUBCONTRACTOR: RAZEK Environmental	SHEET 1 OF 4 SHEETS
3. PROJECT: SFAAP	4. LOCATION: SWMU 43	
5. NAME OF DRILLER: T. Poulter	6. MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 7822 DT.	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 7.25-inch HSA; 2-inch MacroCore	8. HOLE LOCATION	
	9. SURFACE ELEVATION	
	10. DATE STARTED: 12-6-23	11. DATE COMPLETED: 12-6-23
12. OVERBURDEN THICKNESS: 28.0'	15. DEPTH GROUNDWATER ENCOUNTERED: 17.0 ft BGS	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: 24.74 ft BTOC	
14. TOTAL DEPTH OF HOLE: 28.0'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): 24.73 ft BTOC 12-12-23	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
NA			NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
NA						NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
			Temp. Piezo	

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	0	CLAY, with silt, CH, very dark gray (10YR 3/1), damp, stiff consistency, high plasticity.	PID 0.0	NA	NA	NA	Begin Probing 1024
	1	trace oxidation reddish brown (5YR 4/4)	0.0				45' south of 043MW004
	2		0.0				
	3	trace fine sand	0.0				Recovery 5/5
	4		0.0				

HTW DRILLING LOG

HOLE NO. 043MW006

PROJECT SFAAP | INSPECTOR | SHEET 2 OF 4 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		CLAY, trace, with silt, CH, very dark gray (10YR 3/1). Damp, stiff consistency, high plasticity. Trace oxidation reddish brown (5YR 4/4).	PID 0.0	NA	NA	NA	1027
	6	CLAY, trace sand, CH, gray (10YR 6/1) damp, stiff consistency, high plasticity, trace oxidation reddish brown (5YR 4/4).	0.0				
	7		0.0				Recovery
	8		0.0				4/5
	9		0.0				
	10						1030
			0.0				
	11		0.0				Recovery
	12	SAND, some clay, SM, light gray (N7), very fine to coarse grain, well sorted. trace oxidation reddish brown (5YR 4/4).	0.0				4.5/5.
	13		0.0				

HTW DRILLING LOG

HOLE NO. 043MW006

PROJECT SFAAP

INSPECTOR

SHEET 3 OF 4 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		SAND, SW, Light brown (5YR 5/6)	0.0				
		Very fine to coarse grain,					
		well sorted.					
	15						1030
			0.0				
	16		0.0				Recovery 5/5
	17		0.0				▽
		Wet, very fine sand to silt					
	18						
	19	Light gray (N7)					
	20						1040
	21						Recvr 4/5
	22						

HTW DRILLING LOG

HOLE NO. 043MW006

PROJECT SFAAP

INSPECTOR

SHEET 4 OF 4 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	24	SAND, SW, light gray (N7), moist, fine to coarse grain. well sorted.	PID	NA	NA	NA	Recovery 4/5
	25						
	26						Recovery 3/3
	27						
	28	CLAY, yellowish brown (10YR 5/6) CH, wet, very soft consistency high plasticity.					
		Refusal @ 28.0'					