Approved: Kall

Мемо

To: Kristopher Byrd, Well Construction and Compliance Section Manager

From: Travis Kelly, Well Construction Compliance Coordinator

Subject: Review of Water Right Application G-19051

Date: January 6, 2022

The attached application was forwarded to the Well Construction and Compliance Section by the Groundwater Section. Mike Thoma reviewed the application. Please see Mike's Groundwater Review and the Well Report.

Applicant's Well #1 (DESC 62485): Based on a review of the Well Report, Applicant's Well #1 seems to protect the groundwater resource.

The construction of Applicant's Well #1 may not satisfy hydraulic connection issues.

					Page 1 of 2				
STATE OF OREGON	DESC	62485	WELL I.D. LABEL# 1	L 141143					
WATER SUPPLY WELL REPORT	DLDC	02405	START CARD #	1050604					
(as required by ORS 537.765 & OAR 690-205-0210)	2/24/2	2021	ORIGINAL LOG #	1050004					
$(1) \mathbf{I} \mathbf{A} \mathbf{N} \mathbf{D} \mathbf{O} \mathbf{W} \mathbf{N} \mathbf{F} \mathbf{D} \mathbf{O} \mathbf{W} \mathbf{H} \mathbf{F} \mathbf{D}$									
(I) LAND OWNER Owner Well I.D.									
First Name <u>NANCY</u> Last Name <u>KERKVLIET</u>	— I	(9) LOCAT	ION OF WELL (legal d	lescription)					
Company BRYAN MILLER		County DESCHU	JTES Twp 16.00 S N	/S Range 10.00	0 E E/W WM				
Address 4364 NW HONEY SUCKLE DR		Sec 1	SE = 1/4 of the NE	1/4 Tax Lot	1500				
<u>City</u> <u>CORVALLIS</u> State <u>OR</u> Zip <u>97330</u>		Tax Man Numb	1/ 1 01 uto	Lot					
(2) TYPE OF WORK X ^{New Well} Deepening Conve	ersion		" " or 44.0196090	LOI	DMS or DD				
Alteration (complete 2a & 10) Abandonment(cor	mplete 5a)	Lat	01 44.2186080.	3					
(2a) PRE-ALTERATION	<u> </u>	Long	or121.467513	577	DMS or DD				
Dia + From To Gauge Stl Plstc Wld Thrd		💽 Str	reet address of well ONe	arest address					
Casing:		66595 SISEMO	DRE ROAD BEND OR						
Material From To Amt sacks/lbs									
Seal:	F								
(3) DRILL METHOD		(10) STATIO	C WATER LEVEL						
X Rotary Air Rotary Mud Cable Auger Cable Mud		Date SWL(psi) + SWL(ft)							
		Existing Well / Pre-Alteration							
		Completed	Well 2/2/2021		298				
(4) PROPOSED USE X Domestic X Irrigation Community			Flowing Artesian?	Dry Hole?					
Industrial/Commercial Livestock Dewatering			NG ZONES Dopth w	eter was first four					
$\Box = 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1$				ater was first foun	<u></u>				
		SWL Date	From To Est	t Flow SWL(psi)	+ SWL(ft)				
(5) BORE HOLE CONSTRUCTION Special Standard (A	ttach copy)	2/2/2021	295 493	150	298				
Depth of Completed Well 493.00 ft.	1	2/2/2021		150					
BORE HOLE SEAL	sacks/								
Dia From To Material From To Ar	mt lbs								
14 0 185 Bentonite 0 185 1	16 S								
10 18.5 500 Calculated 12	2.54								
Calculated		(11) WELL I	LOG Ground Elevation	on					
How was seal placed: Method A B C D	Е		Material	From	То				
Vother BENTONITE DRV		Ton soil Brown	Wateria	0	2				
Best fill placed from ft to ft Material		Gravel Congl B	rown	2	8				
		Dink Pedrock	hard	- 2	32				
Filter pack from ft. to ft. MaterialSize		Brown SS Tuff	naru	32	50				
Explosives used: Yes Type Amount		Brown ton SS tu	.ff	50	140				
$(5_{0}) \xrightarrow{\Lambda} \xrightarrow{\Lambda} \xrightarrow{\Lambda} \xrightarrow{\Lambda} \xrightarrow{\Lambda} \xrightarrow{\Lambda} \xrightarrow{\Lambda} \xrightarrow{\Lambda}$		Lava rock Prov	un Gray	140	140				
(5a) ADAINDONWIENT USING UNITTDRATED DENTONIT		Lava rock blow		140	190				
Proposed Amount Actual Amount		Lava lock naru	gray	130	250				
(6) CASING/LINER		Lava Kock Hard	SS Tuff Concl	250	230				
Casing Liner Dia + From To Gauge Stl Plstc V	Wld Thrd			230	200				
$\bullet \qquad 10 \qquad \textbf{X} \qquad 1.5 \qquad 18.5 \qquad .250 \qquad \bullet \qquad .$	× 🗌	Lava rock	1 Duranu	280	295				
	\mathbf{X} \Box	Lava rock Cong		295	305				
		Lava rock Gray	Midd Con al Brown	255	280				
		Lava fock blok			300				
		Drown lava roal	SS Tull Coligi	200	390				
Shoe Inside Outside Other Location of shoe(s)		Brown SS Tuff	k Coligi	420	430				
		Cinder lave our	ing Congl	430	500				
Temp casing Yes Dia From + To		Childer lava cav	ing Coligi	470	500				
(7) PERFORATIONS/SCREENS									
Perforations Method FACTORY CUT									
Screens Type Material		Date Started	1/29/2021 Com	pleted 2/2/2021					
Perf/ Casing/ Screen Scrn/slot Slot # of	Tele/			<u> </u>					
Screen Liner Dia From To width length slots	pipe size	(unbonded) W	ater Well Constructor Certif	ication					
Perf Liner 8 447 493 .125 3 1872		I certify that the	e work I performed on the co	onstruction, deepe	ening, alteration, or				
		abandonment of	of this well is in compliance	e with Oregon	water supply well				
		construction sta	indards. Materials used and in	iformation reporte	ed above are true to				
		the best of my l	cnowledge and belief.						
		License Numbe	er D	vate					
(8) WELL TESTS: Minimum testing time is 1 hour									
$\bigcirc \text{Pump} \qquad \bigcirc \text{Poilor} \qquad \bigcirc \text{Air} \qquad \bigcirc \text{Elowing Ar}$	tasian	Signed							
Gramp Gramer Gran Grammar	lesian								
Yield gal/min Drawdown Drill stem/Pump depth Duration (hi	r)	(bonded) Wate	r Well Constructor Certificat	tion					
85 470 1		I accept respon	sibility for the construction, d	leepening, alterati	on, or abandonment				
		work performed	on this well during the constru	uction dates report	ted above. All work				
		performed duri	ng this time is in compliand	ce with Oregon	water supply well				
Temperature 52 °F Lab analysis Yes By		construction sta	ndards. This report is true to the	he best of my know	wledge and belief.				
Water quality concerns? Yes (describe below) TDS amount 45	ppm	License Numbe	r 1970 D	ate 2/24/2021					
From To Description Amount	Units		-2710	2, 27, 2021					
		Signed NEIL	FAGEN (E-filed)						
		Contact Info (or	otional) 541-548-1245						
			· · · · · · · · · · · · · · · · · · ·						

ORIGINAL - WATER RESOURCES DEPARTMENT THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK Form Version:

WATER SUPPLY WELL REPORT - Map with location identified must be attached and shall include an approximate scale and north arrow **DESC 62485**

2/24/2021

Map of Hole

STATE OF OREGON WELL LOCATION MAP

This map is supplemental to the WATER SUPPLY WELL REPORT

LOCATION OF WELL

Latitude: 44.21860803 Datum: WGS84 Longitude: -121.46751577 Township/Range/Section/Quarter-Quarter Section: WM16.00S10.00E1SENE Address of Well: 66595 SISEMORE ROAD BEND OR

Oregon Water Resources Department 725 Summer St NE, Salem OR 97301 (503)986-0900

Well Label: 141143

WATTA RESOURCES

Printed: February 24, 2021

DISCLAIMER: This map is intended to represent the approximate location the well. It is not intended to be construed as survey accurate in any manner.

Provided by well constructor



Groundwater Application Review Summary Form

Application # G- 19051

GW Reviewer <u>M. Thoma</u> Date Review Completed: <u>11/18/2021</u>

Summary of GW Availability and Injury Review:

Groundwater for the proposed use is either over appropriated, will not likely be available in the amounts requested without injury to prior water rights, OR will not likely be available within the capacity of the groundwater resource per Section B of the attached review form.

Summary of Potential for Substantial Interference Review:

There is the potential for substantial interference per Section C of the attached review form.

Summary of Well Construction Assessment:

The well does not appear to meet current well construction standards per Section D of the attached review form. Route through Well Construction and Compliance Section.

This is only a summary. Documentation is attached and should be read thoroughly to understand the basis for determinations and for conditions that may be necessary for a permit (if one is issued).

WATER RESOURCES DEPARTMENT

MEMO

11/18/2021

TO: Application G-<u>19051</u>

FROM: GW: <u>M. Thoma</u> (Reviewer's Name)

SUBJECT: Scenic Waterway Interference & General/Local Surface Water Evaluation for Deschutes Ground Water Study Area

The source of appropriation is within or above the <u>Deschutes</u> Scenic Waterway

Use the Scenic Waterway condition (Condition 7J).

PREPONDERANCE OF EVIDENCE FINDING UNDER ORS 390.835:

Department has found that there is a preponderance of evidence that the proposed use of groundwater will measurably reduce the surface water flows necessary to maintain the free-flowing character of the <u>**Deschutes**</u> Scenic Waterway in quantities necessary for recreation, fish and wildlife.

LOCALIZED IMPACT FINDING

The proposed use of groundwater will have a localized impact to surface water in the <u>Middle Deschutes</u> River/Creek Subbasin.

If the localized impact box above is checked, then the water use under any right issued pursuant to this application is presumed to have a localized impact on surface water within the identified subbasin. Mitigation of the impact, originating from within the Local Zone of Impact identified by the Department, will be required before a permit may be issued for the proposed use.

If the localized impact box above is not checked, then the water use under any right issued pursuant to this application is presumed to have a general (regional) impact on surface water. Mitigation of the impact, originating anywhere within the Deschutes Basin above the Madras gage, will be required before a permit may be issued for the proposed use.

Page

PUBLIC INTEREST REVIEW FOR GROUNDWATER APPLICATIONS													
TO: FROM		Water Rights Section Groundwater Section					Date11/18/2021 						
SUBJE	CI:	Applic	cation G- $$	19051_	5	Supersede	s reviev	w of _		E	ate of Revi	ew(s)	
Date of Review(s) OAR 690-310-130 (1) The Department shall presume that a proposed groundwater use will ensure the preservation of the public welfare, safety and health as described in ORS 537.525. Department staff review groundwater applications under OAR 690-310-140 to determine whether the presumption is established. OAR 690-310-140 allows the proposed use be modified or conditioned to meet the presumption criteria. This review is based upon available information and agency policies in place at the time of evaluation. A. GENERAL INFORMATION: Applicant's Name:Nancy Kerkvliet County: Deschutes													
A1.	Applican	t(s) see	ek(s) <u>0.22</u>	cfs from	1	well(s) in the	Ι	Deschutes				Basin,
	N	liddle I	Deschutes (D	eep Canyo	<u>n)</u>	subbas	sin						
A2.	A2. Proposed use <u>Nursery (28.53 acres)</u> Seasonality: <u>Year-Round; Proposed 75 AF/year</u>												
A3.	Well and	l aquife	r data (attac	h and num	iber logs fo	or existing	wells;	mark	proposed w	vells as such u	nder logi	d):	
Well	Logie	d	Applicant's Well #Proposed Aquifer*Proposed Rate(cfs)Location (T/R-S QQ-Q)Location, metes and bounds, e.g. 2250' N, 1200' E fr NW cor S 36								.g. 36		
1	PROPOS (DESC 62	SED 485*)	1			0.22	2	16.00S-10.00E- SE NE		30 FEET SOUTH AND 700 FEET WEST FROM NE CORNER, SECTION 1			EST 1
3													
* Alluviı	ım, CRB, H	Bedrock											
Well	Well Elev ft msl	First Wate ft bls	r SWL ft bls	SWL Date	Well Depth (ft)	Seal Interval (ft)	Casin Interv (ft)	ng rals	Liner Intervals (ft)	Perforations Or Screens (ft)	Well Yield (gpm)	Draw Down (ft)	Test Type
1	3250	295	298	2/2/2021	495	0-18.5	+1.5-1	8.3	0-493	447-495	85	-	A
Use data	from appli	cation fo	or proposed w	vells.									
A4.	Commen POD in I	n ts: <u>*</u> A Februar	<u>v. 2021. Thi</u>	DESC 6248 s review as	<u>35 – attache</u> sumes that	<u>d) has bee</u> this new w	<u>n drilleo</u> ell was	<u>l on tl</u> drille	he taxlot and d for this pe	<u>l very near the</u> rmit. If it is not	proposed intended	location of to be use	<u>of the</u> ed for
	this perm	nit, the	location and	depth prov	ide exceller	nt estimate	s for the	e abov	ve table.				
A5. A Provisions of the Deschutes (OAR 690-505) Basin rules relative to the development, classification and/or													

management of groundwater hydraulically connected to surface water \boxtimes are, or \square are not, activated by this application. (Not all basin rules contain such provisions.) Comments: The proposed use is within the Deschutes Groundwater Study Area and subject to OAR 690-505 rules.

A6. Well(s) # _____, ____, ____, tap(s) an aquifer limited by an administrative restriction. Name of administrative area: ______Comments: ______

B. GROUNDWATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070

- B1. **Based upon available data**, I have determined that <u>groundwater</u>* for the proposed use:
 - a. is over appropriated, is not over appropriated, *or* is cannot be determined to be over appropriated during any period of the proposed use. * This finding is limited to the groundwater portion of the over-appropriation determination as prescribed in OAR 690-310-130;
 - b. **will not** *or* **will** likely be available in the amounts requested without injury to prior water rights. * This finding is limited to the groundwater portion of the injury determination as prescribed in OAR 690-310-130;
 - c. \Box will not or \Box will likely to be available within the capacity of the groundwater resource; or
 - d. 🛛 will, if properly conditioned, avoid injury to existing groundwater rights or to the groundwater resource:
 - The permit should contain condition #(s) <u>7N (Annual SWL); 7J (Scenic);</u>
 - Medium Water-Use Reporting
 - ii. \Box The permit should be conditioned as indicated in item 2 below.
 - iii. \Box The permit should contain special condition(s) as indicated in item 3 below;

B2. a. Condition to allow groundwater production from no deeper than ______ ft. below land surface;

- b. Condition to allow groundwater production from no shallower than ______ ft. below land surface;
- c. Condition to allow groundwater production only from the groundwater reservoir between approximately______ft. and______ft. below land surface;
- d. **Well reconstruction** is necessary to accomplish one or more of the above conditions. The problems that are likely to occur with this use and without reconstructing are cited below. Without reconstruction, I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Groundwater Section.

Describe injury –as related to water availability– that is likely to occur without well reconstruction (interference w/ senior water rights, not within the capacity of the resource, etc):

B3. Groundwater availability remarks:

C. GROUNDWATER/SURFACE WATER CONSIDERATIONS, OAR 690-09-040

Consideration of impacts to surface water are addressed in the Deschutes Basin Rules: OAR 690-505

C6. SW / GW Remarks and Conditions:

References Used:

Gannett, M. W. and K. E. Lite. 2004. Simulation of Regional Ground-Water Flow in the Upper Deschutes Basin, Oregon. USGS Water Resources Investigations Report 2003-4195

Gannett, M. W. and K. E. Lite. 2013. Analysis of 1997-2009 Groundwater Level Changes in the Upper Deschutes Basin, Central Oregon. USGS Scientific Investigations Report 2013-5092

Gannett, M. W., Lite, K. E., Risley, J. C., Pischel, E. M., and J. L. LaMarche. 2017. Simulation of Groundwater and Surface-Water Flow in the Upper Deschutes Basin, Oregon. USGS Scientific Investigations Report 2017-5097

Lite, K. E. and M. W. Gannett. 2002. Geologic Framework of the Regional Ground-Water Flow System in the Upper Deschutes Basin, Oregon. USGS Water-Resources Investigations Report 02-4015

Sherrod, D. R., Taylor, E. M., Ferns, M. L., Scott, W. E., Conrey, R. M., and G. A. Smith. 2004. Geologic Map of the Bend 30- X 60-Minute Quadrangle, Central Orgon. USGS Geologic Investigations Series Map I-2683

OWRD Well Log Database, Accessed 11/16/2021 [https://apps.wrd.state.or.us/apps/gw/well log/Default.aspx]

OWRD Groundwater Information System Database, Accessed 11/16/2021 [https://apps.wrd.state.or.us/apps/gw/gw_info/gw_info_report/gw_search.aspx]

D. WELL CONSTRUCTION, OAR 690-200

D1. Well #: 1 Logid: DESC 62485

D2. THE WELL does not appear to meet current well construction standards based upon:

- a. \Box review of the well log;

d. other: (specify) <u>DESC 62485 was drilled in the approximate location of the proposed POA and is likely</u> the proposed source for this application and should be reviewed as such.

D3. THE WELL construction deficiency or other comment is described as follows:

D4. 🖄 Route to the Well Construction and Compliance Section for a review of existing well construction.

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Water Availability Tables

DETAILED REPORT ON THE WATER AVAILABILITY CALCULATION DESCHUTES R > COLUMBIA R - AB SHITIKE CR Watershed ID #: 30530643 Basin: DESCHUTES Exceedance Level: 8 Deschutes									
						Date: 11/10/2021			
Month	Natural	Consumptive	Expected	Reserved	Instream	Net			
	Stream	Use and	Stream	Stream	Requirements	Water			
	F.Tom	Storage	Flow	F.Tom		Available			
			Monthly values a	are in cfs.					
		Storage is	the annual amount at	t 50% exceedance :	in ac-ft.				
JAN	4,310.00	642.00	3,670.00	119.00	4,500.00	-951.00			
FEB	4,540.00	700.00	3,840.00	119.00	4,500.00	-779.00			
MAR	5,040.00	1,050.00	3,990.00	119.00	4,500.00	-627.00			
APR	5,270.00	1,150.00	4,120.00	119.00	4,000.00	-0.18			
MAY	5,180.00	1,170.00	4,010.00	119.00	4,000.00	-107.00			
JUN	4,840.00	1,240.00	3,600.00	119.00	4,000.00	-522.00			
JUL	4,090.00	1,020.00	3,070.00	119.00	4,000.00	-1,050.00			
AUG	3,880.00	892.00	2,990.00	119.00	3,500.00	-631.00			
SEP	3,990.00	765.00	3,230.00	119.00	3,800.00	-694.00			
OCT	4,070.00	775.00	3,300.00	119.00	3,800.00	-624.00			
NOV	4,130.00	837.00	3,290.00	119.00	3,800.00	-626.00			
DEC	4,230.00	759.00	3,470.00	119.00	4,500.00	-1,150.00			
ANN	3,620,000	665 , 000	2,960,000	86,200	2,950,000	119,000			

Water-Level Measurements in Nearby Wells



Well Location Map



7

							Page 1 of 2
STATE OF OREGON	DESC	62485	WELLI	.D. LABEL	# L 1411	43	
WATER SUPPLY WELL REPORT	2/24	2021	STA	ART CARD	# 1050	604	
(as required by ORS 537.765 & OAR 690-205-0210)	2/24/	2021	ORIG	INAL LOG	#		
(1) LAND OWNER Owner Well I.D.							
Company BRYAN MILLER		(9) LOCATI	ON OF W	ELL (lega	l descri	ption)	
Address 4364 NW HONEY SUCKLE DR		County DESCHUT	Twp_	16.00 S	N/S R	ange 10.00	E E/W WM
City CORVALLIS State OR Zip 97330	_	Sec 1 SI	E 1/4 c	of the <u>NE</u>	1/4	Tax Lot 19	500
(2) TYPE OF WORK New Well Deepening Conve	ersion	Tax Map Number	· <u> </u>	44 21860	803	Lot	DMS or DD
Alteration (complete 2a & 10) Abandonment(con	mplete 5a)	Lat		or 44.21800	803		DMS or DD
(2a) PRE-ALTERATION		Long	et address of	well O	Nearest ad	ldress	DMS of DD
		66595 SISEMO	RE ROAD B	END OR			
Material From To Amt sacks/lbs							
Seal:		(10) 67 1710	NU A TERM	TRUCT			
(3) DRILL METHOD		(10) STATIC	WATER	LEVEL	ate SV	VI (nei) 🚽	SWI (6)
		Existing Wel	I / Pre-Alten	ation			SWL(II)
Reverse Rotary Other		Completed W	Vell	2/2/202	1		298
(4) PROPOSED USE Domestic Irrigation Community			Flowin	g Artesian?	Dr	y Hole?	
Industrial/ Commericial Livestock Dewatering		WATER BEARIN	G ZONES	Depth	water wa	s first found	295.00
Thermal Injection Other TEST IRRIGATION		SWL Date	From	То	Est Flow	SWL(psi)	+ SWL(ft)
(5) BORE HOLE CONSTRUCTION Special Standard (A	ttach copy)	2/2/2021	295	493	150		298
Depth of Completed Well 493.00 ft.							
BORE HOLE SEAL	sacks/						
14 0 185 Bentonite 0 185	Int Ibs						
10 18.5 500 Calculated 12	2.54						
		(1) WELL L	06				
	-	(II) WELL L		Ground Eleva	tion		
How was seal placed: Method A B C D	Е	Top soil Brown	Material			From	
Backfill placed from \hat{H} to \hat{H} Material		Gravel Congl Bro	own			2	8
Filter pack fromft. toft. Material Size		Pink- Red rock h	ard		8	32	
Explosive weet Ves Type Amount		Brown SS Tuff	44			32	50
(5a) A BANDONMENT USING UNUVDBATED BENTONIT	CIC.	Brown-tan SS tut	ff			50	140
Proposed Amount Actual Amount		Lava rock brown	rav			140	150
(C) CASINC/LINED		Lava Rock Hard	Gray Brown	marron		180	250
Casing Liner Dia + From To Gauge Stl Plste V	Wld Thrd	Brown Marron S	S Tuff Cong			250	280
O 10 X 1.5 18.5 .250 O O	\boxtimes	Lava rock	Brown			280	295
		Lava rock Gray M	Midd			305	355
	ΗН	Lava rock Broken Midd Congl Brown				355	380
	ΗН	Brown Marron S	S Tuff Cong			380	390
Shoe Inside Outside Other Location of shoe(s)		Brown lava rock Brown SS Tuff	Congl	430	430		
Temp casing Ves Dia From +		Cinder lava cavin	ig Congl		470	500	
(7) PERFORATIONS/SCREENS							
Perforations Method FACTORY CUT	_						
Screens Type Material		Date Started 1/	29/2021	Co	mpleted	2/2/2021	
Perf/ Casing/Screen Scm/slot Slot # of Screen Liner Dia Econo To width leasth slots	Tele/	(unbonded) Wa	ter Well Co	nstructor Cer	tification		
Perf Liner 8 447 493 .125 3 1872	pape and	I certify that the	work I per	formed on the	construct	tion, deepen	ing, alteration, or
		abandonment of	f this well	is in complia	nce with	Oregon w	ater supply well
	+	the best of my ke	idards. Mate	rials used and belief	informat	ion reported	above are true to
	+	License Number	towieuge and	r bener.	Date		
(8) WELL TESTS: Minimum testing time is 1 hour		and an a second a sec			-		
(6) WELL TESTS: Minimum testing time is Thour	rtesian	Signed					
Vield cal/min Drawdown Drill dow/Burns doub Direction (b	r)	(bonded) Water	Well Const	ructor Certifi	cation		
85 470 1	.,	I accept responsi	ibility for th	e construction	deepenin	ng, alteration	n, or abandonment
		work performed	on this well o	luring the con-	truction d	lates reported	d above. All work
		performed durin	g this time	is in compli	ance with	Oregon w	ater supply well
Temperature 52 °F Lab analysis Yes By		construction stand	dards. This i	report is true to	o the best	or my knowl	edge and belief.
Water quality concerns? Yes (describe below) TDS amount 45 From To Description Amount	ppm Units	License Number	1970		Date 2/2	4/2021	
		Signed NEIL	FAGEN (E-4	iled)			
		Contact Info (opt	ional) 541-5	48-1245			
		CRARTACINT					
ORIGINAL - WATER RES THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES	DEPARTM	EPARTMENT IENT WITHIN 301	DAYS OF C	OMPLETION	OF WOR	K Form V	ersion:
The first offers the second state of the writer resources							