WATE	R WEL	L RECORD	Form W	WC-5	Div	vision of Water	r Resources App. No	۵	
1 LOC	ATION O	OF WATER WELL:	Fraction				Township No. T 9 S	Range Number	
Stree	t/Rural Ác	dress of Well Location	if unknown, distance	& direction	Globa	l Positioning	System (GPS) in	formation:	
from nearest town or intersection: If at owner's address, check here . Latitude: .3.2.2.7.8.7.8.2 (in decimal degrees)									
End of Platte Road + Konsas HWY 4						Longitude: 1.95.15300.494 (in decimal degrees)			
1900' North r 1200' West Elevation:									
12 WATER WELL UWNER: (1570 F Rain Sat S CITU VISTILA Frontenion Method)									
RR#	, Street Ac	idress, Box #: 661	1. 12th st.	,		iPS unit (Mak	e/Model:)	
City, State, 21P Code : Digital Map/Photo, Topographic Map, 24 Land Survey									
WITH AN "X" IN 4 DEPTH OF COMPLETED WELL									
SECTION BOX: Depth(s) Groundwater Encountered (1)									
N WELL'S STATIC WATER LEVELft. below land surface measured on mo/day/yr									
Pump test data: Well water was									
W EST. YIELDgpm, Well water was									
WELL WATER TO RELISED AS: Public water supply Geothermal Disjection well									
SW Domestic Feedlot Oil field water supply Dewatering Other (Specify below)									
Irrigation Industrial Domestic-lawn & garden Monitoring well									
Was a chemical/bacteriological sample submitted to Department? Yes No									
S If yes, mo/day/yr sample was submitted									
Water well distilled of 165 Cl 160									
5 TYPE OF CASING USED: Steel PVC Other									
CASING JOINTS: Glued Clamped Welded Threaded									
Casing diameter									
TYPE OF SCREEN OR PERFORATION MATERIAL:									
☐ Steel ☐ Stainless Steel ☐ PVC ☐ Other (Specify)									
Brass Galvanized Steel None used (open hole)									
SCREEN OR PERFORATION OPENINGS ARE: Continuous slot Mill stot Gauze wrapped Torch cut Drilled holes None (open hole)									
Louvered shutter Key punched Wire wrapped Saw cut Other (specify)									
SCREEN-PERFORATED INTERVALS: From									
From									
GRAVEL PACK INTERVALS: From									
From									
GROUT MATERIAL: Neat cement Cement grout Bentonite Other									
What is the nearest source of possible contamination:									
☐ Septic tank ☐ Lateral lines ☐ Fit privy ☐ Livestock pens ☐ Insecticide storage ☐ Other (specify below)									
	Sewer lines	☐ Cesspool	Sewage lagoon	☐ Fuel storage	: [Abandoned	water well		
ν. Π	Watertight:	sewer lines 🔲 Seepage well	pit L. Feedyard	Fertilizer st		∐ Oil well/ga: 11		***************************************	
FROM		LITHOLOG	HC I OG	FROM	TO			GGING INTERVALS	
0	10	Brown Silty		1		011110, 20	O (OUIL) SI 1 DO	OOMO MILKANES	
10	20	Gray Shall	209	†******* †					

				<u> </u>					
				 					
				 					
				 					
7 CONT	RACTOR	S OR LANDOWNE	R'S CERTIFICATIO	N. This water	c well w	ns Constru	reted [] reconstra	ected or Plantaged	
7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was a constructed, reconstructed, or plugged under my jurisdiction and was completed on (mo/day/year) 9/22/20/3 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No									
Kansas V	Vater Well	Contractor's License	lo. 597 This	Water Well Re	cord wa	es completed	on (mo/day/year)	9/22/2015	
under the	business :	name of .G.9569.A.	U.L.U.agk	<u> </u>	. by (si	gnoture)	holder of		
I INSTRUC	TIONS: U	se typewriter or ball point pe	n. PLEASE PRESS FIRML)	Cand PRINT cle	aciy. Plea	ise fill in blaaks :	and check the correct :	answers Send one convin	
Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5524. Send one copy to WATER WELL OWNER and retain one for your records Include fee of \$5.00 for each constructed well Visit us at									
			h-14		Limit				

Bureau of Water Geology and Well Technology Section 1000 SW Jackson St, Ste 420 Topeka, KS 66612-1367



Phone: 785-296-3565 Fax: 785-296-5509 pchaffee@kdheks.gov www.kdheks.gov

Susan Mosier, MD, Secretary

Department of Health & Environment

Sam Brownback, Governor

July 31, 2015

Joshua Boeckmann Corps of Engineers, KC District Department of the Army 635 Federal Building 601 E. 12th St Kansas City, MO 64106-2824

Subject:

Waiver Request - Flush-Mount Well Completion of Groundwater Monitoring Wells at the Former Forbes Atlas Missile Site S-1, Platte Rd, Valley Falls, Jefferson County, KS

Dear Mr. Boeckmann,

On July 16, 2015, the Kansas Department of Health and Environment, Bureau of Water (KDHE-BOW), received the above referenced request for waiver for five (5) shallow monitoring wells to be installed at the above referenced site. KDHE-BOW has reviewed the waiver request materials and provides approval to complete the proposed groundwater monitoring wells at grade (flush-mount).

In accordance with K.A.R. 28-30-6(s), please provide a scaled map showing the locations and latitude and longitude coordinates for each monitoring well to KDHE-BOW along with the water well record (WWC-5 Form) for one of the five wells completed under this waiver. Please include information on the flush-mount well completion method in appropriate areas of each WWC-5 Form as well as the name of the approving KDHE

While requests for waiver to allow less than the minimum grout interval of 20 feet (K.A.R. 28-30-6(b)(1)) are not required if the grout modification is based solely on targeting shallow groundwater, the reason for modifying the grout interval must be indicated on the WWC-5 Forms for the appropriate wells. Information provided in your request adequately justifies the shallow nature of the proposed monitoring wells.

If you have any questions concerning this letter or if you need assistance, feel free to contact me by telephone (785-296-3565), fax (785-296-5509), or email (pchaffee@kdheks.gov). Sincerely,

Pane G. M. Chapter Pamela K. Chaffee, P.G., Chief, Water Well Unit

Geology & Well Technology Section, Bureau of Water

Kansas Department of Health and Environment

1000 SW Jackson, Suite 420

Topeka, KS 66612-1367

Copy: File - BOW-GWTS-Jefferson County



DEPARTMENT OF THE ARMY CORPS OF ENGINEERS, KANSAS CITY DISTRICT 635 FEDERAL BUILDING 601 E 12™ STREET KANSAS CITY MO 64106-2824

July 14, 2015

Environmental Programs Branch Planning, Programs and Project Management Division

Kansas Department of Health and Environment (KDHE) Bureau of Water - Geology Section 1000 S.W. Jackson, Suite 420 Topeka, Kansas 66612-1367

Ms. Pamela Chaffee:

Submitted for your review is a request for a waiver to allow the installation of flush mount groundwater monitoring wells. The U.S. Army Corps of Engineers (USACE), Kansas City District and its subcontractors has been performing Remedial Investigation activities at the former Forbes Atlas Missile Site S-1 located in Jefferson County, Kansas. Field activities are being conducted in accordance with a Work Plan (WP) approved by KDHE and Environmental Protection Agency (EPA). To complete the investigation, 5 shallow permanent groundwater monitoring wells will be installed by a KDHE-licensed Water Well Contractor (KS #597, Steve Johnson). The wells will be placed in the parcels identified in Figure 1 and as depicted on Figure 2. The shallow wells will have a target depth of 25-30 feet and will have 10-foot screens. The depth of the shallow monitoring wells and screen placement will be determined in the field based on the observed saturated zone in cores to be collected from the well boreholes and the depth of perched groundwater encountered during drilling. Previous studies at this site have measured the shallow groundwater levels around 13.4 feet below ground surface (bgs). These conditions will likely result in screens being placed at shallow depths bgs that will not allow for a full 20 feet of grout to be placed in the remainder of the borings. The wells will be grouted from the bentonite seal above the screen and filter pack to approximately 1 foot bgs as shown in Figure 3. If settling occurs after removal of drilling tools, additional grout will be added. The shallow monitoring wells will be completed as flush-mount wells, each with a 8-inch diameter protective cover, a 2foot x 2-foot square concrete pad, and expandable well plug. The flush-mount installation was requested by the property owners.

Please see the next page for site information. If you have any questions, please contact me at (816) 389-3328 or by email at Joshua.R.Boeckmann@usace.army.mil.

Sincerely,

BOECKMANN.JOSHU BOECKMANNLOSHUA.RYAN.1385638400 A.RYAN.1385638406 OU=PKI, OU=USA, CON=BOECKMANN,JOSHUARYAN,1385638406

Date: 2015.07.14 12:11:22 -05'00'

Josh R. Boeckmann Project Manager