



DESIGN → PERMIT → MANAGE

February 8, 2024

Malissa Paulsen, City Planner  
City of Chehalis  
mpaulsen@ci.chehalis.wa.us

Re: Shovel Ready LLC SEPA-23-007 – CARA Memo  
RBE NO. 21081

Dear Malissa,

The above referenced project was submitted for Land Use on November 14<sup>th</sup>, 2023. We received a Notice of Incomplete Application on January 29<sup>th</sup>, 2024, requesting additional information regarding the onsite mapped Category I Critical Aquifer Recharge Area. Below is our response to that request:

The west side of the site has some overlapping mapped Category I CARAs, as shown on the attached map. Per CMC Chapter 17.26, activities may only be permitted in a critical aquifer recharge area if the community development director determines that the proposed activity will not cause contaminants to enter the critical aquifer, and that the proposed activity will not adversely affect the recharging of the critical aquifer. The site will collect stormwater runoff from the site's impervious surfaces and treat them with manufactured treatment devices before being conveyed to a new stormwater detention pond. The treatment basins will meet the enhanced treatment criteria and will ensure that no contaminants enter the aquifer. The development will utilize appropriate BMPs during construction to ensure no contaminants enter the aquifer. In addition, none of the activities associated with the project are listed under "Prohibited Activities" per CMC Chapter 17.26.040. All onsite stormwater will be managed to meet WSDOE standards for both water quality and quantity.

In addition to the above information, RB Engineering conducted research into the sources of the mapped CARAs. The two CARAs are the result of the 5-to-10-year travel zones for two nearby wells, located at 1696 and 1722 Bishop Rd (shown on attached map). The attached DOH Record shows that the well located at 1696 Bishop Rd was decommissioned in 2011. The attached well log for 1722 Bishop Rd shows impervious clay and cemented gravel layers from 21 to 55 feet. This, in combination with the fact that the site will discharge stormwater to the north and away from the wellhead, ensures that the development will not impact the CARA of these water wells.

Sincerely,

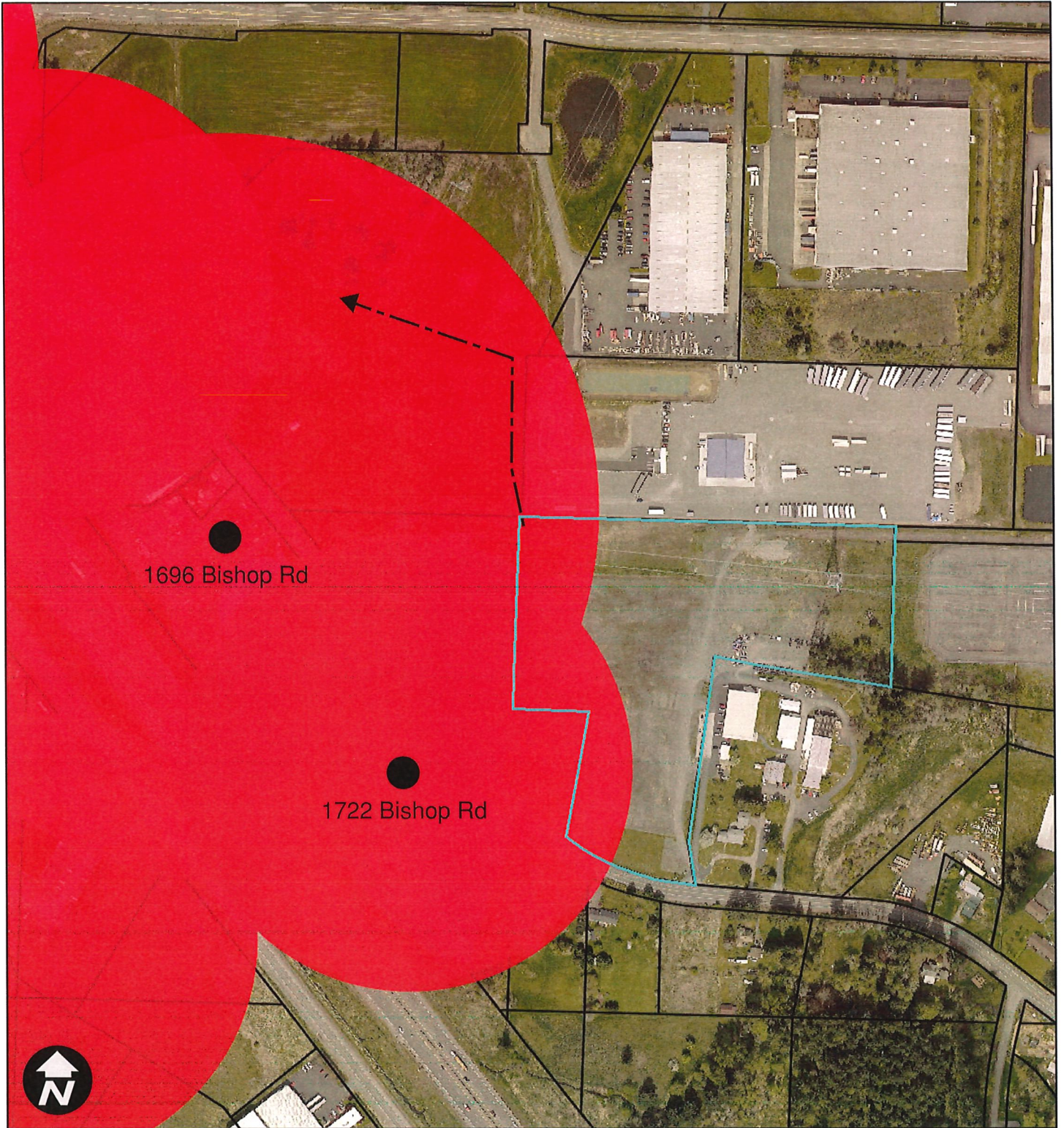
A handwritten signature in blue ink, appearing to read 'Zachary Wirkkala', written over a light blue horizontal line.

Zachary Wirkkala, EIT  
Engineer in Training

Enclosure: LC GIS Mapped CARA  
1696 Bishop Rd DOH Decommission Report  
1722 Bishop Rd Well Log



# Lewis County GIS Web Map



2/6/2024, 2:38:42 PM


1:4,514

 CARA Category I

### CARA Soils

 Category II

 Category III

 Parcels

0 205 410 820 ft

NAD 1983 StatePlane Washington South FIPS 4602 Feet



Lewis County does not guarantee the accuracy of the information shown on this map and is not responsible for any use or misuse by others regarding this material. It is provided for general informational purposes only. This map does not meet legal, engineering, or survey standards. Please practice due diligence and consult with licensed experts before making decisions.

The Department of Ecology does NOT Warrant the Data and/or the Information on this Well Report.

Please print, sign and return to the Department of Ecology

# RESOURCE PROTECTION WELL REPORT

CURRENT Notice of Intent No. AE12726

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Construction/Decommission ("x" in box)

Construction  
 Decommission 444414

Type of Well ("x" in box)

Resource Protection  
 Geotech Soil Boring

ORIGINAL INSTALLATION Notice of Intent Number:

SE09464

Property Owner Bill & Ann Thompson

Site Address 1696 Bishop Road

Consulting Firm PBS

City Chehalis County Lewis

Unique Ecology Well IDTag No. \_\_\_\_\_

Location NW1/4-1/4 SW1/4 Sec 10 Twn 13N R 02

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

EWM  or WWM

Lat/Long (s, t, r) Lat Deg \_\_\_\_\_ Min \_\_\_\_\_ Sec \_\_\_\_\_

still REQUIRED) Long Deg \_\_\_\_\_ Min \_\_\_\_\_ Sec \_\_\_\_\_

Tax Parcel No. 017766000.000

Driller  Engineer  Trainee

Name (Print Last, First Name) Johnson, Marcus

Driller/Engineer /Trainee Signature [Signature]

Driller or Trainee License No. 3040

Cased or Uncased Diameter 2.25 Static Level N/A

Work/Decommission Start Date 4/4/2011

Work/Decommission Completed Date 4/4/2011

If trainee, licensed driller's Signature and License Number:

Construction Design

Well Data

Formation Description

	<p>BH-4 backfilled to surface w/ 3/8 bentonite chips</p>	<p>0-5 bentonite chips</p> <p>RECEIVED MAY 19 2011 WA State Department of Ecology (SWRO)</p> <p>RECEIVED APR 25 2011 WA State Department of Ecology (SWRO)</p>
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SCALE: 1"= \_\_\_\_\_ PAGE \_\_\_\_\_ OF \_\_\_\_\_



**WATER WELL REPORT**  
**STATE OF WASHINGTON**

Application No. ....

Permit No. ....

(1) **OWNER:** Name ARTHUR E. WEBB Address BISHOP RD CHEHALIS

(2) **LOCATION OF WELL:** County LEWIS PART - SW 1/4 SW 1/4 Sec. 11 T. 13 N. R. 2 W.M.

Bearing and distance from section or subdivision corner

(3) **PROPOSED USE:** Domestic  Industrial  Municipal   
Irrigation  Test Well  Other

(4) **TYPE OF WORK:** Owner's number of well (if more than one) \_\_\_\_\_  
New well  Method: Dug  Bored   
Deepened  Cable  Driven   
Reconditioned  Rotary  Jetted

(5) **DIMENSIONS:** Diameter of well 6 inches  
Drilled 63 ft. Depth of completed well 60 ft.

(6) **CONSTRUCTION DETAILS:**

Casing installed: 4 " Diam. from 0 ft. to 60 ft.  
Threaded  " Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Welded  " Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Perforations: Yes  No   
Type of perforator used \_\_\_\_\_  
SIZE of perforations \_\_\_\_\_ in. by \_\_\_\_\_ in.  
\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Screens: Yes  No   
Manufacturer's Name \_\_\_\_\_  
Type \_\_\_\_\_ Model No. \_\_\_\_\_  
Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Gravel packed: Yes  No  Size of gravel: \_\_\_\_\_  
Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Surface seal: Yes  No  To what depth? 21 ft.  
Material used in seal BENTONITE  
Did any strata contain unusable water? Yes  No   
Type of water? \_\_\_\_\_ Depth of strata \_\_\_\_\_  
Method of sealing strata off \_\_\_\_\_

(7) **PUMP:** Manufacturer's Name \_\_\_\_\_  
Type: \_\_\_\_\_ H.P. \_\_\_\_\_

(8) **WATER LEVELS:** Land-surface elevation \_\_\_\_\_ ft.  
above mean sea level \_\_\_\_\_ ft.  
Static level 12 ft. below top of well Date JULY 2  
Artesian pressure \_\_\_\_\_ lbs. per square inch Date \_\_\_\_\_  
Artesian water is controlled by \_\_\_\_\_ (Cap, valve, etc.)

(9) **WELL TESTS:** Drawdown is amount water level is lowered below static level

Was a pump test made? Yes  No  If yes, by whom? \_\_\_\_\_  
Yield: \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test \_\_\_\_\_  
Ballor test 15 gal./min. with 30 ft. drawdown after 3 hrs.  
Artesian flow \_\_\_\_\_ g.p.m. Date \_\_\_\_\_  
Temperature of water \_\_\_\_\_ Was a chemical analysis made? Yes  No

(10) **WELL LOG:**

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
<u>Yellow CLAY + Boulders</u>	<u>0</u>	<u>15</u>
<u>Sand</u>	<u>15</u>	<u>21</u>
<u>Yellow CLAY + GRAVEL</u>	<u>21</u>	<u>35</u>
<u>Compacted Sand + GRAVEL</u>	<u>35</u>	<u>55</u>
<u>Sand with water</u>	<u>55</u>	<u>58</u>
<u>Gravel</u>	<u>58</u>	<u>60</u>
<u>Blue CLAY</u>	<u>60</u>	<u>60</u>

RECEIVED

JAN 17 2019

WA State Department of Ecology (SWRO)

RECEIVED  
JUL 19 1974

DEPARTMENT OF ECOLOGY  
SOUTHWEST REGIONAL OFFICE

Work started June 27, 1974 Completed July 2, 1974

**WELL DRILLER'S STATEMENT:**

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Mowrey Pump & Drilling  
(Person, firm, or corporation) (Type or print)

Address RT 5 Box 820 Chehalis

[Signed] Therly L. Gann  
(Well Driller)

License No. 0151 Date July 3, 1974

(USE ADDITIONAL SHEETS IF NECESSARY)