

WATER WELL RECORD

Form WWC-5

Division of Water Resources; App. No.

AS-105

1 LOCATION OF WATER WELL: County: <u>Wyandotte</u> Distance and direction from nearest town or city street address of well if located within city? <u>1/2 Block North of Funston Rd & Brinkerhoff Rd.</u> 2 WATER WELL OWNER: <u>Dow Chemical Corp.</u> RR#, St. Address, Box # : <u>P.O. Box 8361 Kanawha Turnpike</u> City, State, ZIP Code : <u>South Charleston, WV 25303</u>		Fraction <u>SW 1/4 SW 1/4 SW 1/4</u>		Section Number <u>27</u>		Township Number <u>T 10 S</u>		Range Number <u>R 25 E</u>																																																																			
3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX: 					4 DEPTH OF COMPLETED WELL <u>55.0</u> ft. Depth(s) Groundwater Encountered (1)..... ft. (2)..... ft. (3)..... ft. WELL'S STATIC WATER LEVEL <u>25.83</u> ft. below land surface measured on mo/day/yr..... Pump test data: Well water was.....ft. after..... hours pumping..... gpm Est. Yield.....gpm: Well water was.....ft. after..... hours pumping..... gpm WELL WATER TO BE USED AS: 5 Public water supply 8 Air conditioning 11 Injection well 1 Domestic 3 Feedlot 6 Oil field water supply 9 Dewatering <u>12 Other (Specify below)</u> 2 Irrigation 4 Industrial 7 Domestic (lawn & garden) 10 Monitoring well <u>Air Spargers</u> Was a chemical/bacteriological sample submitted to Department? Yes No <u>X</u>; If yes, mo/day/yr Sample was submitted..... Water well disinfected? Yes No <u>X</u>																																																																						
5 TYPE OF CASING USED: 1 Steel 3 RMP (SR) 6 Asbestos-Cement 9 Other (specify below) <u>2 PVC</u> 4 ABS 7 Fiberglass Blank casing diameter in. to <u>54</u> ft., Diameter in. to ft., Diameter in. to ft. Casing height above land surface..... <u>24</u> in., Weight lbs./ft. Wall thickness or gauge No. <u>Sch. 40</u> TYPE OF SCREEN OR PERFORATION MATERIAL: 1 Steel 3 Stainless Steel 5 Fiberglass <u>7 PVC</u> 9 ABS 11 Other (Specify) 2 Brass 4 Galvanized Steel 6 Concrete tile 8 RM (SR) 10 Asbestos-Cement 12 None used (open hole) SCREEN OR PERFORATION OPENINGS ARE: 1 Continuous slot 3 <u>Mill slot</u> 5 Gauzed wrapped 7 Torch cut 9 Drilled holes 11 None (open hole) 2 Louvered shutter 4 Key punched 6 Wire wrapped 8 Saw Cut 10 Other (specify) SCREEN-PERFORATED INTERVALS: From..... <u>54</u> ft. to <u>55</u> ft., From ft. to ft. From..... ft. to ft., From ft. to ft. GRAVEL PACK INTERVALS: From..... <u>55</u> ft. to <u>53</u> ft., From ft. to ft. From..... <u>53</u> ft. to <u>50</u> ft., From ft. to ft.																																																																											
6 GROUT MATERIAL: 1 Neat cement <u>2 Cement grout</u> 3 Bentonite 4 Other Grout Intervals: From <u>0</u> ft. to <u>50</u> ft., From ft. to ft., From ft. to ft. What is the nearest source of possible contamination: 1 Septic tank 4 Lateral lines 7 Pit privy 10 Livestock pens 13 Insecticide Storage <u>16 Other (specify below)</u> 2 Sewer lines 5 Cess pool 8 Sewage lagoon 11 Fuel storage 14 Abandoned water well 3 Watertight sewer lines 6 Seepage pit 9 Feedyard 12 Fertilizer Storage 15 Oil well/gas well <u>old Air Spargers</u> Direction from well? How many feet?																																																																											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>FROM</th> <th>TO</th> <th>LITHOLOGIC LOG</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>					FROM	TO	LITHOLOGIC LOG																															<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>FROM</th> <th>TO</th> <th>PLUGGING INTERVALS</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>					FROM	TO	PLUGGING INTERVALS																														
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7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was <u>(1)</u> constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) <u>11-28-06</u> and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. <u>606</u> This Water Well Record was completed on (mo/day/year) <u>1-10-07</u> under the business name of <u>PSA Environmental</u> by (signature) <u>[Signature]</u> INSTRUCTIONS: Use typewriter or ball point pen. <u>PLEASE PRESS FIRMLY</u> and <u>PRINT</u> clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5522. Send one to WATER WELL OWNER and retain one for your records. Fee of \$5.00 for each constructed well. Visit us at http://www.kdheks.gov/waterwell/index.html .																																																																											



PROJECT NUMBER
350383

BORING NUMBER
AS-105

SHEET 1 OF 2

SOIL BORING LOG

PROJECT : Dow Unison System Optimization

LOCATION : Kansas City, Kansas

ELEVATION : 744.61 feet amsl

DRILLING CONTRACTOR PSA Environmental

DRILLING METHOD AND EQUIPMENT USED :

Geoprobe 6600 Rig

WATER LEVELS : ~28 feet bgs

START : 11/28/06 9:52

END : 11/28/06 13:45

LOGGER : Glynn Roberts

DEPTH BELOW SURFACE (FT)				STANDARD		SOIL DESCRIPTION		COMMENTS	
INTERVAL (FT)				PENETRATION		SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.		DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. OVM (ppm): Breathing Zone Headspace	
RECOVERY (IN)				TEST RESULTS					
#/TYPE				6"-6"-6"-6" (N)					
5	0-5'	36"	GP	-	0 Asphalt				
					0.33' Baserock				
					2' SILT (ML), brown, trace gravel				
					4' SAND (SP), tan				
					4.5' FAT CLAY (CH), brown, moist, medium stiff				
10	5-10'	60"	GP	-	6' SILT (ML), brown and tan				
					9' LEAN CLAY (CL), brown				
					12' SILT (ML), brown				
					12.5' LEAN CLAY (CL), brown				
					13' SILT (ML), brown				
15	10-15'	48"	GP	-	14' LEAN CLAY (CL), brown				
					14.5' SILT (ML), brown				
					15' SILT (ML), brown and tan				
					18' SAND (SP), fine-grained, tan				
					20' Brown				
20	15-20'	60"	GP	-	23' Black sand seam				
					25' SAND (SP), brown, wet				
25	20-25'	60"	GP	-					
30	25-30'	36"	GP	-					

**CH2MHILL**

PROJECT NUMBER

350383

BORING NUMBER

AS-105

SHEET 2 OF 2

SOIL BORING LOG

PROJECT : Dow Unison System Optimization

LOCATION : Kansas City, Kansas

ELEVATION : 744.81 feet amsl

DRILLING CONTRACTOR PSA Environmental

DRILLING METHOD AND EQUIPMENT USED : Geoprobe 6600 Rig

WATER LEVELS : ~28 feet bgs

START : 11/28/06 9:52

END : 11/28/06 13:45

LOGGER : Glynn Roberts

DEPTH BELOW SURFACE (FT)				STANDARD	SOIL DESCRIPTION	COMMENTS	
INTERVAL (FT)	RECOVERY (IN)	#/TYPE	PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION.		
					OVM (ppm):	Breathing Zone Headspace	
30-35'	24"	GP	-		-	-	
35-40'	36"	GP	--	35' SAND (SP), medium-grained, brown, wet	0	0	
40-45'	36"	GP	--	41.5' Brown and gray, trace black sand	0	0	
45-50'	60"	GP	--		0	0	
50-55'	60"	GP	--	50' Shale fragments 51.5' Gray	0	0	
55				55' SANDY-CLAY (CL), wet			

Boring terminated at 55 feet bgs

GP = Geoprobe

amsl = above mean sea level

bgs = below ground surface