

WATER WELL RECORD Form WWC-5

Division of Water Resources App. No.

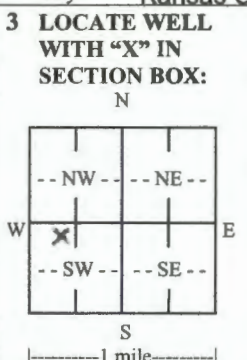
047MW040

Original Record Correction Change in Well Use

Well ID

1 LOCATION OF WATER WELL: County: Johnson Fraction NW 1/4 NE 1/4 NW 1/4 SW 1/4 Section Number 12 Township Number T 13 S Range Number R 21 E W

2 WELL OWNER: Last Name: Sunflower First: AAP Business: US Army Corp of Engineers - KCD Address: 635 Federal Building 601 East 12th Street City: Kansas City State: MO ZIP: 61406 Street or Rural Address where well is located: Sunflower Redevelopment, LLC 105345 W. 103rd Street, DeSoto, KS66019



3 LOCATE WELL WITH 'X' IN SECTION BOX: N 4 DEPTH OF COMPLETED WELL: 84 ft. Depth(s) Groundwater Encountered: 1) 62.75 ft. 2) N/A ft. 3) N/A ft. or 4) Dry Well WELL'S STATIC WATER LEVEL: Dry ft. below land surface, measured on (mo-day-yr) 2/1/2022 above land surface, measured on (mo-day-yr) Pump test data: Well water was N/A ft. after N/A hours pumping N/A gpm Well water was N/A ft. after N/A hours pumping N/A gpm Estimated Yield: N/A gpm Bore Hole Diameter: 11.875 in. to 23 ft. and 6.0 in. to 84 ft.

5 Latitude: 38.93435 (decimal degrees) Longitude: -95.03472 (decimal degrees) Horizontal Datum: WGS 84 NAD 83 NAD 27 Source for Latitude/Longitude: GPS (unit make/model:) (WAAS enabled? Yes No) Land Survey Topographic Map Online Mapper: Google Earth 6 Elevation: 925.48 ft. Ground Level TOC Source: Land Survey GPS Topographic Map Other Google Earth

7 WELL WATER TO BE USED AS: 1. Domestic: Household Lawn & Garden Livestock Irrigation Feedlot Industrial 5. Public Water Supply: well ID 6. Dewatering: how many wells? 7. Aquifer Recharge: well ID 8. Monitoring: well ID 047MW040 9. Environmental Remediation: well ID Air Sparge Soil Vapor Extraction Recovery Injection 10. Oil Field Water Supply: lease 11. Test Hole: well ID Cased Uncased Geotechnical 12. Geothermal: how many bores? a) Closed Loop Horizontal Vertical b) Open Loop Surface Discharge Inj. of Water 13. Other (specify):

Was a chemical/bacteriological sample submitted to KDHE? Yes No If yes, date sample was submitted: Water well disinfected? Yes No

8 TYPE OF CASING USED: Steel PVC Other CASING JOINTS: Glued Clamped Welded Threaded Casing diameter 2 in. to 74 ft. Diameter N/A in. to N/A ft. Diameter N/A in. to N/A ft. Casing height above land surface 30 in. Weight N/A lbs./ft. Wall thickness or gauge No. Sch. 40

TYPE OF SCREEN OR PERFORATION MATERIAL: Steel Stainless Steel Fiberglass PVC Other (Specify) Brass Galvanized Steel Concrete tile None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE: Continuous Slot Mill Slot Gauze Wrapped Torch Cut Drilled Holes Other (Specify) Louvered Shutter Key Punched Wire Wrapped Saw Cut None (Open Hole)


SCREEN-PERFORATED INTERVALS: From 74.0 ft. to 84.0 ft. From N/A ft. to N/A ft. From N/A ft. to N/A ft. GRAVEL PACK INTERVALS: From 71.0 ft. to 84.0 ft. From N/A ft. to N/A ft. From N/A ft. to N/A ft.

9 GROUT MATERIAL: Neat cement Cement grout Bentonite Other Concrete 0 to 2 Grout Intervals: From 2 ft. to 71.0 ft. From N/A ft. to N/A ft. From N/A ft. to N/A ft.

Nearest source of possible contamination: Septic Tank Lateral Lines Pit Privy Livestock Pens Insecticide Storage Sewer Lines Cess Pool Sewage Lagoon Fuel Storage Abandoned Water Well Watertight Sewer Lines Seepage Pit Feedyard Fertilizer Storage Oil Well/Gas Well Other (Specify) Direction from well? Distance from well? ft.

Table with 6 columns: 10 FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Content includes 'Detailed boring logs attached' and 'Notes: Boring drilled to 100-feet but well was installed to 84 feet BGS. Well pumped dry during development and is dry.'

11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was constructed, reconstructed, or plugged under my jurisdiction and was completed on (mo-day-year) 2/7/2022 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 759 This Water Well Record was completed on (mo-day-year) 5/6/2022 under the business name of RAZEK Environmental, LLC Signature

HTRW DRILLING LOG		DISTRICT KC		HOLE NUMBER 047-AMW040	
1. COMPANY NAME AECOM		2. DRILLING SUBCONTRACTOR RAZEK		SHEET 1 OF SHEETS 1	
3. PROJECT SAA P			4. LOCATION 047-AMW040		
5. NAME OF DRILLER Tony Poultre			6. MANUFACTURER'S DESIGNATION OF DRILL 7822 DT		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION 047-MW040			
Macro Core Barrel		9. SURFACE ELEVATION TBD			
6 5/8 ID 10 7/8 OD HSA		10. DATE STARTED 12-13-21		11. DATE COMPLETED 12-15-21	
10" PDC BIT		12. OVERBURDEN THICKNESS 23.0'			
13. DEPTH DRILLED INTO ROCK 77'		15. DEPTH GROUNDWATER ENCOUNTERED 19.5 ATD			
14. TOTAL DEPTH OF HOLE 100'		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES NA		20. SAMPLES FOR CHEMICAL			
VOC X		METALS X		OTHER (SPECIFY) Full suite	
21. TOTAL CORE RECOVERY %		22. DISPOSITION OF HOLE			
BACKFILLED		MONITORING WELL		OTHER (SPECIFY)	
		23. SIGNATURE OF INSPECTOR 			

LOCATION SKETCH/COMMENTS

SCALE:



PROJECT

SAA P

HOLE

047-AMW040

HTRW DRILLING LOG

(CONTINUATION SHEET)

HOLE NO. 047-AM MW 040

PROJECT _____

Inspector A. Excerpt

SHEET 2 OF SHEETS

ELEV.	DEPTH	DESCRIPTION OF MATERIALS	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS
a.	b.	c.	d.	e.	f.	g.	h.
	1	Lean Clay (L), Stiff, moist Brn					Borings Advanced w/ Macro Core Bore 047-AM MW-040-50-ER0001 047-AM MW
	2	EAT Clay (H) Stiff, moist, gray mottled Brn, w/ Iron Oxide staining					10-5.0' A-5.0'
	3						
	4						
	5						
	6						P-5.0' A-5.0'
	7						
	8						
	9						
	10			9.5			
				10.0			047-AM MW 040-50-ER0002

Project _____ HOLE NO. 047-AM MW 040

HTRW DRILLING LOG

(CONTINUATION SHEET)

HOLE
047-MW-040

PROJECT

Inspector

A. Exceen

SHEET 3 OF SHEETS

ELEV.	DEPTH	DESCRIPTION OF MATERIALS	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS
a.	b.	c.	d.	e.	f.	g.	h.
	11	Fat clay (CH), st. & moist, gray mottled Brn, w/ Iron oxides staining					
	12						
	13	Booms w/ few fine sand					
	14						
	15	Clayey sand (SC), Dense, dry moist, gray w/ Iron oxide staining					
	16						
	17						
	18						
	19			14.5			
					047-AMW040-50-FA0003		
				19.0			
	20	Sand (SP), Dense, wet, gray, fine to med grain					Δ H ₂ O ATD

Project SAAP

HOLE NO. 047-AMW040

HTRW DRILLING LOG (CONTINUATION SHEET) HOLE 047AW04⁰

PROJECT SAAP Inspector A. Exgeen SHEET 4 OF SHEETS

ELEV.	DEPTH	DESCRIPTION OF MATERIALS	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS
a.	b.	c.	d.	e.	f.	g.	h.
	21	Sand (SP), Dense, wet, gray, fine to med. graining					
	22						
	23	Limestone: Hard, M. weathered, gray, fine graining (South Beard)					23' focused w/ MACRO CORE Barrel Around w/ 105/8" OD HSAS
	24						
	25	Sandstone: Soft, v. weathered, Brn, fine to med graining (Rock Lake)					24.5' drilled w/ 10" Air 13.7 set 6" PVC casing to 24.5' stopped 12-13-21
	26						continued w/ 6" Air 6.1 12-15-21
	27						
	28						
	29						
	30						

Project SAAP HOLE NO. 047MW040

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE
047MW046

PROJECT
SAAP

Inspector
B. Exceen

SHEET
5 OF SHEETS

ELEV.	DEPTH	DESCRIPTION OF MATERIALS	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS
a.	b.	c.	d.	e.	f.	g.	h.
	31	Sandstone: soft med Med Hard, s. weathered, Brn, Fine to med grained					
	32						
	33	Limestone: Hard, Fresh, Grng (Stoner ls)					
	34						
	35						
	36						
	37						
	38						
	39						
	40						

Project
SAAP

HOLE NO.
047MW046

HTRW DRILLING LOG

(CONTINUATION SHEET)

HOLE
047MWD40

PROJECT
SAAP

Inspector
B. Ercen

SHEET
6 OF SHEETS

ELEV.	DEPTH	DESCRIPTION OF MATERIALS	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS
a.	b.	c.	d.	e.	f.	g.	h.
	41	Limestone: Hard, Fresh, Gray.					
	42						
	43						
	44						
	45						
	46						
	47						
	48						
	49						
	50						

Project
SAAP

HOLE NO.
047MWD40

HTRW DRILLING LOG

(CONTINUATION SHEET)

HOLE
047 MW 040

PROJECT
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Inspector
A. Exceen

SHEET
7 OF SHEETS

ELEV. a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS d.	GEO TECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO. f.	BLOW COUNTS g.	REMARKS h.
	51	Limstone: Hard, Fresh, Gray					
	52						
	53						
	54	Shale: Hard, Fresh, Gray (Eudora sh)					
	55	Becoming black					
	56						
	57						
	58						
	59						
	60						

Project
SAAP

HOLE NO.
047 MW 040

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE
047MW040

PROJECT
SAAP

Inspector
A. Exceen

SHEET 8 OF 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.
		Shale: Hard, Fresh Black					
	61	-----					
		Limestone: Hard, Fresh, Gray (Captain CK)					
	62						
	63						
	64						
	65						
	66						

	67	Shale: Hard, Fresh, Gray (Vilas SH)					
	68						
	69						
	70						

Project
SAAP

HOLE NO.
047MW040

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE
047 MW 040

PROJECT
SAAP

Inspector
B. Exceen

SHEET
9 OF 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.
	71	Shale: Hard, Fresh, cng					
	72						
	73						
	74						
	75						
	76						
	77						
	78						
	79						
	80						

Project
SAAP

HOLE NO.
047 MW 040

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE
047 MW 046

PROJECT
SAAP

Inspector
A. Exceen

SHEET
10 OF 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.
	81	Shale: Hard, Fresh, GRAY					
	82						
	83						
	84						
	85	Limestone: Hard, Fresh, Dark Gray (Spring Hill)					
	86						
	87						
	88						
	89						
	90						

Project
SAAP

HOLE NO.
047 MW 040