July 1, 2024

RE: Dane County Zoning Petition #12048

Kennedy Hills in the Town of Cottage Grove WI

About one-quarter of Wisconsin's population drinks water drawn from over 800,000 private wells. Wells are safe, dependable sources of water if sited wisely and built correctly, per the Wisconsin DNR Website. The Town of Cottage Grove 2022 Comprehensive Plan states "Groundwater is plentiful throughout the Town."

As an infill development, Kennedy Hills proposed 50-lot project is the continuation of the "greater American Heritage rural neighborhood" which started in 1976 and has over 200 homes in the area at the present time. This greater neighborhood was formed on agricultural land and is still presently surrounded by agricultural land on which mostly row crops are grown. The original phase of 16 lots in Kennedy Hills was platted in 2020 and the last home of the 16 is presently under construction. Most of those homes were completed in 2022.

# At the public hearing on the 18<sup>th</sup> of June 2024, the owner of 4535 Sundance Court, Cottage Grove WI 53527 submitted the following:

I'm concerned that adding 50 new houses to the Kennedy Hills Subdivision is going to seriously affect the level of the ground water that we all draw from. We've lived here since 1978, and our well level has dropped 25 feet from where it was when we built our house. Another 50 houses (and lawns) will present a serious amount of water depletion on a yearly basis.

Have there been any studies done recently about this problem? Perhaps 50 houses is too many for our groundwater level to support.

The 4535 Sundance Court well is located about 2,300 feet northeast of the first phase of Kennedy Hills and is also about 1,300 feet easterly of the proposed phases. Sundance Court was one of the first streets in the 1976 American Heritage subdivision and it seems the home and well was built circa 1978 about 46 years ago. We were not able to find any records on

that well, but we were able to find records on Unique Well Number MZ068 which is across the cul-de-sac. That attached report shows, at a pumping level of 145 feet below surface, the well produced 20 gallons per minute for 2 hours.

To put that pumping rate into a context and to address the utility of an aquifer, the following is a communication (Copy attached.) with a Wisconsin DNR staff person:

# RE: cottage grove area aquafer

Puchalski, Thomas E - DNR <Thomas.Puchalski@wisconsin.gov> Tue 6/25/2024 6:50 AM

Private wells do not have regulatory restrictions based upon water use unless they exceed 70 gallons per minute. Most Private drinking water wells for household use pump at about 5 gallons per minute. In addition, private wells typically pump for a brief time while repressurizing the home's plumbing system (pressure tank), and then turn off. It is unlikely that a Private drinking water well will impact an adjacent Private drinking water well based upon water use.

The abundance of the aquifer serving this greater neighborhood is verified by the performance shown in the recently drilled wells in the Kennedy Hills initial 15 lots. Sam's Rotary, which is the premier well driller in this area, seems to have drilled all the 15 wells. The average production was about 20 gallons per minute which is four times the 5 gallons per minute referenced in the WIDNR Puchalski comments shown above. A review of pumping data for several wells in the greater neighborhood indicate similar results. (Several reports attached.) In discussion with one of Sam's Rotary principals, he stated the subject aquifer contained an abundance of water as shown by his knowledge of the quality of performance in the wells he has installed.

The specific circumstances of the concerned neighbor's well and its apparent problem are unknown and seem atypical.

If there is additional information required, please contact us.

Dave Dinkel dave@propertyshop-realtors.com

Well Construction Re WISCONSIN UNIQUE		MZ068	Drinking Water and Groundwat Department of Natural Resourc Madison WI 53707		Form 3300-077/
Property MOEN, NORM		Phone #	1. Well Location	Fi	re # (if avail.)
Owner	OT	(608)839-519	2 Town of COTTAGE GROVE		
Mailing 4538 SUNDANCE Address	:01		Street Address or Road Name an	d Number	
City COTTAGE GROVE	State	WI Zip Code 53527	4542 SUNDANCE CT	u number	
County Co. Per		Completed		Lot #	Block #
Dane 15954	mit # Notification #	11-13-1998		9	DIOCK #
Well Constructor (Business I	(mark)				
		and the second se			ethod Code
SAMS ROTARY DRILLERS	INC 370		43.0976 °N -89.1702		CD013
		Well Plan Approval #	SE SE Section		Range
Address PO BOX 150			or Govt Lot # 3	7 N	11 E
RANDOLPH WI	53956-0150	Approval Date (mm-dd-yy)			
	1.5		of previous unique well # JB22	Andres Armonau	1 in
Hicap Permanent Well #	Common Well #	Specific Capacity 0.4	Reason for replaced or reconstruct	cted well ?	
3. Well serves 3 # of HO	MES	Hicap Well ? No			
Private, potable		Hicap Property ? No			
Heat Exchange # of drill	holes	Hicap Potable ?	Construction Type Drilled		
4. Potential Contamination	Sources - ON REVERS				
	Jpper Enlarged Drillhole Rotary - Mud Circulati Rotary - Air Rotary - Air & Foam Drill-Through Casing I Reverse Rotary Cable-tool Bitin. Dual Rotary Temp. Outer Casing _ Removed?dep explain on back side)	Hammer dia			
6. Casing, Liner, Screen			9. Static Water Level	11. Well	Is
Dia. (in.) Screen type, mater	ial & slot size	From (ft.) To (ft.)	93 ft. below ground surface	<u></u>	in.
					Grade
() = (					
	latarial		10. Pump Test	Develop	
7. Grout or Other Sealing N	laterial	(	10. Pump Test Pumping level 145 ft. below surface	Develop	ed ?
7. Grout or Other Sealing Method		$\langle$			ed ?
7. Grout or Other Sealing Method	From (ft.)	To (ft.) # Sacks Cement	Pumping level 145 ft. below surface	Disinfect	ed ?
7. Grout or Other Sealing Method		To (ft.) # Sacks Cement	Pumping level 145 ft. below surface Pumping at 20 GP M for 2 Hrs.	Disinfect Capped	ed ?
7. Grout or Other Sealing N	From (ft.)	To (ft.) # Sacks Cement	Pumping level 145 ft. below surface Pumping at 20 GP M for 2 Hrs. Pumping Method ? 12. Notified Owner of need to fill & sea Filled & Sealed Well(s) as needed? 13. Constructor / Supervisory Driller	Disinfect Capped	Date Signed
7. Grout or Other Sealing Method	From (ft.)	To (ft.) # Sacks Cement	Pumping level 145 ft. below surface Pumping at 20 GP M for 2 Hrs. Pumping Method ? 12. Notified Owner of need to fill & sea Filled & Sealed Well(s) as needed? 13. Constructor / Supervisory Driller SVJ	Disinfect Capped	Date Signer 01-27-1999
7. Grout or Other Sealing Method	From (ft.)		Pumping level 145 ft. below surface Pumping at 20 GP M for 2 Hrs. Pumping Method ? 12. Notified Owner of need to fill & sea Filled & Sealed Well(s) as needed? 13. Constructor / Supervisory Driller	Disinfect Capped	ed ? ed ? ? Date Signe

WISCONSIN UNIQUE WELL NUMBER MZ068

### RE: cottage grove area aquafer-

Puchalski, Thomas E - DNR <Thomas.Puchalski@wisconsin.gov> Tue-6/25/2024 6:50 AM

To:wismapping@charter.net <wismapping@charter.net>

Private wells do not have regulatory restrictions based upon water use unless they exceed 70 gallons per minute. Most Private drinking water wells for household use pump at about 5 gallons per minute. In addition, private wells typically pump for a brief time while repressurizing the home's plumbing system (pressure tank), and then turn off. It is unlikely that a Private drinking water well will impact an adjacent Private drinking water well based upon water use.

#### We are committed to service excellence.

Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

#### Tom Puchalski

Phone: (608) 386-8777 Thomas.Puchalski@wisconsin.gov

From: wismapping@charter.net <wismapping@charter.net> Sent: Monday, June 24, 2024 4:33 PM To: Puchalski, Thomas E - DNR <Thomas.Puchalski@wisconsin.gov> Subject: cottage grove area aquafer

CALINER THE REPORT OF THE REPORT OF THE REPORT OF

## Hello:

I am in the process of rezoning some land in the SW ¼ of the SE ¼ of Section 3-7-11, Town of Cottage Grove, Dane County.

Its an infill area and is slated for Private wells and septic systems. A question has been raised by a neighbor on whether the aquafer in that area is adequate For 50 additional lots. I have looked at the DNR well construction reports for the area and most seem to show a static water level At 70 some feet below surface and pump levels around 100 feet. Most of the underlying area is sandstone.

WISCO	Instruction Report	LL NUMBE	R	AAR3	30	Depar	tmer	/ater and Groundwa It of Natural Resour /I 53707			Form 3	300-077A
Property Owner	TIM O'BRIEN HOMES	- MADISON		Phon	ne # 661-1111	1. Wel	Loc	ation		Fi	e # (if a	avail.)
Mailing	2601 CROSSROADS	DRIVE		(000)	001-1111	Village	ofC	OTTAGE GROVE		44	65	
Address						Street	Add	ress or Road Name a	nd Numb	er		
City MAD	DISON		State WI	Zip Code 5	53718	SCEN		AK DRIVE	)			
County	Co. Permit #	Notification	n #	Co	mpletee	Subdiv	ision	Name	/	Lot #	BI	ock #
Dane	22-106	87578813	03	06-	-09-2022	KENN	EDY	HILLS		16	1	
Well Cons	tructor (Business Name	)	Lic. # F	acility ID # (Pr	ublic Wells)	Latitud	de / L	ongitude in Decimal	Degree (	DD) M	ethod (	Code
SAM'S WI	ELL DRILLING INC		370			43.093	35	°N -89.178	6	°W G	PS008	
			V	Vell Plan Appr	oval #	N <sup>V</sup> or Gov	W t Lot	NE Section # 10	Townsh 7		Range	E
Address	PO BOX 150 N9935 P RANDOLPH WI 5395		A	Approval Date	(mm-dd-yyyy)	2. Wel	Тур	e New Well				-
						of prev	vious	unique well #	cc	onstructed	lin	
Hicap Per	manent Well #	Common We	ell# S	Specific Capac	ity	Reaso	n for	replaced or reconstr	ucted wel	1?		
				0.9								
3. Well se	rves 1 # of HOME		H	licap Well ?	No	1						
Private,po	table		H	licap Property	? No	_						
Heat Exch	nange# of drillholes		H	licap Potable	? No	Constr	uctio	n Type Drilled				
4. Potenti	al Contamination Sou	rces - ON REV	ERSE SI	DE								
5. Drillho	e Dimensions and Co	nstruction Me	thod		8.	Geolog	у					
Dia. (in.) 8.75		pper Enlarged rillhole	1	Lowe	er Open Bedrock Co	ology des		8. Geology Type, Caving/Noncaving, Hardness, etc	Color,	Fro	om (ft.)	To (ft.
6	145 222 <sup>Ye</sup>	es Rotary - Mu	d Circulatio	n	No	С		C-CLAY		S	urface	1.
	N		·		Yes	C	G	C-CLAY G-			11	33
	N		& Foam		No		1	W/GRAVEL/STONE	S			
	N		gh Casing H	ammer		N	1	N-SANDSTONE		_	33	8
	N		Bitin. c	tia	No	н		H-SHALE	DOTON	-	85	11:
	N		y		No	н	N	H-SHALE N-W/SA		E	113 137	13
			er Casing 10		_	L	-	L-LIMESTONE/DC	LOWITE		205	20:
	Ye			(If NO explain		IN		N-SANDSTONE			200	LLI
	Contraction of the	on back sic	le)		-						_	-
6. Casing	, Liner, Screen					Static V				11. Well	S	
	Material, Weight, Specif Manufacturer & Method			From (ft.)		-		ound surface		24 in. ab		
	a service and a service of the service of the	and construction		Outras		Pump	-		-	Develop		Yes
	STD, BLK, PIPE, .280 V HUSTEEL	VALL, P.E., AS	3В,	Surface	(			100 ft. below surface	$\sum$	Disinfect		Yes
Dia. (in.)	Screen type, material &	slot size		From (ft.)	10 (11.)			GP M for 1 Hrs.		Capped	?	Yes
1					Pu	mping N	/letho	od? Airlift	_			_
7. Grout	or Other Sealing Mater	ial			12.	Notified	wO b	ner of need to fill & s	eal?			No
Method	TREMIE PIPE - PUMPE	D										
Kind of Se	ealing Material	From	(ft.) To	(ft.) # Sacks			-					
NEAT CE	MENT GROUT	Surfa	ace 1	145	25 S Fill	ed & Se	aled	Well(s) as needed?				No
					49	Constr	lictor	/ Supervisory Driller	Lic	ł	Date	Signed
					JV			a oupervisory Driller	602	_		)-2022
							onrat				Les este	Signed
												CHURCH INTERNAL
					JS	II Rig O	Jerai	or	737	or Reg #		9-2022

WISCONSIN UNIQUE WELL NUMBER AAR330

Well Construction Report WISCONSIN UNIQUE WELL NUMBER	AAO256	Drinking Water and Groundwater - DG Department of Natural Resources, Bo Madison WI 53707	5 Form 33 x 7921	300-077A
Property PAUPLIS, BARBARA	Phone #	1. Well Location	Fire # (if a	( lieve
Owner Mailing 43 ESTABROOK ROAD		Village of COTTAGE GROVE	2177	-
Address		Street Address or Road Name and Num		
City CARLISLE State ME	Zip Code 01741	WOODED RIDGE TRAIL		
County Co. Permit # Notification #	Completed	Subdivision Name	Lot # Bi	ock #
Dane 21-166 8526730504	11-19-2024	KENNEDY HILLS	9	
Well Constructor (Business Name) Lic. # 1	Facility ID (Patific Wells)	Latitude / Longitude in Decimal Degree	(DD) Method C	Code
SAM'S WELL DRILLING INC 370		43.0935 °N -89.1754	*W GPS008	
	Well Plan Approval #	NW NE Section Townsl		
		or Govt Lot # 10 7		E
Address PO BOX 150 N9935 PLEASANT RD RANDOLPH WI 53956	Approval Date (mm-dd-yyyy)	2. Well Type New Well		
		of previous unique well # c	onstructed in	
Hicap Permanent Well # Common Well #	Specific Capacity	Reason for replaced or reconstructed we	all ?	
	0.5			
3. Well serves 1 # of HOME	Hicap Well ? No	1		
Private, potable	Hicap Property ? No			
Heat Exchange# of drillholes	Hicap Potable ? No	Construction Type Drilled		
4. Potential Contamination Sources - ON REVERSE SI	DE		and the state	
5. Drillhole Dimensions and Construction Method	1	B. Geology	and the second secon	
Dia. (in.) From (ft.) To (ft.) Upper Enlarged 8.75 Surface 98 Drillhole 6 98 202 Yes Rotary - Mud Circulati No Rotary - Air & Foam No Rotary - Air & Foam No Drill-Through Casing I No Reverse Rotary No Cable-tool Bitin No Dual Rotary Yes Removed? 3depth for on back side) 6. Casing, Liner, Screen Dia. (in.) Material, Weight, Specification Manufacturer & Method of Assembly 6 STD, BLK, PIPE, .280 WALL, P.E., A53B, SEA	Bedrock C ion No Yes No Hammer dia No 10in. dia ft. (If NO explain From (ft.) To (ft.) H Surface 98 p	eology odes 8. Geology Type, Caving/Noncaving, Color, Hardness, etc X G X-SAND & CLAY G- W/GRAVEL/STONES N N-SANDSTONE S L S-SAND L-LIMEY OR DOLOMITIC N N-SANDSTONE 0. Static Water Level 12 ft. below ground surface 10. Pump Test	From (ft.) Surface 30 82 182 182 182 24 in. above gro Developed ? Disinfected ?	3 8 18 20
Dia. (in.) Screen type, material & slot size	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	Pumping at 20 GP M for 1 Hrs.	Capped ?	Yes
	10 - Ta		the second se	No
7. Grout or Other Sealing Material Method TREMIE PIPE - PUMPED Kind of Sealing Material From (fi.) To	1 o (ft.) # Sacks Cement	2. Notified Owner of need to fill & seal ?		NO
Method TREMIE PIPE - PUMPED	o (ft.) # Sacks Cement	2. Notified Owner of need to fill & seal ? filled & Sealed Well(s) as needed?		No
Method TREMIE PIPE - PUMPED Kind of Sealing Material From (fi.) To	o (ft.) # Sacks Cement 98 20 S <sub>F</sub>	illed & Sealed Well(s) as needed?	c# Date	
Method TREMIE PIPE - PUMPED Kind of Sealing Material From (fi.) To	o (ft.) # Sacks Cement 98 20 S <sub>F</sub>	filled & Sealed Well(s) as needed? (3. Constructor / Supervisory Driller Lie		No
Method TREMIE PIPE - PUMPED Kind of Sealing Material From (fi.) To	o (ft.) # Sacks Cement 98 20 S F 1	Filled & Sealed Well(s) as needed? 13. Constructor / Supervisory Driller Lie IVG 60	)26 <b>11-2</b>	No

WISCONSIN UNIQUE WELL NUMBER AA0256

Well Construct WISCONSIN U			R	AAQ	158	Dep	artme		Groundw Iral Resou			Form 3	300-077A
Property GANNO	N CONSTRUC	TION		Pho	ne #	-		cation			Fir	e # (if :	avail.)
Owner	75							OTTAGE	GROVE		22		
Mailing PO BOX Address	75					-			oad Name	and Numb	er	-	
City MCFARLAND	0		State WI	Zip Code	53558			RIDGE T					
County	Co. Permit #	Notification	n #	Co	ompleted	Sub	divisio	n Name		-	Lot #	BI	lock #
Dane	22-36	86632932	10	02	2-25-2022	KEN	INED	Y HILLS			6	2	
Well Constructor (B SAM'S WELL DRIL	and an and		Lic. # 1 370	Facility 10 # (P	ublic Wells	1000	tude / 0919	Longitude °N	in Decimal -89.176			ethod C PS008	
			1	Well Plan App	roval #		NW	NE	Section	Townshi	ip F	Range	
	150 N9935 PI PH WI 53956			Approval Date	(mm-dd-yyyy)	2. W	ovt Lo lell Ty reviou			7 co	N	11 in	E
Hicap Permanent W	Vell #	Common We	ell# :	Specific Capa	city	Rea	son fo	r replaced	or reconst	ructed well	1?		
				0.6									
3. Well serves 1	# of HOME		1	Hicap Well ?	No	1							
Private, potable			1	Hicap Property	? No								
Heat Exchange	# of drillholes		1	licap Potable	? No	Con	structi	on Type	Drilled				
4. Potential Conta		ces - ON REV	-			-	-						
5. Drillhole Dimen	sions and Con	struction Me	thod	100	T	8. Geol	oav						
5. Drillhole Dimensions and Construction Method         Dia. (in.)       From (ft.)       To (ft.)       Upper Enlarged         8.75       Surface       98		Lower Open Bedrock		eology	eology 8. Geology Type,			Fro	m (ft.)	To (ft.)			
6 98				No         No           Yes         Mo           am         No           sing Hammer		(	0	C-CLA	Y		Su	urface	12
	No					2	Z Z-CLAY & GRAVE		L		12	52	
	No					H H-SHALE				52	60		
	No					1	N     H     N-SANDSTONE H-SHALEY       L     L-LIMESTONE/DOLOMITE		-SHALEY	Y 60		81	
	No					1				81	115		
	No No					BL	B L B-BROKEN L- LIMESTONE/DOLOMITE			MITE	- 1-	115	
	<u>Ye</u> Ye		? 3depth ft	0in. dia . (If NO explain									
6. Casing, Liner, S	creen				9	. Static	Wate	er Level			11. Well	ls	
Dia. (in.) Material,	Weight, Specifi	cation		From (ft.) To (ft.)		61 ft. below ground surface				24 in. abo	ove gra	ade	
	urer & Method					0. Pum	p Tes	st			Develope	d?	Yes
6 STD, BLK HUSTEEI	K, PIPE, .280 W	ALL, P.E., A5	3B,	Surface	(			80 ft. belo		$\overline{}$	Disinfecte		Yes
Dia. (in.) Screen ty	pe, material &	slot size		From (ft.)	10 (π.)			GP M for			Capped 1	·	Yes
7. Grout or Other	Sealing Materi	al			1	2. Notif	ied Ov	wner of nee	ed to fill & s	seal?			No
Method TREMIE	PIPE - PUMPE	D											
Kind of Sealing Mat	terial	From	(ft.) To	(ft.) # Sacks	Cement								
NEAT CEMENT GF	ROUT	Surfa		98	20 S	illed & s	Seale	d Well(s) a	s needed?				No
							_					_	
						1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	structo	or / Supervi	isory Driller				Signed
					J	VG				6026	3	02-28	3-2022
					C	orill Rig	Opera	ator		Lic o	r Reg #	Date	Signed
					J	н				8628	В	02-25	5-2022

WISCONSIN	uction Report		ĒR	AAV0	91	Departm	Water an ent of Nat WI 53707	tural Resou	rces, Box 7		n 3300-077A
Property BAINI Owner	ER, KYLE & SAM	ANTHA		Phor	ne #	1. Well L	ocation			Fire # (	(if avail.)
	RROWHEAD CIR					Town of	COTTAGE	GROVE		2202	
Mailing 880 A Address						Street Ad	dress or f	Road-Name	and Number	1	
City SUN PRAI	RIE		State W	Zip Code	53590	-	DRIDGE		)		
County	Co. Permit #	Notificatio	n #	Co	mpleted	Subdivisi	on Name		)	Lot #	Block #
Dane	22-174	88415543	801	09	-07-2022	KENNED	Y HILLS	/		12	
Well Constructor	r (Business Name	)	Lic. #	Facility ID # (P	ublic Wells)	Latitude	/ Longitud	e in Decima	Degree (DI	D) Metho	d Code
SAM'S WELL DR	RILLING INC		370			43.0926	0	N -89.17	69 °'	W GPS0	08
				Well Plan Appr	oval #	NW or Govt L	NE	Section 10	Township 7 N		E
	OX 150 N9935 P		)	Approval Date	(mm-dd-vyvv)		ype Nev				
RANL	DOLPH WI 53950	5			(		us unique		cons	structed in	
Hicap Permaner	nt Well #	Common W	ell #	Specific Capac	itv				ructed well ?	,	
ritoap r critianor		Common W	Cil #	0.4		lindudoni	orropicioo				
3. Well serves	1 # of HOME			Hicap Well ?	No	-					
	1 # OF HOME										
Private,potable				Hicap Property		Construit	New Thinks	Drilled			
Heat Exchange_				Hicap Potable	? No	Construc	tion Type	Drilled			
	ntamination Sour			IDE						_	
5. Drillhole Dim	ensions and Cor	nstruction Me	ethod			. Geology	10.0				
Dia. (in.) From ( 8.75 Surfa	Dr	per Enlarged		Lowe	Bedrock Co	eology odes	Caving	Noncaving, ss, etc	Color,	From (fl	.) To (ft
6	158 198 <sup>Ye</sup>			ion	No	ZS			EL S-SANDY	Surfac	e 38
	No				Yes	N	N-SAI	DSTONE		3	8 5
	No				No	н	H-SH	ALE		5	5 7
	No		gh Casing	Hammer		L	L-LIM	ESTONE/DO	DLOMITE	7	0 13
	No		10 N			N	N-SAI	NDSTONE		13	8 19
	No	a line	Bitin.	dia	No No						
	No		ter Casing		NO						
	No			oth ft. (If NO							
	IN		back side)								
6. Casing, Line	r, Screen				9.	Static Wa	ter Level		1	1. Well Is	
Dia. (in.) Materi	al, Weight, Specifi	cation		From (ft.)	To (ft.) 65	5 ft. below g	ground sur	face	2	4 in. above	grade
	acturer & Method			a service service		). Pump Te	st		D	eveloped ?	Yes
C OTD I	BLK, PIPE, .280 W	ALL, P.E., A	53B,	Surface	158 PL	imping leve	120 ft. be	elow-surface	D	isinfected ?	Yes
				E		Imping at 2			· ·	apped ?	Yes
HUST		SIOT SIZE		From (ft.)	To (tt.)	umping Me	thod ? Ai	rlift	-		
	n type, material o			i				eed to fill &	and 2		No
HUSTI Dia. (in.) Screer					112	. Nouneu c					110
HUSTI Dia. (in.) Screer 7. Grout or Oth	er Sealing Materi				12						
HUSTI Dia. (in.) Screer 7. Grout or Oth Method TREM	er Sealing Materi IIE PIPE - PUMPE	D									
HUSTI Dia. (in.) Screer 7. Grout or Other Method TREM Kind of Sealing I	er Sealing Materi IE PIPE - PUMPE Material	D		o (ft.) # Sacks	Cement	led & Seal	ed Well(s)	as needed?			No
HUSTI Dia. (in.) Screer 7. Grout or Other Method TREM Kind of Sealing I	er Sealing Materi IE PIPE - PUMPE Material	D		9 (ft.) # Sacks 158	Cement	lled & Seale	ed Well(s)	as needed?			No
HUSTI Dia. (in.) Screer 7. Grout or Other Method TREM Kind of Sealing I	er Sealing Materi IE PIPE - PUMPE Material	D			Cement 27 S <sup>Fil</sup>						
HUSTI Dia. (in.) Screer 7. Grout or Othe Method TREM Kind of Sealing I	er Sealing Materi IE PIPE - PUMPE Material	D			Cement 27 S <sup>Fil</sup>	. Construct		as needed? visory Drille	r Lic#	100	te Signed
HUSTI Dia. (in.) Screer	er Sealing Materi IE PIPE - PUMPE Material	D			Cement 27 S <sup>Fil</sup> 13 JV	. Construct	tor / Super		r Lic # 6026	09-	te Signed 08-2022
HUSTI Dia. (in.) Screer 7. Grout or Other Method TREM Kind of Sealing I	er Sealing Materi IE PIPE - PUMPE Material	D			Cement 27 S <sup>Fil</sup> 13 JV	6. Construct /G till Rig Ope	tor / Super		r Lic#	09- Reg # Da	te Signed

Hennedy Hills, Scenic Cak static 68 bolow pump lived 100 below

2022

Well Construction Report WISCONSIN UNIQUE WELL NUMBER	AAR330	Drinking Water and Groundwa Department of Natural Resource Madison WI 53707	ter - DG/5 ces, Box 7921	Form 3300-07
Property TIM O'BRIEN HOMES - MADISON Owner Mailing 2601 CROSSROADS DRIVE Address	Phone # (608)661-1111	1. Well Location Village of COTTAGE GROVE	4	Fire # (if avail.) 1465
City MADISON State W County Co. Permit # Notification # Dane 22-106 8757881303	Completed 06-09-2022	Street Address or Road Name a SCENIC OAK DRIVE Subdivision Name KENNEDY HILLS	nd Number Lot ≴ 16	# Block #
Ular Design of the second s	Facility ID # (Public Wells) Well Plan Approval # Approval Date (mmedd-yyy) Specific Capacity	Latitude / Longitude in Decimal E         43.0935       °N       -89.1786         NW       NE       Section         or Govt Lot #       10         2. Well Type       New Well         of previous unique well #         Reason for replaced or reconstruit	S °W ( Township 7 N constructe	Method Code GPS008 Range 11 E
Private, potable	0.9 Hicap Well ? No Hicap Property ? No Hicap Potable ? No	Construction Type Drilled		
5. Drillhole Dimensions and Construction Method		Geology		
Dia. (in.) From (ft.) To (ft.) Upper Enlarged 8.75 Surface 145 Drillhole Ves Rotary - Mud Circulati 6 145 222 Yes Rotary - Mud Circulati No Rotary - Air & Foam No Drill-Through Casing H No Reverse Rotary No Cable-tool Bitin. No Dual Rotary Yes Temp. Outer Casing 1 Yes Removed? 3depth ft on back side)	Bedrock         Correct           on         No           Yes         No           Harnmer         No           dia         No           Oin. dia         No	ology 8. Geology Type, Caving/Noncaving, Co Hardness, etc C C-CLAY C G C-CLAY G- W/GRAVEL/STONES N N-SANDSTONE H H-SHALE H N H-SHALE N-W/SANI L L-LIMESTONE/DOLO N N-SANDSTONE	olor, S	om (ft.) To (f Surface 1 11 3 33 8 85 11 113 13 137 20 205 22
<ul> <li>b. Casing, Liner, Screen</li> <li>Dia. (in.) Material, Weight, Specification Manufacturer &amp; Method of Assembly</li> <li>6 STD, BLK, PIPE, .280 WALL, P.E., A53B, HUSTEEL</li> <li>Dia. (in.) Screen type, material &amp; slot size</li> </ul>	From (ft.) To (ft.) 68 1 10. Surface 145 Pun From (ft.) To (ft.) Pun	Static Water Level ft. below ground surface Pump Test mping level 100 ft. below surface mping at 30 GP M for 1 Hrs. mping Method ? Airlift	11. Well 24 in. ab Develope Disinfect Capped	ove grade ed? Yes ed? Yes
EAT OFMENT OF OF	(ft.) # Sacks Cement	Notified Owner of need to fill & sea	?	No
	JVG	Constructor / Supervisory Driller Rig Operator	Lic # 6026 Lic or Reg # 7377	Date Signed 06-10-2022 Date Signed 06-09-2022

Kennedy Ed, 2002 Share when .

Well Construction Report WISCONSIN UNIQUE WELL NUMBER	QR475	Drinking Water and Groundwater - DG/ Department of Natural Resources, Box Madison WI 53707	5 Form 330 7921	0-077A
Property BURKE, ROB & SHERRI	Phone #	1. Well Location	Fire # (if av	(lic)
Owner Mailing 616 OAK ST		Town of COTTAGE GROVE	i no a (n av	can.)
Mailing 616 OAK ST Address		Street Address or Road Name and Numb	or	-
City COTTAGE GROVE State	WI Zip Code 53527 (	4500 KENNEDY	er	*
County Co. Permit # Notification #	Completed	Subdivision Name	Lot # Bloc	ck #
Dane 19911	07-20-2001		2	OK IT
Well Constructor (Business Name) Lic. #	Facility 10 # (Public Wells)	) Latitude / Longitude in Decimal Degree (I		de
WEBSTER BRAD & SONS DRILLING INC 6574	i samy is a (i same rions)	43.0952 °N -89.179	°W GCD013	
	Well Plan Approval #	SW SE Section Townshi		
	Ten Flan Approver a	or Govt Lot # 3 7		Ξ
Address N2323 PINE HOLLOW RD POYNETTE WI 53955	Approval Date (mm-dd-yyyy)	2. Well Type New Well		-
POTNETTE WI 53955			nstructed in	
Hicap Permanent Well # Common Well #	Specific Capacity	Reason for replaced or reconstructed well		
	0.4			
3. Well serves 1 # of	Hicap Well ? No	-		
Private,potable		Construction Trans. Dellard		
Heat Exchange# of drillholes	Hicap Potable ?	Construction Type Drilled		
4. Potential Contamination Sources - ON REVERSE	SIDE			
Dia. (in.) From (ft.) To (ft.) Upper Enlarged 8.8 Surface 80 Drilihole 6 80 160 Yes Rotary - Mud Circu No Rotary - Air Rotary - Air & Foar Drill-Through Casi Reverse Rotary Cable-tool Bit Dual Rotary Temp. Outer Casin Removed? explain on back si 6. Casing, Liner, Screen	Bedrock C Bedrock C 	Seology       8. Geology Type, Caving/Noncaving, Color, Hardness, etc         -       Y       -         S       N       -         S       N       -         SOFT SANDSTONE       -         -       N       H         SANDSTONE & SHALE       -         -       N       -         SANDSTONE       -         -       N         -       SANDSTONE	From (ft.) Surface 38 42 78 11. Well Is 18 in. above grad	3 4 7 16
Dia. (in.) Material, Weight, Specification Manufacturer & Method of Assembly	i istitut is had	10. Pump Test		Yes
6 IPSCO A53B .280 WALL PE	Contraction of the second second	Pumping level 105 ft. below surface		Yes
Dia. (in.) Screen type, material & slot size				
Dia. (iii.) Screen type, material a sict size	+	Pumping at 12 GP M for 2 Hrs.	Capped ?	Yes
		Pumping Method ?	Lung and the second	
7. Grout or Other Sealing Material		12. Notified Owner of need to fill & seal ?		
	1	12, Notified Owner of field to fill & sear ?		
Method PRESSURE TREMIE	States and States	2. Notified Owner of field to fin & sear ?		
Method PRESSURE TREMIE Kind of Sealing Material From (ft.) NEAT CEMENT Surface	To (ft.) # Sacks Cement 80 15 S F	Filled & Sealed Well(s) as needed?		No
Kind of Sealing Material From (ft.)	To (ft.) # Sacks Cement 80 15 S p	Filled & Sealed Well(s) as needed?		
Kind of Sealing Material From (ft.)	To (ft.) # Sacks Cement 80 15 S F	Filled & Sealed Well(s) as needed? NONE 13. Constructor / Supervisory Driller Lic	# Date S	Signed
Kind of Sealing Material From (ft.)	To (ft.) # Sacks Cement 80 15 S p I	Filled & Sealed Well(s) as needed? NONE 13. Constructor / Supervisory Driller Lic BW	# Date \$ 07-28-	Signer
Kind of Sealing Material From (ft.)	To (ft.) # Sacks Cement 80 15 S F	Filled & Sealed Well(s) as needed? NONE 13. Constructor / Supervisory Driller Lic BW	# Date S	Signed -2002 Signed

Sauthern Laws, 1772, 3 --- 1

pump level 70'belas

Well Construction Report WISCONSIN UNIQUE WELL NUMBER	ER603	Drinking Water and Groundwater - DG Department of Natural Resources, Boy Madison WI 53707		00-077A
Property TIM SHAW	Phone #	1. Well Location	Fire # (if a	vail.)
Owner	(608)223-0301	Town of COTTAGE GROVE		
Mailing 3410 MEIER RD Address		Street Address or Road Name and Num	her	-
City MADISON State V	VI Zip Code 53704	(2169 SOUTHERN COURT		
County Co. Permit # Notification #	Completed	Subdivision Name	Lot # Bio	ock #
Dane W06403	01-16-1992	AMER HERITAGE S SLOPE ADDR		
Well Constructor (Business Name) Lic. #	Facility ID # (Public Wells		(DD) Method C	ode
BERKHOLTZ, RICHARD 3	Contract . Contract . Contract . Contract	43.0934 °N -89.1742	W GCD013	
	Well Plan Approval #	NE NE Section Townsh	nip Range	
				E
Address 6400 LAKE RD WINDSOR WI 53598-9717	Approval Date (mm-dd-yyyy)	2. Well Type New Well		-
		of previous unique well # C	onstructed in	
Hicap Permanent Well # Common Well #	Specific Capacity 0.4	Reason for replaced or reconstructed we NEW HOME	all ?	
3. Well serves 1 # of	Hicap Well ? No	1		
Private,potable	Hicap Property ? No			
Heat Exchange # of drillholes	Hicap Potable ?	Construction Type Drilled		
4. Potential Contamination Sources - ON REVERSE		and an annual second second second second		
5. Drillhole Dimensions and Construction Method	and the second se	8. Geology	and the second balance	
Dia. (in.) From (ft.) To (ft.) Upper Enlarged 8.75 Surface 50 Drillhole	Lower Open Bedrock	Seology 8. Geology Type, Codes Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (
6 50 205 100 Rotary - Air		Z S SAND CLAY @ BOULDERS		
Rotary - Air & Foan		L LIMESTONE	48	1.
Drill-Through Casin		H N HARD RED SANDSTONE	140	1
Reverse Rotary		N TAN SANDSTONE	185	2
Cable-tool Bit				
Dual Rotary				
Temp, Outer Casin Removed?				
explain on back sid				
6. Casing, Liner, Screen		9. Static Water Level	11. Well Is	
or washing, whitely obtool			10 to all all and	ade
Dia. (in.) Material, Weight, Specification	From (ft.) To (ft.)	35 ft. below ground surface	16 in. above gra	
	t tout (my) to (my)	35 ft. below ground surface 10. Pump Test	Developed ?	Yes
Dia. (in.) Material, Weight, Specification Manufacturer & Method of Assembly 6 STD. STEEL PE NEW 18.97 LBS ASTMA-53	( (an (a)) ) o (a)	The second s		Yes Yes
Dia. (in.) Material, Weight, Specification Manufacturer & Method of Assembly 6 STD. STEEL PE NEW 18.97 LBS ASTMA-53 SAWHILL GR B	Surface 50	10. Pump Test	Developed ?	
Dia. (in.) Material, Weight, Specification Manufacturer & Method of Assembly 6 STD. STEEL PE NEW 18.97 LBS ASTMA-53	Surface 50 From (ft.) To (ft.)	10. Pump Test Pumping level 70 ft. below surface	Developed ? Disinfected ?	Yes
<ul> <li>Dia. (in.) Material, Weight, Specification Manufacturer &amp; Method of Assembly</li> <li>6 STD. STEEL PE NEW 18.97 LBS ASTMA-53 SAWHILL GR B</li> <li>Dia. (in.) Screen type, material &amp; slot size</li> </ul>	Surface 50 From (ft.) To (ft.)	10. Pump Test Pumping level 70 ft. below surface Pumping at 15 GP for 1 Hrs.	Developed ? Disinfected ?	Yes
<ul> <li>Dia. (in.) Material, Weight, Specification Manufacturer &amp; Method of Assembly</li> <li>6 STD. STEEL PE NEW 18.97 LBS ASTMA-53 SAWHILL GR B</li> <li>Dia. (in.) Screen type, material &amp; slot size</li> <li>7. Grout or Other Sealing Material</li> </ul>	Surface 50 From (ft.) To (ft.)	10. Pump Test Pumping level 70 ft. below surface Pumping at 15 GP for 1 Hrs. Pumping Method ?	Developed ? Disinfected ?	Yes
Dia. (in.) Material, Weight, Specification Manufacturer & Method of Assembly 6 STD. STEEL PE NEW 18.97 LBS ASTMA-53 SAWHILL GR B Dia. (in.) Screen type, material & slot size 7. Grout or Other Sealing Material Method FULL HOLE	Surface 50 From (ft.) To (fl.)	10. Pump Test Pumping level 70 ft. below surface Pumping at 15 GP for 1 Hrs. Pumping Method ?	Developed ? Disinfected ?	Yes
Dia. (in.) Material, Weight, Specification Manufacturer & Method of Assembly 6 STD. STEEL PE NEW 18.97 LBS ASTMA-53 SAWHILL GR B Dia. (in.) Screen type, material & slot size 7. Grout or Other Sealing Material Method FULL HOLE Kind of Sealing Material From (fl.)	From (ft.) To (ft.)	10. Pump Test Pumping level 70 ft. below surface Pumping at 15 GP for 1 Hrs. Pumping Method ?	Developed ? Disinfected ?	Yes
Dia. (in.) Material, Weight, Specification Manufacturer & Method of Assembly 6 STD. STEEL PE NEW 18.97 LBS ASTMA-53 SAWHILL GR B Dia. (in.) Screen type, material & slot size 7. Grout or Other Sealing Material Method FULL HOLE	Surface 50 From (ft.) To (ft.)	10. Pump Test Pumping level 70 ft. below surface Pumping at 15 GP for 1 Hrs. Pumping Method ? 12. Notified Owner of need to fill & seal ?	Developed ? Disinfected ?	Yes
Dia. (in.) Material, Weight, Specification Manufacturer & Method of Assembly 6 STD. STEEL PE NEW 18.97 LBS ASTMA-53 SAWHILL GR B Dia. (in.) Screen type, material & slot size 7. Grout or Other Sealing Material Method FULL HOLE Kind of Sealing Material From (fl.)	From (ft.) To (ft.) To (ft.) # Sacks Cement	10. Pump Test Pumping level 70 ft. below surface Pumping at 15 GP for 1 Hrs. Pumping Method ? 12. Notified Owner of need to fill & seal ? Filled & Sealed Well(s) as needed?	Developed ? Disinfected ? Capped ?	Yes Yes
Dia. (in.) Material, Weight, Specification Manufacturer & Method of Assembly 6 STD. STEEL PE NEW 18.97 LBS ASTMA-53 SAWHILL GR B Dia. (in.) Screen type, material & slot size 7. Grout or Other Sealing Material Method FULL HOLE Kind of Sealing Material From (fl.)	From (ft.) To (ft.) To (ft.) # Sacks Cement	<ul> <li>10. Pump Test</li> <li>Pumping level 70 ft. below surface</li> <li>Pumping at 15 GP for 1 Hrs.</li> <li>Pumping Method ?</li> <li>12. Notified Owner of need to fill &amp; seal ?</li> <li>Filled &amp; Sealed Well(s) as needed?</li> <li>13. Constructor / Supervisory Driller Lie</li> </ul>	Developed ? Disinfected ? Capped ?	Yes Yes
Dia. (in.) Material, Weight, Specification Manufacturer & Method of Assembly 6 STD. STEEL PE NEW 18.97 LBS ASTMA-53 SAWHILL GR B Dia. (in.) Screen type, material & slot size 7. Grout or Other Sealing Material Method FULL HOLE Kind of Sealing Material From (fl.)	From (ft.) To (ft.) To (ft.) # Sacks Cement	10. Pump Test Pumping level 70 ft. below surface Pumping at 15 GP for 1 Hrs. Pumping Method ? 12. Notified Owner of need to fill & seal ?  Filled & Sealed Well(s) as needed? 13. Constructor / Supervisory Driller Lie RB	Developed ? Disinfected ? Capped ? c # Date 04-2	Yes Yes Signe
Dia. (in.) Material, Weight, Specification Manufacturer & Method of Assembly 6 STD. STEEL PE NEW 18.97 LBS ASTMA-53 SAWHILL GR B Dia. (in.) Screen type, material & slot size 7. Grout or Other Sealing Material Method FULL HOLE Kind of Sealing Material From (fl.)	From (ft.) To (fi.) To (ft.) # Sacks Cement	10. Pump Test Pumping level 70 ft. below surface Pumping at 15 GP for 1 Hrs. Pumping Method ? 12. Notified Owner of need to fill & seal ?  Filled & Sealed Well(s) as needed? 13. Constructor / Supervisory Driller Lie RB	Developed ? Disinfected ? Capped ? c # Date 04-2 c or Reg # Date	Yes

Well Construction Report WISCONSIN UNIQUE WELL NUMBER	CZ780		Water and Groundwater - int of Natural Resources, WI 53707		om 330	N-UT/A
Property A@K BUILDERS Owner Mailing 310 S CHARTER	Phone # (608)251-0940	1. Well Lo Town of C	cation	Fire	# (if av	vail.)
Address			dress or Road Name and N	umber	1	2
City MADISON State V		4569 KEN		1.02		
County Co. Permit # Notification # Dane W05110	08-28-1991	Subdivisio	on Name	Lot #	Blo	ick #
Well Constructor (Business Name) Lic. #	Facility ID # (Public Well	s) Latitude /	Longitude in Decimal Degr	100 C T	hod Co	ode
SAMS ROTARY DRILLERS 370		43.0991	°N -89.1801		D013	
	Well Plan Approval #	NE	SW Section Tow	nshio Ra	ange	
		or Govt Lo	Contraction of the second seco		11 1	E
Address PO BOX 150 RANDOLPH WI 53956-0150	Approval Date (mm-dd-yyy)		ype New Well is unique well #	constructed i	n	
Hicap Permanent Well # Common Well #	Specific Capacity		or replaced or reconstructed			
Control vol *	0.5	HOME				
3. Well serves 1 # of	Hicap Well ? No	-				
Private, potable	Hicap Property ? No					
		Construct	ion Type Drilled			
Heat Exchange# of drillholes 4. Potential Contamination Sources - ON REVERSE	Hicap Potable ?	Construct	Driled		-	
5. Drillhole Dimensions and Construction Method	SIDE	8. Geology		tel a construction de la del	-	-
Dia, (in.) From (ft.) To (ft.) Upper Enlarged	Lower Open	Geology	8. Geology Type,		1 (ft.)	To (f
8 Surface 42 Drillhole	Bedrock	Codes	Caving/Noncaving, Color Hardness, etc	).		
6 42 155 Yes Rotary - Mud Circu		с	CLAY	Su	rface	
Yes Rotary - Air Rotary - Air & Foar		Y	SAND @ GRAVEL		5	1
Drill-Through Casir		N	SANDROCK		18	5
Reverse Rotary		н	SHALE		50	5
Cable-tool Bit	in, dia	N	SANDROCK		53	6
Dual Rolary		L	LIMEROCK		60	8
Temp. Outer Casir	ıgin. dia	BL	BROKEN ROCK		83	8
Removed? explain on back sid		L	LIMEROCK		85	15
6. Casing, Liner, Screen		9. Static Wa	ter Level	11. Well I	S	
Dia. (in.) Material, Weight, Specification	From (ft.) To (ft.)	40 ft. below g	ground surface	18 in. abc	ve gra	ade
Manufacturer & Method of Assembly		10. Pump Te	est	Develope	d ?	Yes
6 STD BLACK PIPE .280 WALL, WELD JTS, A	- Surface 42	Pumping leve	al 84 ft. below surface	Disinfecte	d?	Yes
53.KHC Dia. (in.) Screen type, material & slot size	From (ft.) To (ft.)	Pumping at 2	O GP for 1 Hrs.	Capped ?		Yes
Dia. (III.) Octean type, material & sict size	( ) o ( ) ( ) ( ) ( ) ( ) ( ) ( )	Pumping Me	thod ?			
7. Grout or Other Sealing Material	Contraction of the second s	12. Notified (	Owner of need to fill & seal "	?		
Method TREMIE						
Kind of Sealing Material From (ft.)	To (ft.) # Sacks Cement	1				
MUD @ CUTTINGS Surface	8	Filled & Seal	ed Well(s) as needed?			
CEMENT 8	42 8	1.1.1.1				
		10.0	tes / Duponings, Duilles	Lic #	Data	Signe
		10.00	tor / Supervisory Driller	LIG #		
		sv		User D		9-1991
		Harry 141 area	of the American State of the	Lic or Reg #	Date	Signe
		Drill Rig Ope	rator	LIC OF Reg #		6-1991