



Water Security
Agency

Waterworks Compliance Inspection - Human Consumptive Use (Part I)

System Name:	<u>WADENA WATERWORKS</u>	Remote Inspection ID:	1187076
Approval No:	<u>00002553-04-00</u>		
Population:	<u>1288</u>		
Date:	<u>08-JUN-2021 10:42</u>	Announced:	<u>Yes</u>
		Person Interviewed:	<u>NEUMAN, AL YSHIA</u>

General Section

Water Supplies in Service :	<u>GROUNDWATER</u>	System Classification:	<u>TWO WT TWO WD</u>
# of Service Connections:	<u>751</u>	System Type:	<u>MUNICIPAL SYSTEM</u>
Service Connection Metering:	<u>Yes</u>	Source Inspection Completed:	<u>No</u>
Comments: THE TOWN IS PRONE TO DISTRIBUTION SYSTEM UPSETS. THE TOWN MUST LOOK AT WAYS TO IMPROVE THE QUALITY WITHIN THE SYSTEM.			

Contacts

Name	Position	Phone / Fax	Email
NEUMAN, AL YSHIA	MANAGER	Business: (306) 338-7572 Cell: (403) 580-7151	WADENAPW@SASKTEL.NET
ZUBOT, MARSHALL	OPERATOR	Cell: (306) 230-4111	N/A
STRAND, MELVIN	FOREMAN	Phone: (306) 331-9270 Cell: (639) 947-7377	N/A

Complaints:

SOME DIRTY WATER COMPLAINTS

Operator Certification Section

Operator Name	Certification Levels		Expiry Date	Operator is a Supervisor
	Water Distribution	Water Treatment		
NEUMAN, ALYSHIA	TWO	TWO	15-JUN-2023	Yes
ZUBOT, MARSHALL	IN PROGRESS	IN PROGRESS	N/A	No
STRAND, MELVIN	NONE	NONE	N/A	No

Test Results

Station #	Sample ID	Location/Comments	Variable	Flag	Measurement	Qualifier
SK05MA0014	2021048169	WATER PLANT	CHLORINE (FREE)	N/A	1.280 mg/l	N/A
"	"	"	CHLORINE (TOTAL)	N/A	1.740 mg/l	N/A
"	"	"	TURBIDITY	N/A	0.870 NTU	N/A
"	2021048170	ESSO	CHLORINE (FREE)	N/A	0.750 mg/l	N/A
"	"	"	CHLORINE (TOTAL)	N/A	1.130 mg/l	N/A
"	"	"	TURBIDITY	N/A	1.390 NTU	N/A
"	2021048171	RJ SALES	CHLORINE (FREE)	N/A	1.230 mg/l	N/A
"	"	"	CHLORINE (TOTAL)	N/A	1.590 mg/l	N/A
"	"	"	TURBIDITY	N/A	1.380 NTU	N/A
"	2021048172	NUTRIEN	CHLORINE (FREE)	N/A	0.680 mg/l	N/A
"	"	"	CHLORINE (TOTAL)	N/A	0.890 mg/l	N/A
"	"	"	TURBIDITY	N/A	1.080 NTU	N/A
"	2021048173	TOWN OFFICE	CHLORINE (FREE)	N/A	1.550 mg/l	N/A
"	"	"	CHLORINE (TOTAL)	N/A	1.890 mg/l	N/A
"	"	"	TURBIDITY	N/A	1.200 NTU	N/A

"	N/A	OPERATORS TEST OF WATER PLANT	CHLORINE (FREE)	N/A	1.250 mg/l	N/A
"	"	"	CHLORINE (TOTAL)	N/A	1.800 mg/l	N/A

Equipment Validation

Turbidity

Equipment Type	Equipment Name/Number	STD1(L) (Expected, Test)	STD2 (Expected, Test)	STD3 (Expected, Test)	STD4 (Expected, Test)	Result	Gel Standard
HACH 2100Q	N/A	(10.00, 9.44)	(20.00, 19.50)	(100.00, 95.00)	(800.00, 739.00)	GOOD	N/A

Chlorine

Equipment Type	Equipment Name/Number	STD1 (Expected, Test)	STD2 (Expected, Test)	STD3 (Expected, Test)	Result
DR890	...3458	(0.22, 0.23)	(0.87, 0.92)	(1.53, 1.60)	GOOD

Human Consumptive Regulatory Section

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

C	NC	NA	General	Comments
X			Valid permit to operate and/or construct EMPA2010 24(1)	
X			Certified operator WWSW 62	THE MANAGER IS THE ONLY CERTIFIED OPERATOR. THE TOWN UTILIZES CERTIFIED OPERATORS FROM OTHER TOWNS IN HER ABSENCE. THE TOWN SHOULD LOOK AT GETTING MORE OPERATORS CERTIFIED.
X			Valid water rights license EMPA2010 29(1)	THE WATER RIGHTS LICENSES WERE RENEWED AND NOW EXPIRE IN FEBRUARY 2026
X			Copy of permit posted at waterworks EMPA2010 29(1)	PERMIT NOW POSTED AT THE WTP AS REQUIRED.
Wells				
X			Constructed to exclude contaminants WWSW 22(2)	

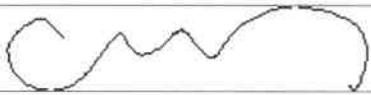
X		Disinfection of new lines & repairs WWSW 22(2)(f)	
Distribution System			
X		Common trenching WWSW 23(1)(2)	
X		Disinfection of new and repaired pipelines WWSW 23(4)& 27(4)	
Water Storage Reservoirs			
X		Water tight cover WWSW 24(2)(a)	
X		In good repair WWSW 24(2)(b)	
X		Meets reservoir design requirements (only applies to facilities constructed after June 1, 2015) WWSW 24(2)(c)	
X		Manholes (all manholes must be 150mm above grade, designed and maintained to prevent the entry of water, and locked if located outside WTP) WWSW 24(3)(4).	
X		Pipe entries installed to prevent contamination WWSW 24(5)	
X		Vents WWSW 24(6)	
Water Treatment Plants and Pumphouses			
X		Floor drainage to drains or sumps WWSW 25 (a)	
X		Drain lines to sanitary sewers have trap WWSW 25(b)	
X		Backflow prevention device on treatment component WWSW 25(c)	
X		Water meter(s) installed in WTP or pumphouse WWSW 25(d)	
X		Adjustable chemical feeder WWSW 25(e)	
	X	Water quality monitoring and testing equipment is maintained and calibrated as recommended by manufacturer EMPA2010 29(1)	VERIFY CAL FOR THE 2100Q WAS MISSED THE WEEK OF APRIL 20TH.
X		Facility is clean and in orderly condition WWSW 25(f)	
X		NSF/ANSI 60 Approved chemicals being used and at or below Max. use limit (unless otherwise approved) WWSW 27(3)	
Disinfection			
			AS PER THE RECENT WSA ADDENDUM , CT IS BEING MET IF THE FREE RESIDUAL IS

X	Continuous chlorine disinfection (unless otherwise approved per 27(7)) WWSW 27(5)	0.15MG/L IN A FULL CLEAR WELL. FREE RESIDUAL MUST BE 0.3MG/L IF THE CLEAR WELL IS HALF FULL TO ACHIEVE CONTACT TIME. IF THE WELLS ARE DEEMED GUDI, THE SYSTEM MAY NOT MEET THE REQUIRED CONTACT TIME.
X	A free chlorine residual as required in the permit to operate a waterworks WWSW 27(7) & 31(1)(2)	
X	A free chlorine residual of not less than 0.1 mg/L in water entering the distribution system WWSW 27(6)(a)	
X	A total chlorine residual of not less than 0.5 mg/L OR a free chlorine residual of not less than 0.1 mg/L in water throughout the distribution system WWSW 27(6)(b)	
Standards		
X	Bacteriological WWSW 29	NO POSITIVES SINCE THE LAST INSPECTION
X	Chemical standards WWSW 26(2)(3) & 31	THE TOWN IS ROUTINELY OVER THE NEW MANGANESE REQUIREMENT OF 0.12MG/L. THEY HAVE HIRED CONSULTANTS TO INVESTIGATE WAYS TO IMPROVE TREATMENT.
X	Waterworks meets the requirements of future chemical health and pesticide related standards	
Groundwater		
X	Less than or equal to 1.0 NTU discrete measurements (95%) WWSW 30(2)(e)(i)	
Assessment		
X	Proper waterworks assessment WWSW 32	WSA RECENTLY FINALIZED. IN THE FUTURE, AS PER THE RECENT REGULATION CHANGES, THE WSA IS NO LONGER REQUIRE UNLESS SPECIFICALLY REQUESTED BY THE EPO VIA PERMIT CONDITION.
Operational Anomalies		

X			Reported upset condition WWSW 34(1)	THE TOWN DOES A GOOD JOB OF REPORTING UPSETS AND ADVERSE CONDITIONS.
X			Reported disinfection system upset WWSW 34(2)(a)(b)	
X			Reported missing on-site water quality testing records WWSW 34(2)(c)	
Testing				
X			Bacteriological testing WWSW 37(2)	ALL SAMPLES SUBMITTED. SOME OF THE DATA ON THE MAY 3RD SAMPLE ISN'T IN OUR DATABASE BUT THE TOWN PROVIDED THE INFO.
X			Bacteriological follow-up WWSW 37(5) & 37(9)	
X			Bacteriological sample after completion, alteration, extension or repair WWSW 38	
X			Chlorine monitoring WWSW 37(2)(4)	
X			Turbidity monitoring WWSW 37(2)(4)	
		X	Fluoride monitoring (both onsite and offsite) WWSW 37(6) & 39	
Other Constituents				
X			General chemical sampling conducted WWSW 37(2)(6)	COMPLETED JANUARY 2020. REQUIRED AGAIN IN 2022.
X			Health and toxicity sampling conducted WWSW 37(2)(6)	COMPLETED JANUARY 2020. REQUIRED AGAIN IN 2022.
		X	Trihalomethane sampling conducted WWSW 37(2)(6)	PLEASE CONDUCT A THM ANALYSIS TO ASCERTAIN IF THERE IS ANY DISINFECTION BY PRODUCTS FORMING IN THE SYSTEM
		X	Giardia/cryptosporidium sampling conducted WWSW 37(2)(6)	
X			Accredited laboratory WWSW 37(2)(b)	
Water from Treatment Plant Discharged to Environment				
		X	Wastewater discharged to environment sampling conducted EMPA2010 29(1)	
Operational Records				
X			Daily water meter reading WWSW 40(1)(a)	
X			Types, dosages and total amounts of chemical WWSW 40(1)(b)	

X		Samples - locations, sampler, and results WWSW 40(1)(c)	
X		Abnormal operating procedures WWSW 40 (1)(d) & 40(1)(e)	
X		Upset conditions (includes water treatment facility and water distribution system upsets) WWSW 40(1)(f)	
X		Chlorine upsets WWSW 40(1)(g)	
X		Calibration records for test equipment WWSW 40(1)(h)	ALL DATA COMPILED NOW.
X		Maintenance WWSW 40(1)(i)	
X		Chronological order WWSW 40(2)(a)	
X		Permittee recorder WWSW 40(2)(b)	
X		Identification of recorder WWSW 40(2)(c)	
X		Five year history of log WWSW 40(2)(d)	
X		Explanatory notes WWSW 40(2)(e)	
X		Factual data entry WWSW 40(2)(f)	
X		No default values used WWSW 40(2)(g)	
QA/QC and Recordkeeping Review			
X		QA/QC and ERP in place WWSW 41(1)	UPDATE THE QA/QC AND EMERGENCY RESPONSE PLAN IF NECESSARY AND FORWARD TO THE EPO. INFO AND TEMPLATES CAN BE FOUND ON SASKH2O.CA.
X		Monthly review of records by permittee WWSW 41(2)	SIGNED BY ADMIN AND ACTING CLERK SINCE THE ADMIN LEFT
X		Report abnormal or missing records WWSW 41(3)	
Annual Notice To Customers			
X		On water quality and sample submission compliance WWSW 42(1)	
X		Written notice provided to Minister of completion of annual notice to consumers WWSW 42(2)	RECEIVED
General			
X		Split sampling with the operator was completed	
X		Operator's test equipment appears to be performing adequately	
X		Representative of the waterworks signature was obtained	YES

X	Representative of the waterworks agreed with the inspection statements	YES
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Agree with statements

(Operator/Supervisor Signature)



(EPO Signature)