

## January 2020 ETT List

Note: Column titled "Est. New ETT Score" is the estimated new score based on the violations that have Returned to Compliance (RTCd) during the Quarter. Please note that this score will likely change on the next quarter's list due to further violations being generated. Comments submitted by Drinking Water Program staff on February 18, 2020.

Program Staff	RMW	Est. New ETT Score	System Information	10 Point		5 Point						1 Point										General ETT Comments	How to Return to Compliance	Known Hardware Problems				
				SW	GWR	RTCR	SW	GWR	Nitrate	Arsenic	DBPs	LCR	RTCR	SW	GWR	Arsenic	DBPs	LCR	IOC	VOC	SOC				Rads	CCR	PN	
MORRISON	No RMW	11	AC ALASKA COMMERCIAL STORE / AK2270427 (475 / NTNC)																							System last sampled for DBPs in 2012 and has not had sanitary survey conducted since 2017.	Collect December 2020 DBPs from Deli. Have a sanitary survey conducted in 2020.	N/A
STATZ	YKHC	58	ALAKANUK WATER SYSTEM / AK2270362 (570 / C)																							System last sampled for Nitrate in 2015, quarterly HAA5/TTHM in 2015, Lead/Copper in 2012, and VOC in 2015. System consistently fails to submit the required number of EP chlorine residual measurements in MORs.	Sample for overdue contaminants including: Nitrate, HAA5, TTHM, Lead/Copper and VOC. System must submit complete MORs, with the required number of EP chlorine residual measurements.	N/A
MORRISON	YKHC	20	ANVIK WATER SYSTEM / AK2280171 (96 / C)																							System last sampled for DBPs in 2010, Lead/Copper in 2016 and Nitrate in 2017. System did not collect triggered source water sample after a TC present sample in 2018.	Sample TTHM/HAA5 in July 2020. Sample for Lead/Copper and Nitrate in 2020. Conduct triggered source water monitoring.	N/A
MORRISON	YKHC	12	ATMAUTLUAK WATER SYSTEM / AK2271033 (311 / C)																							System has overdue sanitary survey significant deficiencies from 2017 inspection.	Correct sanitary survey deficiencies.	N/A
BODYFELT	NSHC	31	BERING ST SD - TELLER SC/WASH / AK2340248 (295 / C)																							System has exceeded the Stage 2 TTHM LRAA MCL since 2nd quarter 2018. System has a new source, and initial monitoring for 4th quarter 2019 shows lower TTHM results. However, the system still exceeds the RAA.	A new source and a temporary WTP went online in October 2019. Based on initial monitoring in the 4th quarter 2019, the new treatment and source appear to be reducing the TTHM levels. However, the system still exceeds the RAA.	Temporary upgrades to existing alternative filtration system were constructed in fall 2019 and Final Approval To Operate request received February 2020; which is pending DEC review. New permanent filtration plant project is under design and may be submitted for plan review in 2020.
MORRISON	No RMW	13	BETHEL TRAILER COURT / AK2271148 (500 / C)																							System has two overdue sanitary defects from combination Level 2 Assessment/Sanitary Survey in 2016 and did not submit CCR certification page in 2018.	Correct sanitary defects/deficiencies and submit CCR certification page for 2017 CCR.	N/A
GILLESPIE	No RMW	11	BLUFFVIEW ACRES WATER SYSTEM / AK2223624 (100 / C)																							System has exceeded the Arsenic MCL since identified as a PWS in 2017. Engineering submittal received on 11/1/2019 to address the Arsenic exceedance. A request for information related to Point-of-Use device verification, speciation testing and treatment system maintenance was sent 1/17/2020.	Install treatment to address the Arsenic MCL exceedance.	Treatment needed to address the Arsenic MCL exceedance.
LITTLE	No RMW	17	CAMERON ACRES / AK2220473 (35 / C)																							System working with an engineering firm, to determine best course of action to address Arsenic MCL. Various pilot tests on Point-of Use devices were conducted and engineering firm is working on an engineering submittal. Engineering timeline for proposal expected to be submitted by 2/21/2020.	Install treatment to address the Arsenic MCL exceedance.	Treatment needed to address the Arsenic MCL exceedance.
VANSANDT	BBAHC	22	CLARKS POINT WATER SYSTEM / AK2260202 (128 / C)																							System last sampled for TC in April 2019, Nitrate in 2017, periodic Arsenic in 2012. System has overdue sanitary survey deficiencies (unscreened well vent, uncertified water Operator, inadequate sanitary seal) from 2013 and 2017 inspections.	Sample for overdue contaminants in 2020 including: Nitrate, TC sample, and Arsenic. Correct sanitary survey deficiencies and apply for an Initial SOC monitoring waiver for the 2020-2022 compliance period.	N/A
VISSCHER	Manilaq	55	DEERING UTILITY SYSTEM / AK2340222 (160 / C)																							System has exceeded the MCL for TTHM since 2nd quarter 2017. System has not had sanitary survey conducted since 2015.	Upgrade current treatment and have a sanitary survey conducted in 2020.	Phase I of installing a new direct filtration system with coagulation and pressure sand filters was constructed prior to DEC granting Approval To Construct. VSW has received Phase II funding and with those funds, are completing Phase I. Construction completion deadline is unknown. Phase II will address corrosion control and DBPs.
BODYFELT	NSHC	15	DIOMEDE JOINT UTILITIES / AK2340141 (184 / C)																							System has historically exceeded the Nitrate and Arsenic RAA since 12/21/2005. System missed 2018 and 2019 annual TTHM/HAA5 sample due to operational issues. System needs to submit MORs.	Install treatment to address historic Nitrate and Arsenic MCLs. Submit a TTHM/HAA5 sample 3rd quarter 2020, sample TC monthly, and Lead/Copper samples. Submit MORs as soon as communication is possible.	ANTHC is planning to develop and install WTP upgrades to meet SWTR/LT1 (cartridge filters) and Nitrate and Arsenic MCLs (ion exchange). A PER was finalized. ANTHC is now in the process of requesting design and construction funding and is also looking into a pilot study that will include ion exchange technology and RO. Plan is anticipated to be submitted for DEC for review in March 2020.
MORRISON	YKHC	13	EMMONAK WATER SYSTEM / AK2270299 (820 / C)																							System last sampled for Lead/Copper in 2018 but had an incomplete set. System needs to submit daily EP chlorine for MORs. System exceeded MCL for TTHM in August 2019.	Sample 10 Lead/Copper samples in 2021. Submit daily EP chlorine readings on MORs.	N/A

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NAKANISHI	No RMW	12	FOREST PARK TC / AK2210794 (175 / C)																							System is overdue for VOCs and has overdue sanitary survey deficiency from 2016 inspection.	Collect required VOCs and correct sanitary survey deficiency.	System has pressure issues, and ongoing maintenance problems.
LATIMER	No RMW	13	GEORGE INLET CANNERY / AK2121501 (129 / NC)			1																				Onsite turbidity/chlorine residual monitoring was complete, but system failed to submit MOR.	Submit MORs and collect monthly TC sample. Submit 2020 RTCR Seasonal Startup Form.	N/A
LITTLE	No RMW	31	HEALTH QUEST THERAPY INC / AK2226049 (165 / NTNC)																							System has exceeded the Arsenic MCL since identified as a PWS in 2017. Engineering submittal received on 11/1/2019 to address the Arsenic exceedance. A request for information related to Point-of-Use device verification, speciation testing and treatment system maintenance was sent 1/17/2020.	Install treatment to address the Arsenic MCL exceedance.	Treatment needed to address the Arsenic MCL exceedance.
BJORKMAN	DEC	31	HYDABURG / AK2120224 (415 / C)			1																				System failed to complete a Level 1 Assessment in 2018. Last DBPs were over the MCL.	Complete a Level 1 Assessment or have a sanitary survey conducted in 2020. DBP LRAA needs to be below the MCL.	N/A
BJORKMAN	DEC	21	KAKE MUNICIPAL WATER / AK2130083 (415 / C)																							System missed one set of DBP samples in the last 12 months. The LRAA is 72.4 mg/L.	Collect DBPs that allow the LRAA to be below the MCL for HAA5.	N/A
BJORKMAN	No RMW	79	KB SUB. WATER SERVICE ASSOC. / AK2243658 (170 / C)																							Most recent Arsenic sample (15.3 mg/L) is still exceeding MCL with the new wells. System will need to work with engineers to find a different solution.	Collect Arsenic samples that allow the average to be below the MCL. Submit well yield test and updated plan to address Arsenic MCL exceedance.	Arsenic in groundwater; no onsite public wastewater system to accommodate treatment backwash. City of Soldotna water connection not readily available.
BJORKMAN	DEC	17	KLAWOCK / AK2120169 (904 / C)																							System has elevated DBP levels, but system staff are working on a solution. Waiting on confirmation on CCR certification.	Collect DBPs that allow the LRAA to be below the MCL for HAA5.	N/A
VISSCHER	Manilaq	15	KOBUK WATER SYSTEM / AK2340565 (93 / C)					2																		System has overdue sanitary survey deficiencies (failure to have a certified Operator, failure to have the chemical feed pump controlled by a flow switch) identified from 2012 and 2015 inspections respectively.	Work with the Operator Training and Certification Program to develop a training plan and testing schedule for the current Operator(s). System must also replace current flow switches to ensure chemical feed pumps are operating as designed.	Inadequate well yield. Well screen needs cleaning and well filter pack redeveloped before determining if well is able to produce enough for community. Distribution is subject to freezing. Design for WTP replacement is in works.
STATZ	YKHC	24	KONGIGANAK WATER SYSTEM / AK2271025 (539 / C)																							System consistently fails to meet turbidity requirements.	System must submit a complete MOR with turbidity levels below 0.3 NTU.	Currently on BWN and in need of major modification. System cannot meet SWTR requirements given current configuration, specifically with respect to concentration time.
VISSCHER	No RMW	99	KOTZEBUE MUN. WATER SYSTEM / AK2340060 (3234 / C)																							System is exceeding the MCL for DBPs. The HAA5 LRAA MCL has exceeded since 1st quarter 2015 and the TTHM LRAA MCL since 2nd quarter 2019.	Upgrade current treatment.	Plans for a new micro-nano membrane filtration system were submitted for Construction Approval on 10/22/2019 with construction scheduled for 2020. DEC provided comments and responses were received 1/28/2020; pending DEC review.
VANSANDT	BBAHC	13	MANOKOTAK WATER SYSTEM / AK2260090 (293 / C)					1																		System last sampled for Arsenic in 2013, VOCs in 2013, cyclic Rads & Gross Alpha in 2006. System has overdue sanitary survey deficiencies (separation distance, well vent unscreened, no raw source water tap, lack of proper well sanitary seal) from 2013 and 2017 inspections.	Sample for overdue contaminants including: Arsenic, VOCs, Rads and Gross Alpha. Correct 2013 and 2017 sanitary survey deficiencies.	N/A
LATIMER	No RMW	132	MCKENZIE INLET LOGGING CAMP / AK2121522 (45 / NTNC)			12																				System remains on BWN. Treatment and source issues will be addressed in ongoing plan review. Operator plans to collect missed samples ASAP.	Sample for VOCs and Lead/Copper. Decrease turbidity and complete corrective actions/plan review.	Treatment and source issues will be addressed in ongoing plan review.
MORRISON	YKHC	11	MOUNTAIN VILLAGE WATER SYSTEM / AK2270150 (850 / C)																							System submitted Level 1 Assessment Form in May 2019, but failed to submit documentation of completed corrective actions. System did not monitor for HAA5 in 2019. System did not collect triggered source water sample after a TC present sample in 2019.	Submit documentation of corrective actions from Level 1 Assessment. Sample both TTHM and HAA5 in 4th quarter 2020. Conduct triggered source water monitoring for DS Upper Loop.	N/A
MORRISON	YKHC	51	NATIVE VILLAGE OF SLEETMUTE / AK2271874 (82 / C)			4																				System last sampled for DBPs in 2017 and did not submit CCR certification page in 2019. EP chlorine residual on MOR is often below 0.2 mg/L. System is not submitting distribution chlorine residual with monthly TC sampling.	Submit monthly distribution chlorine residual associated with TC sample. By the 10th of each month, submit MORs with EP residual above 0.2 mg/L. Collect DBPs in August 2020. Submit CCR certification page in 2020.	N/A
MORRISON	YKHC	15	NEWTOK WATER SYSTEM / AK2271431 (435 / C)																							System last sampled for DBPs in 2014, and VOCs in February 2019. Village is in the process of relocating. Cannot adequately treat water, and have been on a long-term BWN.	Sample for DBPs in September 2020 and quarterly for VOCs. By the 10th of each month, submit MORs meeting requirements for EP chlorine and turbidity.	Cannot adequately treat water, and have been on a long-term BWN.

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STATZ	YKHC	36	NIGHTMUTE NEW WATERING POINT / AK2271721 (243 / C)							2																System last sampled for Nitrate in 2016, Arsenic in 2003, Lead/Copper in 2007, IOCs in 2003, VOCs in 2003, SOCs in 2003, Gross Alpha, combined Uranium and Radium in 2007.	Sample for overdue contaminants including: Nitrate, Arsenic, Lead/Copper, IOCs, VOCs, SOCs, Gross Alpha, combined Uranium and Radium. System must submit an Initial SOC Monitoring Waiver in order to be taken off quarterly SOC monitoring.	N/A
VANSANDT	No RMW	27	PETER PAN SEAFOOD PORT MOLLER / AK2261216 (140 / NC) PIT BAR AND LIQUOR STORE / AK2240781 (250 / NC)			1	1					9			3											System failed to monitor for SW turbidity meeting FANLs (0.3 NTU) between 2018 and 2019 and to monitor for distribution chlorine residual at the same time/location as monthly TC sample. In 2019, system did complete initial monitoring for LT2.	Submit 2020 RTCR Seasonal Startup Form. Monitor for effluent turbidity that is ≤ 0.3 mg/L and for EP chlorine that is ≥ 0.2 mg/L. MORs are due to DEC by 10th of the following month. Submit LT2 calendar/plan for 2020 and monitor for LT2 samples according to approved plan.	System does not meet SWTR due to lack of coagulant in their direct filtration units.
BJORKMAN	No RMW	17										3	11		3											System has not submitted MORs since April 2019.	Submit MORs and have a sanitary survey conducted in 2020.	N/A
MORRISON	YKHC	80	PLATINUM CITY WATER SYSTEM / AK2271059 (51 / C)				1	4				16			15	4	7	1	7							System is classified as GWUDI but does not filter or treat. Has been on BWN since 2014 and last sampled for TC in 2018, Nitrate in 2014, VOCs in 2012 and system has no RTCR Sample Siting Plan. System had Lead/Copper exceedances in 2005.	Sample for overdue contaminants including: Nitrate, monthly TC, VOCs, and Lead/Copper. Install filtration/treatment and submit a RTCR Sample Siting Plan.	No WTP to meet GU/SWTR requirements. On BWN.
LITTLE	No RMW	15	QUIET CIRCLE APARTMENTS / AK2224476 (90 / C)							3																Systems exceeds Arsenic MCL. System is working with an engineering firm to determine best course of action to address Arsenic MCL.	Install treatment to address the Arsenic MCL exceedance.	Treatment needed to address the Arsenic MCL exceedance.
VISSCHER	TCC	14	RUBY WATER SYSTEM / AK2360866 (215 / C)					2																		System has overdue sanitary survey deficiencies (failure to have a certified Operator, well lacks a proper sanitary seal, inactive well must be properly maintained) from 2015 and 2018 inspections.	Order and install sanitary seals on wells, fix a small hole in the casing of inactive well, and work with Operator Training and Certification Program to develop a training plan for current Operator.	N/A
VANSANDT	DEC	17	SAINT GEORGE WATER SYSTEM / AK2260074 (92 / C)							1			3		2	1										System last sampled for Nitrate in 2018, monthly TC in April 2019, and VOCs in 2012. System missed 3-year Lead/Copper monitoring from 2007-2018. No annual CCR submittals in 2018 and 2019.	Sample for overdue contaminants including: Nitrate, monthly TCs, VOCs, Lead/Copper, and submit CCR in 2020.	N/A
MORRISON	YKHC	16	SCAMMON BAY WATER SYSTEM / AK2270184 (484 / C)									11		1	1											System last sampled for HAA5 and Lead/Copper in 2017. Has not been taking the required number of EP chlorine readings per month and has not been meeting State EP chlorine requirements since August 2018.	Sample HAA5 in October 2020 and collect 5 Lead/Copper samples in 2020. Take required number of EP chlorine readings per month and meet State EP chlorine requirement (1.1 mg/L).	N/A
MORRISON	YKHC	17	SHAGELUK WATER SYSTEM / AK2280040 (60 / C)			2									4											System has sampled for DBPs in 2011. System has overdue corrective actions from Level 2 Assessment.	Sample DBPs in July 2020. Correct sanitary defects from Level 2 Assessment and submit documentation.	N/A
GILLESPIE	No RMW	15	SNOWSHOE WATER SYSTEM / AK2223315 (180 / C) TATITLEK WATER SYSTEM / AK2291130 (95 / C)							3					3											System has exceeded the Arsenic MCL for 4 consecutive quarters. Significant leak suspected but unconfirmed in 2019, so system submitted a plan for identifying potential leak, with 4/15/2020 deadline.	Reevaluate current process for addressing the Arsenic issue.	Suspected leaks in the distribution line which is causing an increase in the use of the high-Arsenic well.
BURG	DEC	15																								System still exceeding HAA5 MCL.	Reduce quarter LRAA below the MCL of 60 ug/L for HAA5.	N/A
VISSCHER	TCC	14	TETLIN UTILITY SYSTEM / AK2380638 (150 / C)					2																		System has overdue sanitary survey deficiencies (separation distance issues from the well to a lift station and wastewater line, needs screened vent cap on access hatch of water haul truck) from 2014 and 2017 inspections.	Work with DEC on a path forward to resolve the separation distance issues and order an appropriate vent cap for haul truck.	N/A
MORRISON	YKHC	13	TULUKSAK WATER SYSTEM / AK2270223 (373 / C)					1							6											System has not sampled DBPs since 2016 and does not have a certified Operator.	Collect TTHM sample in June 2020 and HAA5s in September 2020. Work with Operator Training and Certification Program to develop a training plan for current Operator.	N/A
MORRISON	No RMW	15	TUNDRA CENTER WATER SYSTEM / AK2271473 (80 / NC)							2			2													System attempted to sample for Nitrate in 2019 but had trouble getting sample to the lab within hold time/temperature range. System needs a RTCR Sample Siting Plan.	Sample for Nitrate in 2020 and complete/submit a RTCR Sample Siting Plan.	N/A
MORRISON	YKHC	29	TUNTUTULIAK WASHETERIA AND WATERING PT / AK2271211 (350 / C)					1	2		1	1			4											System had Lead AL exceedance in 2016 and an Arsenic exceedance in 2017. System missed September 2019 TC sample. System has overdue sanitary survey deficiencies from 2017 inspection.	Sample for Lead/Copper in 2020, Arsenic in 1st quarter of 2020 and sample TC monthly. Correct sanitary survey deficiencies.	System may be having problems with greensand filtration and permanganate treatment which led to increased Arsenic values.

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SHARP	No RMW	11	VALLEY WATER COMPANY / AK2310926 (1575 / C)												1												System continues to exceed the Copper AL. System working with an engineering firm to address financial and technical issues, and restore the system to a reliable and sustainable condition.	Install approved corrosion control treatment to address high Copper issue and sample for Lead/Copper annually until issue is resolved. Have a sanitary survey conducted in 2020.	System does not have corrosion control treatment. A new vertical turbine pressure pump was approved and installed in August 2019. Interim Approval To Operate was granted 1/13/2020.
BJORKMAN	No RMW	13	VOLCANO VIEW RV PARK / AK2249303 (100 / NC)						1	1						2											System last sampled for Nitrate in 2017 and has overdue sanitary survey deficiency from 2019 inspection.	Collect Nitrate and TC sample. Correct sanitary survey deficiency.	N/A
LATIMER	No RMW	14	WHALERS COVE LODGE / AK2133333 (65 / NC)			1										1	8										Onsite turbidity/chlorine residual monitoring was complete, but system did not submit MOR and has not completed plan review.	Submit MORs and 2020 RTCR Seasonal Startup Form.	N/A

## DW Program Staff Contact Information

**Mat-Su** = Office located in Wasilla, AK. Covers the Mat-Su area.

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**Northern** = Office located in Fairbanks, AK. Covers the Northern Alaska PWSs.

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**Southcentral / ANC**= Office located in Anchorage, AK. Covers Anchorage bowl, Bethel/YK Delta, Dillingham area, Aleutian Chain, Pribilof and Kodiak Island area PWSs.

**Staff:** Heather Murray (Program Coordinator) 269-7619, Elizabeth Nakanishi (EPS) 269-7517, Darryl Stepien (EPS) 269-7521, Leslie Morrison (EPS) 269-7518, Leah Van Sandt (EPS) 269-7653, Kalah Statz (EPS) 269-7647, Roy Robertson (Engineering Supervisor) 269-7631. *GENERAL ETT QUESTIONS:* Jeanine Vance (EPM) 269-2007, Rachel Westbrook (EPS) 269-7630, Kenna Billups (EPS) 269-8924

**Kenai / Southeast** = Office located in Soldotna, AK. Covers the Kenai Peninsula and Southeast area.

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**Link to DW Program Directory**

(contact information)

<http://dec.alaska.gov/eh/dw/contact/>

## Resource Links

### Best Practices (BP) Score

The Best Practices (BP) Score is criteria for assessing operations and maintenance capacity of rural water and wastewater utilities. Used for determining eligibility and prioritization for community sanitation projects.

*STATEMENT FROM BP SCORE WEBSITE:* The most effective way to increase a community's chance of receiving project funding is by improving their Best Practice score.

**Link to BP Webpage**

<https://dec.alaska.gov/water/technical-assistance-and-financing/best-practices/>

### Alaska Community Database Online

The Community Database Online is a portal for information resources about Alaskan Communities and Places of Interest in an interactive format.

**Link to Database Online Webpage**

<https://dcra-cdo-dcced.opendata.arcgis.com/>

### Alaska Community Photo Library

The Community Photo Library offers a glimpse into Alaska's communities and lifestyle by providing images of places, people, cultural events, public facilities, landscapes, and other dimensions of community life.

**Link to Photo Library Webpage**

<https://www.commerce.alaska.gov/dcra/dcrarepoext/Pages/PhotoLibrary.aspx>

### Remote Maintenance Worker (RMW) Service Area Abbreviations

BBAHC= Bristol Bay area Health Corporation

Maniilaq= Maniilaq Health Corporation

TCC= Tanana Chiefs Conference

DEC= AK Department of Environmental Conservation

NSHC= Norton Sound Health Corporation

YKHC= Yukon Kuskokwim Health Corporation

No-RMW= Not served by an RMW Program

**Link to RMW Directory**

<http://dec.alaska.gov/media/19597/rmw-directory-sfy20.pdf>

## Definitions

AL= Action Level

HAA5= Haloacetic Acids (Stage 1 Rule)

Rads= Radionuclides Rule

ANTHC= Alaska Native Tribal Health Consortium

IFE= Individual Filter Effluent

RMW= Remote Maintenance Worker

BACTI or t-Coli = Total Coliform Sample

IOC= Inorganic Chemicals

RTC= Return to compliance (fall off ETT list)

BWN= Boil Water Notice

LCR= Lead/Copper Rule

RTCR= Revised Total Coliform Rule

CCR= Consumer Confidence Report

LRAA= Locational Running Annual Average (Stage 2)

SOC= Synthetic Organic Chemicals

CFE= Combined Filter Effluent

LT1= Long Term 1 Enhanced Surface Water Treatment Rule

Surface Water (SW)= Surface Water violations Surface Water Treatment Rules (SWTR, LT1, and LT2)

DPB= Disinfection by Products

LT2= Long Term 2 Enhanced Surface Water Treatment Rule

TC= Total Coliform

DSRD= Distribution Chlorine Residual

M/R= Monitoring and Reporting (type of violation)

TOC= Total Organic Carbon

EHO= Environmental Health Officer

MCL= Maximum Contaminant Level (type of violation)

TCR= Total Coliform Rule (Also called Bacti)

EP= Entry Point

MOR= Monthly operator report

TT= Treatment Technique (violation)

EPA= Environmental Protection Agency

NOV= Notice of Violation

TTHM= Total Trihalomethanes (Stage 1 Rule)

EPRD= Entry Point Residual Distribution

OCC= Optimal corrosion control (Pb/Cu Rule)

VOC= Volatile Organic Chemicals

ETT= Enforcement Targeting Tool

PER= Preliminary Engineering Report

VSW= Village Safe Water

FANLs= Facility Analyte Level (refers to SW/Stage 1 monitoring requirements)

PN= Public Notice

WTP= Water Treatment Plant

GAC= Granular Activated Carbon

PWS= Public Water System

GWUDI= Groundwater under the direct influence of surface water

RAA= Running Annual Average