

## BOREHOLE GEOPHYSICAL LOG

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SiteID (C1) 415953091435302	Station name (C12) 083N08W13CBDA 2009US				GS CRM-4A	L.	Other ID CRM-4A
County Linn	State Iowa					Log da	te 06/22/17
Owner City of Cedar Rapids			Project Cedar Rapids Alluvial Aquifer Study				
Location description Northern bank of	f Cedar Riv	er; southeast of Se	minole Valley P	ark			
Latitude 41.99805°	Longitud	<b>e</b> - 091.73138°		Lat/Long datum NAD83			
Altitude LMP 219.7	Altitude o		Log	Log measurement point (LMP) Top of Casing (TOC)			
Height LMP 1.045 m above (+) LS		Description of L	MP Top of oute	r PV	C casing; 0.	056 m abc	we inner PVC well casing
Borehole depth 13.99 TOC	Borehole	e diameter Unknow	vn	Casing bottom 13.99 TOC			
Casing diameter 6.35	Casing t		Source of data USGS lowa WSC and OGW BG				
Logging unit USGS OGW BG	Log orie	ntiation MN			Magnetic declination 0.68° W		
Recorded by KLCP/SNP			Observed by LG/ EB/JW				
Software non-ASCII logs WellCAD 5.1			Type of log ZZ-Composite				
Fluid type Water	Fluid depth below LMP 3.23			at time 16:07			
Hydrologic conditions Flood Plain of C	edar River;	; scattered thunder	storms during w	eek	of logging		
Tool manufacturer and model, tool see depth error after logging, log paramet				ectio	n and spee	d,	
Tool run 1 Mount Sopris Instruments (Ma of 0.01 ft, measuring bulk elem	SI), 2PIA-10 ctrical condu	000, SN 2377, 06/22 uctivity, calibrated ir	2/2017 at 16:43 l n field on date of	oggi log	ng down and	up at ~4.6	s m/min, round trip error
Tool run 2MSI, 2PGA, SN2339, 06/22/2gamma, calibrated at factory	2017 at 16:2	21, logging down an	d up at ~4.6 m/n	nin, r	ound trip err	or 0.00 ft, r	neasuring natural
Tool run 3 Vista Clara (VC) NMR JP175, increments, round trip error of	SN0001, 6/ 0.02 m, me	/22/2017 at 16:30, le easuring total, mobil	ogging down coll e and bound wat	lectir ter co	ng stationary ontent, calibr	measurem ated May 2	nents in 0.25 m and 0.5 m 2016 at OGW-BG
Remarks							
For each depth, the decay data are clay + capillary), Sum of Echoes (SG greater than the free water cut off is was set at 3 ms. Using this clay cut fit of the multiexponential decay cur	DE), and Me mobile, and off, the bou	ean Log T2 (MLT2). d all WC less than tl nd water can be sul	The T2 "free wa he free water cut	ater c t-off i	ut-off" was 3 s immobile o	3 ms. All w or bound. A	vater content (WC) T2 cut-off for clay
Hydraulic conductivity( K) was estim (SDR) and the Sum of Echoes (SOE can be updated if better site specific	E). The defa	ult parameters for t					

