

Lagoon Compliance Inspection

System Name:	<u>ELK RIDGE UTILITIES LTD. WASTEWATER WORKS</u>	Remote Inspection ID:	1193624
Approval No:	<u>00051136-00-00</u>	Population:	<u>440</u>
Date:	<u>24-SEP-2025 13:46</u>		
Announced:	<u>Yes</u>	Person Interviewed:	<u>MICHELE, BONNEAU</u>

General Section

Wastewater Treatment Type:	<u>LAGOON</u>	System Classification:	<u>ONE</u> WWT <u>ONE</u> WWC
Sewage Categorization:	<u>COMMERCIAL</u>	Discharge Easement:	<u>No</u>
Collection Type:	<u>GRAVITY</u>		

Comments:

THE EAST BERMS OF CELL 2 APPEAR TO HAVE A STEEP SLOPE. THIS CAN BE AN INDICATION THAT EROSION IS TAKING PLACE. PLEASE TAKE STEPS TO REPAIR THE BERMS AS RESOURCES ALLOW.

THE OUTSIDE SLOPE OF CELL 1 HAS VEGETATION THAT CAN IMPACT THE INTEGRITY OF THE BERM. PLEASE CONTROL VEGETATION ON ALL BERMS TO PREVENT ROOT ACTION FROM DEVELOPING.

Contacts

Name	Position	Phone / Fax	Email
KOWBEL, TERRI	CERTIFIED OPERATOR	Cell: (306) 202-9008	N/A
NELSON, RUSSELL	UNCERTIFIED OPERATOR	Cell: (306) 961-0637	RUSSELLNELSON43@GMAIL.COM
MCLEOD, EVAN	ENVIRONMENTAL PROJECT OFFICER	Business: (306) 961-8400 Fax: (306) 953-3939	EVAN.MCLEOD@WSASK.CA
BONNEAU, MICHELE	ADMINISTRATOR	Phone: (306) 940-9052	INFOELKRIDGE@SASKTEL.NET

Complaints: N/A

Operator Certification Section

Operator Name	Certification Levels		Expiry Date	Operator is a Supervisor
	Wastewater Collection	Wastewater Treatment		
KOWBEL, TERRI	ONE	ONE	15-JUN-2026	Yes
NELSON, RUSSELL	NONE	NONE	N/A	No

Discharge Area

Discharge Type: INTERMITTENT

Disinfection: No

Effluent Treatment: FACULTATIVE LAGOON

Discharge Area: DITCH MARSH

Land Use in Receiving Area:
RECREATIONAL, NATURAL

Nearest Residence:
<500M

Latitude:535342.97 Longitude:-1055830.42

Discharge Area Comments:

THIS LAGOON DISCHARGES TO A LOW LYING MARSH AREA

Pumping Stations Total Pumping Stations: 2

Pumping Station #	Number of			Mechanical Ventilation	Type of Exhaust	By-Pass			Potable Water Outlet	Adequate Backflow Protection	Backup Power
	Pumps	Wet Wells	Dry Wells			Works	Date	Reported			
1	2	1	0	Y	FORCED DRAFT	N	N/A	N	N	Y	Y
2	2	1	0	Y	FORCED DRAFT	N	N/A	N	N	Y	N

Lagoons Total Storage Cells: 1 Total Treatment Cells: 2

Cell Number	Cell Type	Freeboard Estimate (m)	Odour	Liquid Color	Dyke Condition	Seepage
1	TREATMENT	0	SLIGHT	GREEN	FAIR	NONE EVIDENT
2	TREATMENT	0	SLIGHT	GREEN	FAIR	NONE EVIDENT
3	STORAGE	1	NONE	LIGHT BROWN	FAIR	NONE EVIDENT

Lagoon Discharge

Cell Number	Date Started	Date Finished	Starting Freeboard (m)	Ending Freeboard (m)	Volume Discharged (m ³)
3	13-OCT-2024 13:55	24-OCT-2024 13:55	0	1.7	N/A
3	27-APR-2024 13:57	03-MAY-2024 13:57	0	2	N/A
3	26-APR-2025 13:58	02-MAY-2025 13:58	0	2	N/A

Regulatory Section C=Compliant NC=Non-Compliant N/A=Not Applicable

C	NC	NA	General	COMMENTS
X			Approved system EMPA2010 24(1)	PERMIT EXPIRES MARCH 2029
X			Certified operator WWSW 62	
			Sewage Pumping Stations	
X			Pumping stations must have mechanically forced air ventilation WWSW 8(1)	
			Lagoons	
X			Lagoon cells inspected on frequency as specified in permit EMPA2010 29(1)	
X			Inter cell transfer valve closed prior to discharge EMPA2010 29(1)	
X			Lagoon discharged after spring runoff and before November 1st EMPA2010 29(1)	
X			Notification of downstream affected landowners prior to discharge EMPA2010 29(1)	
			Facultative Lagoon	
X			Two basins in series WWSW 12	
	X		Lagoon design standards WWSW 12 & Table 2	A 2020 LAGOON PREDESIGN PERFORMED BY CATTERALL AND WRIGHT HAS IDENTIFIED THIS LAGOON AS UNDERSIZED FOR PRIMARY TREATMENT AND STORAGE FOR CURRENT POPULATION ESTIMATES. TO AVOID BARRIERS TO GROWTH, PLEASE BEGIN PLANNING FOR LAGOON UPGRADES TO MEET CURRENT DESIGN STANDARDS.
			Reporting	
X			Immediate reporting of upset/bypass condition WWSW 13(2)	
			Records	
X			Maintenance work & failure of treatment components WWSW 15(a)(i)	
X			Types, dosages and total amounts of chemicals or other substances added WWSW 15(a)(ii)	NOTES ON ENZYMES USAGE ARE BEING KEPT.
X			Dates of discharge of treated effluent and volumes of discharge WWSW 15(a)(iii)	
X			Locations from which samples are taken WWSW 15(a)(iv)	

X			Results of any tests WWSW 15(a)(v)	
X			Site inspection as required by permit EMPA2010 29(1)	PLEASE ENSURE COMMENTS RELATED TO SECTION 2.5 OF THE PERMIT TO OPERATE ARE PRESENT IN THE OPERATIONAL LOGS.
X			Records maintained in appropriate manner: (chronological/factual/initialed/done by permittee) EMPA2010 29(1)	
X			Monthly or annual review of records by permittee EMPA2010 29(1)	PLEASE ENSURE THAT THE BOARD REVIEWS THE SEWAGE WORKS RECORDS ON AT LEAST AN ANNUAL BASIS.
			Testing	
X			Sampling done as required (see permit) EMPA2010 29(1)	
X			Accredited lab used for analysis EMPA2010 29(1)	



(Operator/Supervisor Signature)



Agree with statements



(EPO Signature)