MW08

WATER WELL RE	CORD	Form W	WC-5	Divisio	on of Water	r Resources App. N	<u>. L                                   </u>		
I LOCATION OF W	ATER WELL:	Fraction	·	Section N	Vumber	Township No.			
County: 5.4(m	CW-UL	NE' SW' NO	2 4 5 W 4	<u> </u>		T 9 S	R/7	DE OW	
Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: If at owner's address, check here					Latitude: 37, 2785202 (in decimal decree)				
End of Platte Rd. + Konsus HWY4				Global Positioning System (GPS) information: Latitude:					
1900' North + 1000' West				Elevation:					
2 WATER WELL OWNER: USACE Konsas City District				Detum: WGS 84, NAD 83, NAD 27 Collection Method:					
RR#, Street Address, Box #: 60/ E. /2/4 57.				GPS unit (Make/Model:)					
				Digital Map/Photo, Topographic Map, 🗷 Land Survey					
City, State, ZIP Code: Kansas C.ty, Mo. 64106 Est. Accuracy: 3 m, 3-5 m, 5-15 m. >15 m									
3 LOCATE WELL WITH AN "X" IN 4 DEPTH OF COMPLETED WELL									
SECTION BOX:	SECTION BOX: Depth(s) Groundwater Encountered (1)								
N WELL'S STATIC WATER LEVELft. below land surface measured on molday/yr									
Pump test data: Well water was									
W   EST. YIELDgpm. Well water was									
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 If yes, mo/day/yr sample was submitted									
If yes, mo/day/yr sample was submitted    mile   Water well disinfected?   Yes   No									
5 TYPE OF CASING USED: Steel V PVC Other									
CASING JOINTS: ☐ Glued ☐ Clamped ☐ Weided Ø Threaded									
Casing diameter									
Casing height above land surface									
TYPE OF SCREEN OR PERFORATION MATERIAL:  Steel Stainless Steel PPVC Other (Specify)									
Steel Stainless Steel PVC Other (Specify)									
SCREEN OR PERFORATION OPENINGS ARE:									
☐ Continuous stat ☑ Mill stat ☐ Gauze wrapped ☐ Torch cut ☐ Drilled holes ☐ None (open hole)									
Continuous stat  Mill stat									
From									
GRAVEL PACK INTERVALS: From									
From									
Grout Intervals: From									
What is the nearest source of possible contamination:									
Septic tank Lateral lines Pit privy Livestock pens Insecticide storage Other (specify below)									
Sewer lines Watertight sewer	☐ Cesspool	Sewage lagoon	☐ Fuel storage		Abandoned				
Direction from well	nues 🗀 Sechage b	it i recoyara i	Fertilizer st	irom well	-		••••••	************	
FROM TO	LITHOLOG		FROM		ITHO, LO	OG (cont.) or PLU	GGING IN	TERVALS	
		Char	I AGM			70 (00.111) 27 (120	COMO M	T.D.C.V.T.D.D	
		Strai					Y.U.		
	rand Shul								
<del></del>		·····	<del> </del>	<del> </del>					
			<del>                                     </del>						
7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was 80 constructed. Treconstructed or Training and Training a									
7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION; This water well was a constructed, reconstructed, or plugged under my jurisdiction and was completed on (molday/year)									
Kansas Water Well Cont	ractor's License N	o	Valgr Well Re	cord was c	:ompleted	op (mo/day/year)	¥.22.6	20/5	
under the business name	ofGDS.GD.d.s	Detelling h	e.K	. by (signa	ature)	The same	Section 1		
INSTRUCTIONS: Use type	writer or ball point pen	PLEASE PRESS FIRALL	and <u>PRINT</u> clo	arly. Please (i	iil in blanks	and check the correct	answers Ser	id one copy to	
Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson SL, Suite 420, Topeka, Kansas 66612-1367.  Telephone 785-296-3524. 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									

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