

GROUNDWATER IMPACT ASSESSMENT

Spearhead

4655 Highway 3A,
Nelson, BC, V1L 6N3

ATTENTION: Ben Hall

REFERENCE: Groundwater Impact Assessment
4612, 4614-4616 Starlight Road
and 4643 Highway 3A, Nelson, BC

1 INTRODUCTION

Active Earth Engineering Ltd. (Active Earth) has undertaken a Groundwater Impact Assessment for three contiguous properties along Starlight Road and Highway 3A in Nelson, BC (collectively referred to as the "Site").

The land use of the Site and the zoning designations of the three existing lots are planned to be amended. The land use is planned to be amended from Country Residential (R2) to Comprehensive Development (CD3) and amend the land use designation in the Area F Official Community Plan from Country Residential (CR) to Industrial (M) in order to authorize the expansion of the existing wood product manufacturing business.

The Rural Affairs committee had requested a Groundwater Impact Assessment report to support the proposed Land Use Bylaw Amendment Application.

2 SCOPE

Active Earth has completed the following scope for the Groundwater Impact Assessment:

Desktop Study

- Reviewed online geographical databases for information on local topography, watercourses, and drainage infrastructure;
- Reviewed groundwater information available on the Province's water wells and aquifer databases, including nearby water well construction records;
- Obtained local monthly climate normals published by Environment Canada, with consideration to climate change impacts
- Reviewed a Draft version of the on-Site septic system review, conducted by Highland Consulting Ltd. (Highland)

Site Reconnaissance and Interview with Client

- Conducted a Site reconnaissance to assess local topographic conditions, bedrock/soil exposures, any surface water and/or groundwater features.

The investigation results, analysis and recommendations are described in this report.

3 SITE DESCRIPTION

3.1 Overview and Location

Spearhead is a wood product manufacturing business located at 4655 Highway 3A in Nelson, BC. The company is planning to extend its business into the three adjacent properties with a new facility and one of more septic field locations. The extension of the business into the three adjacent properties are collectively referred to as the "Site".

The Site location is shown on Figure A and on attached Figure 1. It comprises of three adjacent one parcels, whose cadastral information are summarized below.

Address, Location and Dimensions	Current Civic Address	4612 Starlight Road, Nelson, BC 4614-4616 Starlight Road, Nelson, BC 4643 Highway 3A, Nelson, BC
	Location	In between Starlight Road to the north and Highway 3A to the South, to the west of current Spearhead business.
	PIDs and approximate area	015-282-228 (0.53ha) 015-289-567 (0.68ha) 015-289-559 (0.81ha)
	Cartographic Coordinates	49° 36' 22.9" N 117° 08' 4.1" W
	Legal Description	LOT 5 DISTRICT LOT 790 KOOTENAY DISTRICT PLAN 2449 LOT 4 DISTRICT LOT 790 KOOTENAY DISTRICT PLAN 2449 LOT 3 DISTRICT LOT 790 KOOTENAY DISTRICT PLAN 2449

The lots are currently zoned R2 - Country residential and are planned to be rezoned to Comprehensive Development (CD3). The lots are currently occupied by single-family dwellings.

The proposed project will be broken into distinct phases:

1. Phase 1 - consisting of a single story 5,300m² of light industrial space with a steel and glulam structure with CLT wall and roof panels. Mechanical and electrical rooms as well as parking will be located below the building.
2. Phase 2 - includes a 600m² addition to the phase 1 industrial space, and 1,800m² of office space (with a daycare component) in a three-story building.

The development will also include installment of a septic system on the northern end of the property, a perimeter drain around the building, a rock pit is proposed in the southwestern corner of the Site and a raingarden in the parking lot directly to the south of the building.

Highland has estimated that this proposed development will need a septic system that requires a conservative flow capacity of **5,780 L/day**.

2 DESKTOP STUDY

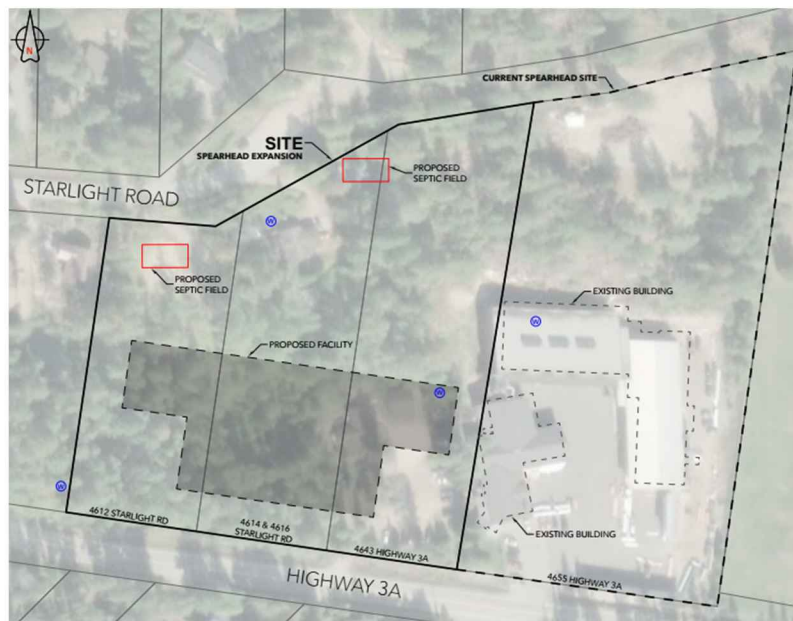
2.1 Topography

The following table describes the topography of the Site and surrounding area, as shown in Figure A.

TOPOGRAPHICAL INFORMATION

Topography	Geodetic Elevation	Geodetic elevations range from 540m geodetic at the southwestern corner of the Site up to around 580m at the northeastern corner of the Site.
	Site Topography	Ground surface slopes down towards the Kootenay River at an average rate of approximately 17.5%. Based the observations of the
	Regional Topography	The Site is located in the valley between Kokanee Glacier Provincial Park to the north with peak elevations of around 2,800m geodetic and Kootenay River to the south at elevations of 534m geodetic.

FIGURE A – SITE PLAN

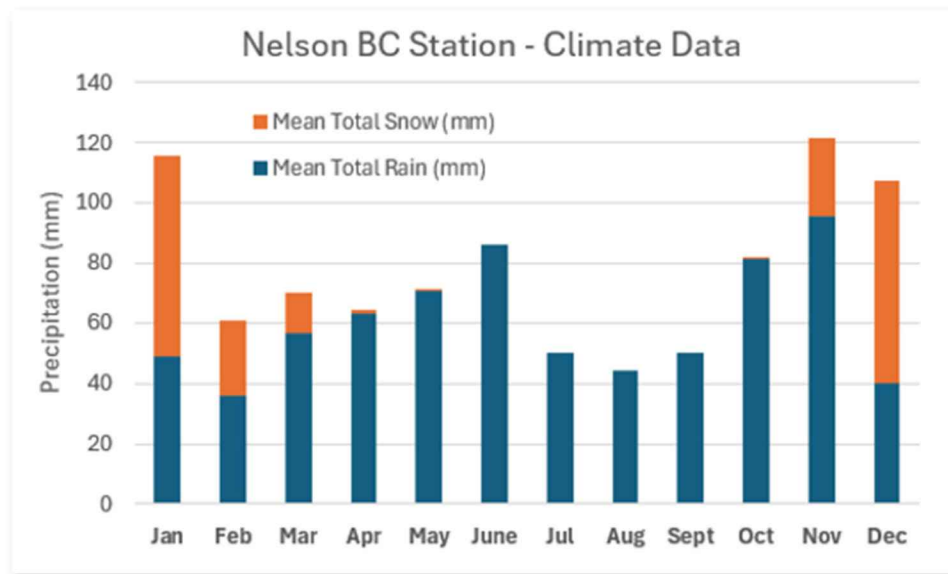


2.2 Climate

According to data collected from the nearby Nelson weather station between 1981 to 2010, the mean monthly precipitation varies between 44.5mm in August and 121.7mm in November. Precipitation is predominantly snow in the months of December and January.

Climate change is expected to bring an increase in extreme weather and heavy precipitation events, potentially resulting in higher precipitation during the winter rainy season.

FIGURE B – CLIMATE NORMALS (NELSON BC STATION)

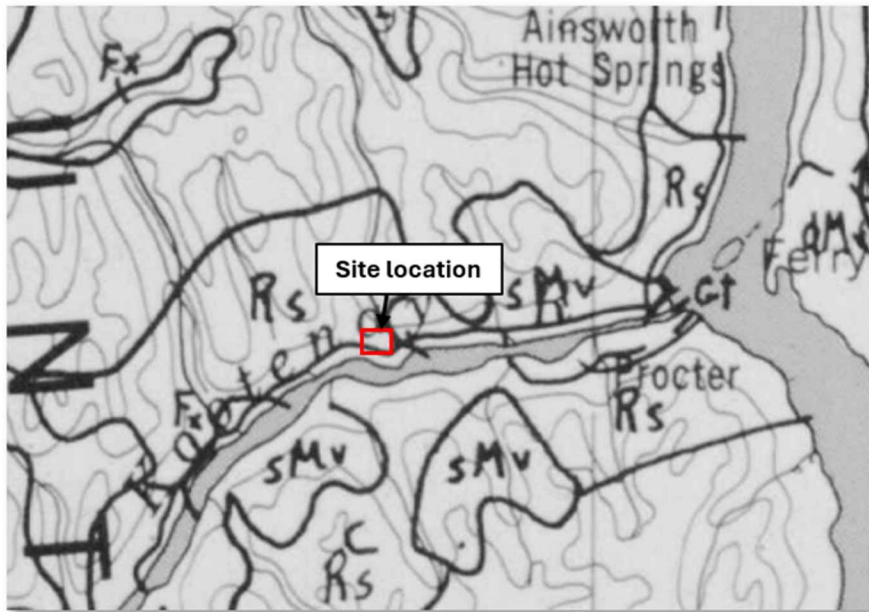


2.3 Surficial Geology

Surficial Geology Map 1084A 1976 shows that the Site is underlain by class Rs – **Pre-Quaternary Bedrock**. The bedrock consists of crystalline metamorphic, acidic igneous, quartzite, argillite, marble, greenstone, greywacke, limestone, dolomite and sandstone.

Areas mapped as class Rs consist dominantly of rock at the surface but include minor areas of rock covered by a veneer of colluvium and till. The rock formation is characterized by steep slopes or exposed by modern streams.

FIGURE C – LOCAL SURFICIAL GEOLOGY



2.4 Aquifer Mapping and Existing Wells

The BC Water Resource Atlas (BCWRA), GWELLS, and iMapBC databases were queried for current aquifer mapping and water well information.

There is one mapped aquifer underlying the Site and one mapped aquifer is located just south (downgradient) of the Site. The extents of the aquifers are given on the attached Figure 2 and the aquifer information from BCWRA are attached in Appendix A.

2.4.1 Mapped Bedrock Aquifer #1018

The Site is underlain by mapped **Bedrock Aquifer #1018**. The aquifer is described as a fractured (igneous intrusive or metamorphic, meta-sedimentary, meta-volcanic, volcanic) rock aquifer. The bedrock is overlain by mostly sandy tills, which vary in thickness between 2.44 and 25.91m and are described as clay, gravel, boulders and till. The bedrock aquifer is *partially confined* as five of the 13 well reports situated in the aquifer report low permeable confining deposits above the bedrock. These well reports are located along the southern extent of the aquifer. However, in the southeastern extent of the aquifer (where the Site is located), some highly permeable materials (gravel, cobbles and boulders) are reported to be situated above the bedrock. This would indicate localized windows of higher vulnerability of the aquifer.

The aquifer is classified as *moderately vulnerable* given the shallow water table depth (median 4.27m) and *moderately productive* with reported well yields ranging from 0.06-1.26 L/s.

Bedrock Aquifer #1018 may be hydraulically connected (discharging) to Aquifer #994.

2.4.2 Mapped Bedrock Aquifer #994

Mapped **Aquifer #994** is located directly south of the Site and borders Aquifer #1018. The aquifer predominantly consists of fluvial sand and gravel deposits. The aquifer is *partially confined* as five of the thirteen well logs associated with the aquifer showed low permeable confining units at surface level.

The aquifer is classified as *highly vulnerable* given the shallow water table, the high permeability of the deposits. The aquifer has *moderate productivity* as reported well yields range from 0.03 to 2.84 L/s.

2.4.3 Groundwater wells

There are a total of 26 wells in the WELLS database within a radius of 500m of the center of the Site. The well reports are attached in Appendix A. The results are summarized in the following table.

WELL DATA

Address	Well Tag Number	Yield* (USgpm)	Well Depth (ft)	Depth to Water (ft)	Aquifer No.	Distance (m)
4647 Crescent Rd	131010	1.5	557	Unknown	Unknown	170
4608 Starlight Rd	125918	3.5	734	Unknown	Unknown	85
4598 Highway 3A	124093	Unknown	30	Unknown	Unknown	240
4622 Crescent Rd	120935	Unknown	Unknown	Unknown	Unknown	252
4711 Robertson Rd	117710	20	93	27	Unknown	276
4608 Crescent View Dr	116151	3	597	45	Unknown	219
4676 Crescent Rd	108916	20	46	22	Unknown	216
Unknown	105588	0.5	600	300	Unknown	82
Crescent View Dr	92891	3	540	14	1018	320
Crescent View Dr	92889	7	381	Unknown	1018	216
Crescent View Dr	92888	2	400	10	1018	266
Unknown	91664	4	405	4	1018	164
Unknown	91655	15	285	7	1018	462
4646 Crescent Rd	85983	45	43	16	944	254
4646 Crescent Rd	85981	Unknown	19.5	18	944	267
4604 Starlight Rd	85957	5	718	Unknown	1018	126
12 Mile-Storage	79334	20	500	78	1018	320

Address	Well Tag Number	Yield* (USgpm)	Well Depth (ft)	Depth to Water (ft)	Aquifer No.	Distance (m)
4652 Crescent Rd	66287	20	35	6	944	224
Unknown	66193	20	220	Unknown	1018	460
Crescent Beach	51893	11	380	Unknown	1018	290
Nelson	39860	15	470	100	1018	263
North Shore	35593	15	61	35	994	170
North Shore	34912	10	50	24	994	180
Kokanee	26477	Unknown	15	Unknown	1018	121
Kokanee	26469	40	35	Unknown	994	238
Kokanee Creek Provincial Park	16615	35	50	22	994	263

*Driller's Estimate

**Grey shading indicates existing well immediately adjacent the Site

Most wells are installed in the mapped aquifers #1018 and #994. The depth to water for wells installed in mapped aquifer #1018 ranges from 4-100ft (1.2-30.5m). Reported well yields range from 2-20 USgpm (or **10.9-109 m³/day**).

2.5 Lithology

Highland conducted field investigations at the Site in November 2024. The investigations consisted of test-pitting to obtain shallow soil stratigraphy and conduct soil permeability tests. The field investigations were conducted at the potential septic field locations. The field observations from Highland are combined with the well logs of nearby wells to assess the on-Site stratigraphy.

Based on the collected data, the following soil stratigraphy is present at the Site:

- 0 – 0.3m - **Topsoil** or localized **Fill**
- 0.3m – 4.3m - **Fine to coarse Sand** and **Gravel**. The thickness of this layer varies between 1.2 and 4.3m
- 4.3m and deeper – **Granite bedrock**

Locally, clay layers of varying thickness can be present as was observed in Testpit 1 (TP1) during the field investigations by Highland. Sandy clay was observed from 1.3 until the maximum digging depth of 1.5m. The well log for WTN 125918, located near the southwestern corner of the Site indicate the presence of a clay layer from 3.1 – 6.1m below grade.

The percolation test results from Highland estimates an infiltration rate of **1-2 min/inch** for the Sand and Gravel layer.

3 SITE RECONNAISSANCE

On January 14, 2025, Scott Steer from Active Earth conducted a Site reconnaissance to assess the local hydrogeological setting, topography, assess nearby streams and assess soil conditions. A photolog of the Site reconnaissance is attached to this report. During the Site reconnaissance Scott met with Ben Hall of Spearhead to obtain additional information.

The following information was obtained from the Site reconnaissance:

- Surface soils consist mostly of sand and gravel with some silt and cobbles;
- Surface soil layer is expected to be thin, based on the many outcrops of bedrock;
- Reported clay layer is present on Site;
- Structural fill will be placed beneath the new building;
- Soils/bedrock will be excavated to accommodate the new building. The preliminary estimation for excavation is up to 10m below grade;
- Land slopes south towards the lake;
- The nearest watercourse is Kokanee Creek, located approximately 400m east of the Site;
- Currently two water wells are located on-Site (Well B and Well C on the attached Figure 1) and one well is located directly adjacent to the Site (WTN 125918). Well C is planned to be decommissioned.

4 POTENTIAL ENVIRONMENTAL IMPACT FROM PLANNED SITE OPERATIONS

The proposed operations on the Site include an expansion of the Spearhead lumber processing operations that have occurred on the adjacent parcel for the past 26 years. The ethos of Spearhead includes a commitment to environmentally friendly practices that are consistent with the proposed addition to the operations including the facility design and materials/chemicals used such as low VOC glue and stains.

The planned operations for the Site are to include planing, cutting and gluing of wood to produce finished glulam products. Processes will also include application of wood finish stain. All operations will be conducted inside an enclosed building with a continuous concrete floor. Mechanical dust collection systems will be utilized for cutting. The glue application will include completely mechanized systems, and the glue product is delivered in sealed cylinders direct from

the supplier. The cylinders are retuned to the supplier and no waste glue is managed on-Site. Similarly, stain products are mechanically applied and delivered in sealed containers from the supplier. There will be no bulk storage of process chemicals including glue or stain on the Site.

In the event of an accident or spill, any glue or stain will be contained by the concrete floor and cleaned up appropriately. Based on the controlled handling and application of the process chemicals, there is limited risk of a large spill event. The risk to the environment is further reduced by the operations occurring entirely indoors and over a continuous concrete floor. The outdoor movement of sealed chemical containers will occur over paved surfaces.

Based on the above description of the proposed operations, there would be no Area of Potential Environmental Concern (APEC) identified for the Site when assessed in accordance with the BC Contaminated Sites Regulation (CSR). The proposed operations will present a low risk to the environment.

Similarly, no health hazard would be assessed but appropriate setback distances are necessary for water supply wells in accordance with applicable Provincial regulations. This includes the on-Site septic disposal system planned for the proposed development. A feasibility assessment was completed by Highland Consulting Ltd. and determined that the Site has sufficient hydraulic capacity to accept the anticipated septic loading of 5,780 L/day. This loading rate is approximately equivalent to three single-family homes. The proposed septic field locations are considered appropriate and have maximized the separation distances to existing nearby wells. It is concluded by Highland Consulting Ltd. that a Type 1 pressurized distribution system will meet the BC Sewerage System Regulation (SSR) requirements provided that it is correctly designed by qualified persons and not pose a health hazard.

5 GROUNDWATER IMPACT ASSESSMENT

Based on the results of the desktop study and the information obtained from the Site reconnaissance, Active Earth concludes the following:

- The Site is underlain by partially confined bedrock aquifer (#1018). This aquifer is likely hydraulically connected to the adjacent mapped aquifer (#994), located directly south of the Site.
- The mapped aquifer underlying the Site (Aquifer #1018) is productive enough to support the new developments (5.78 m³/day). Observed well yields of existing wells show sufficient yield to sustain the future development. Additionally, on-Site Well C associated with the residential property is planned to be decommissioned, lowering the stress on the aquifer.

- The depth to groundwater could not be assessed directly at the Site and was not assessed during the field investigations by Highland. Based on that the depth to groundwater table is assumed to be deeper than 1.5m below grade. It is noted that the closest nearby wells with available logs (WTN 125918 and 105588) are 734ft and 600ft deep, respectively; the depth to water at WTN 105588 is recorded as 300 ft.
- The dominant soil stratigraphy shows relatively thin Sand and Gravel layer overlying bedrock (granite). Many bedrock outcrops are present at the Site. The hydraulic conductivity of the bedrock or the surface soils was not assessed, but the sand and gravel surface soils were estimated to have an infiltration rate of 1-2 min/inch.
- A clay layer is present at the Site as it was observed at two locations (WTN 125918 and a test pit of the field investigations by Highland Consulting Ltd.). Given that the Site has multiple bedrock outcrops, it is uncertain whether this clay layer is continuous across the Site within areas of lower bedrock elevation.
- There will be a rock pit for water storage on the Site. The exact location is not known at this point, but we recommend that during detailed design the rock pit is placed at a minimum 30m distance from existing wells.
- Given the nature of the proposed development and the hydrogeological conditions at the Site including relatively continuous clay deposits and generally low permeability bedrock, the effects of the development on groundwater quality, and in particular to wells located south of the Site, is expected to be negligible.
- The excavation of the new building will extend into the bedrock. Water flowing into the excavation through the bedrock is expected to be minimal to negligible, regardless of the exact maximum excavation depth. Some water flow into the excavation could come from precipitation and overland flow.
- If existing Well B is to be retained inside the planned building, the well head should be completed in accordance with the BC Groundwater Protection Regulation.
- The proposed wood manufacturing operations, as described in Section 4, are considered to present a low risk to impacting the environment, including the aquifers underlying and downgradient of the Site.
- The septic feasibility assessment by Highland Consulting Ltd. concludes that a Type 1 pressurized distribution system will meet the BC Sewerage System Regulation (SSR) requirements provided that it is correctly designed by qualified persons and not pose a health hazard. Active Earth has reviewed the report and concurs with this assessment.

6 LIMITATIONS

The use of this report by anyone is subject to the following conditions and limitations:

1. This report has been prepared at the request of the client and for the specific use referred to herein. The client may rely on this report. It is not reasonable for any other party to rely on the contents of this report without first obtaining written authorization from the client and Active Earth Ltd.
2. Liability is expressly denied to any person other than the parties indicated above and those who obtain written consent. Accordingly, Active Earth Ltd. does not accept responsibility for any damage suffered by any such person as a result of decisions made or actions based on this report. Diligence by all intended users is assumed.
3. This report is believed to provide a reasonable representation of the general environmental condition at the Site. The conclusions made in this report reflect Active Earth's best judgment in light of the information available at the time of reporting. Should additional information become available, or Site conditions change, the conclusions and recommendations of this report may be subject to change.
4. Active Earth Ltd. has agreed to conduct an assessment and prepare this report as requested by the client named in the report for the use specified by the client, which is stated in the report. The client has agreed that the performance of this work and the report format are appropriate for the intended use.
5. Written consent from Active Earth Ltd. must be obtained before any part of the report can be used for any purpose by anyone other than the client and other intended users identified in the report. Liability to any other party or for any other use is expressly denied regardless of who pays Active Earth Ltd.'s fee. Written consent and approval of Active Earth Ltd. must also be obtained before the report (or any part of it) can be altered or conveyed to other parties or the public through prospectus, offering memoranda, advertising, public relations, news, sales or other media.

7 CLOSURE

We trust that this provides you with the information you currently require.

Yours truly,

ACTIVE EARTH ENGINEERING LTD.

EGBC PERMIT TO PRACTICE NO. 1001595

Prepared By:



Thomas Boerman, MSc., MAsC.
Intermediate Hydrogeologist

Reviewed By:



Matt Pye, P.Eng.
Principal, Senior Hydrogeologist

ATTACHMENTS

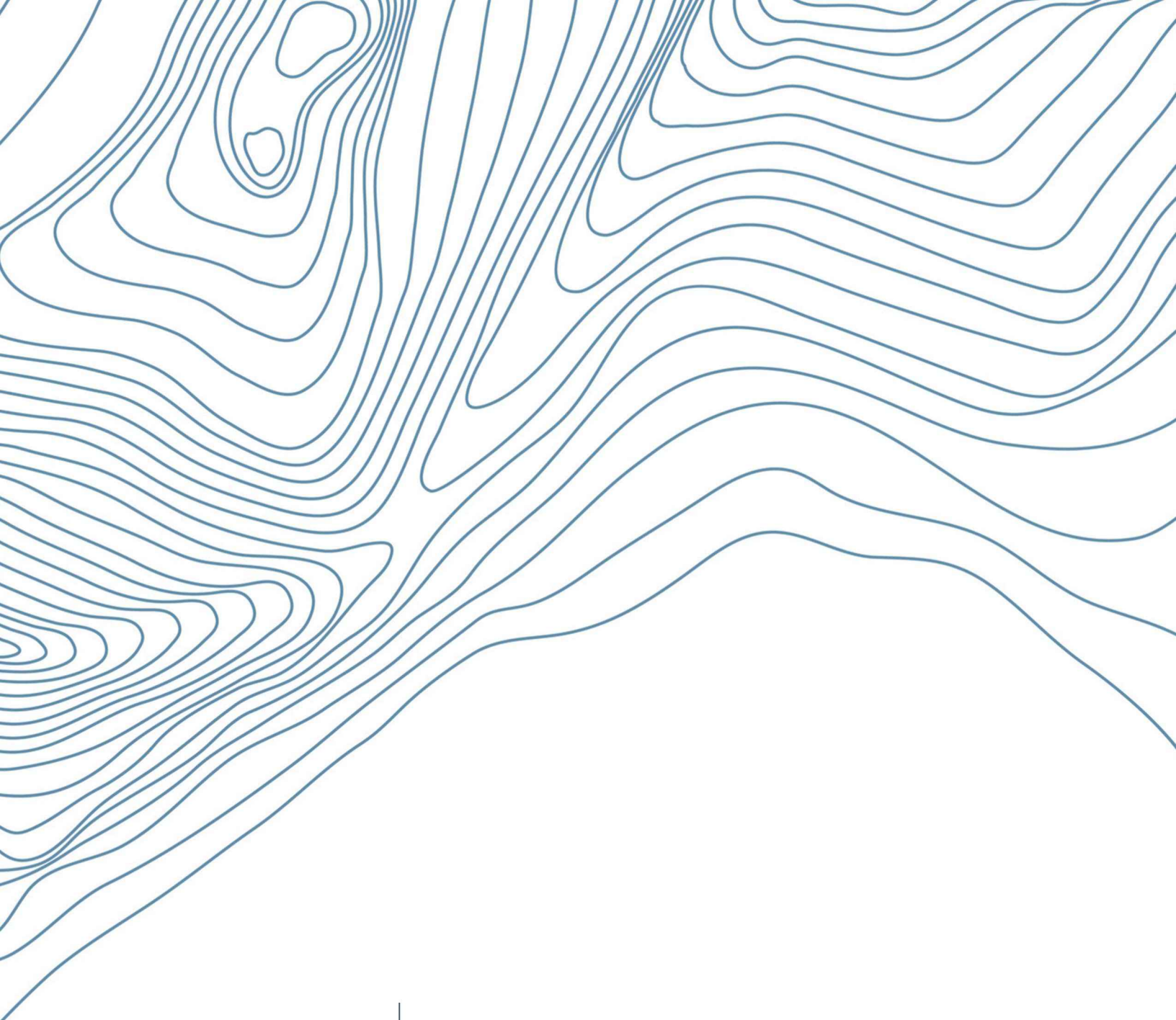
FIGURES

- Figure 1 Site Plan
- Figure 2 Environmental Context Plan

PHOTOLOG

APPENDICES

- Appendix A BCWRA Aquifer Fact Sheet and Well Logs

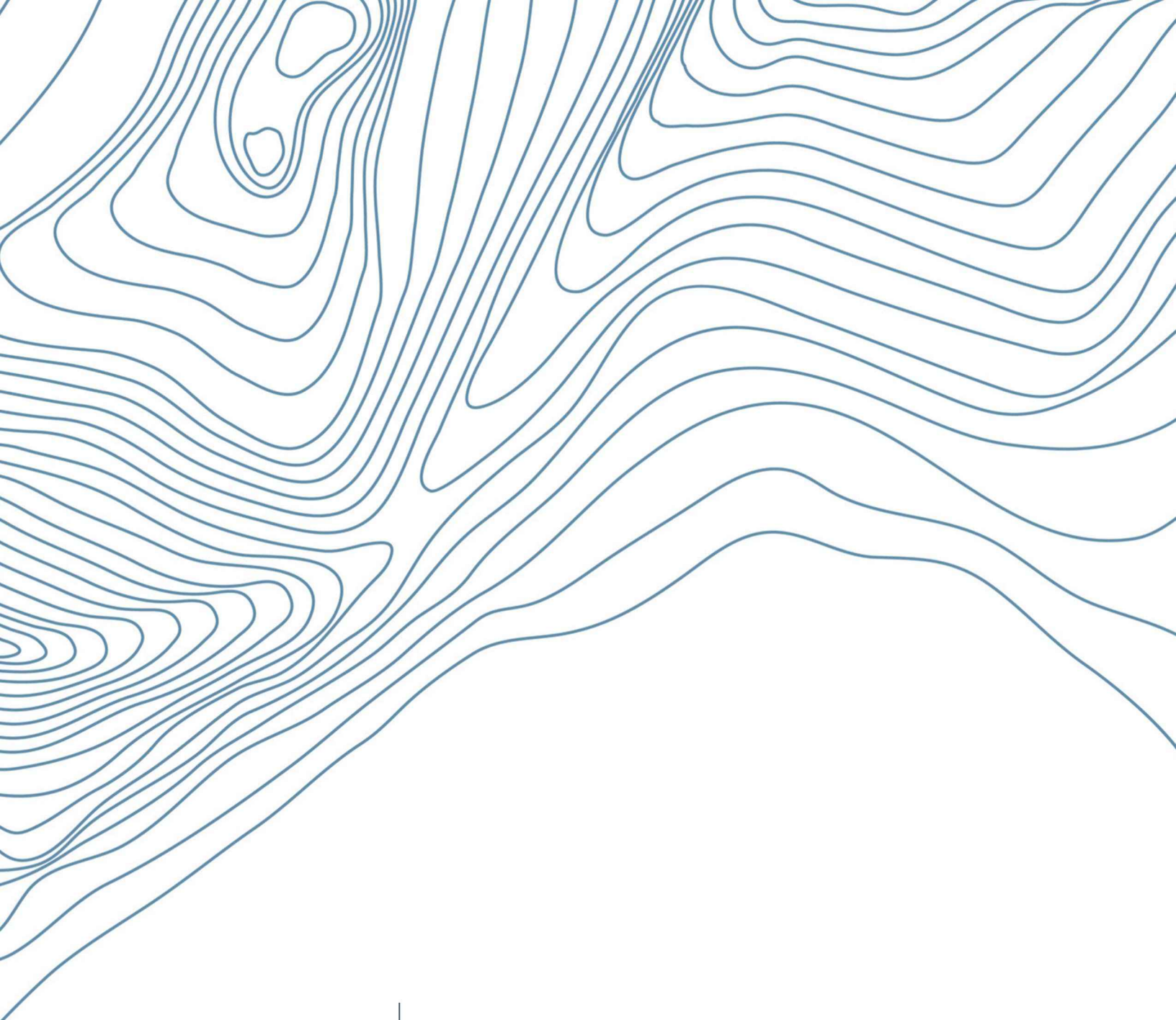


ACTIVE EARTH

LIST OF ACRONYMS

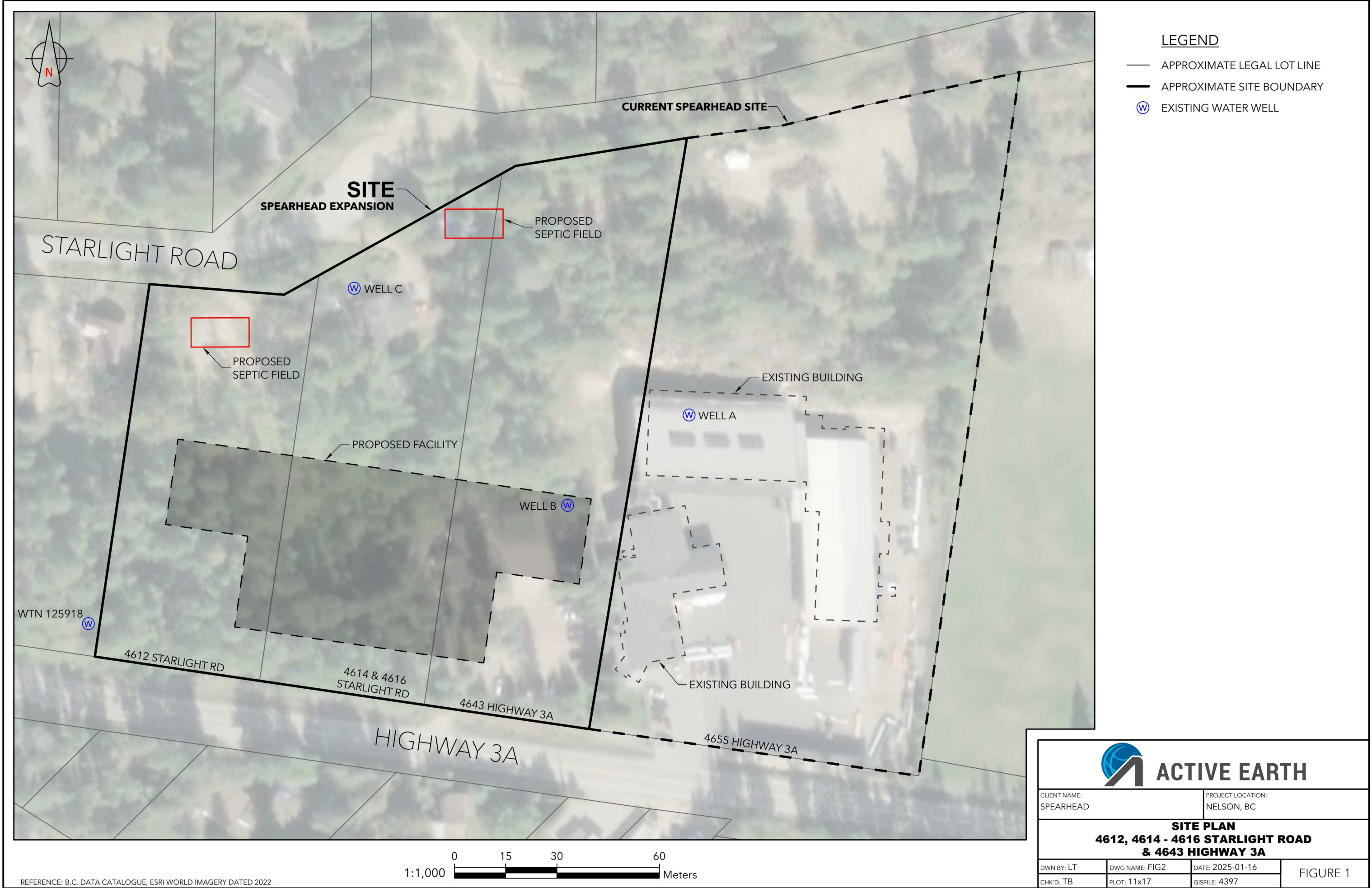
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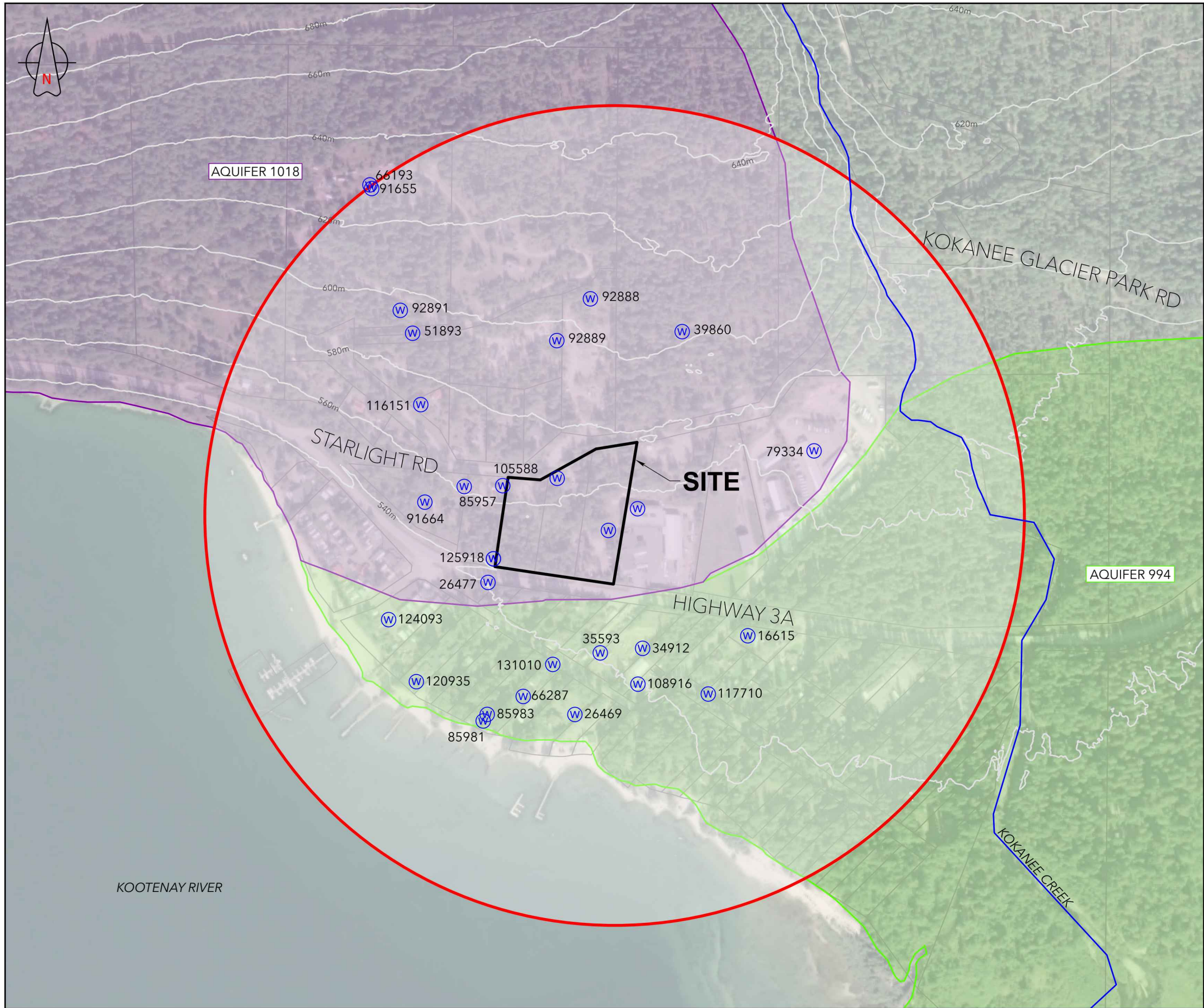
AEC	Area of Environmental Concern
AiP	Approval in Principle
AL	Agricultural Land Use Standards (CSR), or Agricultural Guidelines/Standards (CCME CSQG or CWS)
APEC	Area of Potential Environmental Concern
AST	Above Ground Storage Tank
AWfw/m	Aquatic Life Standards (CSR) (fw – freshwater, m – marine)
BCWQG	British Columbia Water Quality Guidelines
BTEXS	Benzene, Toluene, Ethylbenzene, Xylenes, and Styrene
CCME	Canadian Council of Ministers of the Environment
CL	Commercial Land Use Standards (CSR), or Commercial Guidelines/Standards (CCME CSQG or CWS)
CoC	Certificate of Compliance
COC	Contaminant of Concern
CSM	Conceptual Site Model
CSQG	Canadian Soil Quality Guidelines (CCME)
CSR	Contaminated Sites Regulation
CWS	Canada Wide Standards (CCME)
DSI	Detailed Site Investigation
DW	Drinking Water Standards (CSR)
ENV	BC Ministry of Environment & Parks
EPHw	Extractable Petroleum Hydrocarbons (w – water)
ESA	Environmental Site Assessment
GCDWQ	Guidelines for Canadian Drinking Water Quality
HBM	Hazardous Building Materials
HDPE	High-Density Polyethylene
HEPHs	Heavy Extractable Petroleum Hydrocarbons (s – soil)
HWR	BC Hazardous Waste Regulation
IL	Industrial Land Use Standards (CSR), or Industrial Guidelines/Standards (CCME CSQG or CWS)
IW	Irrigation Water Standards (CSR)
LEPHs/w	Light Extractable Petroleum Hydrocarbons (s – soil, w – water)
LW	Livestock Watering Standards (CSR)
MDL	Method Detection Limit
MTBE	Methyl Tertiary Butyl Ether (also referred to as Methyl Tert-Butyl Ether)
NIR	Notification of Independent Remediation
PAH	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyl
PCOC	Potential Contaminant of Concern
PERC	Tetrachloroethylene
Phase I	Phase I Environmental Site Assessment
Phase II	Phase II Environmental Site Assessment
PL	Urban Park Land Use Standards (CSR), or Parkland Guidelines/Standards (CCME CSQG or CWS)
PSI	Preliminary Site Investigation
RL	Residential Guidelines/Standards (CCME CSQG or CWS)
RLld	Residential Low-Density Land Use Standards (CSR)
RLhd	Residential High-Density Land Use Standards (CSR)
Stage 1	Stage 1 Preliminary Site Investigation
Stage 2	Stage 2 Preliminary Site Investigation
TCE	Trichloroethylene
VOC	Volatile Organic Compounds
VHw	Volatile Hydrocarbons (w – water)
VPHs/w/v	Volatile Petroleum Hydrocarbons (s – soil, w – water, v – vapour)
UST	Underground Storage Tank
WLn	Wildlands Natural Land Use Standards (CSR)
WLr	Wildlands Reverted Land Use Standards (CSR)
WTN	Well Tag Number



ACTIVE EARTH

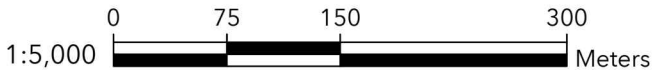
FIGURES



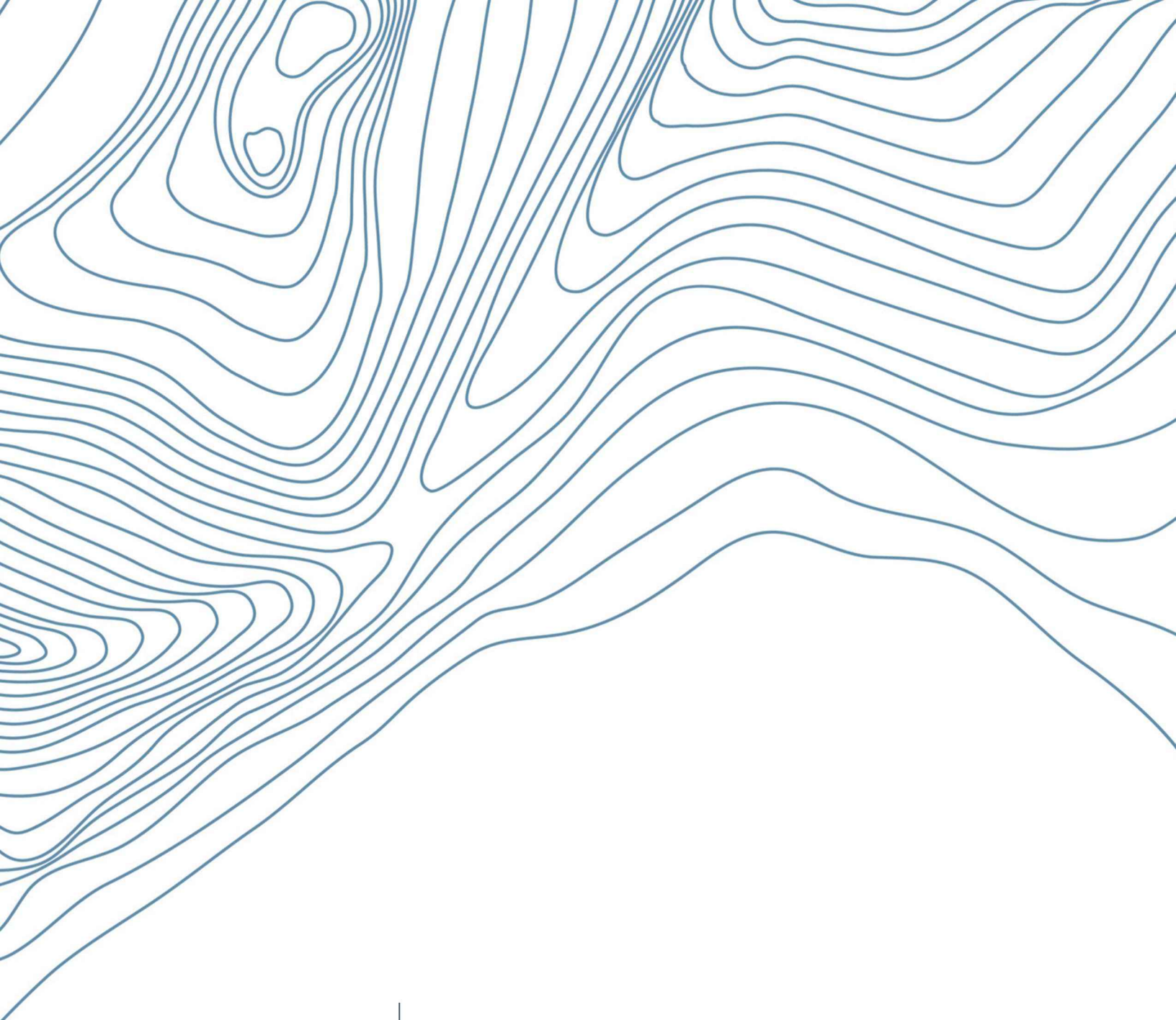


LEGEND

- APPROXIMATE SITE BOUNDARY
- APPROXIMATE STREAM LINE
- CONTOUR (20m)
- Ⓜ EXISTING WATER WELL



CLIENT NAME: SPEARHEAD		PROJECT LOCATION: NELSON, BC	
ENVIRONMENTAL CONTEXT PLAN 4612, 4614 - 4616 STARLIGHT ROAD & 4643 HIGHWAY 3A			
DWN BY: LT	DWG NAME: FIG2	DATE: 2025-01-15	FIGURE 2
CHK'D: TB	PLOT: 11x17	GISFILE: 4397	



ACTIVE EARTH

PHOTOGRAPHS

PHOTOGRAPHS

Photo 1: View toward the east of bedrock slope located adjacent and north of site building



Photo 2: View toward the northeast of bedrock slope located north of site building



Client Name	Site Location	Project No.	Date
Spearhead	4612, 4614-4616 Starlight Road & 4643 Hwy 3A	4397	January 2025

PHOTOGRAPHS

Photo 3: View toward the south from top of bedrock slope across the operational area of site



Photo 4: View toward the west and proposed development area from top of bedrock slope



Client Name	Site Location	Project No.	Date
Spearhead	4612, 4614-4616 Starlight Road & 4643 Hwy 3A	4397	January 2025

PHOTOGRAPHS

Photo 5: View of one of several bedrock outcrops within proposed development area



Photo 6: View of the southwest portion of the proposed development area. Active off-site water well visible.



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PHOTOGRAPHS

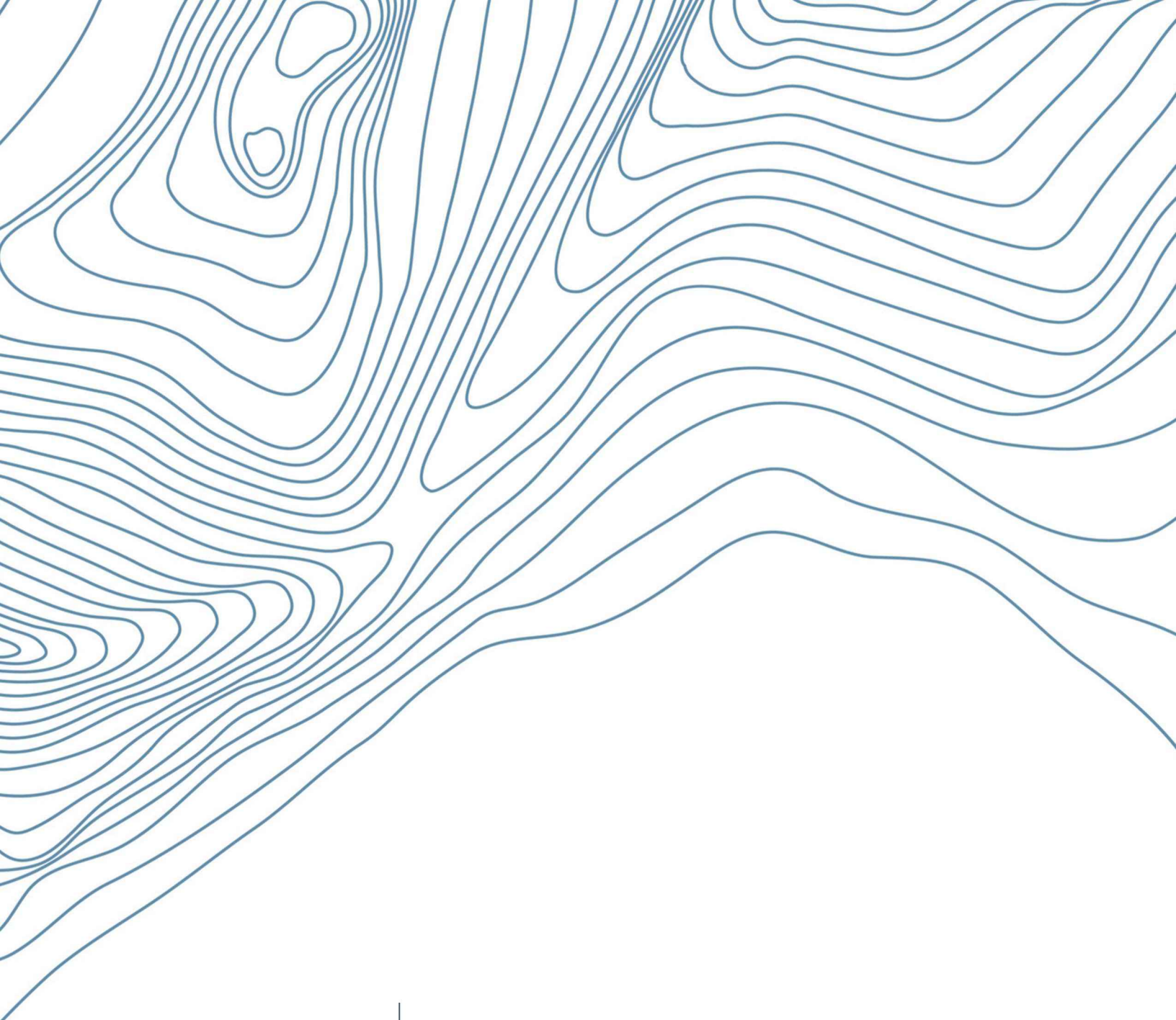
Photo 7: View of shallow soil profile on west side of proposed development area



Photo 8: View of typical shallow soils on west portion of proposed development area



Client Name	Site Location	Project No.	Date
Spearhead	4612, 4614-4616 Starlight Road & 4643 Hwy 3A	4397	January 2025



ACTIVE EARTH

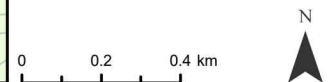
APPENDIX A

BCWRA Aquifer Fact Sheets and Well Logs



Legend

- Registered Water Well - Artesian
- Registered Water Well
- Aquifer Boundary



Aquifer Description (Mapping Report - 2012):

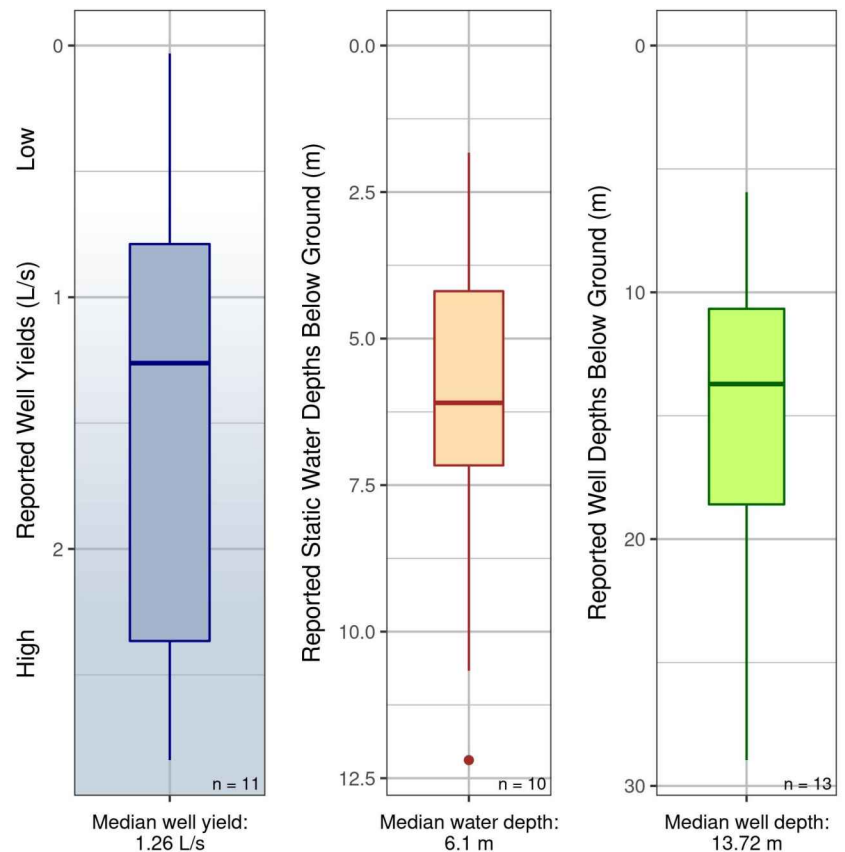
Predominantly unconfined deltaic sand and gravel aquifers are commonly found in deltas where a stream or smaller river flows into a standing body of water (subtype = 2).

Aquifer Details

Region	Kootenay
Water District	Nelson
Aquifer Area	1.2 km ²
No. Wells Correlated	13
Vulnerability to Contamination	High
Productivity	Moderate
Aquifer Classification	IIA
Hydraulic Conductivity *	Unknown
Transmissivity *	Unknown
Storativity *	Unknown
No. Water Licences Issued to Wells	Unknown
Observation Wells (Active, Inactive)	None

* min - max

For Hydraulic Connection see [guidance document](#)



Disclaimer: Use of information from Aquifer factsheets (accessed by BC government website) is subject to limitation of liability provisions (further described on that website). That information is provided by the BC government as a public service on an "as is" basis, without warranty of any kind, whether express or implied, and its use is at your own risk. Under no circumstances will the BC government, or its staff, agents and contractors, be responsible or liable to any person or business entity, for any direct, indirect, special, incidental, consequential or any other loss or damages to any person or business entity based on this factsheet or any use of information from it.

Detailed methods for all figures are described in the companion document ([Aquifer Factsheet - Companion Document.pdf](#)).

Factsheet generated: 2022-07-27. Aquifers online: <https://apps.nrs.gov.bc.ca/gwells/aquifers>.

AQUIFER CLASSIFICATION WORKSHEET

DATE: 31-Mar-12
AQUIFER REFERENCE NUMBER: 994
DESCRIPTIVE LOCATION OF AQUIFER: Kokanee Point, BC
NTS MAP SHEET: 082F11
BCGS MAP SHEET: 082F065

CLASSIFICATION: IIA

RANKING: 10

Aquifer Size:

1.18 km²

Aquifer Boundaries:

The aquifer boundaries were delineated based on well lithology, the extent of groundwater development, surficial soils mapping, and topography. The southern boundary is shown with a solid line along the west arm of Kootenay Lake between Crescent Bay and east of the Kokanee Narrows where the aquifer is believed to discharge. The northern boundary is shown as a dashed line where the valley bottom meets the valley wall at the base of Mount Yuill.

Aquifer Sub-type:

2

Aquifer Priority Rating for Observation Wells:

32.38

Geologic Formation (overlying materials):

clay, sand & fines, and boulders

Fifty-three percent of the wells log the aquifer material to surface. Where the aquifer material is not at surface, fluvial deposits of sand & fines, dirty sand & gravel, silt, clay, and some till and boulders are reported.

Geologic Formation (aquifer):

sand & gravel

Fluvial gravel, sand, and sand & gravel deposits. Aquifer materials are present at surface in 53% of the wells.

Confined/Partially Confined/Unconfined:

Partially Confined

Low permeable confining deposits of sand & fines, silt, till, and clay were reported in five of the thirteen wells within the aquifer. Where reported, the thickness of these deposits varies from

1.83 to 16.15 m. The average thickness of the low permeable deposits is 7.98 m. The median thickness is 8.23 m. These deposits are not aerially extensive. As well, 53 percent of the wells have logged the aquifer material to surface. This aquifer is considered partially confined with windows of vulnerability.

Vulnerability:

A - High

The depth to water is shallow. The permeability of the aquifer materials is high. The aquifer is partially confined with windows of vulnerability. The confining sediments are not aerially extensive and are comprised of some moderately permeable materials (sand & fines). Fifty-three percent of the wells log the aquifer material at surface. Therefore, although the aquifer is partially confined, majority of this aquifer is highly vulnerable to contamination from surface activities.

Productivity:

Moderate – 0.89 L/s (geomean)

Well yields were reported for 11 of the 13 wells within the aquifer with values ranging between 0.03 to 2.84 L/s. The geometric mean of the yield values is shown above and was used to calculate the aquifer rank. The median yield value is 1.26 L/s.

Depth to Water:

6.16 m (average)

Depth to water was reported for ten of the 13 wells with values ranging between 1.83 m and 12.19 m. The average depth to water is shown above. The median depth to water is 6.1 m.

Direction of Groundwater Flow:

This has not been determined. It is estimated that groundwater flow is from areas of high elevation in the north towards Kootenay Lake in the south and perhaps locally towards Kokanee Creek.

Recharge:

This has not been determined. It is estimated that recharge to this aquifer is from the infiltration of precipitation and discharge from bedrock aquifers to the north.

Domestic Well Density:

Moderate – 6.77 domestic wells/km²

The domestic well density was calculated based on four private domestic wells and four unknown wells with a yield of less than 1 L/s. An unknown well with a yield of less than 1 L/s was assumed to be representative of a domestic well.

Type of Water Use:

Drinking Water

Reliance on Source:

Conjunctive. There are natural springs and surface water licenses within this aquifer.

Conflicts between Users:

None documented.

Quantity Concerns:

One well has gone dry.

Quality Concerns:

None documented.

Comments:

Well depth ranges between 5.94 m and 28.96 m. The average and median well depths are 15.46 m and 14.28 m, respectively.

References:

Berardinucci J. and K. Ronneseth, 2002. Guide to Using the BC Aquifer Classification Maps For the Protection and Management of Groundwater. BC Ministry of Water, Land and Air Protection, Water Management Branch, Groundwater Section.

Fulton, R.J., I. Shetsen, and N.W. Rutter. 1984. Surficial Geology, Kootenay Lake, British Columbia – Alberta. Geological Survey of Canada, Open File 1084.

AQUIFER CLASSIFICATION AND RANKING

AQUIFER LOCATION: Kokanee Point, BC
AQUIFER REFERENCE NUMBER: 994
AQUIFER SUB-TYPE: 2
AQUIFER PRIORITY RATING FOR OBSERVATION WELLS: 32.38

CLASSIFICATION: IIA

RANKING: 10

Classification Component:

Level of Development – Moderate level of development and moderate productivity.

Level of Vulnerability – Depth to water is shallow, permeability of the aquifer material is high, the aquifer is partially confined but majority of the aquifer is vulnerable due to a lack of confining deposits present.

Ranking Component:

Ranking Value:

Productivity: 2
Vulnerability: 3
Size: 1
Demand*: 2
Type Of Use: 2
Quality:
Quantity:

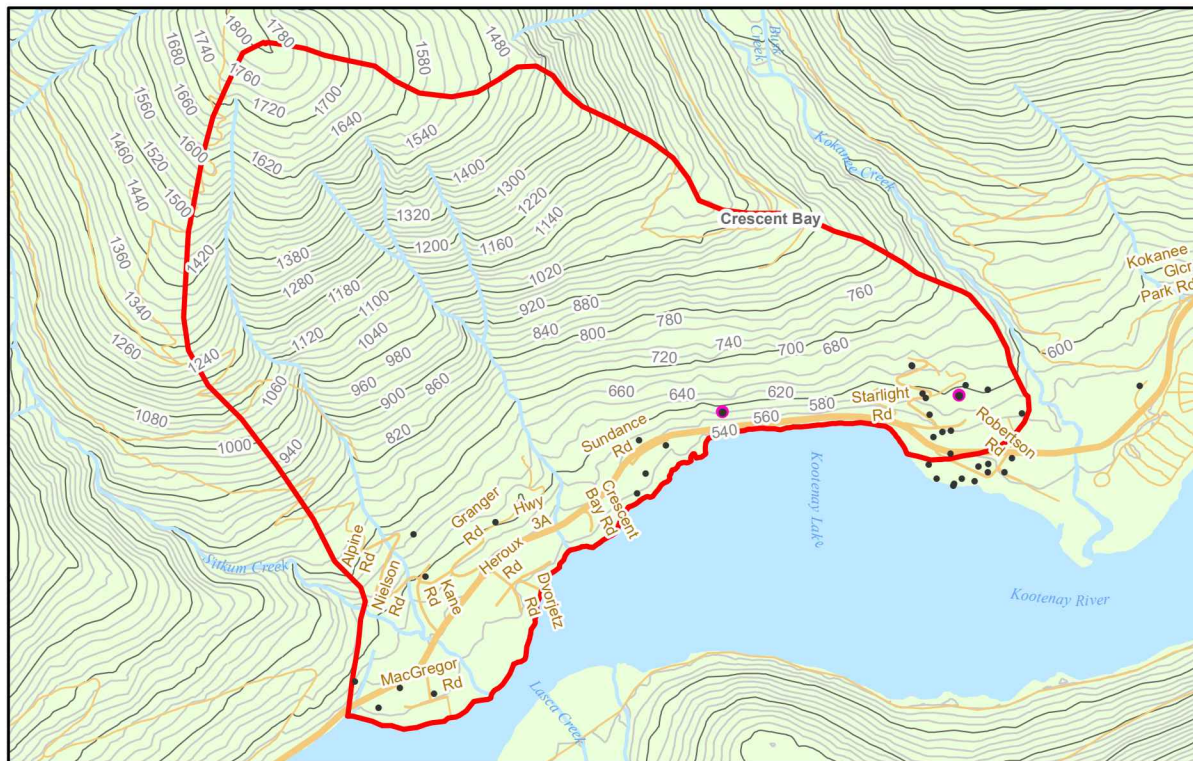
Total: 10

* Demand has been assessed subjectively. Demand is based on domestic well density, the presence of several water supply system wells, and general knowledge of well use and land use in the area. Demand assumes that the reported well capacity is the amount of water used, which can be misleading. The reported well capacity is often higher than actual use.

Statistical Summary of Well Data for Aquifer # 994

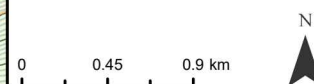
Total number of wells available for statistical 13

	Depth to Bedrock (m bgs)	Well Depth (m bgs)	Depth to Water (m bgs)	Reported Est. Well Yield (L/s)	Est. Thickness of Confining Materials (m)
Number of Wells	0	13	10	11	5
Maximum	0.00	28.96	12.19	2.84	16.15
Minimum		5.94	1.83	0.03	1.83
Average		15.46	6.16	1.40	7.98
Median	0.00	13.72	6.10	1.26	8.23
Geometric Mean	0.00	14.28	5.23	0.89	6.10



Legend

- Registered Water Well - Artesian
- Registered Water Well
- Aquifer Boundary



Aquifer Description (Mapping Report - 2012):

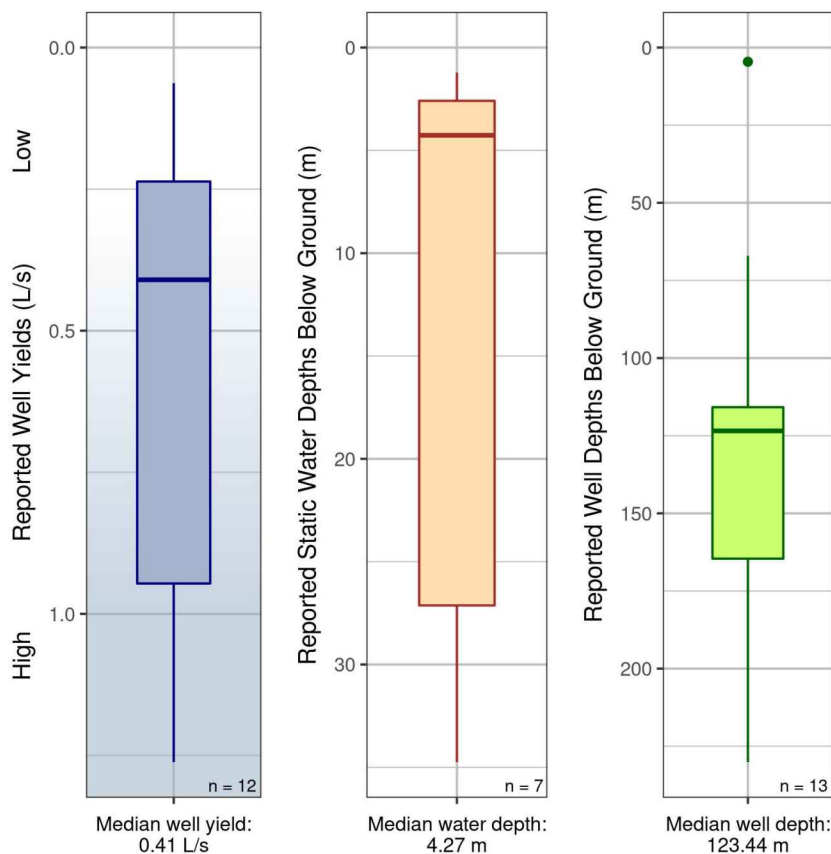
Fractured crystalline (igneous intrusive or meta-morphic, meta-sedimentary, meta-volcanic, volcanic) rock aquifer (subtype = 6b).

Aquifer Details

Region	Kootenay
Water District	Nelson
Aquifer Area	8.4 km ²
No. Wells Correlated	13
Vulnerability to Contamination	Moderate
Productivity	Moderate
Aquifer Classification	IIIB
Hydraulic Conductivity *	Unknown
Transmissivity *	Unknown
Storativity *	Unknown
No. Water Licences Issued to Wells	Unknown
Observation Wells (Active, Inactive)	None

* min - max

For Hydraulic Connection see [guidance document](#)



Disclaimer: Use of information from Aquifer factsheets (accessed by BC government website) is subject to limitation of liability provisions (further described on that website). That information is provided by the BC government as a public service on an "as is" basis, without warranty of any kind, whether express or implied, and its use is at your own risk. Under no circumstances will the BC government, or its staff, agents and contractors, be responsible or liable to any person or business entity, for any direct, indirect, special, incidental, consequential or any other loss or damages to any person or business entity based on this factsheet or any use of information from it.

Detailed methods for all figures are described in the companion document ([Aquifer Factsheet - Companion Document.pdf](#)).

Factsheet generated: 2022-07-27. Aquifers online: <https://apps.nrs.gov.bc.ca/gwells/aquifers>.

AQUIFER CLASSIFICATION WORKSHEET

DATE:	31-Mar-12
AQUIFER REFERENCE NUMBER:	1018
DESCRIPTIVE LOCATION OF AQUIFER:	Crescent Bay, BC
NTS MAP SHEET:	082F11
BCGS MAP SHEET:	082F065

CLASSIFICATION: IIB

RANKING: 9

Aquifer Size:

8.35 km²

Aquifer Boundaries:

The aquifer boundaries were delineated based on well lithology, the extent of groundwater development, bedrock geology, and the drainage area encompassing the extent of development (topography). The southern boundary is shown with a solid line along the west arm of Kootenay Lake between Longbeach and Fraser. The northern boundary is shown as a dashed line along the approximate drainage basin for the bedrock aquifer. This aquifer may be hydraulically connected (discharging to) aquifer 9939.

Aquifer Sub-type:

6b

Aquifer Priority Rating for Observation Wells:

24.64

Geologic Formation (overlying materials):

clay & till

From surficial soils maps, the overlying deposits are mostly sandy tills (Fulton et. al, 1984). The thickness of the overlying deposits vary between 2.44 and 25.91 m and are described as clay, gravel, boulders, and till.

Geologic Formation (aquifer):

bedrock

Fractured bedrock. Bedrock is made up of granodioritic intrusive rocks of the Nelson Batholith Group from the Mesozoic Era (Massy et. at., 2005). Within the well logs, bedrock was characterized as granite or simply referred to as 'bedrock'.

Confined/Partially Confined/Unconfined:

Partially Confined

Five of the 13 wells report low permeable confining deposits above the bedrock. These five wells are distributed across the southern extents of the aquifer. The eight wells that do not report low permeable confining deposits above the bedrock are within the south-eastern extents of the aquifer. Therefore, although only a few wells report the presence of confining deposits, the deposits are expected to be aurally extensive with localized windows of vulnerability in the southeast. The confining deposits are described as clay and till. Where present, the confining thickness varies between 3.05 m and 22.86 m. The average and median thicknesses of the confining deposits are 10.18 m and 9.14 m, respectively.

In the southeast where confining deposits are not reported, high permeable materials (gravel, cobbles, and boulders) were reported above the bedrock. In this region, there are localized windows of vulnerability to the aquifer.

Vulnerability:

B - Moderate

The depth to water is shallow. The permeability of the aquifer materials is low (fractured bedrock). The aquifer is partially confined with localized windows of vulnerability in the southeast. The average thickness of the confining deposits is 10.18 m.

Productivity:

Moderate – 0.4 L/s (geomean)

Well yields were reported for 12 of the 13 wells within the aquifer with values ranging between 0.06 L/s and 1.26 L/s. The geometric mean of the yield values is shown above and was used to calculate the aquifer rank. The median yield value is 0.38 L/s.

Depth to Water:

14.24 m (average)

Depth to water was reported for ten of the seven wells with values ranging between 1.22 m and 34.75 m. The average depth to water is shown above. The median depth to water is 4.27 m.

Direction of Groundwater Flow:

This has not been determined. It is estimated that groundwater flow is from areas of high elevation in the north towards Kootenay Lake in the south.

Recharge:

This has not been determined. It is estimated that recharge to this aquifer is from the infiltration of precipitation and discharge is to the surficial aquifer and Kootenay Lake in the south.

Domestic Well Density:

Low – 1.4 domestic wells/km²

The domestic well density was calculated based on ten private domestic wells and two unknown wells with a yield of less than 1 L/s. An unknown well with a yield of less than 1 L/s was assumed to be representative of a domestic well.

Type of Water Use:

Drinking Water

None of the wells are listed as commercial/industrial or irrigation wells. Therefore, they are assumed to be for drinking water purposes.

Reliance on Source:

Conjunctive. There are natural springs and surface water licenses within this aquifer.

Conflicts between Users:

None documented.

Quantity Concerns:

None documented.

Quality Concerns:

None documented.

Comments:

Well depth ranges between 4.57 m and 230.12 m. The average and median well depths are 132.45 m and 123.44 m, respectively.

References:

Berardinucci J. and K. Ronneseth, 2002. Guide to Using the BC Aquifer Classification Maps For the Protection and Management of Groundwater. BC Ministry of Water, Land and Air Protection, Water Management Branch, Groundwater Section.

Fulton, R.J., I. Shetsen, and N.W. Rutter. 1984. Surficial Geology, Kootenay Lake, British Columbia – Alberta. Geological Survey of Canada, Open File 1084.

Massey, N.W.D., D.G. Mac Intyre, P.J. Desjardins, and R.T. Cooney. 2005. Digital Geology of British Columbia: Whole Province. B.C. Ministry of Energy and Mines, Geofile 2005-1.

AQUIFER CLASSIFICATION AND RANKING

AQUIFER LOCATION: Crescent Bay, BC
AQUIFER REFERENCE NUMBER: 1018
AQUIFER SUB-TYPE: 6b
AQUIFER PRIORITY RATING FOR OBSERVATION WELLS: 24.64

CLASSIFICATION: IIB

RANKING: 9

Classification Component:

Level of Development – Low level of development and moderate productivity.

Level of Vulnerability – Depth to water is moderately shallow, permeability of the aquifer material is low, the aquifer is partially confined but there are windows of vulnerability within the southeast.

Ranking Component:

Ranking Value:

Productivity:	2
Vulnerability:	2
Size:	2
Demand*:	1
Type Of Use:	2
Quality:	
Quantity:	

Total: 9

* Demand has been assessed subjectively. Demand is based on domestic well density, the presence of several water supply system wells, and general knowledge of well use and land use in the area. Demand assumes that the reported well capacity is the amount of water used, which can be misleading. The reported well capacity is often higher than actual use.

Statistical Summary of Well Data for Aquifer # 1018

Total number of wells available for statistical 13

	Depth to Bedrock (m bgs)	Well Depth (m bgs)	Depth to Water (m bgs)	Reported Est. Well Yield (L/s)	Est. Thickness of Confining Materials (m)
Number of Wells	9	13	7	12	5
Maximum	25.91	230.12	34.75	1.26	22.86
Minimum	2.44	4.57	1.22	0.06	3.05
Average	9.99	132.45	14.24	0.57	10.18
Median	4.57	123.44	4.27	0.38	9.14
Geometric Mean	7.08	104.28	7.03	0.40	7.78



Well Summary

Well Tag Number: 16615

Well Status: Abandoned

Observation Well Number:

Well Identification Plate Number:

Well Class: Water Supply

Observation Well Status:

Owner Name: TOM ROOS BC PARKS KOOTENAY REGION

Well Subclass: Not Applicable

Environmental Monitoring System (EMS) ID:

Intended Water Use: Unknown Well Use

Aquifer Number: 994

Alternative specs submitted: No

Artesian Condition: No

Technical Report: N/A

Drinking Water Area Indicator: No

Licensing Information

Licensed Status: Unlicensed

Licence Number:

Location Information

Street Address: KOKANEE PROVINCIAL PARK
Town/City: KOKANEE PARK

Legal Description:

Lot	
Plan	
District Lot	
Block	
Section	
Township	
Range	
Land District	26
Property Identification Description (PID)	

Description of Well Location:



Geographic Coordinates - North American Datum of 1983 (NAD 83)

Latitude: 49.60504
Longitude: -117.130874
UTM Easting: 490544
UTM Northing: 5494727
Zone: 11
Coordinate Acquisition Code: (100 m accuracy) Digitized from old Dept. of Lands, Forests and Water Resources maps

Well Activity

Activity	Work Start Date	Work End Date	Drilling Company	Date Entered
Legacy record	1960-08-01	1960-08-01	G. & G. Well Drilling	August 13th 2003 at 2:43 AM

Well Work Dates

Start Date of Construction	End Date of Construction	Start Date of Alteration	End Date of Alteration	Start Date of Decommission	End Date of Decommission
1960-08-01	1960-08-01				

Well Completion Data

Total Depth Drilled:

Estimated Well Yield: 35 USgpm

Static Water Level (BTOC): 22 feet btoc

Finished Well Depth: 50 ft bgl

Well Cap:

Artesian Flow:

Final Casing Stick Up:

Well Disinfected Status: Not Disinfected

Artesian Pressure (head):

Depth to Bedrock:

Drilling Method: Other

Artesian Pressure (PSI):

Ground elevation:

Method of determining elevation: Unknown

Orientation of Well: VERTICAL

Lithology

From (ft bgl)	To (ft bgl)	Raw Data	Description	Moisture	Colour	Hardness	Observations	Water Bearing Flow Estimate (USGPM)
0	19	gravel and boulders						
19	22	silty sand						
22	24	bldrs sand and water						
24	30	silty sand						
30	31	crse sand and water						
31	40	fine grvl and crse sand						
40	50	grvl and sand						

Casing Details

From	To	Casing Type	Casing Material	Diameter	Wall Thickness	Drive Shoe
There are no records to show						

Surface Seal and Backfill Details

Surface Seal Material:

Backfill Material Above Surface Seal:

Surface Seal Installation Method:

Backfill Depth:

Surface Seal Thickness:

Surface Seal Depth:

Liner Details

Liner Material:

Liner Diameter:

Liner Thickness:

Liner from:

Liner to:

Liner perforations

From	To
There are no records to show	

Screen Details

Intake Method:

Type:

Material:

Opening:

Bottom:

Installed Screens

From	To	Diameter	Assembly Type	Slot Size
There are no records to show				

Well Development

Developed by:

Development Total Duration:

Well Yield

Estimation Method:

Estimation Rate:

Estimation Duration:

Static Water Level Before Test:

Drawdown:

Hydrofracturing Performed: No

Increase in Yield Due to Hydrofracturing:

Well Decommission Information

Reason for Decommission:

Method of Decommission:

Sealant Material:

Backfill Material:

Decommission Details:

Pumping Test Information and Aquifer Parameters

Start Date	Description	Test Duration (min)	Boundary Effect	Storativity	Transmissivity (m ² /day)	Hydraulic Conductivity (m/day)	Specific Yield	Specific Capacity (L/s/m)	Analysis Method	Comments
There are no records to show										

Comments

METHOD OF DRILLING = DRILLED

Documents

Well Number	Document Type	Date Of Upload	Document Status	Uploaded Document
16615	Unknown	Date Unknown	Public Document	WTN 16615 Well Record.pdf

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Well Summary

Well Tag Number: 26469

Well Status: New

Observation Well Number:

Well Identification Plate Number:

Well Class: Unknown

Observation Well Status:

Owner Name: JAMES CALDICOTT

Well Subclass:

Environmental Monitoring System (EMS) ID:

Intended Water Use: Unknown Well Use

Aquifer Number: 994

Alternative specs submitted: No

Artesian Condition: No

Technical Report: N/A

Drinking Water Area Indicator: No

Licensing Information

Licensed Status: Unlicensed

Licence Number:

Location Information

Street Address:
Town/City: KOKANEE

Legal Description:

Lot	
Plan	
District Lot	790
Block	
Section	
Township	
Range	
Land District	26
Property Identification Description (PID)	

Description of Well Location:



Geographic Coordinates - North American Datum of 1983 (NAD 83)

Latitude: 49.604173

Longitude: -117.133792

UTM Easting: 490333

UTM Northing: 5494631

Zone: 11

Coordinate Acquisition Code: (100 m accuracy) Digitized from old Dept. of Lands, Forests and Water Resources maps

Well Activity

Activity	Work Start Date	Work End Date	Drilling Company	Date Entered
Legacy record	1972-06-14	1972-06-14	Pacific Pump & Pressure	August 13th 2003 at 2:43 AM

Well Work Dates

Start Date of Construction	End Date of Construction	Start Date of Alteration	End Date of Alteration	Start Date of Decommission	End Date of Decommission
1972-06-14	1972-06-14				

Well Completion Data

Total Depth Drilled:

Estimated Well Yield: 40 USgpm

Static Water Level (BTOC):

Finished Well Depth: 35 ft bgl

Well Cap:

Artesian Flow:

Final Casing Stick Up:

Well Disinfected Status: Not Disinfected

Artesian Pressure (head):

Depth to Bedrock:

Drilling Method:

Artesian Pressure (PSI):

Ground elevation:

Method of determining elevation: Unknown

Orientation of Well: VERTICAL

Lithology

From (ft bgl)	To (ft bgl)	Raw Data	Description	Moisture	Colour	Hardness	Observations	Water Bearing Flow Estimate (USGPM)
0	0	Set 3 ft. iron slotted pipe screen,						
0	0	pumped at 40 GPM.						
0	27	fine dense sand						
0	31	med. sand						
0	35	med. and crse sand and grvl						

Casing Details

From	To	Casing Type	Casing Material	Diameter	Wall Thickness	Drive Shoe
There are no records to show						

Surface Seal and Backfill Details

Surface Seal Material:

Backfill Material Above Surface Seal:

Surface Seal Installation Method:

Backfill Depth:

Surface Seal Thickness:

Surface Seal Depth:

Liner Details

Liner Material:

Liner Diameter:

Liner Thickness:

Liner from:

Liner to:

Liner perforations

From	To
There are no records to show	

Screen Details

Intake Method:

Type:

Material:

Opening:

Bottom:

Installed Screens

From	To	Diameter	Assembly Type	Slot Size
There are no records to show				

Well Development

Developed by:

Development Total Duration:

Well Yield

Estimation Method:

Estimation Rate:

Estimation Duration:

Static Water Level Before Test:

Drawdown:

Hydrofracturing Performed: No

Increase in Yield Due to Hydrofracturing:

Well Decommission Information

Reason for Decommission:

Method of Decommission:

Sealant Material:

Backfill Material:

Decommission Details:

Pumping Test Information and Aquifer Parameters

Start Date	Description	Test Duration (min)	Boundary Effect	Storativity	Transmissivity (m ² /day)	Hydraulic Conductivity (m/day)	Specific Yield	Specific Capacity (L/s/m)	Analysis Method	Comments
There are no records to show										

Comments

No comments submitted

Documents

Well Number	Document Type	Date Of Upload	Document Status	Uploaded Document
26469	Unknown	Date Unknown	Public Document	WTN 26469 Well Record.pdf

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Well Summary

Well Tag Number: 26477

Well Status: New

Observation Well Number:

Well Identification Plate Number:

Well Class: Unknown

Observation Well Status:

Owner Name: G BREDL

Well Subclass:

Environmental Monitoring System (EMS) ID:

Intended Water Use: Unknown Well Use

Aquifer Number: 1018

Alternative specs submitted: No

Artesian Condition: No

Technical Report: N/A

Drinking Water Area Indicator: No

Licensing Information

Licensed Status: Unlicensed

Licence Number:

Location Information

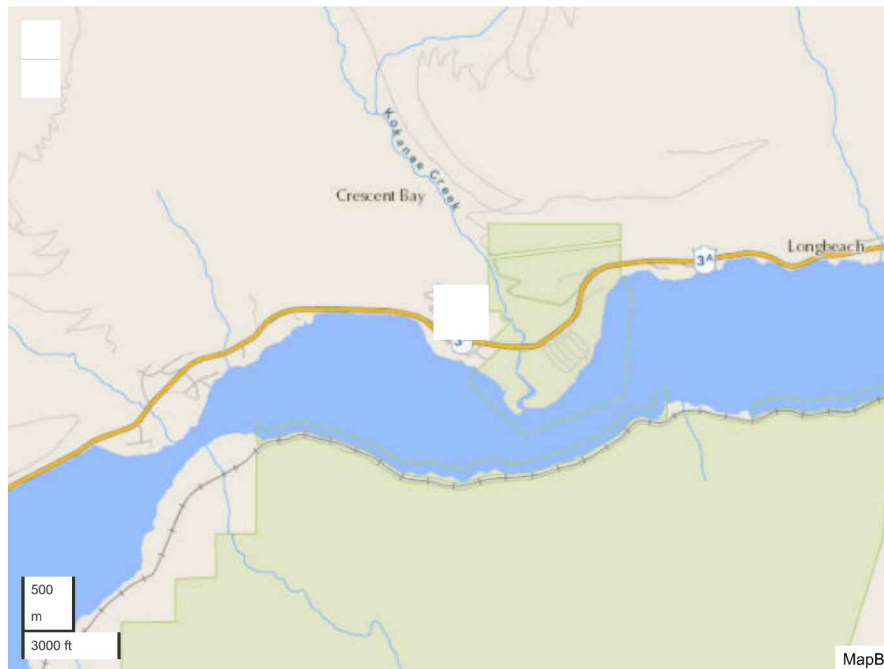
Street Address:

Town/City: KOKANEE

Legal Description:

Lot	1
Plan	8283
District Lot	790
Block	
Section	
Township	
Range	
Land District	26
Property Identification Description (PID)	

Description of Well Location:



MapBox | Government of British Columbia, DataBC, GeoBC

Geographic Coordinates - North American Datum of 1983 (NAD 83)

Latitude: 49.60562

Longitude: -117.135263

UTM Easting: 490227

UTM Northing: 5494792

Zone: 11

Coordinate Acquisition Code: (100 m accuracy) Digitized from old Dept. of Lands, Forests and Water Resources maps

Well Activity

Activity	Work Start Date	Work End Date	Drilling Company	Date Entered
Legacy record	1972-06-15	1972-06-15	Pacific Pump & Pressure	August 13th 2003 at 2:43 AM

Well Work Dates

Start Date of Construction	End Date of Construction	Start Date of Alteration	End Date of Alteration	Start Date of Decommission	End Date of Decommission
1972-06-15	1972-06-15				

Well Completion Data

Total Depth Drilled:

Estimated Well Yield:

Static Water Level (BTOC):

Finished Well Depth: 15 ft bgl

Well Cap:

Artesian Flow:

Final Casing Stick Up:

Well Disinfected Status: Not Disinfected

Artesian Pressure (head):

Depth to Bedrock: 15 feet bgl

Drilling Method:

Artesian Pressure (PSI):

Ground elevation:

Method of determining elevation: Unknown

Orientation of Well: VERTICAL

Lithology

From (ft bgl)	To (ft bgl)	Raw Data	Description	Moisture	Colour	Hardness	Observations	Water Bearing Flow Estimate (USGPM)
0	0	gravel wet and looser at 11-14 ft., but						
0	0	not enough depth for screening						
0	2	turf and topsoil						
0	14	hard dirty cemented gravel						
0	15	bedrock						

Casing Details

From	To	Casing Type	Casing Material	Diameter	Wall Thickness	Drive Shoe
There are no records to show						

Surface Seal and Backfill Details

Surface Seal Material:

Backfill Material Above Surface Seal:

Surface Seal Installation Method:

Backfill Depth:

Surface Seal Thickness:

Surface Seal Depth:

Liner Details

Liner Material:

Liner Diameter:

Liner Thickness:

Liner from:

Liner to:

Liner perforations

From	To
There are no records to show	

Screen Details

Intake Method:

Type:

Material:

Opening:

Bottom:

Installed Screens

From	To	Diameter	Assembly Type	Slot Size
There are no records to show				

Well Development

Developed by:

Development Total Duration:

Well Yield

Estimation Method:

Estimation Rate:

Estimation Duration:

Static Water Level Before Test:

Drawdown:

Hydrofracturing Performed: No

Increase in Yield Due to Hydrofracturing:

Well Decommission Information

Reason for Decommission:

Method of Decommission:

Sealant Material:

Backfill Material:

Decommission Details:

Pumping Test Information and Aquifer Parameters

Start Date	Description	Test Duration (min)	Boundary Effect	Storativity	Transmissivity (m ² /day)	Hydraulic Conductivity (m/day)	Specific Yield	Specific Capacity (L/s/m)	Analysis Method	Comments
There are no records to show										

Comments

DRY HOLE

Documents

Well Number	Document Type	Date Of Upload	Document Status	Uploaded Document
26477	Unknown	Date Unknown	Public Document	WTN 26477 Well Record.pdf

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Well Summary

Well Tag Number: 34912

Well Status: New

Observation Well Number:

Well Identification Plate Number:

Well Class: Unknown

Observation Well Status:

Owner Name: HERMEN MEHRER

Well Subclass:

Environmental Monitoring System (EMS) ID:

Intended Water Use: Not Applicable

Aquifer Number: 994

Alternative specs submitted: No

Artesian Condition: No

Technical Report: N/A

Drinking Water Area Indicator: No

Licensing Information

Licensed Status: Unlicensed

Licence Number:

Location Information

Street Address: NORTH SHORE
Town/City: NELSON

Legal Description:

Lot	19
Plan	2628
District Lot	790
Block	6
Section	
Township	
Range	
Land District	26
Property Identification Description (PID)	

Description of Well Location:



MapBox | Government of British Columbia, DataBC, GeoBC

Geographic Coordinates - North American Datum of 1983 (NAD 83)

Latitude: 49.6049
Longitude: -117.13265
UTM Easting: 490416
UTM Northing: 5494712
Zone: 11
Coordinate Acquisition Code: (100 m accuracy) Digitized from old Dept. of Lands, Forests and Water Resources maps

Well Activity

Activity	Work Start Date	Work End Date	Drilling Company	Date Entered
Legacy record	1976-06-01	1976-06-01	H. & W. Aqua Drilling	August 13th 2003 at 2:43 AM

Well Work Dates

Start Date of Construction	End Date of Construction	Start Date of Alteration	End Date of Alteration	Start Date of Decommission	End Date of Decommission
1976-06-01	1976-06-01				

Well Completion Data

Total Depth Drilled:

Estimated Well Yield: 10 USgpm

Static Water Level (BTOC): 24 feet btoc

Finished Well Depth: 50 ft bgl

Well Cap:

Artesian Flow:

Final Casing Stick Up:

Well Disinfected Status: Not Disinfected

Artesian Pressure (head):

Depth to Bedrock:

Drilling Method: Other

Artesian Pressure (PSI):

Ground elevation:

Method of determining elevation: Unknown

Orientation of Well: VERTICAL

Lithology

From (ft bgl)	To (ft bgl)	Raw Data	Description	Moisture	Colour	Hardness	Observations	Water Bearing Flow Estimate (USGPM)
0	24	boulders						
24	45	sand						
45	50	sand and gravel					Source of water: 30 GPM at 50'	30

Casing Details

From	To	Casing Type	Casing Material	Diameter	Wall Thickness	Drive Shoe
There are no records to show						

Surface Seal and Backfill Details

Surface Seal Material:

Backfill Material Above Surface Seal:

Surface Seal Installation Method:

Backfill Depth:

Surface Seal Thickness:

Surface Seal Depth:

Liner Details

Liner Material:

Liner Diameter:

Liner Thickness:

Liner from:

Liner to:

Liner perforations

From	To
There are no records to show	

Screen Details

Intake Method:

Type:

Material:

Opening:

Bottom:

Installed Screens

From	To	Diameter	Assembly Type	Slot Size
There are no records to show				

Well Development

Developed by:

Development Total Duration:

Well Yield

Estimation Method:

Estimation Rate:

Estimation Duration:

Static Water Level Before Test:

Drawdown:

Hydrofracturing Performed: No

Increase in Yield Due to Hydrofracturing:

Well Decommission Information

Reason for Decommission:

Method of Decommission:

Sealant Material:

Backfill Material:

Decommission Details:

Pumping Test Information and Aquifer Parameters

Start Date	Description	Test Duration (min)	Boundary Effect	Storativity	Transmissivity (m ² /day)	Hydraulic Conductivity (m/day)	Specific Yield	Specific Capacity (L/s/m)	Analysis Method	Comments
There are no records to show										

Comments

METHOD OF DRILLING = DRILLED

Documents

Well Number	Document Type	Date Of Upload	Document Status	Uploaded Document
34912	Unknown	Date Unknown	Public Document	WTN 34912 Well Record.pdf

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Well Summary

Well Tag Number: 35593

Well Status: New

Observation Well Number:

Well Identification Plate Number:

Well Class: Unknown

Observation Well Status:

Owner Name: JIM BELL

Well Subclass:

Environmental Monitoring System (EMS) ID:

Intended Water Use: Unknown Well Use

Aquifer Number: 994

Alternative specs submitted: No

Artesian Condition: No

Technical Report: N/A

Drinking Water Area Indicator: No

Licensing Information

Licensed Status: Unlicensed

Licence Number:

Location Information

Street Address: NORTH SHORE
Town/City: NELSON

Legal Description:

Lot	2
Plan	10017
District Lot	790
Block	
Section	
Township	
Range	
Land District	26
Property Identification Description (PID)	

Description of Well Location:



Geographic Coordinates - North American Datum of 1983 (NAD 83)

Latitude: 49.604849

Longitude: -117.133365

UTM Easting: 490364

UTM Northing: 5494706

Zone: 11

Coordinate Acquisition Code: (100 m accuracy) Digitized from old Dept. of Lands, Forests and Water Resources maps

Well Activity

Activity	Work Start Date	Work End Date	Drilling Company	Date Entered
Legacy record	1976-09-01	1976-09-01	Double J Well Drilling	August 13th 2003 at 2:43 AM

Well Work Dates

Start Date of Construction	End Date of Construction	Start Date of Alteration	End Date of Alteration	Start Date of Decommission	End Date of Decommission
1976-09-01	1976-09-01				

Well Completion Data

Total Depth Drilled:

Estimated Well Yield: 15 USgpm

Static Water Level (BTOC): 35 feet btoc

Finished Well Depth: 61 ft bgl

Well Cap:

Artesian Flow:

Final Casing Stick Up:

Well Disinfected Status: Not Disinfected

Artesian Pressure (head):

Depth to Bedrock:

Drilling Method: Other

Artesian Pressure (PSI):

Ground elevation:

Method of determining elevation: Unknown

Orientation of Well: VERTICAL

Lithology

From (ft bgl)	To (ft bgl)	Raw Data	Description	Moisture	Colour	Hardness	Observations	Water Bearing Flow Estimate (USGPM)
0	61	sand and gravel						

Casing Details

From	To	Casing Type	Casing Material	Diameter	Wall Thickness	Drive Shoe
There are no records to show						

Surface Seal and Backfill Details

Surface Seal Material:

Backfill Material Above Surface Seal:

Surface Seal Installation Method:

Backfill Depth:

Surface Seal Thickness:

Surface Seal Depth:

Liner Details

Liner Material:

Liner Diameter:

Liner Thickness:

Liner from:

Liner to:

Liner perforations

From	To
There are no records to show	

Screen Details

Intake Method:

Type:

Material:

Opening:

Bottom:

Installed Screens

From	To	Diameter	Assembly Type	Slot Size
There are no records to show				

Well Development

Developed by:

Development Total Duration:

Well Yield

Estimation Method:

Estimation Rate:

Estimation Duration:

Static Water Level Before Test:

Drawdown:

Hydrofracturing Performed: No

Increase in Yield Due to Hydrofracturing:

Well Decommission Information

Reason for Decommission:

Method of Decommission:

Sealant Material:

Backfill Material:

Decommission Details:

Pumping Test Information and Aquifer Parameters

Start Date	Description	Test Duration (min)	Boundary Effect	Storativity	Transmissivity (m ² /day)	Hydraulic Conductivity (m/day)	Specific Yield	Specific Capacity (L/s/m)	Analysis Method	Comments
There are no records to show										

Comments

SOME ORANGE ALGAE (IN THE TOILET TANK). WATER IS FAIRLY SOFT. NO PROBLEM WITH SUPPLY. METHOD OF DRILLING = DRILLED

Documents

Well Number	Document Type	Date Of Upload	Document Status	Uploaded Document
35593	Unknown	Date Unknown	Public Document	WTN 35593 Well Record.pdf

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Well Summary

Well Tag Number: 39860

Well Status: New

Observation Well Number:

Well Identification Plate Number:

Well Class: Unknown

Observation Well Status:

Owner Name: FRANK PRICE

Well Subclass:

Environmental Monitoring System (EMS) ID:

Intended Water Use: Unknown Well Use

Aquifer Number: 1018

Alternative specs submitted: No

Artesian Condition: No

Technical Report: N/A

Drinking Water Area Indicator: No

Licensing Information

Licensed Status: Unlicensed

Licence Number:

Location Information

Street Address:
Town/City: NELSON

Legal Description:

Lot	5
Plan	813
District Lot	790
Block	
Section	
Township	
Range	
Land District	26
Property Identification Description (PID)	

Description of Well Location:



Geographic Coordinates - North American Datum of 1983 (NAD 83)

Latitude: 49.608376

Longitude: -117.131991

UTM Easting: 490464

UTM Northing: 5495098

Zone: 11

Coordinate Acquisition Code: (100 m accuracy) Digitized from old Dept. of Lands, Forests and Water Resources maps

Well Activity

Activity	Work Start Date	Work End Date	Drilling Company	Date Entered
Legacy record	1978-06-11	1978-06-11	H. & W. Aqua Drilling	August 13th 2003 at 2:43 AM

Well Work Dates

Start Date of Construction	End Date of Construction	Start Date of Alteration	End Date of Alteration	Start Date of Decommission	End Date of Decommission
1978-06-11	1978-06-11				

Well Completion Data

Total Depth Drilled:

Estimated Well Yield: 15 USgpm

Static Water Level (BTOC): 100 feet btoc

Finished Well Depth: 470 ft bgl

Well Cap:

Artesian Flow:

Final Casing Stick Up:

Well Disinfected Status: Not Disinfected

Artesian Pressure (head):

Depth to Bedrock: 45 feet bgl

Drilling Method:

Artesian Pressure (PSI):

Ground elevation:

Method of determining elevation: Unknown

Orientation of Well: VERTICAL

Lithology

From (ft bgl)	To (ft bgl)	Raw Data	Description	Moisture	Colour	Hardness	Observations	Water Bearing Flow Estimate (USGPM)
0	0	coarse gravel						
0	45	bldrs						
45	470	bedrock						

Casing Details

From	To	Casing Type	Casing Material	Diameter	Wall Thickness	Drive Shoe
There are no records to show						

Surface Seal and Backfill Details

Surface Seal Material:

Backfill Material Above Surface Seal:

Surface Seal Installation Method:

Backfill Depth:

Surface Seal Thickness:

Surface Seal Depth:

Liner Details

Liner Material:

Liner Diameter:

Liner Thickness:

Liner from:

Liner to:

Liner perforations

From	To
There are no records to show	

Screen Details

Intake Method:

Type:

Material:

Opening:

Bottom:

Installed Screens

From	To	Diameter	Assembly Type	Slot Size
There are no records to show				

Well Development

Developed by:

Development Total Duration:

Well Yield

Estimation Method:

Estimation Rate:

Estimation Duration:

Static Water Level Before Test:

Drawdown:

Hydrofracturing Performed: No

Increase in Yield Due to Hydrofracturing:

Well Decommission Information

Reason for Decommission:

Method of Decommission:

Sealant Material:

Backfill Material:

Decommission Details:

Pumping Test Information and Aquifer Parameters

Start Date	Description	Test Duration (min)	Boundary Effect	Storativity	Transmissivity (m ² /day)	Hydraulic Conductivity (m/day)	Specific Yield	Specific Capacity (L/s/m)	Analysis Method	Comments
There are no records to show										

Comments

WATER IS SOFT. NO PROBLEM WITH SUPPLY.

Documents

Well Number	Document Type	Date Of Upload	Document Status	Uploaded Document
39860	Unknown	Date Unknown	Public Document	WTN 39860 Well Record.pdf

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Well Summary

Well Tag Number: 51893

Well Status: New

Observation Well Number:

Well Identification Plate Number:

Well Class: Unknown

Observation Well Status:

Owner Name: STUART MCDONALD

Well Subclass:

Environmental Monitoring System (EMS) ID:

Intended Water Use: Unknown Well Use

Aquifer Number: 1018

Alternative specs submitted: No

Artesian Condition: No

Technical Report: N/A

Drinking Water Area Indicator: No

Licensing Information

Licensed Status: Unlicensed

Licence Number:

Location Information

Street Address: CRESCENT BEACH

Town/City:

Legal Description:

Lot	3
Plan	813
District Lot	790
Block	
Section	
Township	
Range	
Land District	26
Property Identification Description (PID)	

Description of Well Location:



Geographic Coordinates - North American Datum of 1983 (NAD 83)

Latitude: 49.608353

Longitude: -117.136544

UTM Easting: 490135

UTM Northing: 5495096

Zone: 11

Coordinate Acquisition Code: (100 m accuracy) Digitized from old Dept. of Lands, Forests and Water Resources maps

Well Activity

Activity	Work Start Date	Work End Date	Drilling Company	Date Entered
Legacy record	1983-03-01		Owen's Drilling Ltd.	August 13th 2003 at 2:43 AM

Well Work Dates

Start Date of Construction	End Date of Construction	Start Date of Alteration	End Date of Alteration	Start Date of Decommission	End Date of Decommission
1983-03-01					

Well Completion Data

Total Depth Drilled:

Estimated Well Yield: 11 USgpm

Static Water Level (BTOC):

Finished Well Depth: 380 ft bgl

Well Cap:

Artesian Flow:

Final Casing Stick Up:

Well Disinfected Status: Not Disinfected

Artesian Pressure (head):

Depth to Bedrock: 55 feet bgl

Drilling Method: Other

Artesian Pressure (PSI):

Ground elevation:

Method of determining elevation: Unknown

Orientation of Well: VERTICAL

Lithology

From (ft bgl)	To (ft bgl)	Raw Data	Description	Moisture	Colour	Hardness	Observations	Water Bearing Flow Estimate (USGPM)
0	3	sandy clay						
3	25	gravel						
25	55	hardpan						
55	380	bedrock						

Casing Details

From	To	Casing Type	Casing Material	Diameter	Wall Thickness	Drive Shoe
There are no records to show						

Surface Seal and Backfill Details

Surface Seal Material: Other

Backfill Material Above Surface Seal:

Surface Seal Installation Method:

Backfill Depth:

Surface Seal Thickness:

Surface Seal Depth:

Liner Details

Liner Material:

Liner Diameter:

Liner Thickness:

Liner from:

Liner to:

Liner perforations

From	To
There are no records to show	

Screen Details

Intake Method:

Type:

Material: Other

Opening:

Bottom:

Installed Screens

From	To	Diameter	Assembly Type	Slot Size
There are no records to show				

Well Development

Developed by:

Development Total Duration:

Well Yield

Estimation Method:

Estimation Rate:

Estimation Duration:

Static Water Level Before Test:

Drawdown:

Hydrofracturing Performed: No

Increase in Yield Due to Hydrofracturing:

Well Decommission Information

Reason for Decommission:

Method of Decommission:

Sealant Material:

Backfill Material:

Decommission Details:

Pumping Test Information and Aquifer Parameters

Start Date	Description	Test Duration (min)	Boundary Effect	Storativity	Transmissivity (m ² /day)	Hydraulic Conductivity (m/day)	Specific Yield	Specific Capacity (L/s/m)	Analysis Method	Comments
There are no records to show										

Comments

METHOD OF DRILLING = DRILLED

Documents

Well Number	Document Type	Date Of Upload	Document Status	Uploaded Document
51893	Unknown	Date Unknown	Public Document	WTN 51893 Well Record.pdf

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Well Summary

Well Tag Number: 66193

Well Status: New

Observation Well Number:

Well Identification Plate Number:

Well Class: Water Supply

Observation Well Status:

Owner Name: KOZAK LORN

Well Subclass:

Environmental Monitoring System (EMS) ID:

Intended Water Use: Private Domestic

Aquifer Number: 1018

Alternative specs submitted: No

Artesian Condition: No

Technical Report: N/A

Drinking Water Area Indicator: No

Licensing Information

Licensed Status: Unlicensed

Licence Number:

Location Information

Street Address:

Town/City:

Legal Description:

Lot	2
Plan	813
District Lot	790
Block	
Section	
Township	
Range	
Land District	26
Property Identification Description (PID)	

Description of Well Location:



Geographic Coordinates - North American Datum of 1983 (NAD 83)

Latitude: 49.60998

Longitude: -117.137269

UTM Easting: 490083

UTM Northing: 5495277

Zone: 11

Coordinate Acquisition Code: unknown, accuracy based on parcel size) ICF cadastre, poor or no location sketch, arbitrarily located in center of parcel

Well Activity

Activity	Work Start Date	Work End Date	Drilling Company	Date Entered
Legacy record	1989-10-24		Owen's Drilling Ltd.	August 13th 2003 at 8:51 AM

Well Work Dates

Start Date of Construction	End Date of Construction	Start Date of Alteration	End Date of Alteration	Start Date of Decommission	End Date of Decommission
1989-10-24					

Well Completion Data

Total Depth Drilled:**Estimated Well Yield:** 20 USgpm**Static Water Level (BTOC):****Finished Well Depth:** 220 ft bgl**Well Cap:****Artesian Flow:****Final Casing Stick Up:****Well Disinfected Status:** Not Disinfected**Artesian Pressure (head):****Depth to Bedrock:****Drilling Method:** Other**Artesian Pressure (PSI):****Ground elevation:****Method of determining elevation:** Unknown**Orientation of Well:** VERTICAL

Lithology

From (ft bgl)	To (ft bgl)	Raw Data	Description	Moisture	Colour	Hardness	Observations	Water Bearing Flow Estimate (USGPM)
0	0	220' PVC LINER						
0	10	CLAY & GRAVEL						
10	220	BEDROCK						

Casing Details

From	To	Casing Type	Casing Material	Diameter	Wall Thickness	Drive Shoe
There are no records to show						

Surface Seal and Backfill Details

Surface Seal Material:

Backfill Material Above Surface Seal:

Surface Seal Installation Method:

Backfill Depth:

Surface Seal Thickness:

Surface Seal Depth:

Liner Details

Liner Material:

Liner Diameter:

Liner Thickness:

Liner from:

Liner to:

Liner perforations

From	To
There are no records to show	

Screen Details

Intake Method:

Type:

Material:

Opening:

Bottom:

Installed Screens

From	To	Diameter	Assembly Type	Slot Size
There are no records to show				

Well Development

Developed by:

Development Total Duration:

Well Yield

Estimation Method:

Estimation Rate:

Estimation Duration:

Static Water Level Before Test:

Drawdown:

Hydrofracturing Performed: No

Increase in Yield Due to Hydrofracturing:

Well Decommission Information

Reason for Decommission:

Method of Decommission:

Sealant Material:

Backfill Material:

Decommission Details:

Pumping Test Information and Aquifer Parameters

Start Date	Description	Test Duration (min)	Boundary Effect	Storativity	Transmissivity (m ² /day)	Hydraulic Conductivity (m/day)	Specific Yield	Specific Capacity (L/s/m)	Analysis Method	Comments
There are no records to show										

Comments

CASING 0.0 TO 11.0,.188 THICK, METHOD OF DRILLING = DRILLED

Documents

Well Number	Document Type	Date Of Upload	Document Status	Uploaded Document
66193	Unknown	Date Unknown	Public Document	WTN 66193 Well Record.pdf

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Well Summary

Well Tag Number: 66287

Well Status: New

Observation Well Number:

Well Identification Plate Number:

Well Class: Water Supply

Observation Well Status:

Owner Name: LUCKEY ROGER

Well Subclass: Not Applicable

Environmental Monitoring System (EMS) ID:

Intended Water Use: Private Domestic

Aquifer Number: 994

Alternative specs submitted: No

Artesian Condition: No

Technical Report: N/A

Drinking Water Area Indicator: No

Licensing Information

Licensed Status: Unlicensed

Licence Number:

Location Information

Street Address: 4652 CRESCENT ROAD
Town/City: NELSON

Legal Description:

Lot	1
Plan	7761
District Lot	790
Block	
Section	
Township	
Range	
Land District	26
Property Identification Description (PID)	

Description of Well Location: WELL SITE 40' FROM LAKE FRONT, RIGHT FRONT AJACENT TO PROPERTY LINE.



Geographic Coordinates - North American Datum of 1983 (NAD 83)

Latitude: 49.60437
Longitude: -117.134665
UTM Easting: 490270
UTM Northing: 5494653
Zone: 11
Coordinate Acquisition Code: unknown, accuracy based on parcel size) ICF cadastre, poor or no location sketch, arbitrarily located in center of parcel

Well Activity

Activity	Work Start Date	Work End Date	Drilling Company	Date Entered
Legacy record	1993-11-16	1993-11-16	Thorman Drilling	August 13th 2003 at 8:52 AM

Well Work Dates

Start Date of Construction	End Date of Construction	Start Date of Alteration	End Date of Alteration	Start Date of Decommission	End Date of Decommission
1993-11-16	1993-11-16				

Well Completion Data

Total Depth Drilled:

Estimated Well Yield: 20 USgpm

Static Water Level (BTOC): 6 feet btoc

Finished Well Depth: 35 ft bgl

Well Cap:

Artesian Flow:

Final Casing Stick Up:

Well Disinfected Status: Not Disinfected

Artesian Pressure (head):

Depth to Bedrock:

Drilling Method: Air Rotary

Artesian Pressure (PSI):

Ground elevation:

Method of determining elevation: Unknown

Orientation of Well: VERTICAL

Lithology

From (ft bgl)	To (ft bgl)	Raw Data	Description	Moisture	Colour	Hardness	Observations	Water Bearing Flow Estimate (USGPM)
0	0	SOME SMALL BOULDER 6'						
0	0	SCREEN SET AT 37' BOTTOM OF HOLE						
0	40	MAINLY SAND & GRAVEL						

Casing Details

From	To	Casing Type	Casing Material	Diameter	Wall Thickness	Drive Shoe
There are no records to show						

Surface Seal and Backfill Details

Surface Seal Material:

Backfill Material Above Surface Seal:

Surface Seal Installation Method:

Backfill Depth:

Surface Seal Thickness:

Surface Seal Depth:

Liner Details

Liner Material:

Liner Diameter:

Liner Thickness:

Liner from:

Liner to:

Liner perforations

From	To
There are no records to show	

Screen Details

Intake Method:

Type:

Material:

Opening:

Bottom:

Installed Screens

From	To	Diameter	Assembly Type	Slot Size
There are no records to show				

Well Development

Developed by:

Development Total Duration:

Well Yield

Estimation Method:

Estimation Rate:

Estimation Duration:

Static Water Level Before Test:

Drawdown:

Hydrofracturing Performed: No

Increase in Yield Due to Hydrofracturing:

Well Decommission Information

Reason for Decommission:

Method of Decommission:

Sealant Material:

Backfill Material:

Decommission Details:

Pumping Test Information and Aquifer Parameters

Start Date	Description	Test Duration (min)	Boundary Effect	Storativity	Transmissivity (m ² /day)	Hydraulic Conductivity (m/day)	Specific Yield	Specific Capacity (L/s/m)	Analysis Method	Comments
There are no records to show										

Comments

STEEL CASING,0.0 TO 3.0,,250 THICK,17.8 LBS, CONTINUOUS,STAINLESS STEEL,PUMP TEST RATE 20 USGM,6 FT AFTER .5 HRS

Documents

Well Number	Document Type	Date Of Upload	Document Status	Uploaded Document
66287	Unknown	Date Unknown	Public Document	WTN 66287 Well Record.pdf

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Well Summary

Well Tag Number: 79334

Well Status: New

Observation Well Number:

Well Identification Plate Number:

Well Class: Water Supply

Observation Well Status:

Owner Name: JOHN HACQUOIL

Well Subclass:

Environmental Monitoring System (EMS) ID:

Intended Water Use: Private Domestic

Aquifer Number: 1018

Alternative specs submitted: No

Artesian Condition: No

Technical Report: N/A

Drinking Water Area Indicator: No

Licensing Information

Licensed Status: Unlicensed

Licence Number:

Location Information

Street Address: 12 MILE-STORAGE
Town/City: KOOTENAY LAKE

Legal Description:

Lot	B
Plan	13690
District Lot	790
Block	
Section	
Township	
Range	
Land District	26
Property Identification Description (PID)	010614338

Description of Well Location:



Geographic Coordinates - North American Datum of 1983 (NAD 83)

Latitude: 49.60707
Longitude: -117.12976
UTM Easting: 490625
UTM Northing: 5494953
Zone: 11
Coordinate Acquisition Code: unknown, accuracy based on parcel size) ICF cadastre, poor or no location sketch, arbitrarily located in center of parcel

Well Activity

Activity	Work Start Date	Work End Date	Drilling Company	Date Entered
Legacy record	1997-09-29	1997-09-29	Thorman Drilling	August 13th 2003 at 9:31 AM

Well Work Dates

Start Date of Construction	End Date of Construction	Start Date of Alteration	End Date of Alteration	Start Date of Decommission	End Date of Decommission
1997-09-29	1997-09-29				

Well Completion Data

Total Depth Drilled:

Estimated Well Yield: 20 USgpm

Static Water Level (BTOC): 78 feet btoc

Finished Well Depth: 500 ft bgl

Well Cap:

Artesian Flow:

Final Casing Stick Up:

Well Disinfected Status: Not Disinfected

Artesian Pressure (head):

Depth to Bedrock:

Drilling Method:

Artesian Pressure (PSI):

Ground elevation:

Method of determining elevation: Unknown

Orientation of Well: VERTICAL

Lithology

From (ft bgl)	To (ft bgl)	Raw Data	Description	Moisture	Colour	Hardness	Observations	Water Bearing Flow Estimate (USGPM)
0	4	GRAVEL						
4	32	COARSE GRAVEL - BOULDERS						
32	66	GRAVEL						
66	216	GRANITE					SMALL FRACTURE AT 216 FEET	
216	490	GRANITE						
490	495	FRACTURED GRANITE						
495	500	GRANITE						

Casing Details

From	To	Casing Type	Casing Material	Diameter	Wall Thickness	Drive Shoe
There are no records to show						

Surface Seal and Backfill Details

Surface Seal Material:

Backfill Material Above Surface Seal:

Surface Seal Installation Method:

Backfill Depth:

Surface Seal Thickness:

Surface Seal Depth:

Liner Details

Liner Material:

Liner Diameter:

Liner Thickness:

Liner from:

Liner to:

Liner perforations

From	To
There are no records to show	

Screen Details

Intake Method:

Type:

Material:

Opening:

Bottom:

Installed Screens

From	To	Diameter	Assembly Type	Slot Size
There are no records to show				

Well Development

Developed by:

Development Total Duration:

Well Yield

Estimation Method:

Estimation Rate:

Estimation Duration:

Static Water Level Before Test:

Drawdown:

Hydrofracturing Performed: No

Increase in Yield Due to Hydrofracturing:

Well Decommission Information

Reason for Decommission:

Method of Decommission:

Sealant Material:

Backfill Material:

Decommission Details:

Pumping Test Information and Aquifer Parameters

Start Date	Description	Test Duration (min)	Boundary Effect	Storativity	Transmissivity (m ² /day)	Hydraulic Conductivity (m/day)	Specific Yield	Specific Capacity (L/s/m)	Analysis Method	Comments
There are no records to show										

Comments

NELSON

Documents

Well Number	Document Type	Date Of Upload	Document Status	Uploaded Document
79334	Unknown	Date Unknown	Public Document	WTN 79334 Well Record.pdf

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Well Summary

Well Tag Number: 85957

Well Status: New

Observation Well Number:

Well Identification Plate Number: 17635

Well Class: Water Supply

Observation Well Status:

Owner Name: GLEN & CINDY HUANG

Well Subclass: Not Applicable

Environmental Monitoring System (EMS) ID:

Intended Water Use: Private Domestic

Aquifer Number: 1018

Alternative specs submitted: No

Artesian Condition: No

Technical Report: N/A

Drinking Water Area Indicator: No

Licensing Information

Licensed Status: Unlicensed

Licence Number:

Location Information

Street Address: 4604 STARLIGHT ROAD
Town/City: NELSON

Legal Description:

Lot	A
Plan	NEP 22701
District Lot	790
Block	
Section	
Township	
Range	
Land District	26
Property Identification Description (PID)	023280417

Description of Well Location: NOT PROVIDED



MapBox | Government of British Columbia, DataBC, GeoBC

Geographic Coordinates - North American Datum of 1983 (NAD 83)

Latitude: 49.606672
Longitude: -117.135668
UTM Easting: 490198
UTM Northing: 5494909
Zone: 11
Coordinate Acquisition Code: (10 m accuracy) Handheld GPS with accuracy of +/- 10 metres

Well Activity

Activity	Work Start Date	Work End Date	Drilling Company	Date Entered
Legacy record	2006-08-03	2006-08-07	Thorman Drilling	February 7th 2007 at 2:47 AM

Well Work Dates

Start Date of Construction	End Date of Construction	Start Date of Alteration	End Date of Alteration	Start Date of Decommission	End Date of Decommission
2006-08-03	2006-08-07				

Well Completion Data

Total Depth Drilled: 718 ft bgl

Estimated Well Yield: 5 USgpm

Static Water Level (BTOC):

Finished Well Depth: 718 ft bgl

Well Cap: WELDED PLATE

Artesian Flow:

Final Casing Stick Up: 20 inches

Well Disinfected Status: Disinfected

Artesian Pressure (head):

Depth to Bedrock: 8 feet bgl

Drilling Method: Air Rotary

Artesian Pressure (PSI):

Ground elevation:

Method of determining elevation: Unknown

Orientation of Well: VERTICAL

Lithology

From (ft bgl)	To (ft bgl)	Raw Data	Description	Moisture	Colour	Hardness	Observations	Water Bearing Flow Estimate (USGPM)
0	8	BOULDERS, COARSE GRAVEL			brown	Very Hard		
8	18				grey	Very Hard	10" SEAL	
18	55				grey	Very Hard		
55	56	FAULTED ROCK WITH CLAY, MICA & PARITE			brown	Soft		
56	718				grey	Very Hard		

Casing Details

From	To	Casing Type	Casing Material	Diameter	Wall Thickness	Drive Shoe
0	18		Steel	6	0.219	Installed
5	60		Steel	5	0.25	Installed

Surface Seal and Backfill Details

Surface Seal Material:

Backfill Material Above Surface Seal:

Surface Seal Installation Method:

Backfill Depth:

Surface Seal Thickness: 10 inches

Surface Seal Depth: 18 feet

Liner Details

Liner Material: Other

Liner Diameter:

Liner Thickness:

Liner from:

Liner to:

Liner perforations

From	To
There are no records to show	

Screen Details

Intake Method: Uncased Hole

Type:

Material:

Opening:

Bottom:

Installed Screens

From	To	Diameter	Assembly Type	Slot Size
There are no records to show				

Well Development

Developed by: Air lifting

Development Total Duration: 3 hours

Well Yield

Estimation Method: Air Lifting

Estimation Rate: 5 USgpm

Estimation Duration: 3 hours

Static Water Level Before Test:

Drawdown:

Hydrofracturing Performed: No

Increase in Yield Due to Hydrofracturing:

Well Decommission Information

Reason for Decommission:

Method of Decommission:

Sealant Material:

Backfill Material:

Decommission Details:

Pumping Test Information and Aquifer Parameters

Start Date	Description	Test Duration (min)	Boundary Effect	Storativity	Transmissivity (m ² /day)	Hydraulic Conductivity (m/day)	Specific Yield	Specific Capacity (L/s/m)	Analysis Method	Comments
There are no records to show										

Comments

SEALED OFF. 5 GAL-MIN. VERY DIRTY WATER. 1/2 GPM 255. 1/2 GPM 295. 1 GPM 547. 1 GPM 650. 2 GPM 710.

Documents

Well Number	Document Type	Date Of Upload	Document Status	Uploaded Document
85957	Unknown	Date Unknown	Public Document	WTN 85957 Well Record.pdf

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Well Summary

Well Tag Number: 85981

Well Status: New

Observation Well Number:

Well Identification Plate Number: 11292

Well Class: Injection

Observation Well Status:

Owner Name: LEONARD & LAURA ARCOVIO & CILLIS

Well Subclass: Permanent

Environmental Monitoring System (EMS) ID:

Intended Water Use: Not Applicable

Aquifer Number: 994

Alternative specs submitted: No

Artesian Condition: No

Technical Report: N/A

Drinking Water Area Indicator: No

Licensing Information

Licensed Status: Unlicensed

Licence Number:

Location Information

Street Address: 4646 CRESCENT ROAD

Town/City: NORTH NELSON

Legal Description:

Lot	7
Plan	1772
District Lot	790
Block	
Section	
Township	
Range	
Land District	26
Property Identification Description (PID)	

Description of Well Location: PARCEL A



MapBox | Government of British Columbia, DataBC, GeoBC

Geographic Coordinates - North American Datum of 1983 (NAD 83)

Latitude: 49.6041

Longitude: -117.13534

UTM Easting: 490221

UTM Northing: 5494623

Zone: 11

Coordinate Acquisition Code: (10 m accuracy) Handheld GPS with accuracy of +/- 10 metres

Well Activity

Activity	Work Start Date	Work End Date	Drilling Company	Date Entered
Legacy record	2006-04-30	2006-04-30	Thorman Drilling	February 7th 2007 at 4:23 AM

Well Work Dates

Start Date of Construction	End Date of Construction	Start Date of Alteration	End Date of Alteration	Start Date of Decommission	End Date of Decommission
2006-04-30	2006-04-30				

Well Completion Data

Total Depth Drilled: 20 ft bgl

Estimated Well Yield:

Static Water Level (BTOC): 18 feet btoc

Finished Well Depth: 19.5 ft bgl

Well Cap: WELDED CAP

Artesian Flow:

Final Casing Stick Up: 20 inches

Well Disinfected Status: Not Disinfected

Artesian Pressure (head):

Depth to Bedrock:

Drilling Method: Air Rotary

Artesian Pressure (PSI):

Ground elevation:

Method of determining elevation: Unknown

Orientation of Well: VERTICAL

Lithology

From (ft bgl)	To (ft bgl)	Raw Data	Description	Moisture	Colour	Hardness	Observations	Water Bearing Flow Estimate (USGPM)
0	15	SAND WITH SOME GRAVEL			tan	Soft		
15	20	COARSE GRAVEL WITH SOME SAND			brown	Hard		

Casing Details

From	To	Casing Type	Casing Material	Diameter	Wall Thickness	Drive Shoe
0	16		Steel	6	0.219	Not Installed

Surface Seal and Backfill Details

Surface Seal Material: Bentonite clay and cement mixture

Backfill Material Above Surface Seal:

Surface Seal Installation Method:

Backfill Depth:

Surface Seal Thickness: 1.7 inches

Surface Seal Depth: 15 feet

Liner Details

Liner Material:

Liner Diameter:

Liner Thickness:

Liner from:

Liner to:

Liner perforations

From	To
There are no records to show	

Screen Details

Intake Method: Screen

Type: Telescope

Material: Stainless Steel

Opening: Continuous Slot

Bottom: Bail

Installed Screens

From	To	Diameter	Assembly Type	Slot Size
15.00	15.50	6.00	K-packer	
15.50	19.50	6.00	Screen	25.00

Well Development

Developed by: Jetting

Development Total Duration: 1 hours

Well Yield

Estimation Method:
Estimation Rate: 1 USgpm
Estimation Duration: 1 hours
Static Water Level Before Test: 18 ft (btoc)
Drawdown:
Hydrofracturing Performed: No
Increase in Yield Due to Hydrofracturing:

Well Decommission Information

Reason for Decommission:
Method of Decommission:
Sealant Material:
Backfill Material:
Decommission Details:

Pumping Test Information and Aquifer Parameters

Start Date	Description	Test Duration (min)	Boundary Effect	Storativity	Transmissivity (m ² /day)	Hydraulic Conductivity (m/day)	Specific Yield	Specific Capacity (L/s/m)	Analysis Method	Comments
There are no records to show										

Comments

GEOTHERMAL WELL

Documents

Well Number	Document Type	Date Of Upload	Document Status	Uploaded Document
85981	Unknown	Date Unknown	Public Document	WTN 85981 Well Record.pdf

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Well Summary

Well Tag Number: 85983

Well Status: New

Observation Well Number:

Well Identification Plate Number: 11291

Well Class: Water Supply

Observation Well Status:

Owner Name: LEONARD & LAURA ARCOVIO & CILLIS

Well Subclass: Not Applicable

Environmental Monitoring System (EMS) ID:

Intended Water Use: Private Domestic

Aquifer Number: 994

Alternative specs submitted: No

Artesian Condition: No

Technical Report: N/A

Drinking Water Area Indicator: No

Licensing Information

Licensed Status: Unlicensed

Licence Number:

Location Information

Street Address: 4646 CRESCENT ROAD
Town/City: NORTH NELSON

Legal Description:

Lot	7
Plan	1772
District Lot	790
Block	
Section	
Township	
Range	
Land District	26
Property Identification Description (PID)	

Description of Well Location: PARCEL A



Geographic Coordinates - North American Datum of 1983 (NAD 83)

Latitude: 49.604172
Longitude: -117.135273
UTM Easting: 490226
UTM Northing: 5494631
Zone: 11
Coordinate Acquisition Code: (10 m accuracy) Handheld GPS with accuracy of +/- 10 metres

Well Activity

Activity	Work Start Date	Work End Date	Drilling Company	Date Entered
Legacy record	2006-04-29	2006-04-29	Thorman Drilling	February 7th 2007 at 4:27 AM

Well Work Dates

Start Date of Construction	End Date of Construction	Start Date of Alteration	End Date of Alteration	Start Date of Decommission	End Date of Decommission
2006-04-29	2006-04-29				

Well Completion Data

Total Depth Drilled: 44 ft bgl

Estimated Well Yield: 45 USgpm

Static Water Level (BTOC): 16 feet btoc

Finished Well Depth: 43 ft bgl

Well Cap: WELDED PLATE

Artesian Flow:

Final Casing Stick Up: 30 inches

Well Disinfected Status: Not Disinfected

Artesian Pressure (head):

Depth to Bedrock:

Drilling Method: Air Rotary

Artesian Pressure (PSI):

Ground elevation:

Method of determining elevation: Unknown

Orientation of Well: VERTICAL

Lithology

From (ft bgl)	To (ft bgl)	Raw Data	Description	Moisture	Colour	Hardness	Observations	Water Bearing Flow Estimate (USGPM)
0	4				tan	Soft		
4	16	SANDY GRAVEL			brown	Hard		
16	24	GRAVEL WITH SOME SAND			brown	Hard		
24	35	FINE-MED SAND, SOME GRAVEL			brown	Dense		
35	43	GRAVEL WITH COARSE TO MEDIUM SAND			brown	Dense		

Casing Details

From	To	Casing Type	Casing Material	Diameter	Wall Thickness	Drive Shoe
0	35		Steel	6	0.219	Installed

Surface Seal and Backfill Details

Surface Seal Material: Bentonite clay and cement mixture

Backfill Material Above Surface Seal:

Surface Seal Installation Method:

Backfill Depth:

Surface Seal Thickness: 1.7 inches

Surface Seal Depth: 18 feet

Liner Details

Liner Material:

Liner Diameter:

Liner Thickness:

Liner from:

Liner to:

Liner perforations

From	To
There are no records to show	

Screen Details

Intake Method: Screen

Type: Telescope

Material: Stainless Steel

Opening: Continuous Slot

Bottom: Bail

Installed Screens

From	To	Diameter	Assembly Type	Slot Size
34.50	35.00	6.00	K-packer	
35.00	39.00	6.00	Screen	20.00
39.00	43.00	6.00	Screen	25.00

Well Development

Developed by: Air lifting

Development Total Duration: 3 hours

Well Yield

Estimation Method: Air Lifting

Estimation Rate: 45 USgpm

Estimation Duration: 2.5 hours

Static Water Level Before Test: 16 ft (btoc)

Drawdown:

Hydrofracturing Performed: No

Increase in Yield Due to Hydrofracturing:

Well Decommission Information

Reason for Decommission:

Method of Decommission:

Sealant Material:

Backfill Material:

Decommission Details:

Pumping Test Information and Aquifer Parameters

Start Date	Description	Test Duration (min)	Boundary Effect	Storativity	Transmissivity (m ² /day)	Hydraulic Conductivity (m/day)	Specific Yield	Specific Capacity (L/s/m)	Analysis Method	Comments
There are no records to show										

Comments

No comments submitted

Documents

Well Number	Document Type	Date Of Upload	Document Status	Uploaded Document
85983	Unknown	Date Unknown	Public Document	WTN 85983 Well Record.pdf

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Well Summary

Well Tag Number: 91655

Well Status: New

Observation Well Number:

Well Identification Plate Number:

Well Class: Water Supply

Observation Well Status:

Owner Name: HEINZ SCHOCH

Well Subclass: Not Applicable

Environmental Monitoring System (EMS) ID:

Intended Water Use: Private Domestic

Aquifer Number: 1018

Alternative specs submitted: No

Artesian Condition: No

Technical Report: N/A

Drinking Water Area Indicator: No

Licensing Information

Licensed Status: Unlicensed

Licence Number:

Location Information

Street Address:

Town/City:

Legal Description:

Lot	2
Plan	813
District Lot	790
Block	
Section	
Township	
Range	
Land District	26
Property Identification Description (PID)	012794945

Description of Well Location: EXCEPT PLAN 14442 & NEP 21125.



Geographic Coordinates - North American Datum of 1983 (NAD 83)

Latitude: 49.60994

Longitude: -117.13724

UTM Easting: 490085

UTM Northing: 5495273

Zone: 11

Coordinate Acquisition Code: unknown, accuracy based on parcel size) ICF cadastre, poor or no location sketch, arbitrarily located in center of parcel

Well Activity

Activity	Work Start Date	Work End Date	Drilling Company	Date Entered
Legacy record	2002-05-29	2002-05-29	Thorman Drilling	January 22nd 2008 at 2:08 AM

Well Work Dates

Start Date of Construction	End Date of Construction	Start Date of Alteration	End Date of Alteration	Start Date of Decommission	End Date of Decommission
2002-05-29	2002-05-29				

Well Completion Data

Total Depth Drilled: 285 ft bgl
Estimated Well Yield: 15 USgpm
Static Water Level (BTOC): 7 feet btoc
Finished Well Depth: 285 ft bgl
Well Cap: WELDED CAP
Artesian Flow:
Final Casing Stick Up:
Well Disinfected Status: Not Disinfected
Artesian Pressure (head):
Depth to Bedrock: 10 feet bgl
Drilling Method: Air Rotary
Artesian Pressure (PSI):
Ground elevation:
Method of determining elevation: Unknown
Orientation of Well: VERTICAL

Lithology

From (ft bgl)	To (ft bgl)	Raw Data	Description	Moisture	Colour	Hardness	Observations	Water Bearing Flow Estimate (USGPM)
0	10	BOULDERS & SILTY GRAVEL						
10	13		weathered					
13	218						1 GPM FRACTURE AT 218 FEET	1
218	232						2 GPM FRACTURED ROCK AT 232 FEET	2
232	272						12 GPM FRACTURE AT 272 FEET	12
272	285							

Casing Details

From	To	Casing Type	Casing Material	Diameter	Wall Thickness	Drive Shoe
0	18		Steel	6.12	0.219	Installed
18	285		Open hole	6		Installed

Surface Seal and Backfill Details

Surface Seal Material:

Backfill Material Above Surface Seal:

Surface Seal Installation Method:

Backfill Depth:

Surface Seal Thickness:

Surface Seal Depth:

Liner Details

Liner Material:

Liner Diameter:

Liner Thickness:

Liner from:

Liner to:

Liner perforations

From	To
There are no records to show	

Screen Details

Intake Method:

Type:

Material:

Opening:

Bottom:

Installed Screens

From	To	Diameter	Assembly Type	Slot Size
There are no records to show				

Well Development

Developed by: Air lifting

Development Total Duration:

Well Yield

Estimation Method: Air Lifting

Estimation Rate: 15 USgpm

Estimation Duration: 2.5 hours

Static Water Level Before Test:

Drawdown: 7 ft (btoc)

Hydrofracturing Performed: No

Increase in Yield Due to Hydrofracturing:

Well Decommission Information

Reason for Decommission:

Method of Decommission:

Sealant Material:

Backfill Material:

Decommission Details:

Pumping Test Information and Aquifer Parameters

Start Date	Description	Test Duration (min)	Boundary Effect	Storativity	Transmissivity (m ² /day)	Hydraulic Conductivity (m/day)	Specific Yield	Specific Capacity (L/s/m)	Analysis Method	Comments
There are no records to show										

Comments

MEASUREMENTS FROM GROUND LEVEL. PITLESS UNIT: WELDED, NEW. SHOE: REGULAR. RECOMMENDED PUMP TYPE: SUB. RECOMMENDED PUMPING RATE: 15 USGPM.

Documents

Well Number	Document Type	Date Of Upload	Document Status	Uploaded Document
91655	Unknown	Date Unknown	Public Document	WTN 91655 Well Record.pdf

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Well Summary

Well Tag Number: 91664

Well Status: New

Observation Well Number:

Well Identification Plate Number:

Well Class: Water Supply

Observation Well Status:

Owner Name: VIC MANSON

Well Subclass: Not Applicable

Environmental Monitoring System (EMS) ID:

Intended Water Use: Private Domestic

Aquifer Number: 1018

Alternative specs submitted: No

Artesian Condition: No

Technical Report: N/A

Drinking Water Area Indicator: No

Licensing Information

Licensed Status: Unlicensed

Licence Number:

Location Information

Street Address:

Town/City:

Legal Description:

Lot	A
Plan	NEP 22701
District Lot	790
Block	
Section	
Township	
Range	
Land District	26
Property Identification Description (PID)	023280417

Description of Well Location: NOT PROVIDED



Geographic Coordinates - North American Datum of 1983 (NAD 83)

Latitude: 49.6065

Longitude: -117.136332

UTM Easting: 490150

UTM Northing: 5494890

Zone: 11

Coordinate Acquisition Code: unknown, accuracy based on parcel size) ICF cadastre, poor or no location sketch, arbitrarily located in center of parcel

Well Activity

Activity	Work Start Date	Work End Date	Drilling Company	Date Entered
Legacy record	1998-04-29	1998-04-29	Thorman Drilling	January 22nd 2008 at 2:19 AM

Well Work Dates

Start Date of Construction	End Date of Construction	Start Date of Alteration	End Date of Alteration	Start Date of Decommission	End Date of Decommission
1998-04-29	1998-04-29				

Well Completion Data

Total Depth Drilled: 405 ft bgl

Estimated Well Yield: 4 USgpm

Static Water Level (BTOC): 4 feet btoc

Finished Well Depth: 405 ft bgl

Well Cap: WELDED CAP

Artesian Flow:

Final Casing Stick Up:

Well Disinfected Status: Not Disinfected

Artesian Pressure (head):

Depth to Bedrock:

Drilling Method: Air Rotary

Artesian Pressure (PSI):

Ground elevation:

Method of determining elevation: Unknown

Orientation of Well: VERTICAL

Lithology

From (ft bgl)	To (ft bgl)	Raw Data	Description	Moisture	Colour	Hardness	Observations	Water Bearing Flow Estimate (USGPM)
0	8	BOULDERS & GRAVEL						
8	405							

Casing Details

From	To	Casing Type	Casing Material	Diameter	Wall Thickness	Drive Shoe
0	10				0.188	Installed
10	400		Open hole	6		Installed

Surface Seal and Backfill Details

Surface Seal Material:

Backfill Material Above Surface Seal:

Surface Seal Installation Method:

Backfill Depth:

Surface Seal Thickness:

Surface Seal Depth:

Liner Details

Liner Material:

Liner Diameter:

Liner Thickness:

Liner from:

Liner to:

Liner perforations

From	To
There are no records to show	

Screen Details

Intake Method:

Type:

Material:

Opening:

Bottom:

Installed Screens

From	To	Diameter	Assembly Type	Slot Size
There are no records to show				

Well Development

Developed by: Air lifting

Development Total Duration:

Well Yield

Estimation Method: Air Lifting

Estimation Rate: 4 USgpm

Estimation Duration: 2 hours

Static Water Level Before Test:

Drawdown: 4 ft (btoc)

Hydrofracturing Performed: No

Increase in Yield Due to Hydrofracturing:

Well Decommission Information

Reason for Decommission:

Method of Decommission:

Sealant Material:

Backfill Material:

Decommission Details:

Pumping Test Information and Aquifer Parameters

Start Date	Description	Test Duration (min)	Boundary Effect	Storativity	Transmissivity (m ² /day)	Hydraulic Conductivity (m/day)	Specific Yield	Specific Capacity (L/s/m)	Analysis Method	Comments
There are no records to show										

Comments

MEASUREMENTS FROM GROUND LEVEL. PITLESS UNIT: WELDED, NEW. SHOE: REGULAR. RECOMMENDED PUMP TYPE: SUB. SMALL FRACTURES: 80', 275'. INSTALLED PLASTIC 4" LINER SLOTTED FROM 405-305. TOP OF LINER 5'.

Documents

Well Number	Document Type	Date Of Upload	Document Status	Uploaded Document
91664	Unknown	Date Unknown	Public Document	WTN 91664 Well Record.pdf

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Well Summary

Well Tag Number: 92888

Well Status: New

Observation Well Number:

Well Identification Plate Number: 17797

Well Class: Water Supply

Observation Well Status:

Owner Name: HEINZ SCHOCH

Well Subclass: Not Applicable

Environmental Monitoring System (EMS) ID:

Intended Water Use: Private Domestic

Aquifer Number: 1018

Alternative specs submitted: No

Artesian Condition: No

Technical Report: N/A

Drinking Water Area Indicator: No

Licensing Information

Licensed Status: Unlicensed

Licence Number:

Location Information

Street Address: CRESCENTVIEW DRIVE
Town/City: NELSON

Legal Description:

Lot	2
Plan	813
District Lot	790
Block	
Section	
Township	
Range	
Land District	26
Property Identification Description (PID)	011305568

Description of Well Location: PROPOSED LOT 2 OF LOT 3. EXCEPT PLAN 15456.



MapBox | Government of British Columbia, DataBC, GeoBC

Geographic Coordinates - North American Datum of 1983 (NAD 83)
Latitude: 49.608734
Longitude: -117.133542
UTM Easting: 490352
UTM Northing: 5495138
Zone: 11
Coordinate Acquisition Code: (10 m accuracy) Handheld GPS with accuracy of +/- 10 metres

Well Activity

Activity	Work Start Date	Work End Date	Drilling Company	Date Entered
Legacy record	2007-11-22	2007-11-22	Thorman Drilling	February 21st 2008 at 5:37 AM

Well Work Dates

Start Date of Construction	End Date of Construction	Start Date of Alteration	End Date of Alteration	Start Date of Decommission	End Date of Decommission
2007-11-22	2007-11-22				

Well Completion Data

Total Depth Drilled: 400 ft bgl

Estimated Well Yield: 2 USgpm

Static Water Level (BTOC): 10 feet btoc

Finished Well Depth: 400 ft bgl

Well Cap: WELDED PLATE

Artesian Flow:

Final Casing Stick Up: 24 inches

Well Disinfected Status: Not Disinfected

Artesian Pressure (head):

Depth to Bedrock:

Drilling Method: Air Rotary

Artesian Pressure (PSI):

Ground elevation: 2010 feet

Method of determining elevation: Unknown

Orientation of Well: VERTICAL

Lithology

From (ft bgl)	To (ft bgl)	Raw Data	Description	Moisture	Colour	Hardness	Observations	Water Bearing Flow Estimate (USGPM)
0	400				grey	Hard		

Casing Details

From	To	Casing Type	Casing Material	Diameter	Wall Thickness	Drive Shoe
0	17		Steel	6	0.219	Installed
17	400		Open hole	6.66		Not Installed

Surface Seal and Backfill Details

Surface Seal Material: Bentonite clay

Backfill Material Above Surface Seal:

Surface Seal Installation Method: Poured

Backfill Depth:

Surface Seal Thickness: 1 inches

Surface Seal Depth: 17 feet

Liner Details

Liner Material:

Liner Diameter:

Liner Thickness:

Liner from:

Liner to:

Liner perforations

From	To
There are no records to show	

Screen Details

Intake Method: Uncased Hole

Type:

Material:

Opening:

Bottom:

Installed Screens

From	To	Diameter	Assembly Type	Slot Size
There are no records to show				

Well Development

Developed by: Air lifting

Development Total Duration: 1 hours

Well Yield

Estimation Method: Air Lifting

Estimation Rate: 2 USgpm

Estimation Duration: 1 hours

Static Water Level Before Test: 10 ft (btoc)

Drawdown:

Hydrofracturing Performed: No

Increase in Yield Due to Hydrofracturing:

Well Decommission Information

Reason for Decommission:

Method of Decommission:

Sealant Material:

Backfill Material:

Decommission Details:

Pumping Test Information and Aquifer Parameters

Start Date	Description	Test Duration (min)	Boundary Effect	Storativity	Transmissivity (m ² /day)	Hydraulic Conductivity (m/day)	Specific Yield	Specific Capacity (L/s/m)	Analysis Method	Comments
There are no records to show										

Comments

1/2 GPM @ 50', 1 GPM @ 320', 1/2 GPM @ 371'.

Documents

Well Number	Document Type	Date Of Upload	Document Status	Uploaded Document
92888	Unknown	Date Unknown	Public Document	WTN 92888 Well Record.pdf

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Well Summary

Well Tag Number: 92889

Well Status: New

Observation Well Number:

Well Identification Plate Number: 17798

Well Class: Water Supply

Observation Well Status:

Owner Name: HEINZ SCHOCH

Well Subclass: Not Applicable

Environmental Monitoring System (EMS) ID:

Intended Water Use: Private Domestic

Aquifer Number: 1018

Alternative specs submitted: No

Artesian Condition: Yes

Technical Report: N/A

Drinking Water Area Indicator: No

Licensing Information

Licensed Status: Unlicensed

Licence Number:

Location Information

Street Address: CRESCENTVIEW DRIVE
Town/City: NELSON

Legal Description:

Lot	1
Plan	813
District Lot	790
Block	
Section	
Township	
Range	
Land District	26
Property Identification Description (PID)	011305568

Description of Well Location: NOT PROVIDED. PROPOSED LOT 1 OF LOT 3. EXCEPT PLAN 15456



Geographic Coordinates - North American Datum of 1983 (NAD 83)

Latitude: 49.608275
Longitude: -117.134108
UTM Easting: 490311
UTM Northing: 5495087
Zone: 11
Coordinate Acquisition Code: (10 m accuracy) Handheld GPS with accuracy of +/- 10 metres

Well Activity

Activity	Work Start Date	Work End Date	Drilling Company	Date Entered
Legacy record	2007-11-23	2007-11-23	Thorman Drilling	February 21st 2008 at 5:40 AM

Well Work Dates

Start Date of Construction	End Date of Construction	Start Date of Alteration	End Date of Alteration	Start Date of Decommission	End Date of Decommission
2007-11-23	2007-11-23				

Well Completion Data

Total Depth Drilled: 381 ft bgl
Estimated Well Yield: 7 USgpm
Static Water Level (BTOC):
Finished Well Depth: 381 ft bgl
Well Cap: WELDED PLATE
Artesian Flow: 0.1 USgpm
Final Casing Stick Up: 18 inches
Well Disinfected Status: Not Disinfected
Artesian Pressure (head):
Depth to Bedrock: 10 feet bgl
Drilling Method: Air Rotary
Artesian Pressure (PSI):
Ground elevation: 2010 feet
Method of determining elevation: Unknown
Orientation of Well: VERTICAL

Lithology

From (ft bgl)	To (ft bgl)	Raw Data	Description	Moisture	Colour	Hardness	Observations	Water Bearing Flow Estimate (USGPM)
0	10	BOULDERS	sandy		brown	Loose		
10	381				grey	Hard	7 GPM AT 368-370 FEET	7

Casing Details

From	To	Casing Type	Casing Material	Diameter	Wall Thickness	Drive Shoe
0	18		Steel	6	0.219	Installed
18	381		Open hole	6.12		Not Installed

Surface Seal and Backfill Details

Surface Seal Material: Bentonite clay

Backfill Material Above Surface Seal:

Surface Seal Installation Method: Poured

Backfill Depth:

Surface Seal Thickness: 1 inches

Surface Seal Depth: 18 feet

Liner Details

Liner Material:

Liner Diameter:

Liner Thickness:

Liner from:

Liner to:

Liner perforations

From	To
There are no records to show	

Screen Details

Intake Method: Uncased Hole

Type:

Material:

Opening:

Bottom:

Installed Screens

From	To	Diameter	Assembly Type	Slot Size
There are no records to show				

Well Development

Developed by: Air lifting

Development Total Duration: 1 hours

Well Yield

Estimation Method: Air Lifting

Estimation Rate: 7 USgpm

Estimation Duration: 1 hours

Static Water Level Before Test:

Drawdown:

Hydrofracturing Performed: No

Increase in Yield Due to Hydrofracturing:

Well Decommission Information

Reason for Decommission:

Method of Decommission:

Sealant Material:

Backfill Material:

Decommission Details:

Pumping Test Information and Aquifer Parameters

Start Date	Description	Test Duration (min)	Boundary Effect	Storativity	Transmissivity (m ² /day)	Hydraulic Conductivity (m/day)	Specific Yield	Specific Capacity (L/s/m)	Analysis Method	Comments
There are no records to show										

Comments

7 GPM @ 368-370'.

Documents

Well Number	Document Type	Date Of Upload	Document Status	Uploaded Document
92889	Unknown	Date Unknown	Public Document	WTN 92889 Well Record.pdf

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Well Summary

Well Tag Number: 92891

Well Status: New

Observation Well Number:

Well Identification Plate Number: 17799

Well Class: Water Supply

Observation Well Status:

Owner Name: HEINZ SCHOCH

Well Subclass: Not Applicable

Environmental Monitoring System (EMS) ID:

Intended Water Use: Private Domestic

Aquifer Number: 1018

Alternative specs submitted: No

Artesian Condition: No

Technical Report: N/A

Drinking Water Area Indicator: No

Licensing Information

Licensed Status: Unlicensed

Licence Number:

Location Information

Street Address: CRESCENTVIEW DRIVE
Town/City: NELSON

Legal Description:

Lot	4
Plan	813
District Lot	790
Block	
Section	
Township	
Range	
Land District	26
Property Identification Description (PID)	012794945

Description of Well Location: PROPOSED LOT 4 OF LOT 2. EXCEPT PLANS 14442 & NEP 21125



Geographic Coordinates - North American Datum of 1983 (NAD 83)

Latitude: 49.608604
Longitude: -117.136753
UTM Easting: 490120
UTM Northing: 5495124
Zone: 11
Coordinate Acquisition Code: (10 m accuracy) Handheld GPS with accuracy of +/- 10 metres

Well Activity

Activity	Work Start Date	Work End Date	Drilling Company	Date Entered
Legacy record	2007-11-26	2007-11-27	Thorman Drilling	February 21st 2008 at 5:44 AM

Well Work Dates

Start Date of Construction	End Date of Construction	Start Date of Alteration	End Date of Alteration	Start Date of Decommission	End Date of Decommission
2007-11-26	2007-11-27				

Well Completion Data

Total Depth Drilled: 540 ft bgl

Estimated Well Yield: 3 USgpm

Static Water Level (BTOC): 14 feet btoc

Finished Well Depth: 540 ft bgl

Well Cap: WELDED PLATE

Artesian Flow:

Final Casing Stick Up: 30 inches

Well Disinfected Status: Not Disinfected

Artesian Pressure (head):

Depth to Bedrock: 15 feet bgl

Drilling Method: Air Rotary

Artesian Pressure (PSI):

Ground elevation: 1995 feet

Method of determining elevation: Unknown

Orientation of Well: VERTICAL

Lithology

From (ft bgl)	To (ft bgl)	Raw Data	Description	Moisture	Colour	Hardness	Observations	Water Bearing Flow Estimate (USGPM)
0	3	COBBLES			brown	Dense		
3	15	BOULDERS			brown	Loose		
15	540				grey	Hard	1.5 GPM AT 496 FEET 1.5 GPM AT 508 FEET	

Casing Details

From	To	Casing Type	Casing Material	Diameter	Wall Thickness	Drive Shoe
0	18		Steel	6	0.219	Installed
18	540		Open hole	6.12		Not Installed

Surface Seal and Backfill Details

Surface Seal Material: Bentonite clay and cement mixture

Backfill Material Above Surface Seal:

Surface Seal Installation Method: Pumped

Backfill Depth:

Surface Seal Thickness: 1.65 inches

Surface Seal Depth: 18 feet

Liner Details

Liner Material:

Liner Diameter:

Liner Thickness:

Liner from:

Liner to:

Liner perforations

From	To
There are no records to show	

Screen Details

Intake Method: Uncased Hole

Type:

Material:

Opening:

Bottom:

Installed Screens

From	To	Diameter	Assembly Type	Slot Size
There are no records to show				

Well Development

Developed by: Air lifting

Development Total Duration: 1 hours

Well Yield

Estimation Method: Air Lifting

Estimation Rate: 3 USgpm

Estimation Duration: 1 hours

Static Water Level Before Test: 14 ft (btoc)

Drawdown:

Hydrofracturing Performed: No

Increase in Yield Due to Hydrofracturing:

Well Decommission Information

Reason for Decommission:

Method of Decommission:

Sealant Material:

Backfill Material:

Decommission Details:

Pumping Test Information and Aquifer Parameters

Start Date	Description	Test Duration (min)	Boundary Effect	Storativity	Transmissivity (m ² /day)	Hydraulic Conductivity (m/day)	Specific Yield	Specific Capacity (L/s/m)	Analysis Method	Comments
There are no records to show										

Comments

1.5 GPM @ 496' & 508'.

Documents

Well Number	Document Type	Date Of Upload	Document Status	Uploaded Document
92891	Unknown	Date Unknown	Public Document	WTN 92891 Well Record.pdf

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Well Summary

Well Tag Number: 105588

Well Status: New

Observation Well Number:

Well Identification Plate Number: 32890

Well Class: Water Supply

Observation Well Status:

Owner Name: THOMAS KLEIN

Well Subclass: Not Applicable

Environmental Monitoring System (EMS) ID:

Intended Water Use: Private Domestic

Aquifer Number:

Alternative specs submitted: No

Artesian Condition: No

Technical Report: N/A

Drinking Water Area Indicator: No

Licensing Information

Licensed Status: Unlicensed

Licence Number:

Location Information

Street Address: 6 2449
Town/City: 790

Legal Description:

Lot	
Plan	
District Lot	
Block	
Section	
Township	
Range	
Land District	26
Property Identification Description (PID)	015282139

Description of Well Location: NOT PROVIDED



MapBox | Government of British Columbia, DataBC, GeoBC

Geographic Coordinates - North American Datum of 1983 (NAD 83)
Latitude: 49.606682
Longitude: -117.135017
UTM Easting: 490245
UTM Northing: 5494910
Zone: 11
Coordinate Acquisition Code: (10 m accuracy) Handheld GPS with accuracy of +/- 10 metres

Well Activity

Activity	Work Start Date	Work End Date	Drilling Company	Date Entered
Legacy record	2011-08-29	2011-08-31	Thorman Drilling	February 3rd 2012 at 6:33 AM

Well Work Dates

Start Date of Construction	End Date of Construction	Start Date of Alteration	End Date of Alteration	Start Date of Decommission	End Date of Decommission
2011-08-29	2011-08-31				

Well Completion Data

Total Depth Drilled: 600 ft bgl
Estimated Well Yield: 0.5 USgpm
Static Water Level (BTOC): 300 feet btoc
Finished Well Depth: 600 ft bgl
Well Cap: STEEL
Artesian Flow:
Final Casing Stick Up: 20 inches
Well Disinfected Status: Not Disinfected
Artesian Pressure (head):
Depth to Bedrock: 4 feet bgl
Drilling Method: Air Rotary
Artesian Pressure (PSI):
Ground elevation: 1859 feet
Method of determining elevation: Unknown
Orientation of Well: VERTICAL

Lithology

From (ft bgl)	To (ft bgl)	Raw Data	Description	Moisture	Colour	Hardness	Observations	Water Bearing Flow Estimate (USGPM)
0	4	SAND W/ GRAVEL			brown	Loose		
4	35					Hard	LIGHT GREY	0.5
35	600					Hard	WET LIGHT GREY NO CHANGE IN THE ROCK	

Casing Details

From	To	Casing Type	Casing Material	Diameter	Wall Thickness	Drive Shoe
0	15		Steel	6	0.25	Installed
15	600					Not Installed

Surface Seal and Backfill Details

Surface Seal Material: Bentonite clay and cement mixture

Backfill Material Above Surface Seal:

Surface Seal Installation Method: Pumped

Backfill Depth:

Surface Seal Thickness: 1.68 inches

Surface Seal Depth: 15 feet

Liner Details

Liner Material:

Liner Diameter:

Liner Thickness:

Liner from:

Liner to:

Liner perforations

From	To
There are no records to show	

Screen Details

Intake Method:

Type:

Material:

Opening:

Bottom:

Installed Screens

From	To	Diameter	Assembly Type	Slot Size
There are no records to show				

Well Development

Developed by: Air lifting

Development Total Duration: 1 hours

Well Yield

Estimation Method: Air Lifting

Estimation Rate: 0.5 USgpm

Estimation Duration: 1 hours

Static Water Level Before Test: 300 ft (btoc)

Drawdown:

Hydrofracturing Performed: No

Increase in Yield Due to Hydrofracturing:

Well Decommission Information

Reason for Decommission:
Method of Decommission:
Sealant Material:
Backfill Material:
Decommission Details:

Pumping Test Information and Aquifer Parameters

Start Date	Description	Test Duration (min)	Boundary Effect	Storativity	Transmissivity (m ² /day)	Hydraulic Conductivity (m/day)	Specific Yield	Specific Capacity (L/s/m)	Analysis Method	Comments
There are no records to show										

Comments

No comments submitted

Documents

Well Number	Document Type	Date Of Upload	Document Status	Uploaded Document
105588	Unknown	Date Unknown	Public Document	WTN 105588 Well Construction.pdf

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Well Summary

Well Tag Number: 108916

Well Status: New

Observation Well Number:

Well Identification Plate Number: 47713

Well Class: Water Supply

Observation Well Status:

Owner Name: Coles Cohoon

Well Subclass: Not Applicable

Environmental Monitoring System (EMS) ID:

Intended Water Use: Private Domestic

Aquifer Number:

Alternative specs submitted: No

Artesian Condition: No

Technical Report: N/A

Drinking Water Area Indicator: No

Licensing Information

Licensed Status: Unlicensed

Licence Number:

Location Information

Street Address: 4676 Crescent Road
Town/City: Nelson

Legal Description:

Lot	B
Plan	87777
District Lot	790
Block	
Section	
Township	
Range	
Land District	26
Property Identification Description (PID)	027692337

Description of Well Location: 4676 Crescent Road Nelson BC



Geographic Coordinates - North American Datum of 1983 (NAD 83)

Latitude: 49.604507

Longitude: -117.132728

UTM Easting: 490410

UTM Northing: 5494668

Zone: 11

Coordinate Acquisition Code: (10 m accuracy) ICF cadastre and good location sketch

Well Activity

Activity	Work Start Date	Work End Date	Drilling Company	Date Entered
Legacy record	2014-04-09	2014-04-09	Owen's Drilling Ltd.	April 16th 2014 at 6:08 AM

Well Work Dates

Start Date of Construction	End Date of Construction	Start Date of Alteration	End Date of Alteration	Start Date of Decommission	End Date of Decommission
2014-04-09	2014-04-09				

Well Completion Data

Total Depth Drilled: 56 ft bgl

Estimated Well Yield: 20 USgpm

Static Water Level (BTOC): 22 feet btoc

Finished Well Depth: 46 ft bgl

Well Cap: Bolt On

Artesian Flow:

Final Casing Stick Up: 13 inches

Well Disinfected Status: Not Disinfected

Artesian Pressure (head):

Depth to Bedrock:

Drilling Method: Air Rotary

Artesian Pressure (PSI):

Ground elevation: 1803 feet

Method of determining elevation: GPS

Orientation of Well: VERTICAL

Lithology

From (ft bgl)	To (ft bgl)	Raw Data	Description	Moisture	Colour	Hardness	Observations	Water Bearing Flow Estimate (USGPM)
0	2	Silt			brown	Medium		
2	46	gravel			brown	Medium	Wet @ 25	
46	56				brown	Medium	Pulled back to 46' and screened	20

Casing Details

From	To	Casing Type	Casing Material	Diameter	Wall Thickness	Drive Shoe
0	43		Steel	6	219	Installed

Surface Seal and Backfill Details

Surface Seal Material: Bentonite clay

Backfill Material Above Surface Seal:

Surface Seal Installation Method: Poured

Backfill Depth: 16 feet

Surface Seal Thickness: 1 inches

Surface Seal Depth: 16 feet

Liner Details

Liner Material:

Liner Diameter:

Liner Thickness:

Liner from:

Liner to:

Liner perforations

From	To
There are no records to show	

Screen Details

Intake Method: Screen

Type: Telescope

Material: Stainless Steel

Opening: Continuous Slot

Bottom: Bail

Installed Screens

From	To	Diameter	Assembly Type	Slot Size
41.00	42.00	5.50	K-Packer & Riser	
42.00	46.00	5.50	Screen	30.00

Well Development

Developed by: Air lifting

Development Total Duration: 1 hours

Well Yield

Estimation Method: Air Lifting
Estimation Rate: 20 USgpm
Estimation Duration: 1 hours
Static Water Level Before Test: 22 ft (btoc)
Drawdown:
Hydrofracturing Performed: No
Increase in Yield Due to Hydrofracturing:

Well Decommission Information

Reason for Decommission:
Method of Decommission:
Sealant Material:
Backfill Material:
Decommission Details:

Pumping Test Information and Aquifer Parameters

Start Date	Description	Test Duration (min)	Boundary Effect	Storativity	Transmissivity (m ² /day)	Hydraulic Conductivity (m/day)	Specific Yield	Specific Capacity (L/s/m)	Analysis Method	Comments
There are no records to show										

Comments

ORIGINAL COORDINATES PROVIDED (10, 490406, 5494669) PLACE WELL ON ADJACENT LOT - UPDATED TO REFLECT LEGAL DESCRIPTION PROVIDED. WELL RECORD SUBMITTED THROUGH EWELLS.

Documents

Well Number	Document Type	Date Of Upload	Document Status	Uploaded Document
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Well Summary

Well Tag Number: 116151

Well Status: New

Observation Well Number:

Well Identification Plate Number: 44391

Well Class: Water Supply

Observation Well Status:

Owner Name: Phil & Lisa Dawson

Well Subclass: Not Applicable

Environmental Monitoring System (EMS) ID:

Intended Water Use: Private Domestic

Aquifer Number:

Alternative specs submitted: No

Artesian Condition: No

Technical Report: N/A

Drinking Water Area Indicator: No

Licensing Information

Licensed Status: Unlicensed

Licence Number:

Location Information

Street Address: 4608 Crescent View Drive
Town/City: Nelson

Legal Description:

Lot	
Plan	NEP 14442
District Lot	790
Block	
Section	
Township	
Range	
Land District	26
Property Identification Description (PID)	009837965

Description of Well Location: 4608 Crescent View Drive Nelson BC KD



MapBox | Government of British Columbia, DataBC, GeoBC

Geographic Coordinates - North American Datum of 1983 (NAD 83)

Latitude: 49.60757
Longitude: -117.136404
UTM Easting: 490145
UTM Northing: 5495009
Zone: 11
Coordinate Acquisition Code: (10 m accuracy) Handheld GPS with accuracy of +/- 10 metres

Well Activity

Activity	Work Start Date	Work End Date	Drilling Company	Date Entered
Legacy record	2018-12-06	2018-12-12	Owen's Drilling Ltd.	January 3rd 2019 at 3:07 AM

Well Work Dates

Start Date of Construction	End Date of Construction	Start Date of Alteration	End Date of Alteration	Start Date of Decommission	End Date of Decommission
2018-12-06	2018-12-12				

Well Completion Data

Total Depth Drilled: 597 ft bgl

Estimated Well Yield: 3 USgpm

Static Water Level (BTOC): 45 feet btoc

Finished Well Depth: 597 ft bgl

Well Cap: Bolt On

Artesian Flow:

Final Casing Stick Up: 12 inches

Well Disinfected Status: Not Disinfected

Artesian Pressure (head):

Depth to Bedrock: 29 feet bgl

Drilling Method: Air Rotary

Artesian Pressure (PSI):

Ground elevation: 1867 feet

Method of determining elevation: GPS

Orientation of Well: VERTICAL

Lithology

From (ft bgl)	To (ft bgl)	Raw Data	Description	Moisture	Colour	Hardness	Observations	Water Bearing Flow Estimate (USGPM)
0	29	sand, gravel			brown	Medium		
29	597	granite			brown	Hard	3 GPM @ 597	3

Casing Details

From	To	Casing Type	Casing Material	Diameter	Wall Thickness	Drive Shoe
0	36		Steel		219	Installed
				6		Not Installed

Surface Seal and Backfill Details

Surface Seal Material: Bentonite clay

Backfill Material Above Surface Seal:

Surface Seal Installation Method: Poured

Backfill Depth: 1 feet

Surface Seal Thickness: 2 inches

Surface Seal Depth: 20 feet

Liner Details

Liner Material:

Liner Diameter:

Liner Thickness:

Liner from:

Liner to:

Liner perforations

From	To
There are no records to show	

Screen Details

Intake Method:

Type:

Material:

Opening:

Bottom:

Installed Screens

From	To	Diameter	Assembly Type	Slot Size
There are no records to show				

Well Development

Developed by: Air lifting

Development Total Duration: 2 hours

Well Yield

Estimation Method: Air Lifting

Estimation Rate: 3 USgpm

Estimation Duration: 2 hours

Static Water Level Before Test: 45 ft (btoc)

Drawdown:

Hydrofracturing Performed: No

Increase in Yield Due to Hydrofracturing:

Well Decommission Information

Reason for Decommission:
Method of Decommission:
Sealant Material:
Backfill Material:
Decommission Details:

Pumping Test Information and Aquifer Parameters

Start Date	Description	Test Duration (min)	Boundary Effect	Storativity	Transmissivity (m ² /day)	Hydraulic Conductivity (m/day)	Specific Yield	Specific Capacity (L/s/m)	Analysis Method	Comments
There are no records to show										

Comments

No comments submitted

Documents

Well Number	Document Type	Date Of Upload	Document Status	Uploaded Document
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Well Summary

Well Tag Number: 117710

Well Status: New

Observation Well Number:

Well Identification Plate Number: 43488

Well Class: Water Supply

Observation Well Status:

Owner Name: Norman Deverney & Donna Ramsay

Well Subclass: Not Applicable

Environmental Monitoring System (EMS) ID:

Intended Water Use: Private Domestic

Aquifer Number:

Alternative specs submitted: No

Artesian Condition: No

Technical Report: N/A

Drinking Water Area Indicator: No

Licensing Information

Licensed Status: Unlicensed

Licence Number:

Location Information

Street Address: 4711 Robertson Road
Town/City: Nelson

Legal Description:

Lot	3
Plan	NEP 10851
District Lot	790
Block	
Section	
Township	
Range	
Land District	26
Property Identification Description (PID)	014248654

Description of Well Location: 4711 Robertson Road Nelson BC (Front of Property)



Geographic Coordinates - North American Datum of 1983 (NAD 83)

Latitude: 49.6044
Longitude: -117.13154
UTM Easting: 490496
UTM Northing: 5494656
Zone: 11
Coordinate Acquisition Code: (10 m accuracy) Handheld GPS with accuracy of +/- 10 metres

Well Activity

Activity	Work Start Date	Work End Date	Drilling Company	Date Entered
Construction report	2019-07-15	2019-07-15	Owen's Drilling Ltd.	July 23rd 2019 at 11:44 AM

Well Work Dates

Start Date of Construction	End Date of Construction	Start Date of Alteration	End Date of Alteration	Start Date of Decommission	End Date of Decommission
2019-07-15	2019-07-15				

Well Completion Data

Total Depth Drilled: 97 ft bgl
Estimated Well Yield: 20 USgpm
Static Water Level (BTOC): 27 feet btoc
Finished Well Depth: 93 ft bgl
Well Cap: Bolt On
Artesian Flow:
Final Casing Stick Up: 16 inches
Well Disinfected Status:
Artesian Pressure (head):
Depth to Bedrock:
Drilling Method: Air Rotary
Artesian Pressure (PSI):
Ground elevation: 1785 feet
Method of determining elevation: GPS
Orientation of Well: VERTICAL

Lithology

From (ft bgl)	To (ft bgl)	Raw Data	Description	Moisture	Colour	Hardness	Observations	Water Bearing Flow Estimate (USGPM)
0	5	silty, sand, boulders	soft	Dry	brown	Soft		
5	23	sand, gravel	soft	Dry	brown	Soft		
23	27	sand	soft	Dry	grey	Soft	med, fine	
27	53	sand, gravel	soft	Damp	brown	Soft	damp @ 33'	
53	79	Silty, sand, gravel	soft	Damp	brown	Soft		
79	91	Coarse sand, gravel	soft	Wet	brown	Soft		
91	97	silty sand	soft	Wet	grey	Soft		20

Casing Details

From	To	Casing Type	Casing Material	Diameter	Wall Thickness	Drive Shoe
0	89	Surface casing	Steel	6	219	Installed

Surface Seal and Backfill Details

Surface Seal Material: Bentonite clay

Backfill Material Above Surface Seal:

Surface Seal Installation Method: Poured

Backfill Depth: 1 feet

Surface Seal Thickness: 2 inches

Surface Seal Depth: 20 feet

Liner Details

Liner Material:

Liner Diameter:

Liner Thickness:

Liner from:

Liner to:

Liner perforations

From	To
There are no records to show	

Screen Details

Intake Method: Screen

Type: Telescope

Material: Stainless Steel

Opening: Continuous Slot

Bottom: Bail

Installed Screens

From	To	Diameter	Assembly Type	Slot Size
88.00	93.00	5.00	Screen	25.00

Well Development

Developed by: Air lifting

Development Total Duration: 2 hours

Well Yield

Estimation Method: Air Lifting

Estimation Rate: 20 USgpm

Estimation Duration: 2 hours

Static Water Level Before Test: 27 ft (btoc)

Drawdown:

Hydrofracturing Performed: No

Increase in Yield Due to Hydrofracturing:

Well Decommission Information

Reason for Decommission:
Method of Decommission:
Sealant Material:
Backfill Material:
Decommission Details:

Pumping Test Information and Aquifer Parameters

Start Date	Description	Test Duration (min)	Boundary Effect	Storativity	Transmissivity (m ² /day)	Hydraulic Conductivity (m/day)	Specific Yield	Specific Capacity (L/s/m)	Analysis Method	Comments
There are no records to show										

Comments

No comments submitted

Documents

Well Number	Document Type	Date Of Upload	Document Status	Uploaded Document
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Well Summary

Well Tag Number: 120935

Well Status: New

Observation Well Number:

Well Identification Plate Number:

Well Class: Water Supply

Observation Well Status:

Owner Name: LINDA BLAIR & KEN BLAIR

Well Subclass: Not Applicable

Environmental Monitoring System (EMS) ID:

Intended Water Use: Private Domestic

Aquifer Number:

Alternative specs submitted: No

Artesian Condition: No

Technical Report: N/A

Drinking Water Area Indicator: No

Licensing Information

Licensed Status: Unlicensed

Licence Number:

Location Information

Street Address: 4622 CRESCENT ROAD
Town/City: NELSON/BALFOUR

Legal Description:

Lot	11
Plan	1722
District Lot	790
Block	
Section	
Township	
Range	
Land District	26
Property Identification Description (PID)	008614521

Description of Well Location: LAKESIDE OF HOUSE, 4 M FROM HOUSE



MapBox | Government of British Columbia, DataBC, GeoBC

Geographic Coordinates - North American Datum of 1983 (NAD 83)
Latitude: 49.60453
Longitude: -117.13647
UTM Easting: 490140
UTM Northing: 5494671
Zone: 11
Coordinate Acquisition Code: (10 m accuracy) ICF cadastre and good location sketch

Well Activity

Activity	Work Start Date	Work End Date	Drilling Company	Date Entered
Construction report	2020-07-08	2020-07-08		July 8th 2020 at 5:46 PM

Well Work Dates

Start Date of Construction	End Date of Construction	Start Date of Alteration	End Date of Alteration	Start Date of Decommission	End Date of Decommission

Well Completion Data

Total Depth Drilled:
 Estimated Well Yield:
 Static Water Level (BTOC):
 Finished Well Depth:
 Well Cap:
 Artesian Flow:
 Final Casing Stick Up:
 Well Disinfected Status:
 Artesian Pressure (head):
 Depth to Bedrock:
 Drilling Method:
 Artesian Pressure (PSI):
 Ground elevation:
 Method of determining elevation:
 Orientation of Well: VERTICAL

Lithology

From (ft bgl)	To (ft bgl)	Raw Data	Description	Moisture	Colour	Hardness	Observations	Water Bearing Flow Estimate (USGPM)
There are no records to show								

Casing Details

From	To	Casing Type	Casing Material	Diameter	Wall Thickness	Drive Shoe
				8		

Surface Seal and Backfill Details

Surface Seal Material:

Backfill Material Above Surface Seal:

Surface Seal Installation Method:

Backfill Depth:

Surface Seal Thickness:

Surface Seal Depth:

Liner Details

Liner Material:

Liner Diameter:

Liner Thickness:

Liner from:

Liner to:

Liner perforations

From	To
There are no records to show	

Screen Details

Intake Method:

Type:

Material:

Opening:

Bottom:

Installed Screens

From	To	Diameter	Assembly Type	Slot Size
There are no records to show				

Well Development

Developed by:

Development Total Duration:

Well Yield

Estimation Method:

Estimation Rate:

Estimation Duration:

Static Water Level Before Test:

Drawdown:

Hydrofracturing Performed: No

Increase in Yield Due to Hydrofracturing:

Well Decommission Information

Reason for Decommission:

Method of Decommission:

Sealant Material:

Backfill Material:

Decommission Details:

Pumping Test Information and Aquifer Parameters

Start Date	Description	Test Duration (min)	Boundary Effect	Storativity	Transmissivity (m ² /day)	Hydraulic Conductivity (m/day)	Specific Yield	Specific Capacity (L/s/m)	Analysis Method	Comments
There are no records to show										

Comments

X-REF'D AND ASSOCIATED WITH DOMESTIC WELL REGISTRATION; CONSTRUCTION DATE = AROUND 1980; METHOD OF DRILLING = DRILLED; WELL DEPTH = > 30 FEET

Documents

Well Number	Document Type	Date Of Upload	Document Status	Uploaded Document
120935	Unknown	Date Unknown	Public Document	WTN 120935_Map.pdf

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Well Summary

Well Tag Number: 124093

Well Status: New

Observation Well Number:

Well Identification Plate Number: 28611

Well Class: Water Supply

Observation Well Status:

Owner Name: Crescent Beach Resort 2 (395514 BC Ltd)

Well Subclass: Not Applicable

Environmental Monitoring System (EMS) ID:

Intended Water Use: Water Supply System

Aquifer Number:

Alternative specs submitted: No

Artesian Condition: No

Technical Report: N/A

Drinking Water Area Indicator: No

Licensing Information

Licensed Status: Unlicensed

Licence Number:

Location Information

Street Address: 4598 Highway 3A
Town/City: Nelson

Legal Description:

Lot	B
Plan	NEP22701
District Lot	790
Block	
Section	
Township	
Range	
Land District	26
Property Identification Description (PID)	023280425

Description of Well Location: Crescent Beach Resort



Geographic Coordinates - North American Datum of 1983 (NAD 83)

Latitude: 49.60521
Longitude: -117.13694
UTM Easting: 490106
UTM Northing: 5494747
Zone: 11
Coordinate Acquisition Code: (10 m accuracy) ICF cadastre and good location sketch

Well Activity

Activity	Work Start Date	Work End Date	Drilling Company	Date Entered
Construction report	2021-10-02	2021-10-02		October 2nd 2021 at 11:04 AM

Well Work Dates

Start Date of Construction	End Date of Construction	Start Date of Alteration	End Date of Alteration	Start Date of Decommission	End Date of Decommission

Well Completion Data

Total Depth Drilled:

Estimated Well Yield:

Static Water Level (BTOC):

Finished Well Depth: 30 ft bgl

Well Cap:

Artesian Flow:

Final Casing Stick Up:

Well Disinfected Status:

Artesian Pressure (head):

Depth to Bedrock:

Drilling Method:

Artesian Pressure (PSI):

Ground elevation:

Method of determining elevation:

Orientation of Well: VERTICAL

Lithology

From (ft bgl)	To (ft bgl)	Raw Data	Description	Moisture	Colour	Hardness	Observations	Water Bearing Flow Estimate (USGPM)
There are no records to show								

Casing Details

From	To	Casing Type	Casing Material	Diameter	Wall Thickness	Drive Shoe
There are no records to show						

Surface Seal and Backfill Details

Surface Seal Material:

Backfill Material Above Surface Seal:

Surface Seal Installation Method:

Backfill Depth:

Surface Seal Thickness:

Surface Seal Depth:

Liner Details

Liner Material:

Liner Diameter:

Liner Thickness:

Liner from:

Liner to:

Liner perforations

From	To
There are no records to show	

Screen Details

Intake Method:

Type:

Material:

Opening:

Bottom:

Installed Screens

From	To	Diameter	Assembly Type	Slot Size
There are no records to show				

Well Development

Developed by:

Development Total Duration:

Well Yield

Estimation Method:

Estimation Rate:

Estimation Duration:

Static Water Level Before Test:

Drawdown:

Hydrofracturing Performed: No

Increase in Yield Due to Hydrofracturing:

Well Decommission Information

Reason for Decommission:

Method of Decommission:

Sealant Material:

Backfill Material:

Decommission Details:

Pumping Test Information and Aquifer Parameters

Start Date	Description	Test Duration (min)	Boundary Effect	Storativity	Transmissivity (m ² /day)	Hydraulic Conductivity (m/day)	Specific Yield	Specific Capacity (L/s/m)	Analysis Method	Comments
There are no records to show										

Comments

Record based on limited data from Schedule 2; well depth = 30' approximately; plate attached on 2017/Jun/10

Documents

Well Number	Document Type	Date Of Upload	Document Status	Uploaded Document
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Well Summary

Well Tag Number: 125918

Well Status: New

Observation Well Number:

Well Identification Plate Number: 65108

Well Class: Water Supply

Observation Well Status:

Owner Name: Thomas K Klein

Well Subclass: Not Applicable

Environmental Monitoring System (EMS) ID:

Intended Water Use: Private Domestic

Aquifer Number:

Alternative specs submitted: No

Artesian Condition: No

Technical Report: N/A

Drinking Water Area Indicator: No

Licensing Information

Licensed Status: Unlicensed

Licence Number:

Location Information

Street Address: 4608 Starlight Road
Town/City: Nelson

Legal Description:

Lot	6
Plan	NEP2449
District Lot	790
Block	
Section	
Township	
Range	
Land District	26
Property Identification Description (PID)	015282139

Description of Well Location:



Geographic Coordinates - North American Datum of 1983 (NAD 83)

Latitude: 49.60583
Longitude: -117.135
UTM Easting: 490246
UTM Northing: 5494815
Zone: 11
Coordinate Acquisition Code: (10 m accuracy) Handheld GPS with accuracy of +/- 10 metres

Well Activity

Activity	Work Start Date	Work End Date	Drilling Company	Date Entered
Construction report	2022-05-11	2022-05-17	Owen's Drilling Ltd.	June 9th 2022 at 8:17 AM

Well Work Dates

Start Date of Construction	End Date of Construction	Start Date of Alteration	End Date of Alteration	Start Date of Decommission	End Date of Decommission
2022-05-11	2022-05-17				

Well Completion Data

Total Depth Drilled: 734 ft bgl

Estimated Well Yield: 3.5 USgpm

Static Water Level (BTOC): 145 feet btoc

Finished Well Depth: 734 ft bgl

Well Cap: Aluminum

Artesian Flow:

Final Casing Stick Up: 18 inches

Well Disinfected Status: Disinfected

Artesian Pressure (head):

Depth to Bedrock: 20 feet bgl

Drilling Method: Air Rotary

Artesian Pressure (PSI):

Ground elevation: 1794 feet

Method of determining elevation: GPS

Orientation of Well: VERTICAL

Lithology

From (ft bgl)	To (ft bgl)	Raw Data	Description	Moisture	Colour	Hardness	Observations	Water Bearing Flow Estimate (USGPM)
0	10	Silty Sand, Gravel and Cobbles	loose	Dry	brown	Loose		
10	20	Clay	soft	Wet	brown	Soft		
20	693	Granite	hard	Wet	grey	Hard		
693	734	Granite	medium	Wet	white	Medium		3.5

Casing Details

From	To	Casing Type	Casing Material	Diameter	Wall Thickness	Drive Shoe
0	27	Surface casing	Steel	6	219	Installed

Surface Seal and Backfill Details

Surface Seal Material: Bentonite clay

Backfill Material Above Surface Seal:

Surface Seal Installation Method: Poured

Backfill Depth: 1 feet

Surface Seal Thickness: 1 inches

Surface Seal Depth: 18 feet

Liner Details

Liner Material:

Liner Diameter:

Liner Thickness:

Liner from:

Liner to:

Liner perforations

From	To
There are no records to show	

Screen Details

Intake Method:

Type:

Material:

Opening:

Bottom:

Installed Screens

From	To	Diameter	Assembly Type	Slot Size
There are no records to show				

Well Development

Developed by: Air lifting

Development Total Duration: 3 hours

Well Yield

Estimation Method: Air Lifting

Estimation Rate: 3.5 USgpm

Estimation Duration: 3 hours

Static Water Level Before Test: 145 ft (btoc)

Drawdown:

Hydrofracturing Performed: No

Increase in Yield Due to Hydrofracturing:

Well Decommission Information

Reason for Decommission:
Method of Decommission:
Sealant Material:
Backfill Material:
Decommission Details:

Pumping Test Information and Aquifer Parameters

Start Date	Description	Test Duration (min)	Boundary Effect	Storativity	Transmissivity (m ² /day)	Hydraulic Conductivity (m/day)	Specific Yield	Specific Capacity (L/s/m)	Analysis Method	Comments
There are no records to show										

Comments

No comments submitted

Documents

Well Number	Document Type	Date Of Upload	Document Status	Uploaded Document
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Well Summary

Well Tag Number: 131010

Well Status: New

Observation Well Number:

Well Identification Plate Number:

Well Class: Water Supply

Observation Well Status:

Owner Name: Brendan Geraghty

Well Subclass: Not Applicable

Environmental Monitoring System (EMS) ID:

Intended Water Use: Private Domestic

Aquifer Number:

Alternative specs submitted: No

Artesian Condition: No

Technical Report: N/A

Drinking Water Area Indicator: No

Licensing Information

Licensed Status: Unlicensed

Licence Number:

Location Information

Street Address: 4647 Crescent Rd
Town/City: Balfour

Legal Description:

Lot	
Plan	
District Lot	
Block	
Section	
Township	
Range	
Land District	
Property Identification Description (PID)	

Description of Well Location:



MapBox | Government of British Columbia, DataBC, GeoBC

Geographic Coordinates - North American Datum of 1983 (NAD 83)
Latitude: 49.604722
Longitude: -117.134167
UTM Easting: 490306
UTM Northing: 5494692
Zone: 11
Coordinate Acquisition Code: (10 m accuracy) Handheld GPS with accuracy of +/- 10 metres

Well Activity

Activity	Work Start Date	Work End Date	Drilling Company	Date Entered
Construction report	2023-07-17	2023-07-20	Owen's Drilling Ltd.	September 30th 2024 at 10:15 AM

Well Work Dates

Start Date of Construction	End Date of Construction	Start Date of Alteration	End Date of Alteration	Start Date of Decommission	End Date of Decommission
2023-07-17	2023-07-20				

Well Completion Data

Total Depth Drilled: 557 ft bgl
Estimated Well Yield: 1.5 USgpm
Static Water Level (BTOC): 31 feet btoc
Finished Well Depth: 557 ft bgl
Well Cap: Aluminum
Artesian Flow:
Final Casing Stick Up: 24 inches
Well Disinfected Status: Disinfected
Artesian Pressure (head):
Depth to Bedrock: 11 feet bgl
Drilling Method: Dual Rotary
Artesian Pressure (PSI):
Ground elevation: 1758 feet
Method of determining elevation: GPS
Orientation of Well: VERTICAL

Lithology

From (ft bgl)	To (ft bgl)	Raw Data	Description	Moisture	Colour	Hardness	Observations	Water Bearing Flow Estimate (USGPM)
0	11	sand cobbles boulders		Dry	brown	Loose		
11	557	granite bedrock		Wet	grey	Hard	1.5 gpm at 548ft	

Casing Details

From	To	Casing Type	Casing Material	Diameter	Wall Thickness	Drive Shoe
0	17	Surface casing	Steel	6	0.219	Installed

Surface Seal and Backfill Details

Surface Seal Material: Bentonite clay

Backfill Material Above Surface Seal:

Surface Seal Installation Method: Poured

Backfill Depth:

Surface Seal Thickness: 1 inches

Surface Seal Depth: 18 feet

Liner Details

Liner Material: PVC

Liner Diameter: 4.5 inches

Liner Thickness: 0.173 inches

Liner from: 10 (ft bgl)

Liner to: 557 (ft bgl)

Liner perforations

From	To
537	557

Screen Details

Intake Method: Uncased Hole

Type:

Material:

Opening:

Bottom:

Installed Screens

From	To	Diameter	Assembly Type	Slot Size
There are no records to show				

Well Development

Developed by: Air lifting

Development Total Duration: 2 hours

Well Yield

Estimation Method: Air Lifting

Estimation Rate: 1 USgpm

Estimation Duration: 1 hours

Static Water Level Before Test:

Drawdown:

Hydrofracturing Performed: No

Increase in Yield Due to Hydrofracturing:

Well Decommission Information

Reason for Decommission:
Method of Decommission:
Sealant Material:
Backfill Material:
Decommission Details:

Pumping Test Information and Aquifer Parameters

Start Date	Description	Test Duration (min)	Boundary Effect	Storativity	Transmissivity (m ² /day)	Hydraulic Conductivity (m/day)	Specific Yield	Specific Capacity (L/s/m)	Analysis Method	Comments
There are no records to show										

Comments

No comments submitted

Documents

Well Number	Document Type	Date Of Upload	Document Status	Uploaded Document
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