



NOTICE OF PUBLIC HEARING
THE MUNICIPAL DISTRICT OF WILLOW CREEK NO. 26
IN THE PROVINCE OF ALBERTA

PROPOSED LAND USE BYLAW AMENDMENT
RECONVENE, Wednesday, February 12, 2020 at 1:00 p.m.

at

The Municipal District of Willow Creek No. 26, Council Chambers

PURSUANT to sections 230, 606, and 692 of the Municipal Government Act, Statutes of Alberta, Chapter M-26, 2000, as amended, the Council of the Municipal District of Willow Creek No. 26 in the Province of Alberta hereby gives notice of its intention to consider adoption of **proposed Bylaw No. 1849 to amend Land Use Bylaw No. 1826.**

THE PURPOSE of the proposed land use bylaw amendment is to enable an application, submitted by landowners Allan and Sharlene Orr, to redesignate 10.01 acre parcel of the following titled parcel of land:

- Lot 1; Block 1; Plan 9911001 (Ptn. SE 24-09-25-W4M)

(as shown on the map in Schedule A), from 'Rural General – RG' to 'Rural Recreational – RR'. The redesignation will allow for a development application for proposed RV Park Campground.

THEREFORE, TAKE NOTICE THAT a public hearing to contemplate the proposed land use bylaw amendment will be held in the Municipal District of Willow Creek No. 26 Council Chambers at **1:00 p.m., on the 12th day of February, 2020.**

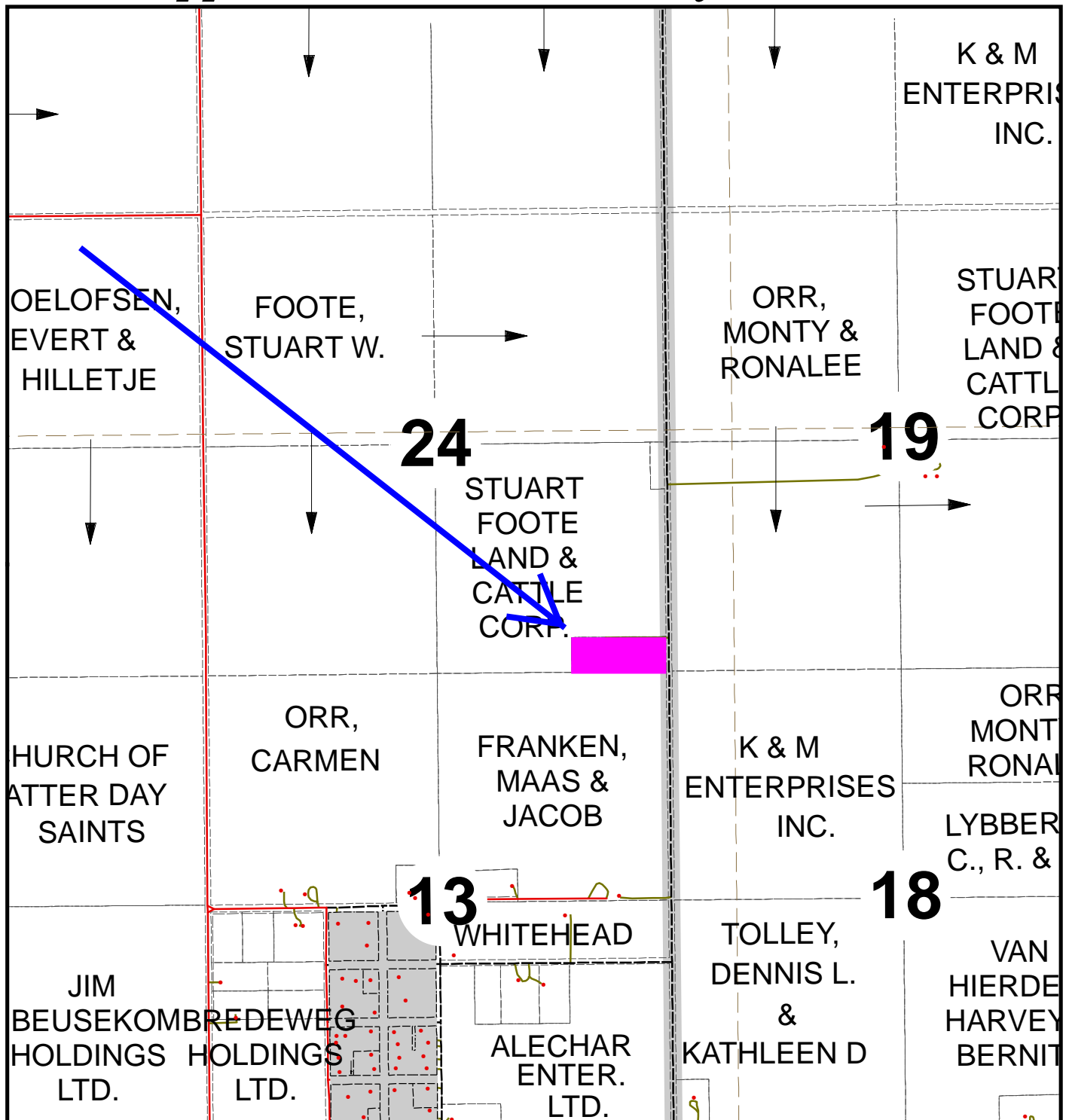
AND FURTHER TAKE NOTICE THAT documents relating to this matter may be viewed on the Municipal District's website or inspected at the Municipal District Administration Office, 273129 Hwy 520 West, Claresholm, during normal business hours. Both written and/or verbal presentations may be given at the public hearing. Written submissions are to be forwarded to the Manager of Planning & Development Services at Box 550, Claresholm, Alberta, T0L 0T0 or via email at development@mdwillowcreek.com, **no later than 4:00 p.m. on the 7th day of February, 2020.** Any information submitted will become available to the public and is subject to the provisions of the Freedom of Information and Protection of Privacy Act (FOIP).

DATED at the Town of Claresholm in the Province of Alberta this 24th day of January, 2020.

Cindy Chisholm
Manager of Planning & Development
MD of Willow Creek No. 26

LAND USE BYLAW AMENDMENT

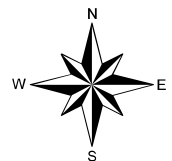
Application No. A-06-19 / Bylaw No. 1849



..... SCHEDULE 'A'



LAND USE BYLAW AMENDMENT FROM:
 'RURAL GENERAL-RG' to 'RURAL RECREATIONAL-RI'
 LOT 1; BLOCK 1; PLN 9911001 (PTN. SE 24-09-25-W4M)
 10.01 ACRES



Date: NOVEMBER 20, 2019

**Waskasoo Hydrogeological Services
33 Roland Street
Red Deer, AB T4P 3K9**

11 January, 2020

Ms. Cindy Chisholm
Manager of Planning and Development
M.D. of Willow Creek No. 26
P.O. Box 550
Claresholm, AB T0L 0T0

RE: Application for development, Country Oasis RV Park, Orton, AB

Dear Ms. Chisholm:

I have been retained as a professional hydrogeologist on behalf of **Country Oasis RV Park**, to evaluate the supply of water for this proposed development.

I was born in Cardston, and received my Ph.D. in Hydrogeology after some years of professional work from Brigham Young University in 1970. I have been a member in good standing of the Association of Professional Engineers and Geoscientists of Alberta since April 24, 1964. My assignments during my career have permitted me to complete projects in nine provinces and territories of Canada, as well as 14 other nations in Asia, Africa and Latin America. In addition to having been employed by Alberta Environment in the past, I am frequently asked to evaluate groundwater supplies so they can be licensed by Environment on behalf of my clients.

During the Pleistocene era, almost all of Canada was covered by ice, similar to Greenland or Antarctica today. However, before that time, there were rivers draining the Rocky Mountains and the great plains of what is now Canada, just as today. After the glaciers receded, the rivers re-established themselves, but not necessarily in the same locations as their pre-glacial counterparts. One of the largest of these pre-glacial rivers has been identified as having flowed under the location of present-day Orton and eastward toward Lethbridge. Geologists call this the Lethbridge Valley. The alluvial gravel and sand left behind in this valley today constitute one of the most important aquifers in Alberta. The attached map shows its location. The presence of this aquifer is proving to be of great economic value to those organizations and individuals who are located above it.

The procedures used to evaluate aquifers in order to obtain a diversion license for groundwater are spelled out in a document entitled **"Alberta Environment Guide to Groundwater Authorization** (March, 2013). It is readily available on the Government of Alberta website. On

Orton Hamlet

Production well and Country Oasis RV Park

Legend

3

COUNTRY OASIS RV PARK

SOURCE WELL

ORTON

Google Earth

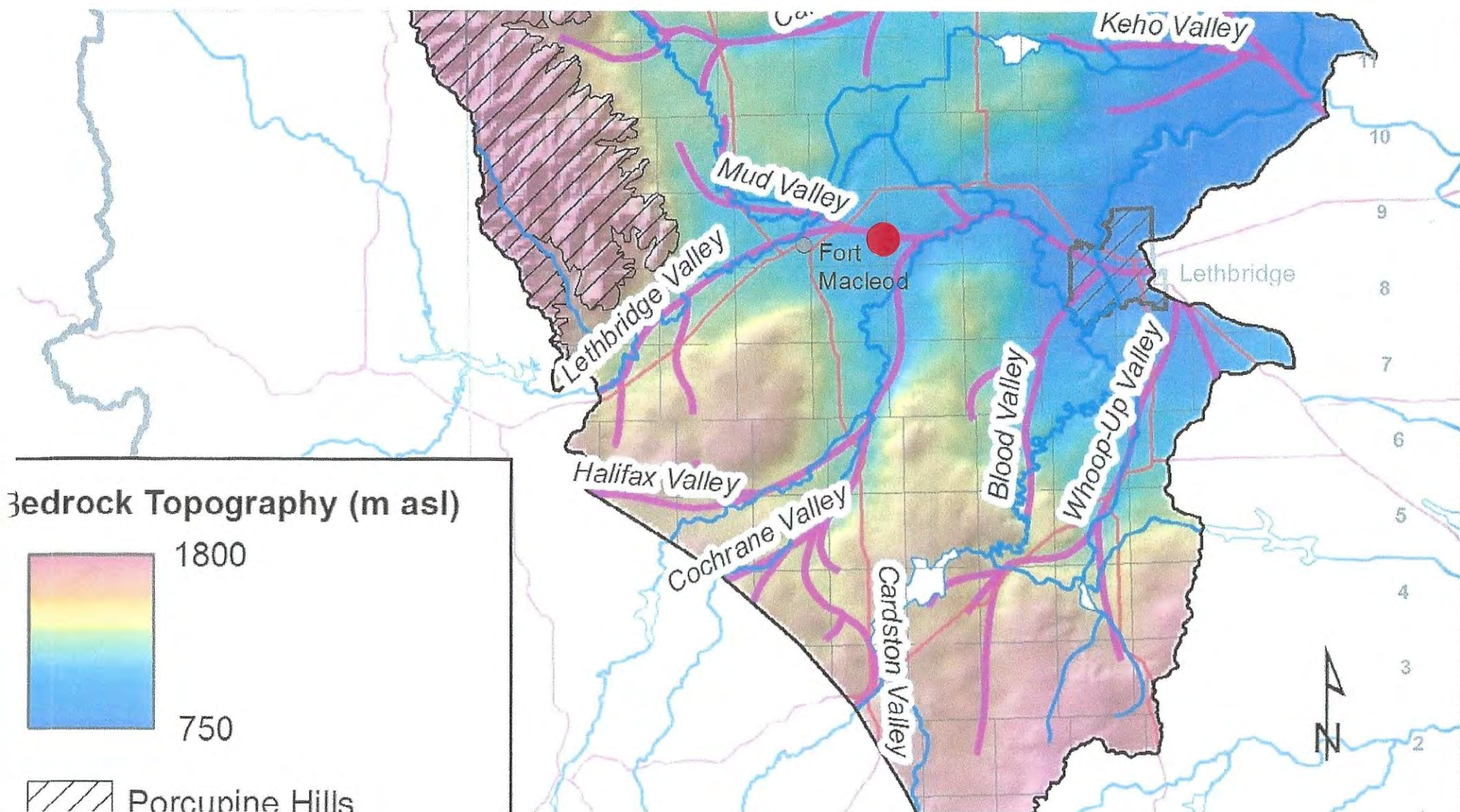
© 2018 Google

Image © 2019 CNES / Airbus

Image S. Alberta MDs and Counties

3 km





page 5, Section 2.2, this document specifies the steps necessary to apply for a license to divert less than 3650 cubic metres of water per year (ie, less than 10 cubic metres per day). It states that the applicant need not submit a full professional hydrogeological report, as is the case for larger diversions. All that is needed is the driller's report, including a test of two hours minimum of the productive capacity of the well, plus a full physico-chemical water analysis plus all the application forms.

The annual water demand for this facility has been calculated by two methods. The first is an extrapolation of demand based on metered consumption at a similar facility at Glenwood. This RV park uses an average annual demand of 1287 cubic metres of water, as metered by the Village of Glenwood which sells them the water

The other method is the one used by Alberta Environment. In this method, the number of lots in a proposed facility is multiplied by 180 L/day, times the resultant amount for 153 days per year, or 2754 cubic metres per year. This calculation assumes full occupancy during the entire tourist season, a situation which would delight the owners, but is unrealistic. Whichever method is used, the end result is well below the threshold of 3650 cubic metres per year.

The next task was to assure that the proposed water source is capable of producing up to 2754 cubic metres per year. Again, Alberta Environment's reference manual provides the calculation necessary on pages 12 and 13, Section 2.3 **Aquifer test data interpretation**. Two formulae are proposed, but I prefer the second, as it is more conservative and hence more realistic. It is given as follows:

$$Q_{20} = \frac{(0.7)(Q)(H_a)}{S_{100m} + (S_{20y} - S_{100m})\text{theor}}$$

Q_{20} = 20 year sustainable yield of the well, in cubic metres per day

0.7 = a factor to account for unknown variables which could reduce the discharge rate

Q = pumping rate of the aquifer test, in cubic metres per day

H_a = Available head, ie, head difference between non-pumping water level and top of aquifer or well screen, in metres

S_{100m} = drop in water level after 100 minutes of pumping during the test, in metres

S_{20y} = calculated/estimated drop in water level after 20 years or 7 log cycles of time, in m

Some of these parameters are derived from the well driller's report, and some from the attached plot of the aquifer test carried out on 9 January, 2020. This test of the supply well was carried out strictly following the prescribed methods, at 35.5 US gallons per minute, equal to 171 cubic metres per day. The calculation for the twenty year safe yield was as follows:

$$Q_{20} = \frac{(0.7)(171)(27.3)}{0.055 + (0.103 - 0.55)}$$

The data contained in this report is supplied by the Driller. The province disclaims responsibility for its accuracy.

Pink copy: Contractor

Waskasoo Hydrogeological Services
33 Roland Street
Red Deer, Alberta T4P 3K9
Tel. 403-755-9263

Pumping Test - Water Level Data

Page 1 of 1

Project: Country Oasis RV Park Water Supply

Number: 19-14

Client: Country Oasis RV Park

Location: NE-13-9-25-W.4

Pumping Test: Test of Water Supply

Pumping Well: Well 1

Test Conducted by: Allan Orr

Test Date: 09/01/2020

Discharge: variable, average rate 171 [m³/d]

Observation Well: Well 1

Static Water Level [m]: 26.04

Radial Distance to PW [m]: -

	Time [min]	Water Level [m]	Drawdown [m]
1	1	26.07	0.035
2	2	26.072	0.037
3	3	26.072	0.037
4	4	26.072	0.037
5	5	26.073	0.038
6	6	26.074	0.039
7	7	26.074	0.039
8	8	26.0745	0.0395
9	9	26.075	0.04
10	10	26.0775	0.0425
11	12	26.076	0.041
12	14	26.077	0.042
13	16	26.077	0.042
14	18	26.077	0.042
15	20	26.078	0.043
16	25	26.079	0.044
17	30	26.078	0.043
18	35	26.079	0.044
19	40	26.079	0.044
20	50	26.08	0.045
21	60	26.081	0.046
22	75	26.082	0.047
23	90	26.083	0.048
24	105	26.084	0.049
25	120	26.085	0.05
26	150	26.083	0.048
27	180	26.089	0.054
28	240	26.094	0.059
29	300	26.1034	0.0684
30	360	26.102	0.067
31	420	26.103	0.068
32	421	26.07	0.035
33	422	26.069	0.034
34	423	26.068	0.033
35	424	26.067	0.032
36	425	26.066	0.031
37	426	26.065	0.03
38	427	26.065	0.03
39	428	26.064	0.029
40	429	26.064	0.029
41	430	26.063	0.028
42	431	26.062	0.027
43	432	26.0615	0.0265
44	433	26.0615	0.0265
45	434	26.061	0.026
46	435	26.059	0.024
47	436	26.058	0.023
48	437	26.056	0.021
49	438	26.056	0.021
50	439	26.056	0.021

Waskasoo Hydrogeological Services
33 Roland Street
Red Deer, Alberta T4P 3K9
Tel. 403-755-9263

Pumping Test Analysis Report

Project: Country Oasis RV Park Water Supply

Number: 19-14

Client: Country Oasis RV Park

Location: NE-13-9-25-W.4

Pumping Test: Test of Water Supply

Pumping Well: Well 1

Test Conducted by: Allan Orr

Test Date: 09/01/2020

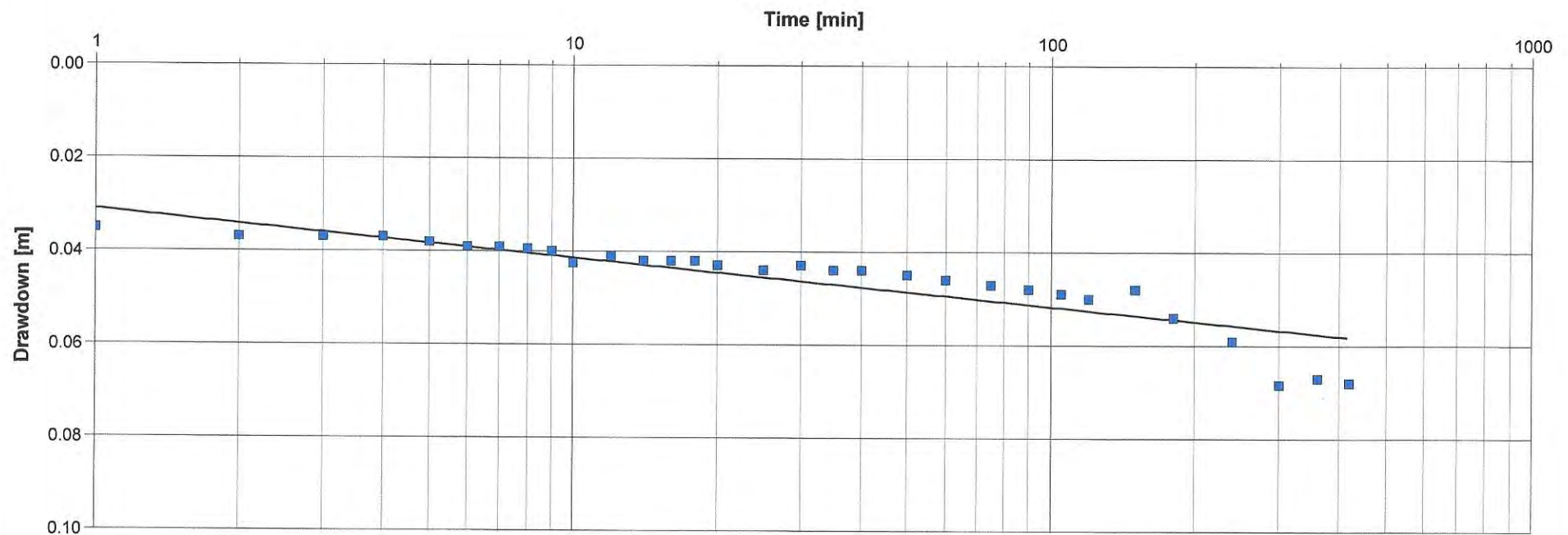
Analysis Performed by: Grant Nielsen

Sort Test of Production Well

Analysis Date: 10/01/2020

Aquifer Thickness: 5.20 m

Discharge: variable, average rate 171 [m³/d]



Calculation using Theis

Observation Well	Transmissivity [m²/d]	Hydraulic Conductivity [m/d]	Storage coefficient	Radial Distance to PW [m]	
Well 1	3.01×10^3	5.79×10^2		0.07	

Waskasoo Hydrogeological Services
33 Roland Street
Red Deer, Alberta T4P 3K9
Tel. 403-755-9263

Pumping Test Analysis Report

Project: Country Oasis RV Park Water Supply

Number: 19-14

Client: Country Oasis RV Park

Location: NE-13-9-25-W.4

Pumping Test: Test of Water Supply

Pumping Well: Well 1

Test Conducted by: Allan Orr

Test Date: 09/01/2020

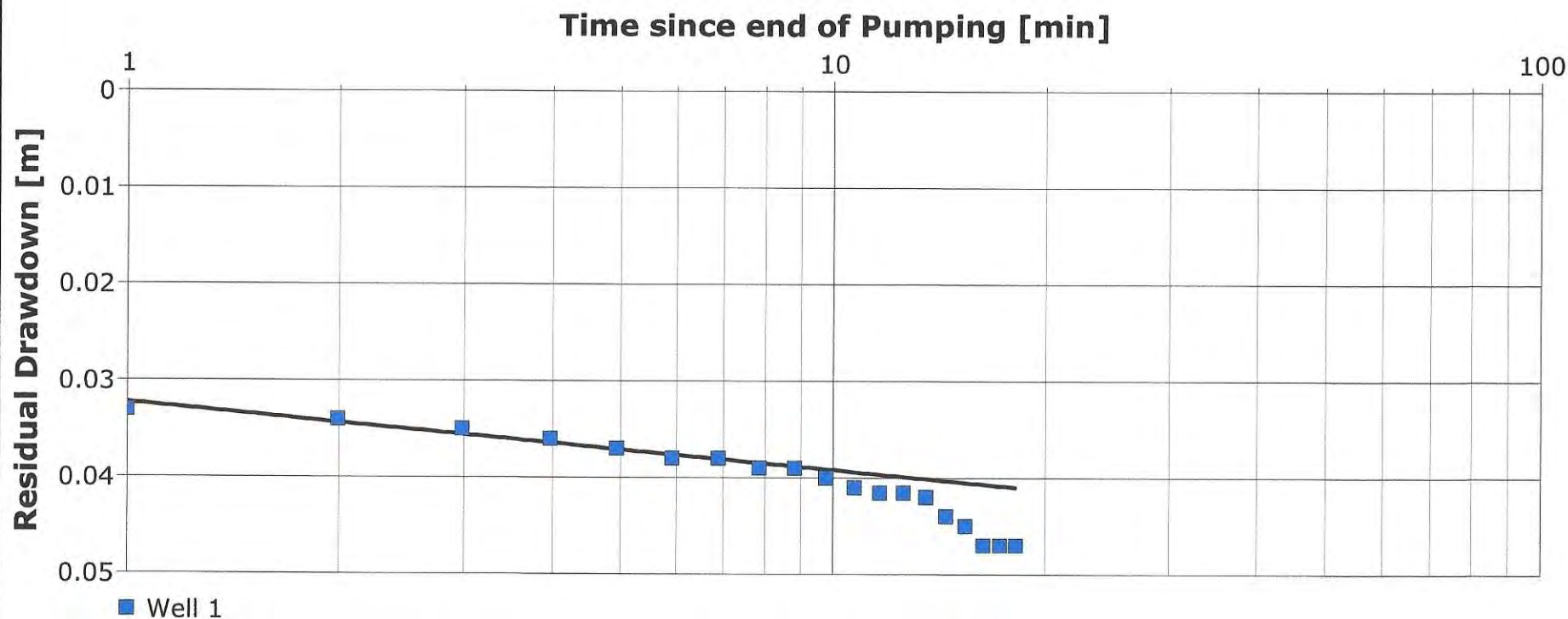
Analysis Performed by: Grant Nielsen

Recovery Phase of Test

Analysis Date: 10/01/2020

Aquifer Thickness: 5.20 m

Discharge: variable, average rate 171 [m³/d]



Calculation using AGARWAL + Theis

Observation Well	Transmissivity [m²/d]	Hydraulic Conductivity [m/d]	Storage coefficient	Radial Distance to PW [m]	
Well 1	4.52×10^3	8.68×10^2		0.07	

= 31726 cubic metres per day, or 4842 imperial gallons per minute.

It is obvious that this is a theoretical safe yield, as the construction of the well could not possibly produce such a discharge. Moreover, to extrapolate from a test of 35.5.5 gallons per minute to a prediction of 4842 gallons per minute is not advisable. Nevertheless, it is obvious that this well is easily capable of producing the required discharge. It should be noted also that an adjacent well, just 242 feet away, was measured during the test, and no impact was detected. Therefore, the impact of this pumping on the aquifer as a whole is of very minor importance.

A sample of the water was submitted to AGAT Laboratories, Calgary for physico-chemical quality analysis. AGAT is a major accredited lab with offices all across Canada. A separate sample was submitted for bacterial analysis to Alberta Health Services. All results are attached. The only parameter which exceeds standards of "**Guidelines for Canadian Drinking Water Quality**" (Health Canada, February, 2017) is iron, which is slightly high. Excessive iron is not toxic, but imparts a reddish stain to laundry, and plumbing facilities. It also causes a disagreeable taste. For these reasons, the applicant is planning to install treatment facilities for iron removal.

In summary, insofar as water supply is concerned, I have no qualms in recommending approval of this application. Please contact me should you have further concerns or questions in this regard.

Sincerely



Grant Nielsen,, P.Geo., Ph.D.
Waskasoo Hydrogeological Services.



CLIENT NAME: MISC AGAT CLIENT AB, AB

ATTENTION TO: Allan Orr

PROJECT: Well Water

AGAT WORK ORDER: 19C539413

WATER ANALYSIS REVIEWED BY: Jennifer Liu, Analyst

DATE REPORTED: Nov 12, 2019

PAGES (INCLUDING COVER): 12

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (403) 735-2005

***NOTES**

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.

AGAT Laboratories (V1)

Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

Page 1 of 12

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. Measurement Uncertainty is not taken into consideration when stating conformity with a specified requirement.

Results relate only to the items tested. Results apply to samples as received.
All reportable information as specified by ISO 17025:2017 is available from AGAT Laboratories upon request



AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 19C539413

PROJECT: Well Water

2910 12TH STREET NE
CALGARY, ALBERTA
CANADA T2E 7P7
TEL (403)735-2005
FAX (403)735-2771
<http://www.agatlabs.com>

CLIENT NAME: MISC AGAT CLIENT AB

SAMPLING SITE:

ATTENTION TO: Allan Orr

SAMPLED BY:

Routine Chemistry Water Analysis

DATE RECEIVED: 2019-11-04

DATE REPORTED: 2019-11-12

SAMPLE DESCRIPTION: Well Water

SAMPLE TYPE: Water

DATE SAMPLED: 2019-11-04
08:00

680173

Parameter	Unit	G / S	RDL	
pH	pH Units	7.0-10.5	N/A	8.30
p - Alkalinity (as CaCO ₃)	mg/L		5	<5
T - Alkalinity (as CaCO ₃)	mg/L		5	287
Bicarbonate	mg/L		5	349
Carbonate	mg/L		5	<5
Hydroxide	mg/L		5	<5
Electrical Conductivity	uS/cm		5	697
Chloride	mg/L	(250)	1	2
Fluoride	mg/L	1.5	0.01	0.18
Nitrate	mg/L	45	0.1	<0.1
Nitrate-N	mg/L	10	0.02	<0.02
Nitrite	mg/L	3	0.05	<0.05
Nitrite-N	mg/L	1	0.01	<0.01
Nitrate+Nitrite - Nitrogen	mg/L		0.02	<0.02
Sulfate	mg/L	(500)	1	98
Dissolved Calcium	mg/L		0.3	9.1
Dissolved Magnesium	mg/L		0.2	3.5
Dissolved Sodium	mg/L	(200)	0.6	150
Dissolved Potassium	mg/L		0.6	1.2
Dissolved Iron	mg/L	(0.3)	0.1	0.4
Dissolved Manganese	mg/L	0.12 (0.02)	0.005	0.061
Sodium Adsorption Ratio				10.7
Calculated TDS	mg/L		0.6	435
Hardness	mg CaCO ₃ /L		1	37
Ion Balance	%		1	93

Certified By:



AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 19C539413

PROJECT: Well Water

2910 12TH STREET NE
CALGARY, ALBERTA
CANADA T2E 7P7
TEL (403)735-2005
FAX (403)735-2771
<http://www.agatlabs.com>

CLIENT NAME: MISC AGAT CLIENT AB

SAMPLING SITE:

ATTENTION TO: Allan Orr

SAMPLED BY:

Metals - Total - Alberta Tier 1 + TP

DATE RECEIVED: 2019-11-04

DATE REPORTED: 2019-11-12

SAMPLE DESCRIPTION: Well Water

SAMPLE TYPE: Water

DATE SAMPLED: 2019-11-04
08:00

Parameter	Unit	G / S	RDL	680173
Total Aluminum	mg/L		0.004	0.007
Total Antimony	mg/L		0.001	<0.001
Total Arsenic	mg/L		0.001	0.003
Total Barium	mg/L		0.05	<0.05
Total Beryllium	mg/L		0.0005	<0.0005
Total Boron	mg/L		0.01	0.07
Total Cadmium	mg/L		0.000016	0.000024
Total Chromium	mg/L		0.0005	<0.0005
Total Cobalt	mg/L		0.0009	<0.0009
Total Copper	mg/L		0.0008	<0.0008
Total Iron	mg/L		0.1	0.6
Total Lead	mg/L		0.0001	<0.0001
Total Manganese	mg/L		0.005	0.068
Total Molybdenum	mg/L		0.001	0.008
Total Nickel	mg/L		0.003	<0.003
Total Phosphorus	mg/L		0.08	0.12
Total Selenium	mg/L		0.0005	<0.0005
Total Silver	mg/L		0.00005	<0.00005
Total Sodium	mg/L		0.6	150
Total Thallium	mg/L		0.0005	<0.0005
Total Titanium	mg/L		0.001	0.001
Total Uranium	mg/L		0.001	0.004
Total Zinc	mg/L		0.01	0.03

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

680173 < - Values refer to Report Detection Limit.

Analysis performed at AGAT Calgary (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19C539413

PROJECT: Well Water

2910 12TH STREET NE
CALGARY, ALBERTA
CANADA T2E 7P7
TEL (403)735-2005
FAX (403)735-2771
<http://www.agatlabs.com>

CLIENT NAME: MISC AGAT CLIENT AB

ATTENTION TO: Allan Orr

SAMPLING SITE:

SAMPLED BY:

Water Analysis - Ammonia, Colour, Sulphide, TKN, Turbidity

DATE RECEIVED: 2019-11-04

DATE REPORTED: 2019-11-12

SAMPLE DESCRIPTION: Well Water
SAMPLE TYPE: Water
DATE SAMPLED: 2019-11-04
08:00
680173

Parameter	Unit	G / S	RDL	
Ammonia, Total (as N)	mg/L		0.05	0.10
Colour, Apparent	Colour Units		5	18
Sulfide	mg/L		0.02	0.02
Total Kjeldahl Nitrogen	mg/L		0.1	0.4
Turbidity	NTU		0.2	1.0

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

Certified By:



Alberta Health
Services

3030 Hospital Dr. NW Calgary, AB T2N 4W4
8440-112 St. Edmonton, AB T6G 2J2

403-944-1215
780-407-8925



PLW, Orr, Allan

Fort MacLeod Environmental Public Health

Box 520 (403)553-5351
Fort MacLeod, AB T0L 0Z0

Accession #: WC-19-0075409
AESRD Approval #:
EI/ProvLab Study #:

Environmental Microbiology

Collected Date 2019-10-22
Collected Time 11:00 MDT

Total Coliforms by Enzyme Substrate *	ABSENT	Units
E coli by Enzyme Substrate	ABSENT	per 100mL

Drinking Water Sample Category	Private
Water Sample Source	Well
Received Date and Time	2019-10-23 0840
Analyzed Date	2019-10-23
ID Number	1485509
Sample Collected By	Allan Orr
Collected By Phone Number	
Sample Collection Site.	Hydrant

2019-10-22 11:00 MDT Total Coliforms by Enzyme Substrate:
Total Coliforms and E coli testing performed by Enzyme Substrate Method - Presence/Absence.

2019-10-22 11:00 MDT Drinking Water:
SE1/4 Sct: 24 Twp: 9 Rge: 25 W 4 M Lot: _ Block: _ Plan: _

LEGEND:	@=Faxed	*=Footnotes	#=Corrected	H=High
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Cc:

Information on this report relates only to this sample
For further information contact the Environmental Public Health Agency

Chart Request ID: 197721945
Print Date/Time: 2019-10-24 14:34

Env: ER4 - Provider - Permanent
Page 1 of 1

MUNICIPAL DISTRICT OF WILLOW CREEK NO. 26
IN THE PROVINCE OF ALBERTA
BYLAW NO. 1849

BEING a bylaw of The Municipal District of Willow Creek No. 26 in the Province of Alberta, to amend Bylaw No. 1826, being the Land Use Bylaw;

WHEREAS the Municipal District Council is in receipt of an “Application for a Land Use Bylaw Amendment” to redesignate approximately 4.05 hectares (10.01 acres), to be determined by a survey sketch, of land within the municipality, as per the enclosed map (Schedule A), legally described as:

PLAN 9911001
BLOCK 1
LOT 1
EXCEPTING THEREOUT ALL MINES AND MINERALS
AREA: 4.05 HECTARES (10.01 ACRES) MORE OR LESS
ATS REFERENCE: 4;25;9;24;SE

AND WHEREAS it is deemed expedient for the Council of the Municipal District to consider **Bylaw 1849** to redesignate approximately 4.05 hectares (10.010 acres), to be determined by a survey sketch, of the lands from “Rural General - RG” to “Rural Recreational - RR”;

NOW THEREFORE, under the authority and subject to the provisions of the Municipal Government Act, Chapter M-26, 2000, as amended, the Council of the Municipal District of Willow Creek No. 26 duly assembled does hereby enact the following:

1. Lands, illustrated on the map in Schedule ‘A’ and legally described above, shall be redesignated from ‘Rural General–RG’ to ‘Rural Recreational–RR’
2. The Land Use District Map shall be amended to reflect this redesignation.
3. Land Use Bylaw No. 1826 is hereby amended.
4. This bylaw shall come into effect upon third and final reading thereof.

READ a **first** time this 12th day of February, 2020.

_____ Reeve – Maryanne Sandberg	_____ Municipal Administrator/CAO – Derrick Krizsan
---	---

READ a **second** time this 12th day of February, 2020.

_____ Reeve – Maryanne Sandberg	_____ Municipal Administrator/CAO – Derrick Krizsan
---	---

READ a **third** time and finally **PASSED** this 12th day of February, 2020.

_____ Reeve – Maryanne Sandberg	_____ Municipal Administrator/CAO – Derrick Krizsan
---	---



NOTICE OF PUBLIC HEARING
THE MUNICIPAL DISTRICT OF WILLOW CREEK NO. 26
IN THE PROVINCE OF ALBERTA

PROPOSED LAND USE BYLAW AMENDMENT

Wednesday, December 18, 2019 at 1:30 p.m.

at

The Municipal District of Willow Creek No. 26, Council Chambers

PURSUANT to sections 230, 606, and 692 of the Municipal Government Act, Statutes of Alberta, Chapter M-26, 2000, as amended, the Council of the Municipal District of Willow Creek No. 26 in the Province of Alberta hereby gives notice of its intention to consider adoption of **proposed Bylaw No. 1849 to amend Land Use Bylaw No. 1826.**

THE PURPOSE of the proposed land use bylaw amendment is to enable an application, submitted by landowners Allan and Sharlene Orr, to redesignate 10.01 acre parcel of the following titled parcel of land:

- Lot 1; Block 1; Plan 9911001 (Ptn. SE 24-09-25-W4M)

(as shown on the map in Schedule A), from 'Rural General – RG' to 'Rural Recreational – RR'. The redesignation will allow for a development application for proposed RV Park Campground.

THEREFORE, TAKE NOTICE THAT a public hearing to contemplate the proposed land use bylaw amendment will be held in the Municipal District of Willow Creek No. 26 Council Chambers at **1:30 p.m., on the 18th day of December, 2019.**

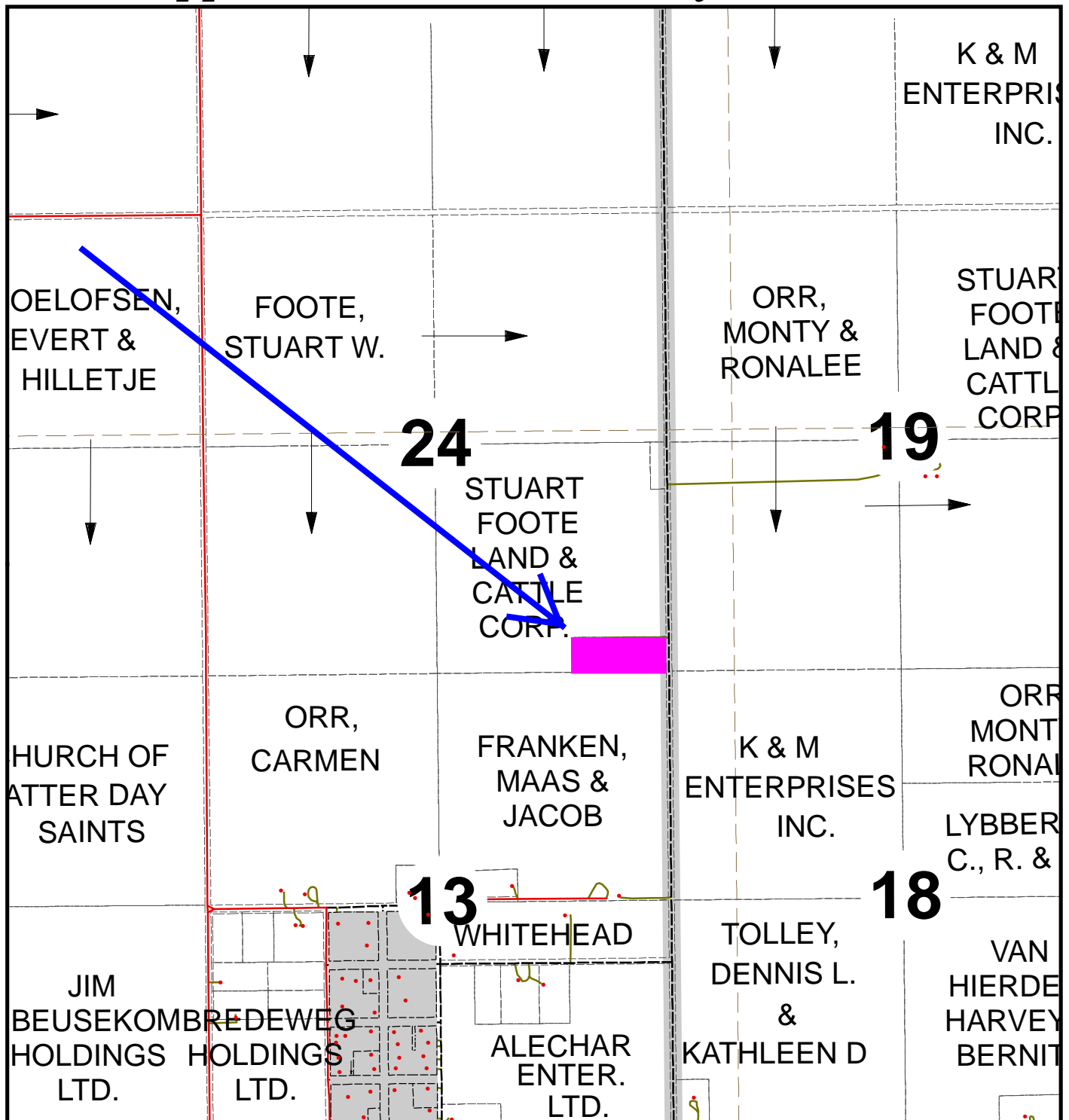
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DATED at the Town of Claresholm in the Province of Alberta this 20th day of November, 2019.

Cindy Chisholm
Manager of Planning & Development
MD of Willow Creek No. 26

LAND USE BYLAW AMENDMENT

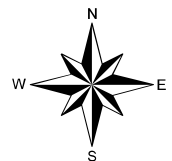
Application No. A-06-19 / Bylaw No. 1849



..... SCHEDULE 'A'



LAND USE BYLAW AMENDMENT FROM:
 'RURAL GENERAL-RG' to 'RURAL RECREATIONAL-RI'
 LOT 1; BLOCK 1; PLN 9911001 (PTN. SE 24-09-25-W4M)
 10.01 ACRES



Date: NOVEMBER 20, 2019

THE MUNICIPAL DISTRICT OF WILLOW CREEK NO. 26

#26 – Hwy 520 West, Claresholm Industrial Area

Box 550, Claresholm, AB T0L 0T0

Phone (403) 625-3351

Fax (403) 625-3886

www.mdwillowcreek.com

FOR OFFICE USE ONLY

Roll # 0803.200

**APPLICATION FOR A
LAND USE BYLAW AMENDMENT**

IMPORTANT: This information may also be shared with appropriate government/other agencies (e.g. Alberta Agriculture, Food and Rural Development; Alberta Environment; the regional health authority), and may also be kept on file by those agencies. This information may also be used by and for any or all municipal programs and services. The application and related file contents will become available to the public and are subject to the provisions of the Freedom of Information and Protection of Privacy Act (FOIP). If you have any questions about the collection of this information, please contact The Municipal District of Willow Creek No. 26.

Form IAPPLICANT: Allan + Sharlene Orr

Telephone: _____

ADDRESS: _____

Fax: _____

Bus/Cell: _____

REGISTERED OWNER: Allan + Sharlene OrrTelephone: 4LEGAL DESCRIPTION: Lot(s) 1 Block 1 Plan 9911001OR: Quarter SE Section 24 Township 9 Range 25 W 4 M**PROPOSED AMENDMENT:**From: Rural General (RG)To: Rural Recreation

APPLICANT'S SUBMISSION: Please state your reasons for applying for this amendment and if applicable, supply details of future plans/development, complete with sketches that illustrate the proposal. Attaching separate sheets will be necessary.

to construct an R.V. Park

REGISTERED OWNER OR PERSON ACTING ON BEHALF OF: I/we agree to the collection and sharing of this information contained in this application, and any other information that may be required to verify and evaluate this application as explained above. I have submitted particulars concerning the completion of the proposed development and agree to comply in all respects with any conditions that may be attached to any development permit that is issued and with any other bylaws that are applicable. I am aware that I may be required to pay for all local improvement costs, which include drainage, sidewalks, road construction, street lighting, water and sewer main extensions, utility connection fees and installation costs at the present established rate.

I have read and understand the terms noted above and hereby apply for that described above and/or on the attached plans and specifications. I further certify that the registered owner(s) of the land described above is aware of this application.

DATE: Nov 11 2019

SIGNED: _____

Applicant (s)

4;25;9;24;SE

4;24;9;19;SW

9911001.1:1

4;25;9;13;NE

4;24;9;18;NW



Country Oasis RV Park

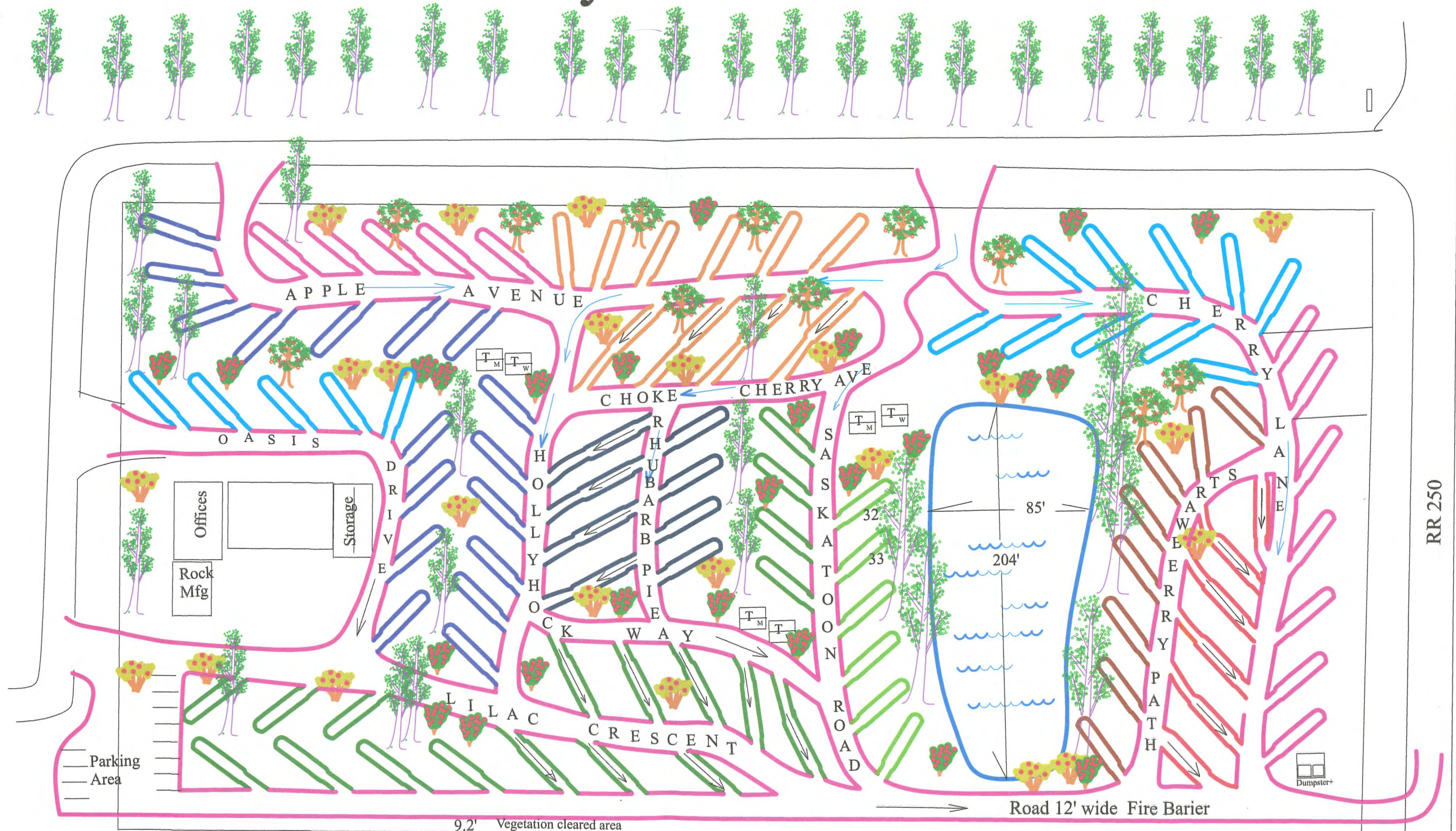
Key

Roads are a minimum of 12' wide.

There are 3 common areas with 2 public toilets at each site.

All sites have water and electricity available.

There are 22 drive through sites



SCHEDULE D



Alberta Health
Services

3030 Hospital Dr. NW Calgary, AB T2N 4W4
8440-112 St. Edmonton, AB T6G 2J2

403-944-1215
780-407-8925



PLW, Orr, Allan

Fort MacLeod Environmental Public Health

Box 520 (403)553-5351
Fort MacLeod, AB T0L 0Z0

Accession #: WC-19-0075409
AESRD Approval #:
EI/ProvLab Study #:

Environmental Microbiology

Collected Date	2019-10-22	
Collected Time	11:00 MDT	
Total Coliforms by Enzyme Substrate *	ABSENT	Units per 100mL
E coli by Enzyme Substrate	ABSENT	per 100mL
<hr/>		
Drinking Water Sample Category	Private	
Water Sample Source	Well	
Received Date and Time	2019-10-23 0840	
Analyzed Date	2019-10-23	
ID Number	1485509	
Sample Collected By	Allan Orr	
Collected By Phone Number	403-553-2027	
Sample Collection Site.	Hydrant	

2019-10-22 11:00 MDT Total Coliforms by Enzyme Substrate:
Total Coliforms and E coli testing performed by Enzyme Substrate Method - Presence/Absence.

2019-10-22 11:00 MDT Drinking Water:
SE1/4 Sct: 24 Twp: 9 Rge: 25 W 4 M Lot: _ Block: _ Plan: _

LEGEND:	@=Faxed	*=Footnotes	#=Corrected	H=High
---------	---------	-------------	-------------	--------

Cc:

Information on this report relates only to this sample
For further information contact the Environmental Public Health Agency

Chart Request ID: 197721945
Print Date/Time: 2019-10-24 14:34

Env. ER4 - Provider - Permanent
Page 1 of 1

Water Requirements for RV park.

Water used by David Layton at Whispering Valley Campground for the season which is 5 months.

Water is metered in cu meters from the village of Glenwood.

This year they used 3025 cu meters of water. This volume included water for flushing all the lines in the spring.

$3025 \text{ cu meters} \times 264 \text{ us gal per cu meter} = 798,600 \text{ us gal of water for the season.}$

The season is May 1 to September 30th 5 months or 153 days

$798,600 \text{ us gal per season} / 153 \text{ day} = 5,220 \text{ us gal for all sites per day}$

There are 235 sites therefore $5,220 \text{ us gal per day} / \text{by } 235 \text{ sites} = 22 \text{ us gal per site per day}$. Our pump and water lines can supply that in less than 1 minute per site or can supply the whole park in 100 minutes or 1.67 hours.

Our pump delivers 25 us gal a minute at 70 psi. We water our lawn for 14 hours a setting three times a week. The zones run from 22 to 25 g/m/zone. Our current pump and well can supply over 14 times what is needed to supply potable water for the entire park. It has been supplying that amount for 22 years. Adding the RV park will add about 1.4 hours a day or about .1% to the running time.

Our well was tested at 150 g/m for 3 hours. Water level dropped about 3" and recovered in 3 minutes. See well report.

Alberta Water Well Drilling Report

ENVIRONMENTAL PROTECTION

The data contained in this report is supplied by the Driller. The province disclaims responsibility for its accuracy.

1 Contractor & Well Owner Information

Company Name: CANFIELD DRILLING SERVICES LTD. Licence No.: 019
 Mailing Address: ALLAN OAK Postal Code:
 Well Owner has a copy of this report: ☐ Yes ☒ No

2 Drilling Information

Type of Work: ☐ Testhole ☒ New Well ☐ Reconditioned ☐ Deepened
☐ Reclaimed well Date reclaimed: Yr Mo Day Materials Used: ☐ Bentonite Product ☐ Cement ☐ Other:
 Method of Drilling: ☐ Auger ☐ Boring ☐ Cable tool ☐ Rotary ☐ Combination ☐ Backhoe ☐ Other:
 Proposed well use: ☐ Domestic ☐ Non-Domestic Specify:
 Anticipated requirement per day: ☐ litres ☐ gallons

3 Formation Log

Depth from ground level	Lithology Description
0-15	SAND & SILT
15-100	SILTY CLAY
100-175	CLAY TILL - UNOXIDIZED
175-192	180-175 - LAGUNA TILL
192	GRAVEL - PRE-GLACIAL
	SILTSTONE - WILLOW CREEK FORMATION

4 Well Completion

Date Started: 36/2/19 Date Completed: 37/1/13
 Are measurements in metric or imperial? ☐ Metric ☒ Imperial
 Well depth: 192' Borehole diameter:
 Casing type: STEEL P/E Size OD: 6 5/8"
 Wall thickness: 188 Wall thickness:
 Bottom at: 187' Top: Bottom:
 Perforations: to:
 from: to:
 Perforation size: X
 Perforated by: ☐ Saw ☐ Torch ☐ Machine ☐ Other:
 Seal: ☐ Bentonite product ☒ Driven ☐ Cement / Grout ☐ Other:
 Sealed interval: 0 to: 187'
 Screen type: Size OD: 5 1/2"
 Intervals: 186.5 to 192 slot size: #30
 from: to: slot size:
 Installation: ☐ Attached to casing ☒ Telescoped
 Fittings: Top ☒ Packer Bottom ☐ Wash-down ☐ Coupler ☐ Bail ☒ Plug
 Pack: ☐ Artificial/Mechanical ☒ Natural
 Grain size: 3' RISER ON SCREEN Amount:

5 Contractor Certification

Driller's Name: G.O. Blake
 Certification No.: 3838A.D
 This well was constructed in accordance with the Water Well Regulation of the Alberta Environmental Protection & Enhancement Act/All information in this report is true.
 Signature: G.O. Blake Yr Mo Day:

Well I.D.
 Map verified
 Date report received:

6 Well Location

 T40 N 130 S 9 E 25' 4"
 LOCATION: m/f from ☐ N ☐ S
 m/f from ☐ E ☐ W
 Lot Block Plan

7 Well Yield

 Test Date: 37/1/13 Start Time: 3:00 P.M.
 Test method: ☐ Pump ☐ Bailor ☒ Air
 Are measurements in metric or imperial? ☒ Metric ☐ Imperial
 Non pumping static water level: 22.22
 Rate of water removal: 150 IG.P.M.
 Depth of pump intake: 170'
 Water level at end of test: 22.5
 Distance from top of casing to ground level:

Pumping	Elapsed Time	
	minutes	Recovery
	0	
	1	22.5
	2	22.22
	3	22.22
	4	
	5	
	6	
	7	
	8	
	9	
	10	
	12	
	14	
	16	
	20	
	25	
	30	
	35	
	40	
	50	
	60	
	75	
	90	
	105	
	120	

 Total Drawdown:
 If water removal was less than 2 hr duration, reason why:
 Recommended pumping rate:
 Recommended pump intake: 100'
 Pump installed ☐ Yes ☐ No Depth:
 Type:
 Any further pump test information? ☐ Yes ☐ No

Orton, Alberta *SCHEDULE E*

Site of water well for Country Oasis RV Park

Legend



Google Earth