

REMOTE MAINTENANCE WORKER PROGRAM ANNUAL REPORT

State Fiscal Year 2019



*Erik Somers, BBAHC RMW, assists Manokotak operators
Rueben Andrew and Howard Ayojiak install a new well pump.*

**Prepared by the Alaska Department of Environmental Conservation
Division of Water
Technical Assistance & Financing Program**



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DEC RMW Karl Thomas, DEC Drinking Water staff, ANTHC project managers, and participate in a sanitary survey in Old Harbor, with operator Russell Fox.

Executive Summary

- ☞ The Remote Maintenance Worker Program provides technical assistance and training to operators of rural water and wastewater systems in nearly 200 Alaskan communities.
- ☞ Ten RMWs are employed by regional health corporations and funded through grants administered by the Alaska Department of Environmental Conservation's (ADEC) Technical Assistance and Financing Program. ADEC employs three additional RMWs and an RMW Program Coordinator.
- ☞ In SFY19, the RMW program was funded by two 25/75 state/federal matching grants; the Environmental Protection Agency contributed \$2,061,847 and the US Department of Agriculture, Rural Development, provided \$320,000. The State of Alaska contributed \$793,949 in matching funds, for a total of \$3.18 million.
- ☞ In SFY19, the RMW program cost an average of \$16,565 per primary community served.
- ☞ In SFY19, fourteen RMWs accomplished the following:
 - ☞ Provided nearly 2,500 hours of hands on training and technical assistance to 131 communities;
 - ☞ Completed 291 routine village trips to 125 communities;
 - ☞ Completed 52 emergency trips;
 - ☞ Fielded nearly 4,400 phone calls from communities requesting assistance.
- ☞ Eighty-three RMW supported communities had properly certified operators at the close of FY 18, while 34 villages had backup operators certified at the correct level.
- ☞ No community served by the RMW program experienced catastrophic failure of their water or wastewater system.



BBAHC RMW, Erik Somers, assists Chignik Lagoon backup operator, Sean Carr, install a well pump.

THE REMOTE MAINTENANCE WORKER PROGRAM

The Remote Maintenance Worker (RMW) Program was initiated in 1981 to provide onsite training and technical assistance to operators of water and wastewater utilities in rural Alaskan communities. State and federal agencies had been expending considerable funds to design and construct safe sanitation facilities in rural Alaska, only to have systems fall into disrepair or fail due to lack of local technical skills, preventative maintenance and proper operations. By providing communities a knowledgeable resource, available to provide training and assistance at the local level, the RMW Program aimed to build local operational capacity and avert catastrophic failure of utility systems.

The State of Alaska, Environmental Protection Agency (EPA), US Department of Agriculture - Rural Development (USDA-RD) and the Indian Health Service (IHS) have invested over two billion dollars in rural Alaskan villages to provide safe drinking water and sanitary sewage disposal. In the thirty-eight years since its inception, the RMW Program has worked diligently to protect this investment. Today, the program includes 14 RMWs serving nearly 200 communities throughout the State. Five regional health corporations provide RMW service through grants administered by the State and three additional RMWs are employed directly by the Alaska Department of Environmental Conservation (ADEC).

The Mission of the RMW Program is: *To develop the capacity of rural Alaskans to operate and maintain their local sanitation facilities in a manner that protects the health of rural residents and the village environment, while safeguarding State, federal, and the community's investments in water and sewer infrastructure.*

In support of this mission, RMWs offer relevant on-the-job and classroom training; provide routine on-site preventive maintenance assistance to local operators to ensure that sanitation facilities and system components do not fail prematurely; and respond to water and sewer emergencies to maintain service and prevent catastrophic infrastructure failures. Further, RMWs promote the importance of the utility operator's role in protecting public health, in an effort to elevate the status of the position as one deserving merit within the community. In coordination with the Rural Utility Business Advisor Program (RUBA), housed in the Alaska Department of Commerce, Community, and Economic Development (DCCED), RMWs strive to bring operators, administrators and community leaders together to address the overall capacity of the utilities, including technical, managerial and financial aspects.

Among the many accomplishments of the RMW Program are improved record keeping by utility operators; reduced level of non-compliance with State and Federal Drinking Water Regulations; increased level of operator certification; and an overall increase in capacity for communities to address the needs of their utilities, both on a daily basis and in emergency situations.

FISCAL YEAR 2019 ACCOMPLISHMENTS

The RMW Program is funded by grants from the EPA and USDA-RD, each of which require a 25% State match. As a whole, the program received \$3.18 million in State Fiscal Year 2019 (SFY19); \$2,061,847 in EPA funds, \$320,000 in USDA-RD funds and \$793,949 in State matching funds.

A total of \$2,073,740 in RMW grants were awarded to the following non-profit health corporations: Bristol Bay Area Health Corporation (BBAHC), Maniilaq Association (MA), Norton Sound Health Corporation (NSHC), Tanana Chiefs Conference (TCC), and the Yukon Kuskokwim Health Corporation (YKHC). Additionally, the State continued to provide RMW service to the Aleutian, Pribilof and Kodiak Islands, Kenai Peninsula area, Southcentral, and Southeast Alaska.

A historical perspective of RMW grant funding is presented in Appendix A. On a state-wide basis, the average annual cost of the RMW Program per primary community served in SFY19 was approximately \$16,565.

SFY19 Technical Assistance Outputs

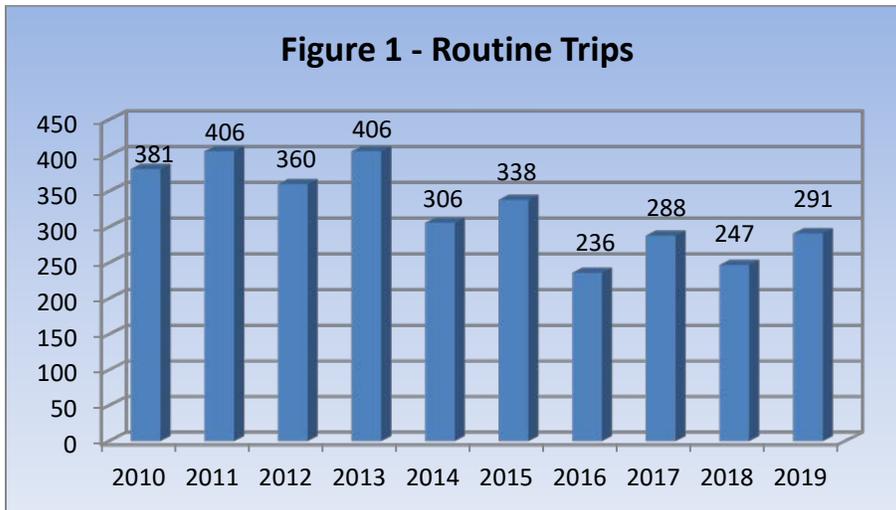
RMW sub-grants require RMWs to provide a basic level of service that emphasizes routine training trips, preventive maintenance, emergency response, and other capacity building technical assistance activities. Grant requirements aimed at building local capacity include developing, revising and implementing preventive maintenance plans; providing classroom instruction to village operators that will prepare them for certification exams; providing hands-on, on-the-job training; and participating in community level meetings that target overall utility management capacity improvements.

The following measurable outputs related to onsite and technical assistance were completed in SFY19:

Routine Trips

Within each region, RMWs are assigned to provide support to specific communities. The majority of communities served are considered “primary,” meaning that they receive regular and routine RMW assistance. Additionally, each region has a small number of “advisory” communities to which they provide support. Advisory communities are generally those that do not have community water or wastewater systems, utilize individual drinking water wells and on-site wastewater systems, and/or have very few residents. Other advisory communities may have the capacity to successfully operate their utilities without regular RMW assistance. RMWs are expected to visit each of their assigned primary communities based on the needs of the community to allow flexibility for the RMWs to make trips to communities where their services are most needed. Unexpected emergencies, weather delays and scheduling conflicts are all common obstacles to completing routine trips.

In SFY19, the RMW Program expected to make between 350 and 400 routine trips. In total, the RMWs made 291 routine trips in SFY19. The reduced number of trips is attributable, in some part, to vacancies in several regions.



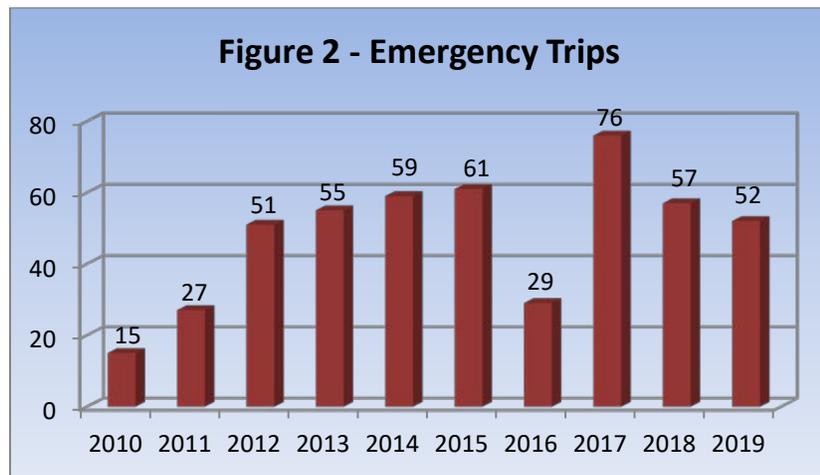
SFY19 Routine Trips

Projected: 350-400
Achieved: 291
10 Year Average: 326

Emergency Trips

Emergency trips are made to address situations which would otherwise result in failure of some or all of a village system. By focusing on proper operations and maintenance, RMWs strive to reduce the need for emergency trips. However, turnover of both operators and system managers, as well as high operational costs coupled with a lack of local economy, often hinder the best RMW efforts. Further, natural conditions are often the nexus of emergencies; common circumstances which warrant RMW emergency trips are spring flooding and winter freeze ups.

It is difficult to project the number of emergency trips that will be required during any given year; however, the ten year average between FY 10 and SFY19 is 48 per year. During SFY19, RMWs made 52 emergency trips.



FY 19 Emergency Trips

Projected: <30
Necessary: 52
10 Year Average: 48

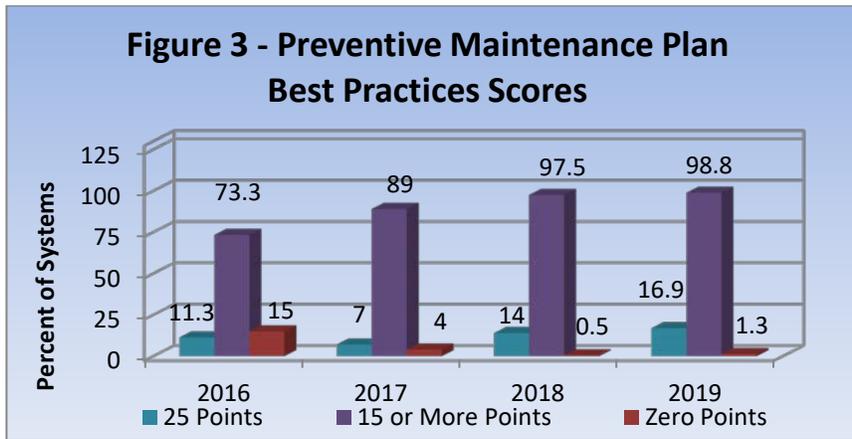
Preventive Maintenance Plans

Preventive maintenance (PM) plans are critical tools for ensuring proper maintenance of water and wastewater systems, which in turn protects public health, improves system reliability, and prolongs the lifespan of aging systems. Additionally, plans serve as an important management tool for community administrators when determining staffing requirements, as well as actual operation and maintenance costs. Historically, RMWs have

assisted operators in developing and revising PM plans, particularly following system modifications.

With the implementation of the Operations and Maintenance Best Practices, RMWs have been tasked with assisting communities in ensuring that they have an adequate and appropriate PM plan, as well as confirming that the required PM is accomplished. Communities that have a written PM plan, perform PM on schedule, and submit completed records to the RMW quarterly for verification receive 25 points. Utilities that have a written PM plan, but PM performance and record keeping are not consistent receive 15 points. Utilities that either have no PM plan, or do not perform PM receive no points.

Ninety-five percent of RMW supported communities were expected to achieve PM scores of at least 15, and with 10% achieving scores of 25. At the end of SFY19, 158 of 160 communities (98.8%) scored 15 PM points or more, 27 (16.9%) scored 25 points, and 2 (1.3%) communities received zero points.



SFY19 PM Plans

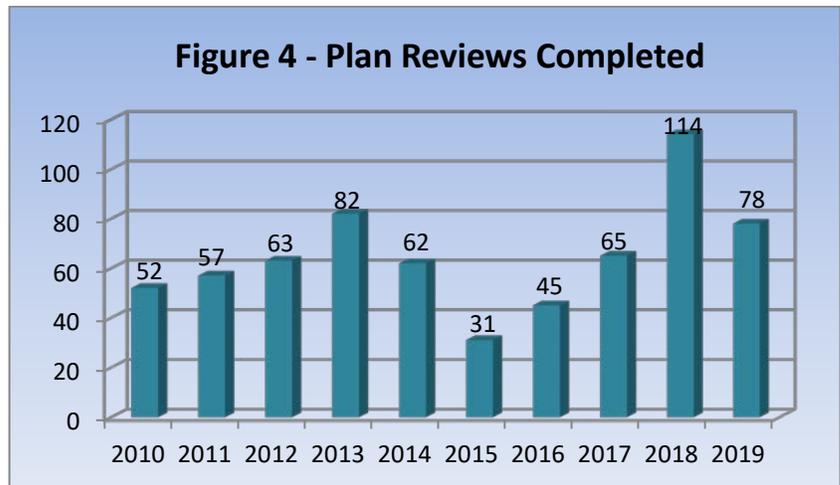
Projected: 90% score of 15+
 Achieved: 98.8% scored 15+

Projected: 10% score 25
 Achieved: 16.9% scored 25

Plan Review

RMWs offer a unique perspective to the plan review process for utility system construction projects, combining their understanding of the communities and their hands-on experience with water and wastewater treatment in rural Alaska. Whenever possible, RMWs participate in plan reviews, primarily providing comments from the operations and maintenance perspective.

The RMW Program anticipated participating in 15 plan reviews in SFY19, but completed 78.



SFY19 Plan Reviews

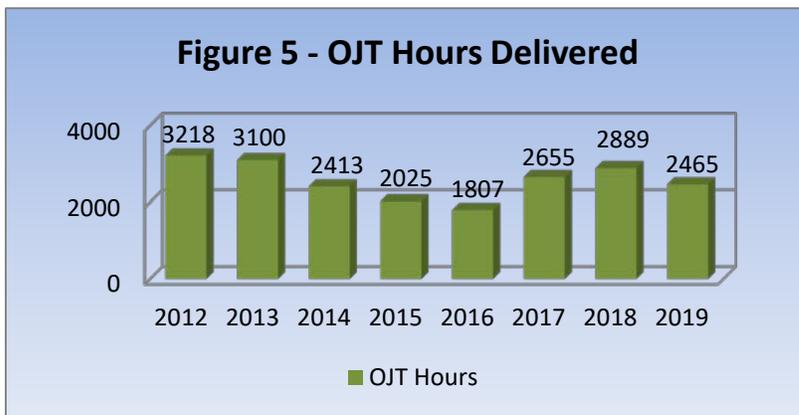
Projected: 15
 Achieved: 78
 10 Year Average: 65

SFY19 Operator Training and Certification Outputs

Grantees are obligated to work directly with local operators and utility managers to address operator certification requirements. The following are measurable outputs completed by the RMWs during SFY19 related to operator training and certification:

On-the-Job Training (OJT)

During both routine and emergency visits, RMWs work directly with operators to impart knowledge necessary for proper operation and maintenance of their utilities. This one-on-one guidance within the context of the operator’s own plant is one of the most valuable aspects of the RMW Program. During SFY19, the RMW Program projected delivering 1,200 hours of OJT to operators. The RMWs greatly exceeded this projection by administering a total of 2,465 hours of OJT in SFY19.



SFY19 OJT Hours

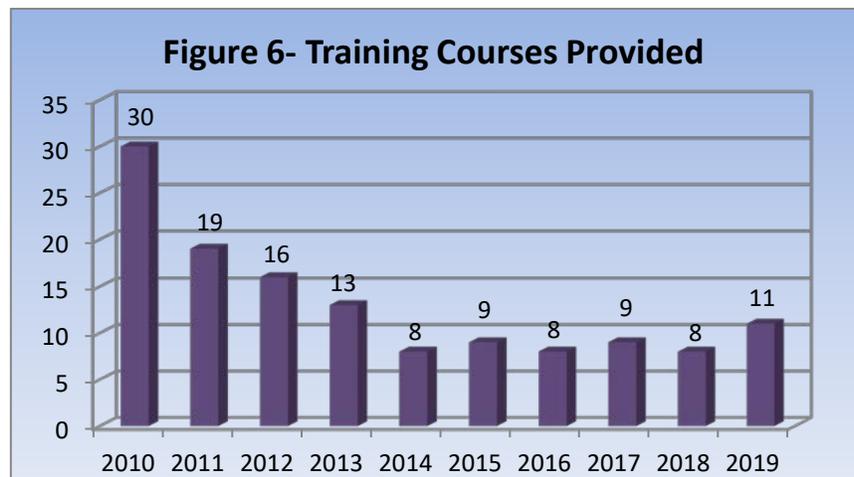
Projected: 1,200
 Achieved: 2,465
 8 Year Average: 2,572

Training Courses

RMWs are required to coordinate and deliver entry level training courses within their region to help operators prepare for taking certification exams. During SFY19, RMWs anticipated providing 10 training courses, but offered 11 courses. Several Introduction to Small Water Systems trainings were held, as well as training on the following topics: Water Treatment, Water Distribution, Wastewater Lagoons, Boiler Maintenance, Electrical Controls, Advanced Electrical Controls, and OSHA Safety.

SFY19 Trainings

Projected: 10
 Achieved: 11
 10 Year Average: 13.1



SFY19 Baseline and Program Outcomes

Building upon the baseline data established at the end of FY 18 (see Appendix B), the SFY19 RMW Grant Work Plan defined anticipated outcomes for the year. End-of-year data for SFY19 was summarized (see Appendix C) and the following is a comparison between the projected and the end-of-year outcomes.

System Failures

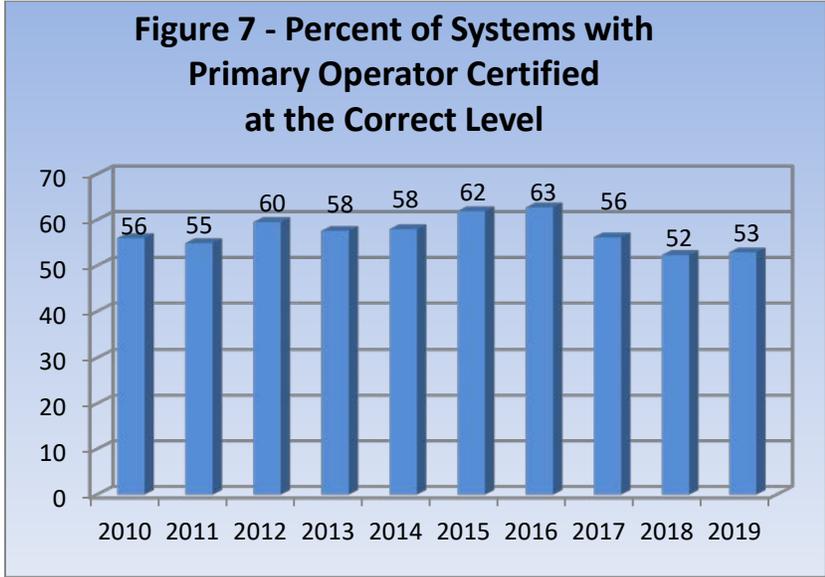
The RMW Program anticipated no catastrophic system failures in the RMW-supported villages as a result of operations and maintenance (O&M) deficiencies. At the completion of SFY19, no such failures occurred. This is largely as a result of preventive maintenance training of operators by RMWs, constant communication between the RMWs and operators, and timely response by RMWs when assistance is requested.



Matt Bradbury, DEC RMW, and Hydaburg operator Donald Bell clean and calibrate a turbidimeter.

Operator Certification

The RMW Program aimed to ensure that a minimum of 60% of RMW supported communities have a primary operator certified at the required water treatment level. At the end of the year, 52.9% of the communities had properly certified primary operators. Eighty-one village systems have operators certified at the correct level of their plant as of the end of SFY19; an additional 30 systems have primary operators certified at some level.



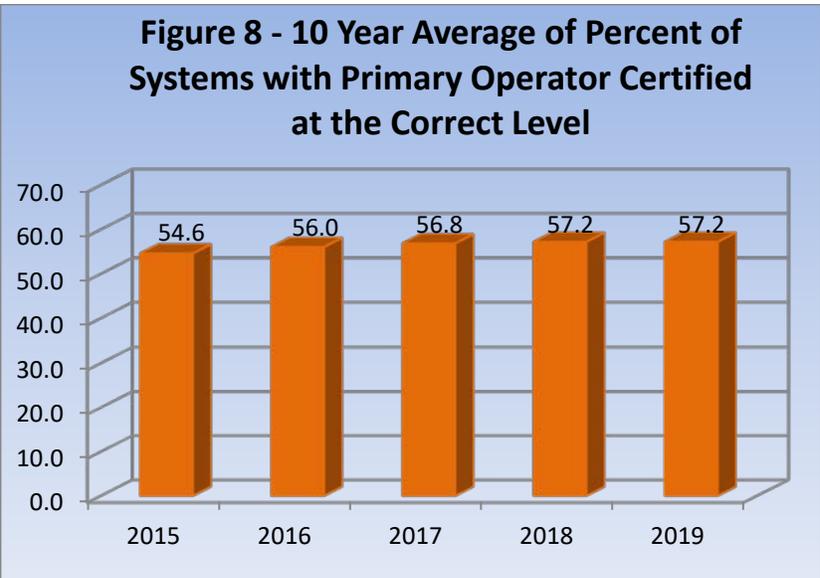
SFY19 Primary Operator Certification

Baseline: 52.3% (80 of 153)
End-of-year Target: 60%
Outcome: 52.9% (81 of 153)

A new intended outcome of the RMW Program beginning in SFY19 is for the 10 year average of the percent of RMW-supported communities with a primary operator certified at the required water treatment level to increase each year.

SFY19 10 Year Average of Primary Operator Certification

Baseline: 57.2%
End-of-year Target: > 57.2%
Outcome: 57.2%

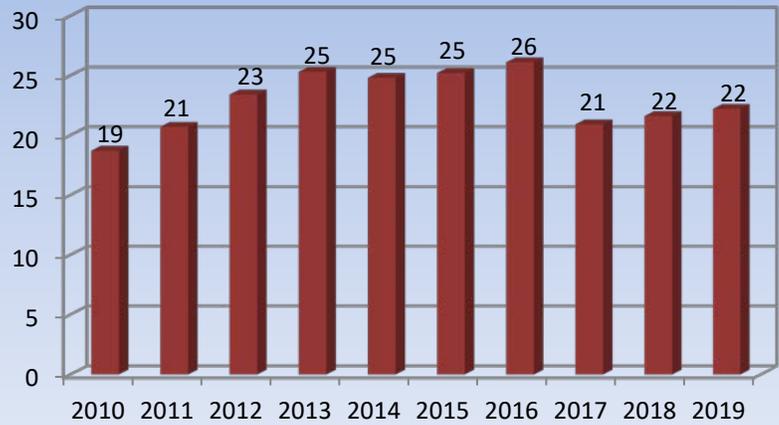


The RMW Program also aimed to increase the number of RMW-served communities with a backup operator certified at the required water treatment level by 3% in FY 19. At the end of the year, the outcome was an increase of 0.6%; 34 systems had backup operators certified at the correct level of the plant and another 37 systems had backup operators certified at some level.

SFY19 Backup Operator Certification

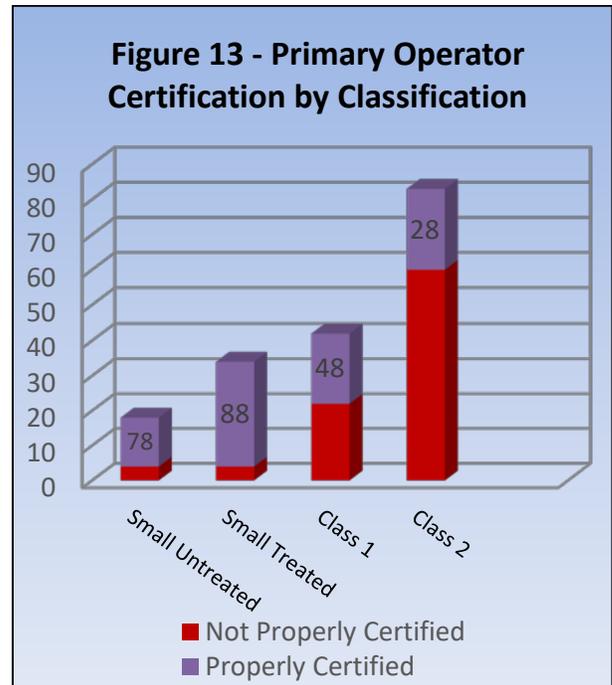
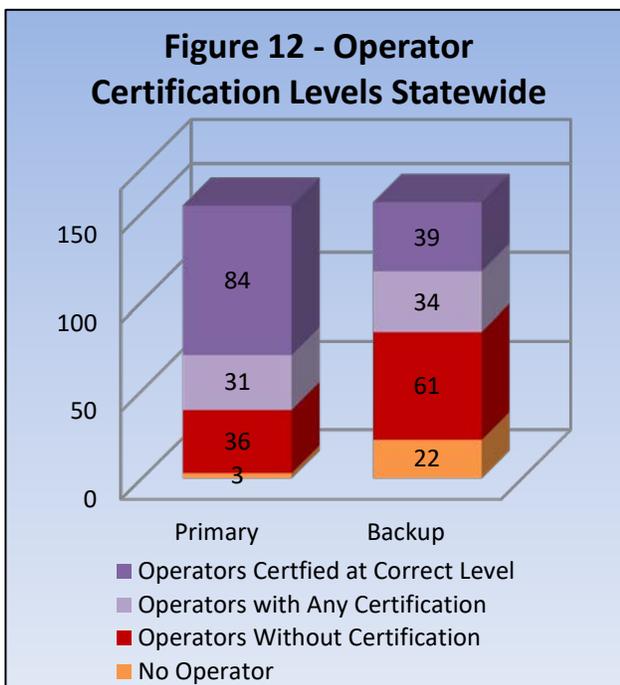
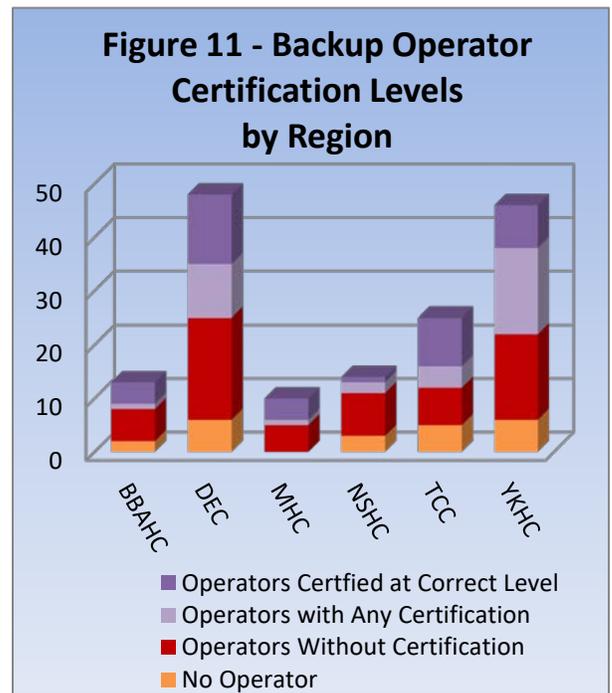
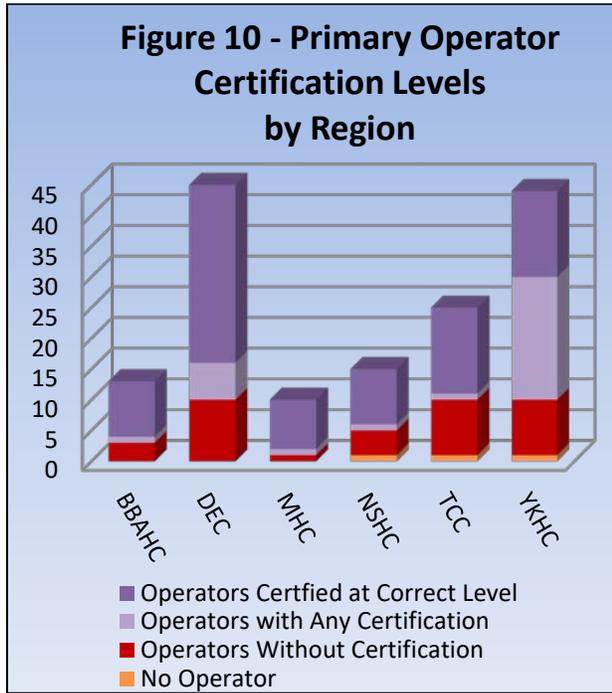
*Baseline: 21.6% (33 of 153)
End-of-year Target: 24.6%
Outcome: 22.2% (34 of 153)*

Figure 9 - Percent of Systems with Backup Operator Certified at the Correct Level

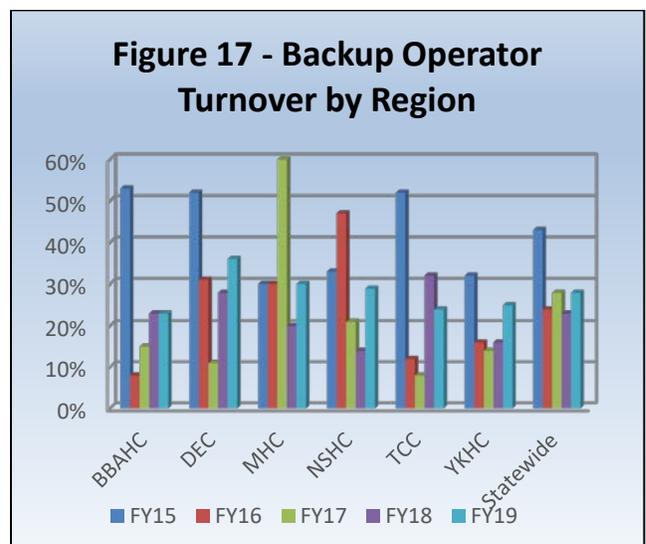
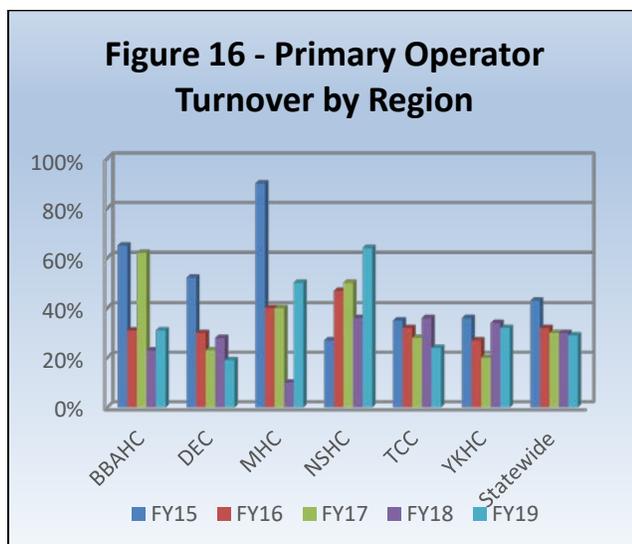
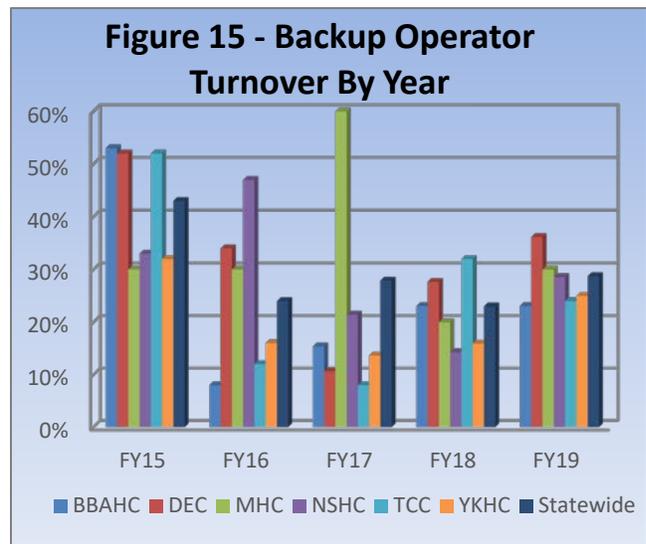
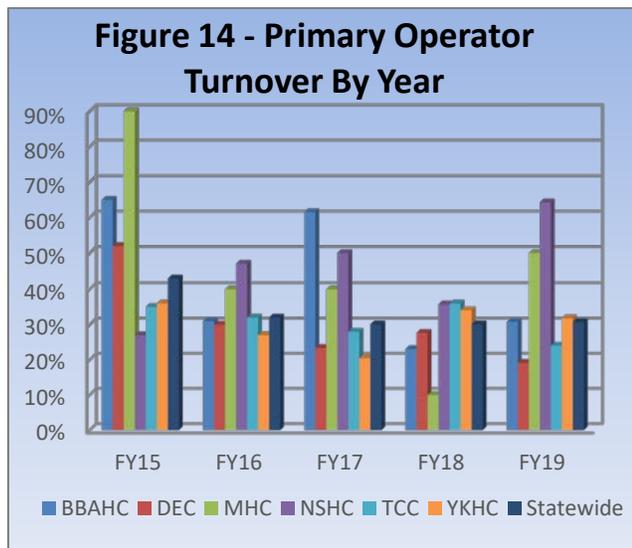


YKHC RMW, Bob White, teaches an electrical controls course in Bethel.

Operator certification requirements are directly related to the complexity of the water system. Many rural Alaskan communities rely on water sources that require complex treatment and, therefore, an operator with a high level of certification. More than half of the communities served by the RMW Program have water treatment systems that require an operator at a Level 1 or higher. In addition to successfully completing the required certification exams, operators must have some amount of post-secondary education in order to attain these certification levels. *Figure 13* demonstrates that as system classification increases, so does non-compliance with operator certification requirements.



Operator turnover has been, and continues to be, a significant obstacle in the effort to increase operational capacity of rural utilities. During SFY19, 31% of RMW communities experienced at least one change in primary operators; 28% also experienced a change in backup operators. In many cases, these communities had several instances of turnover in both the primary and backup operator positions. Turnover varied from region to region, with some experiencing as much as a 64% turnover in primary operators and 36% turnover among backup operators. Statewide, communities experiencing turnover of primary operators increased from 30% to 31% in SFY19; turnover of backup operators increased from 23% to 29%.

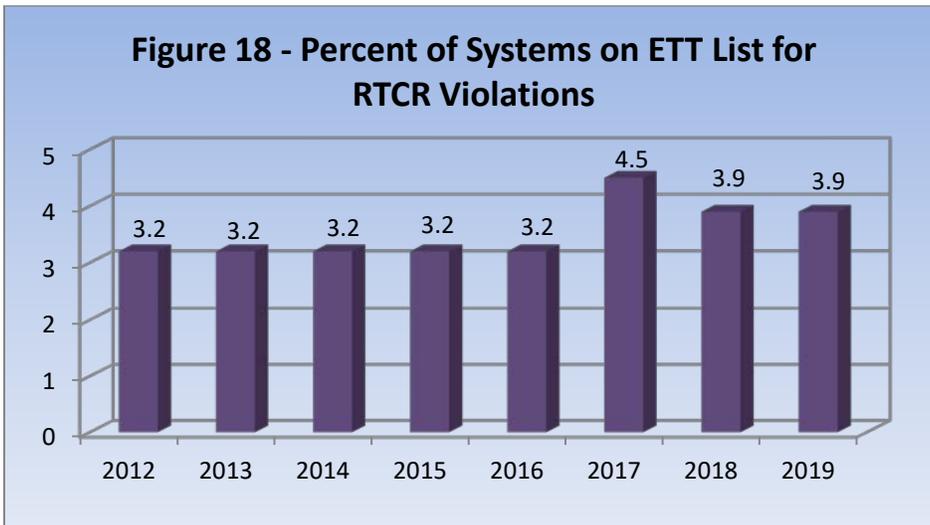


For certificates that expired on December 31, 2018, four primary drinking water operators and two backup operators from RMW-supported communities lost their certification due to a lack of required Continuing Education Units (CEUs); two other primary operators and two backup operators obtained the required CEUs, but have not pay the renewal fees. In these cases, both the RMWs and the Operator Certification and Training (OpCert) Program had been in contact with the operators to encourage them to take appropriate measures for retaining certification. Other factors that impact operator certification may be beyond the control of the RMW program.

Compliance

Remote Maintenance Workers spend considerable time working directly with operators to ensure that they possess the knowledge and skills required to safely operate and maintain their systems. In addition, RMWs dedicate significant time and effort to assisting water system personnel, from operators to administrators, in meeting regulatory monitoring and reporting requirements.

The RMW Program projected that less than one percent (1%) of RMW-served villages would be on the Enforcement Targeting Tool (ETT) list for violation of the Revised Total Coliform Rule (RTCR) at the end of SFY19. At the close of the year Hydaburg, Nelson Lagoon, Nunam Iqua, Platinum, Shageluk and Tuntutuliak were on the ETT List for failure to monitor and report as required by the RTCR. This represents 3.9% of RMW served communities. It is likely that implementation of the RTCR, with slightly modified requirements from the TCR, has contributed this slight increase in violations.



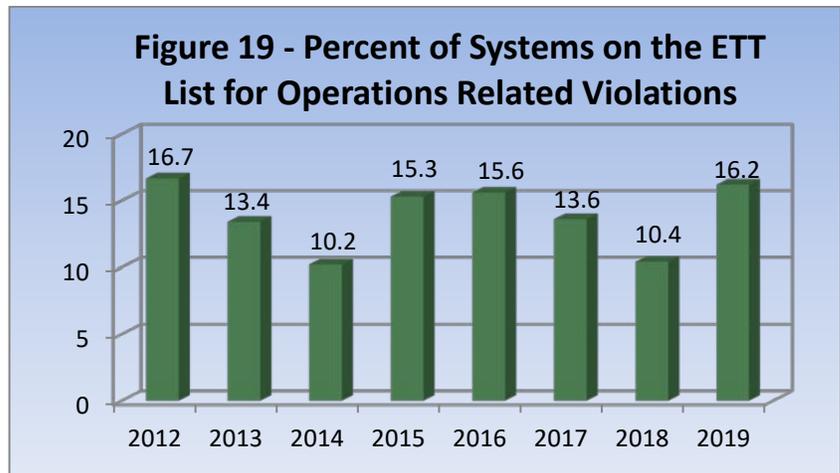
SFY19 TCR ETTs

Baseline: 3.9% (6 of 154)
 End-of-year Target: < 1%
 Outcome: 3.9% (5 of 154)

The RMW Program projected that less than ten percent (10%) of RMW-supported villages would be on the ETT list for any operation-related violations not related to the RTCR. Twenty-four systems, or 16.2% of RMW-supported systems, were on the ETT List for violations including failure to conduct quarterly or annual chemical monitoring, maintain adequate chlorine residual, or report daily chlorine and turbidity monitoring results.

SFY19 Operation-Related ETTs

Baseline: 10.4% (16 of 154)
 End-of-year Target: < 10%
 Outcome: 16.2% (25 of 154)



There are many factors that affect a community's capacity to deliver water and wastewater services in rural Alaska which are beyond the control of the RMW program. These factors often create situations that make progress difficult to quantify. Oftentimes, maintaining the ground that has been gained since program inception or from one year to the next is considered a success. Turnover of community leaders and operators, poor economic health of rural communities, competing forms of village government, and local institutional deficiencies, along with cultural and socioeconomic factors, can be formidable roadblocks to progress. Other factors that directly impact the success of the systems and the RMW Program are the technical capacity deficit of operators faced with the increasing complexity of systems in response to new regulatory requirements, as well as increasing energy costs further diminishing the amount of local funds available for operations and maintenance.

The RMW Program has established goals that are realistic, yet challenging, to meet. While not all of the targets were met in SFY19, improvements were made in most areas and no significant deterioration in previous progress occurred. In light of the dynamic nature of the work, these results should be considered successful.



RMW Steve Evavold and operator Michael Swinney check the polymer pump in Atka.



RUBA Joe Samaniego, RMW Steve Evavold, and water operator, Michael Swinney inspect the filter media during a joint RMW/RUBA visit to Atka.

FISCAL YEAR 2019 PROGRAM HIGHLIGHTS

The RMW Program is dynamic by nature, but SFY19 saw many significant staffing changes.

Tanana Chiefs Conference (TCC) RMW Supervisor Brian Bearden resigned in October 2018 and the position remains vacant despite recruitment efforts. Long time TCC Environmental Health Officer, Kyle Wright, has taken on the duties of RMW Supervisor position, in addition to his regular duties, during the vacancy. During SFY19, Kyle was faced with the departure of two RMWs; Fred Kameroff departed at the end of the first quarter and George Yatlin resigned soon thereafter. The last remaining RMW, Lee Meckel, managed to provide service to all TCC supported communities until February, when Kurt Cook was hired. Kurt holds a Level 4 Wastewater certification. In May, Brian Roesing, a journeyman plumber, was hired to fill the remaining vacancy.

BBAHC also experienced significant staffing changes in SFY19. Rex Spofford accepted the RMW Supervisor position in August 2018 after a six month vacancy. In March 2019, Erik Somers left his role as the sole RMW in the region. Luckily, Kenny Parker filled the vacancy almost immediately.

Additionally, in August 2018, Norton Sound Health Corporation (NSHC) RMW, Jacob Soolook, left his position, which remained vacant until April 2019 when Luke Smith assumed the role. DEC RMW, Karl Thomas also vacated his position in January 2019; Theo Graber was hired into this position in May.

Other significant changes to the management of the RMW Program occurred in April. Bill Griffith retired from his position providing oversight of the DEC Facilities Programs. After eight years managing the RMW Program, Carrie Bohan assumed Bill's position as Facilities Programs Manager. Recruitment for the vacant RMW Program manager was ongoing at the end of the fiscal year.

In May 2019, all of the RMW Supervisors met in Anchorage for two days while the RMWs attended electrical controls training provided by the YKHC RMWs. The agenda for the supervisor meeting is located in Appendix E.

As always, each of the regions responded to unique and challenging situations in SFY19. The following are just a few examples of RMW successes during the past fiscal year.

Bristol Bay Area Health Corporation

Despite significant staff turnover, the BBAHC RMW Program remained consistent in the delivery of both emergent and routine services throughout the year. RMW Erik Somers did an excellent job in the continued handling of day to day services required during the RMW Supervisor position vacancy period while Division Director Brian Reed address managerial duties. New RMW Kenny Parker, with less than a handful of days of overlap with Erik before his departure picked up the reigns and continued to deliver service BBAHC.

In short, it is clear the greatest success for BBAHC during SF19 was the uninterrupted delivery of quality RMW services. This is a tribute to both former and current RMW staff who continue to work tirelessly to provide the best service possible given the resources available.

In May 2019, BBAHC and DEC teamed up to provide leak detection assistance to Chignik Lagoon. Not only did this provide a much needed service to the community, but it was an

opportunity for a veteran RMW to train two new RMWs, Kenny Parker of BBAHC and Matt Bradbury of DEC, on the proper use of various leak detection equipment, including the correlator. This type of inter-regional efforts build comradery between the RMWs and expose them to communities and learning opportunities that would not otherwise exist.

Department of Environmental Conservation

In August 2018, DEC RMW Steve Evavold traveled to Atka along with RUBA specialist Joe Samaniego, RUBA Supervisor Tammy Helms, and ANTHC Environmental Health Specialist Brian Berube. Simply arriving in Atka was a success, as Steve's previous three attempts were thwarted due to weather. The primary purpose of Steve's visit was to provide hands on training to the new Water Operator, Michael Swinney. Steve worked with Michael over several days to calibrate the turbidimeters, check chlorine readings, and review the site sampling plan. They also drained down the filters to check the condition of the filter media and clear the screens of any accumulated debris. Meanwhile, RUBA staff worked with the City's new financial advisor and city clerk. As a group, they met with city officials regarding Best Practices scoring. In addition, both Steve and Brian gathered photos to document the deterioration of the intake gallery dam, which can be used to support a funding request for improvements.

Maniilaq Association

The Maniilaq RMW Program put a strong emphasis on Preventative Maintenance (PM) reporting in SFY19. Each month, PM check sheets were mailed to the communities and reporting improved drastically. Further, the region saw improved attention to summer projects to prepare the systems for winter as a result of this simple effort. As a result, communities experienced few issue over the winter and were able to address those issues before they become true emergencies.



Shyler Johnson, MHC RMW, and Shungnak operator, Gilbert Snell, repair a boiler fuel line.



Attendees of the Small Treated Water Systems training course in Nome, July 2018.

Norton Sounds Health Corporation

The Gambell drinking water system was very close to complete failure during December 2018. RMW Art Amaktoolik responded to the call from their operator, requesting assistance to troubleshoot low water flow from the source. Upon Art's arrival in Gambell, he quickly realized they were running out of water and that all three water storage tanks were already in the process of freezing-up. Art immediately worked to restore the add-heat system for the water storage tanks, notified the City office regarding their water tank levels, and got to work figuring out what was causing the reduced flow rate. After troubleshooting, Art was able to increase well production to a sufficient flow rate. While on-site, Art provided significant O&M training to the operators in an effort avoid this type of situation in the future.

Because of Art's quick response and thorough work, he was able to save the Gambell system from catastrophic failure.



NSHC RMW, Art Amaktoolik, reviews the Stebbins' Washetria Preventative Maintenance Plan with the operators and ANTHC Utility Support Engineer Chris Cronick.

Tanana Chiefs Conference

In January 2019, TCC received a call that the well in Allakaket was not producing water and the community was out of potable water. RMW Lee Meckel responded and, after troubleshooting, found that the drop pipe was no longer connected to the pitless adapter in the well, so water could not be pumped from the well to the water plant. After several days of work in very cold and snowy conditions with significant coordination with local leadership in the village and Fairbanks to get parts paid for, he was able to get the well producing water again and potable water supplied to the village.

The Minto water distribution system had been running on one of three pressure pumps for some time. Not long after starting work with TCC, Kurt Cook made several trips to Minto to assist with installing a second pump. With only one pump running, the system subject to freezing and/or contamination should that pump fail. Kurt determined replacement part numbers and ordered the new pump motor for the village. Then, along with the local operator, wired the new pump motor in so that there are now two functional pressure pumps and the system has a safety margin in case one pump goes down.

In June, Hughes requested assistance repairing a leak in the water plant and an RMW to look at some problems with the boilers. Mr. Roesing traveled out on his first solo village trip as an RMW. The local operator had created a funnel and trough system to collect water from the leak and run it to a floor drain, which minimized damage to the plant from flooding. Mr. Roesing utilized his plumbing skills to repair the leak, then spent time training the operator on boilers, pipe sweating, and other tasks.



Lee Meckel, TCC RMW, take a picture through the filter viewing port after helping the Ruby water operator clean the greensand filter.

Yukon Kuskokwim Health Corporation

In November, RMW Westlock received a call from the Alakanuk water plant operator requesting assistance with raw water line at the river. There was only two feet of water remaining in the storage tank. Upon arrival, RMW Westlock determined the line was frozen because there was not enough pressure in the glycol heat line. They boosted the pressure and thawed 50 feet of frozen water lines with blow dryers. With the line thawed they began making water again. The pressurized glycol line prevented the line from freezing again.

The community of Tuluksak saved up and purchased a new underdrain for the washeteria/water treatment plant. YKHC Office of Environmental Health and Engineering staff helped the community drain the old filter, install the new under drain, and replace the filter media. This had was an expensive part that had been causing issues with water quality. For the first time in several years, no complaints were received from the school about water quality in this community.

The Emmonak water plant called RMW Westlock requesting assistance with a water main break. RMW Westlock showed them how to make a temporary repair to return service to the east loop while they waited for parts. When new parts arrived, RMW Westlock showed the operators how to make a permanent repair with the electro fusion machine.



Billy Westlock, YKHC RMW, assistance in repairing a water line break in Emmonak.

A LOOK FORWARD AT FISCAL YEAR 2019

Moving into SFY20, the RMW Program faces a change in management. Tammy Helms assumed the Program Manager role in September 2019. Tammy has experience as a water operator and clerk in a rural community, as well as 14 years' experience as a Local Government Specialist with the RUBA Program. Tammy will bring a new perspective to the RMW Program, along with well-established relationships with those in the program and partnering agencies, as well as a depth of knowledge about the communities the program supports and the needs of rural Alaskan water and wastewater systems.

The RMW Program continues to look for new methods for assisting communities in building capacity, as is reflected in improved Best Practices scores. All regions have increased coordination with RUBA to target communities with low Best Practices scores, so that those communities may become eligible for capital improvement project funding. Regionally driven efforts focused on Best Practices scores and financial and managerial capacity building developed in previous year in several regions are expected to gain further momentum in the coming year.

As always, the RMW Program will strive to implement program improvements to increase efficiency and effectiveness, as well as continue to improve partnering relationships with other organizations that also serve rural Alaskan communities, including VSW, RUBA, and ANTHC. As an example, beginning in SYF20, RMWs will be required to submit a brief Pre-Trip Report for all non-emergency trips. These reports identify the community's current compliance with both drinking water and wastewater requirements, outstanding issues identified by the most recent sanitary survey, and the Best Practices Score. The reports are distributed to the other agencies and programs in an effort to encourage communication about the upcoming trip and to ensure that the RMWs are aware of the various items and issues that they may be able to assist in addressing.



YKHC RMW, Allan Paulkan, assists with cleaning a water storage tank in Tuntatuliak.

Appendix A

RMW Grant Funding History

RMW GRANT FUNDING HISTORY**(X \$1,000)**

Fiscal Year	APIA	BBHAC	MHC	NSHC	SEARHC	TCC	YKHC	TOTAL
FY 82	--	--	--	--	--	--	150.0	150.0
FY 84	--	100.0	--	186.0	--	--	100.0	386.0
FY 85	--	100.0	--	182.0	--	180.1	100.0	562.1
FY 86	--	70.0	--	186.0	--	150.0	100.0	506.0
FY 87	--	78.36	--	126.2	--	128.9	47.7	381.2
FY 88	--	72.0	72.0	72.0	72.0	144.0	72.0	504.0
FY 89	--	100.0	77.0	78.0	72.0	186.0	72.0	585.0
FY 90	--	88.7	70.2	72.9	70.0	162.0	74.0	537.8
FY 91	--	88.7	70.2	72.9	70.0	162.0	134.2	598.0
FY 92	--	111.2	92.7	95.4	92.5	207.0	200.4	799.2
FY 93	--	109.2	91.0	93.7	90.8	203.3	196.8	784.8
FY 94	--	109.2	91.0	93.7	91.45	203.3	296.15	884.8
FY 95	--	102.7	85.5	88.1	86.0	191.1	278.4	831.8
FY 96	--	102.7	95.5	88.1	86.0	191.1	278.4	841.8
FY 97	--	102.6	95.6	88.2	85.9	191.1	278.4	841.8
FY 98	--	178.5	96.9	99.5	86.1	292.8	369.5	1,123.3
FY 99	--	178.5	96.9	99.5	86.1	292.8	369.5	1,123.3
FY 00	--	178.5	91.9	104.5	91.1	292.8	359.5	1,118.3
FY 01	--	178.5	86.9	104.5	91.1	297.8	364.5	1,123.3
FY 02	128.6	225.1	105.4	118.5	89.9	370.9	454.8	1,493.0
FY 03	136.4	238.9	96.6	135.0	97.8	370.9	453.9	1,529.5
FY 04	136.4	238.9	96.6	135.0	98.9	370.9	453.9	1,530.6
FY 05	138.9	218.6	96.6	137.7	99.8	377.4	461.1	1,530.0
FY 06	144.9	218.6	101.6	137.7	99.8	377.4	450.1	1,530.0
FY 07	154.2	229.9	106.3	146.7	105.7	401.7	485.2	1,629.7
FY 08	171.2	229.9	106.3	169.9	115.9	426.0	480.2	1,699.4
FY 09	174.3	229.9	114.8	177.2	119.8	446.0	509.0	1,771.0
FY 10	182.8	234.0	120.6	183.0	125.8	430.0	516.8	1,793.0
FY 11	204.3	257.2	137.5	209.0	143.4	436.0	455.0	1,842.4
FY 12	205.7	288.4	122.7	200.2	149.9	426.9	539.2	1,933.0
FY 13	201.7	281.4	134.8	179.5	176.2	427.5	547.2	1,948.3
FY 14	164.0	275.8	146.8	186.8	139.5	425.9	604.2	1,943.0
FY 15	--	288.3	152.4	192.9	139.8	454.1	627.1	1,854.6
FY 16	--	204.1	162.1	99.9	12.6	555.6	706.5	1,740.8
FY 17	--	115.7	187.6	249.2	--	578.7	794.8	1,926.0
FY 18	--	187.2	162.7	200.0	--	572.4	764.3	1,886.6
FY 19	--	252.7	166.5	285.2	--	543.8	825.6	2,073.8

Appendix B

FY 18 End of Year Summary

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FY 19 Baseline Data

**RMW Program
FY 18 End of Year Outcomes and FY 19 Baseline Data**

RMW Service Area	Total # of Villages Supported	# of Advisory Communities	# of Systems Subject to ETT Listing	# of Systems Required to Have Certified Ops	Primary Operator Certified at Correct Level	Backup Operator Certified at Correct Level	Primary Operator Turnover	Backup Operator Turnover	PM Score 25	PM Score 15	PM Score 0	Villages on ETT List for RTCR	Villages on ETT List for Ops-Related Vios
BBAHC	21	9	13	13	9	4	3	3	0	11	1	1	3
DEC	54	11	48	47	32	9	13	13	11	35	8	0	2
Maniilaq	10	0	10	10	7	4	1	2	5	5	0	0	2
NSHC	15	0	14	14	5	1	5	2	0	15	0	0	0
TCC	32	4	25	25	16	9	9	8	5	22	2	0	0
YKHC	51	5	44	44	11	6	15	7	2	45	1	5	9
Totals	183	29	154	153	80	33	46	35	23	133	12	6	16
				Percentages:	52.3%	21.6%	30.1%	22.9%	13.7%	79.2%	7.1%	3.9%	10.4%

Enforcement Targeting Tool (ETT) information was taken from the April 2018 SNC List.

Attachment D identifies primary and advisory communities, as well as those subject to ETT Listing and Operator Certification Requirements.

Appendix C

FY 19 End of Year Summary

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FY 20 Baseline Data

**RMW Program
FY 19 End of Year Outcomes and FY 20 Baseline Data**

RMW Service Area	Total # of Villages Supported	# of Advisory Communities	# of Systems Subject to ETT Listing	# of Systems Required to Have Certified Ops	Primary Operator Certified at Correct Level	Backup Operator Certified at Correct Level	Primary Operator Turnover	Backup Operator Turnover	PM Score 25	PM Score 15	PM Score 0	Villages on ETT List for RTCR	Villages on ETT List for Ops-Related Vios
BBAHC	21	9	13	13	9	6	4	3	0	15	1	0	3
DEC	54	11	48	47	27	8	9	17	16	30	0	2	4
Maniilaq	10	0	10	10	8	3	5	3	5	5	0	0	1
NSHC	15	0	14	14	9	1	9	4	1	14	0	0	1
TCC	32	4	25	25	14	8	6	6	1	26	1	0	1
YKHC	51	5	44	44	14	8	14	11	4	41	1	4	15
Totals	183	29	154	153	81	34	47	44	27	131	3	6	25
				Percentages:	52.9%	22.2%	30.7%	28.8%	16.8%	81.4%	1.9%	3.9%	16.2%

Enforcement Targeting Tool (ETT) information was taken from the April 2019 SNC List.

Attachment D identifies primary and advisory communities, as well as those subject to ETT Listing and Operator Certification Requirements.

Appendix D

RMW Community Summary

Category	Community	RMW Region	RMW	Primary/ Advisory	PWS Type	WT Class	WD Class	WWC Class	WWT Class	Primary Operator	Backup Operator	PM Score	ETT	TO Primary	TO Backup
Primary Communities which require a Certified Operator and are subject to ETT Listing	Adak	DEC	Vacant	P	C	ST				ST	NO CERT	15			1
	Akiok	DEC	Vacant	P	C	1				WT1	WDP	15			
	Akiachak	YKHC	White	P	C	2			SP	WT1	ST	15			1
	Akiak	YKHC	White	P	C	2				WT1	WDP	25			
	Akutan	DEC	Evavold	P	C	ST				ST	NO CERT	15	OPS (N, LCR, VOC, SW)		
	Alakanuk	YKHC	Westlock	P	C	2	2	1	SP	NO CERT	NO CERT	15	OPS (SW, DBP, LCR, N, VOC)	1	
	Allakaket	TCC	Meckel	P	C	1				WT1	NONE	15			2
	Ambler	MHC	Johnson	P	C	SU				ST	ST	25			
	Anchor Point	DEC	Bradbury	P	C	1				WT1	WT1	25			
	Angoon	DEC	Bradbury	P	C	2	1	1		WT1	NO CERT	15		1	1
	Anvik	YKHC	Werba	P	C	ST				ST	NO CERT	15	OPS (DBP, LCR, N)		
	Arctic Village	TCC	Vacant	P	C	2				WT2	WTP	15			
	Atka	DEC	Evavold	P	C	2				NO CERT	NO CERT	15			
	Atmautluak	YKHC	White	P	C	1				NO CERT	NO CERT	15	OPS (DBP, Ssurvey)		
	Beaver	TCC	Vacant	P	C	1				NO CERT	NO CERT	15			
	Brevig Mission	NSHC	Amaktoolik	P	C	ST				ST	NO CERT	15		1	
	Buckland	MHC	Johnson	P	C	2				WT2	WT2	25			
	Chalkyitsik	TCC	Vacant	P	C	2				NO CERT	NO CERT	15		1	
	Chefornak	YKHC	Paukan	P	C	SU				ST	ST	25			1
	Chenega Bay	DEC	Bradbury	P	C	2				NO CERT	NO CERT	15		1	1
	Chevak	YKHC	Paukan	P	C	1	2	1	SP	WT1	WT1	15			
	Chignik Bay	BBAHC	Somers	P	C	2				WTP	ST	15		1	
	Chignik Lagoon	BBAHC	Somers	P	C	1				NO CERT	NO CERT	15		4	
	Chignik Lake	BBAHC	Somers	P	C	SU				SU	NO CERT	15	OPS (Ssurvey)		1
	Chuathbaluk	YKHC	Werba	P	C	ST				ST	ST	15		2	
	Circle	TCC	Vacant	P	C	ST				ST	ST	15			1
	Clark's Point	BBAHC	Somers	P	C	SU				NO CERT	NONE	15	OPS (AS, N, GWR)	1	
	Coffman Cove	DEC	Evavold	P	C	2				WT2	WT2	15			
	Cold Bay	DEC	Bradbury	P	C	ST				WTP	NONE	25			
	Crooked Creek	YKHC	Werba	P	C	1				NO CERT	NO CERT	15	OPS (DBP, N)		1
	Deering	MHC	Johnson	P	C	ST				ST	WDP	15			
	Diomede	NSHC	Amaktoolik	P	C	ST				NONE	NONE	15	OPS (DBP)	3	
	Eek	YKHC	White	P	C	2				WT1	NONE	25			
	Egegik	BBAHC	Somers	P	C	1				WT1	WT1	15			
	Elim	NSHC	Amaktoolik	P	C	ST				WTP	NO CERT	15			
	Emmonak	YKHC	Westlock	P	C	2	2	1	SP	ST	WT1	15			
	False Pass	DEC	Bradbury	P	C	2				WT2	NO CERT	25			5
	Fort Yukon	TCC	Vacant	P	C	2	2	1	SP	WT3	NO CERT	15			
	Galena	TCC	Meckel	P	C	2	2		SP	WT2	WT2	15			
	Galena 2	TCC	Meckel	P	C	2				WT2	WT2	15			
Gambell	NSHC	Amaktoolik	P	C	2	2	1	SP	NO CERT	NO CERT	15			1	
Golovin	NSHC	Amaktoolik	P	C	2				NO CERT	NO CERT	15				
Goodnews Bay	YKHC	White	P	C	2				WT1	ST	15				
Grayling	YKHC	Werba	P	C	ST				ST	WTP	15	OPS (OR, DBP, DCL)			
Gulkana	DEC	Bradbury	P	C	2				WT1	NONE	15				
Holy Cross	YKHC	Werba	P	C	ST				ST	ST	15				
Hoonah	DEC	Bradbury	P	C	2	1	1	1	WT2	WT1	25				

Category	Community	RMW Region	RMW	Primary/ Advisory	PWS Type	WT Class	WD Class	WWC Class	WWT Class	Primary Operator	Backup Operator	PM Score	ETT	TO Primary	TO Backup	
Primary Communities which require a Certified Operator and are subject to ETT Listing	Hooper Bay	YKHC	Paukan	P	C	2	2	1	SP	WT2	NO CERT	15				
	Hughes	TCC	Vacant	P	C	1				WT1	WT2	15		1		
	Huslia	TCC	Vacant	P	C	1				WT2	WTP	15			1	
	Hydaburg	DEC	Evavold	P	C	2	1	1		NO CERT	NO CERT	15	TCR, OPS (N)			
	Igiugig	DEC	Vacant	P	C	1				NO CERT	WTP	15			1	
	Take	DEC	Bradbury	P	C	2	1	1		WT1	NONE	15			1	
	Kaltag	TCC	Vacant	P	C	1				NO CERT	NO CERT	15			2	
	Karluk	DEC	Vacant	P	C	ST				ST	ST	25				
	Kasaan	DEC	Evavold	P	C	1				WT1	NO CERT	15			4	
	Kiana	MHC	Johnson	P	C	1	2			WT1	NO CERT	25			2	1
	Kipnuk	YKHC	Paukan	P	C	2				ST	ST	15			1	
	Kivalina	MHC	Johnson	P	C	ST				WTP	ST	15				
	Klawock	DEC	Evavold	P	C	2	1	1	1	NO CERT	WTP	15			1	3
	Klukwan	DEC	Bradbury	P	C	2				WT2	WTP	15				
	Kobuk	MHC	Johnson	P	C	1				NO CERT	NO CERT	15	OPS (DBP, GWR, OP)		1	
	Kokhanok	DEC	Evavold	P	C	ST				ST	ST	15				
	Koliganek	BBAHC	Somers	P	C	SU				ST	NO CERT	15				1
	Kongiganak	YKHC	Paukan	P	C	2				ST	ST	15	OPS (DBP, VOC, SOC, Rad)		2	3
	Kotlik	YKHC	Westlock	P	C	2	2	1	SP	WT1	ST	15				
	Koyuk	NSHC	Amaktoolik	P	C	ST				NO CERT	NO CERT	15			2	1
	Koyukuk	TCC	Vacant	P	C	1				NO CERT	NONE	15			3	1
	Kwethluk	YKHC	White	P	C	2	2	1	SP	NO CERT	ST	15	OPS (LCR, SW)			
	Kwillingok	YKHC	Paukan	P	C	2				NO CERT	ST	15	OPS (Ssurvey, N)			
	Larsen Bay	DEC	Vacant	P	C	1				WT2	WT2	25				
	Lower Kalskag	YKHC	Werba	P	C	ST				ST	ST	15				
	Manokotak	BBAHC	Somers	P	C	SU				SU	ST	15	OPS (GWR, N, AS, VOC, Rads)			
	Manokotak Heights	BBAHC	Somers	A	C	SU				SU	ST					
	Marshall	YKHC	Westlock	P	C	1	2	1	SP	NO CERT	NO CERT	15				2
	McGrath	TCC	Vacant	P	C	2	2			WT1	NO CERT	15				
	Mekoryuk	YKHC	Paukan	P	C	1				ST	ST	15				
	Minto	TCC	Vacant	P	C	ST				NO CERT	NO CERT	15	OPS (DBP)		3	
	Mountain Village	YKHC	Westlock	P	C	1	2	1	SP	ST	NO CERT	15			1	1
	Nanwalek	DEC	Vacant	P	C	1				NO CERT	NONE	25				
	Napakiak	YKHC	White	P	C	1				ST	NONE	15				2
	Napaskiak West	YKHC	White	P	C	1				NO CERT	NO CERT	15				1
	Nelson Lagoon	DEC	Bradbury	P	C	2				NO CERT	NO CERT	15	TCR, OPS (LCR, DBP, SW)		2	2
	Nenana	TCC	Vacant	P	C	1	2	1	2	NO CERT	NO CERT	15			3	1
	New Kasigluk	YKHC	White	P	C	2			SP	ST	NO CERT	15			1	1
	New Stuyahok	BBAHC	Somers	P	C		2			NO CERT	NO CERT	15				1
	Newhalen	DEC	Bradbury	P	C	SU				SU	NO CERT	25				
Newtok	YKHC	Paukan	P	C	2				ST	ST	15				1	
Nightmute	YKHC	Paukan	P	C	SU				NONE	NONE	15	OPS (N, AS, DBP, SOC, VOC, Rads, CCR)				
Nikolaevsk	DEC	Bradbury	P	C	2				WT1	WT2	25				1	
Noatak	MHC	Johnson	P	C	1	2	1	SP	WT1	ST	25				1	
Nondalton	DEC	Evavold	P	C	ST				ST	NO CERT	15	OPS (SE)		2	1	
Noorvik	MHC	Johnson	P	C	2	2	1	SP	WT2	ST	25			1		
Northway	TCC	Meckel	P	C	ST				ST	NONE	25					

Category	Community	RMW Region	RMW	Primary/ Advisory	PWS Type	WT Class	WD Class	WWC Class	WWT Class	Primary Operator	Backup Operator	PM Score	ETT	TO Primary	TO Backup
Primary Communities which require a Certified Operator and are subject to ETT Listing	Nulato	TCC	Meckel	P	C	ST				NO CERT	ST	15			
	Nunam Iqua	YKHC	Westlock	P	C	2				WT1	WT1	15	TCR, OPS (SW, DBP)		1
	Nunapitchuk	YKHC	White	P	C	2				ST	ST	25			
	Old Harbor	DEC	Evavold	P	C	2				WT2	NONE	15			1
	Old Kasigluk	YKHC	White	P	C	1			SP	NO CERT	NONE	15			
	Ouzinkie	DEC	Evavold	P	C	2				WT2	WTP	15			
	Pelican	DEC	Bradbury	P	C	2				WT1	WT2	25			1
	Perryville	BBAHC	Somers	P	C	ST				ST	NO CERT	0			
	Pilot Station	YKHC	Westlock	P	C	1	2	1	SP	WTP	NO CERT	15		1	
	Pitka's Point	YKHC	Westlock	P	C	ST				ST	NO CERT	15			
	Platinum	YKHC	White	P	C	SU				NO CERT	NONE	15	TCR, OPS (N, AS, DBP, SOC, VOC, Rads, CCR)		
	Port Alexander	DEC	Vacant	P	C	ST				ST	ST	15			
	Port Graham	DEC	Evavold	P	C	2				WT2	NONE	15			1
	Port Lions	DEC	Evavold	P	C	2	1	1		WTP	NO CERT	25		2	1
	Port Protection	DEC	Vacant	P	C	SU				SU	NO CERT	15			
	Quinhagak	YKHC	White	P	C	2	2	1	SP	WT1	WTP	15			1
	Rampart	TCC	Meckel	P	C	1				NO CERT	WDP	15			
	Ruby	TCC	Meckel	P	C	1				NONE	NONE	15			
	Russian Mission	YKHC	Westlock	P	C	SU				ST	NO CERT	15		4	1
	Sand Point	DEC	Evavold	P	C	2	2	1	SP	WT2	WDP	15			1
	Savoonga	NSHC	Amaktoolik	P	C	1	2	1	SP	WT2	WTP	15		1	
	Saxman	DEC	Evavold	P	C	2	1	1		NO CERT	NONE	25			
	Scammon Bay	YKHC	Westlock	P	C	2	2	1	SP	WT1	NO CERT	15	OPS (SW, DBP)		
	Selawik	MHC	Johnson	P	C	2	2	1	SP	ST	NO CERT	15		3	
	Seldovia	DEC	Vacant	P	C	2	1	1		WT2	WTP	25		1	1
	Shageluk	YKHC	Werba	P	C	ST				WTP	ST	15	TCR, OPS (Ssurvey, DBP)		
	Shaktoolik	NSHC	Amaktoolik	P	C	2				WT2	NO CERT	15			2
	Shishmaref	NSHC	Amaktoolik	P	C	2			SP	ST	NO CERT	15		1	3
	Shungnak	MHC	Johnson	P	C	1				WT2	ST	15		2	1
	Sleetmute	YKHC	Werba	P	C	ST				ST	NO CERT	15	OPS (SW, DBP, CCR)	2	
	South Naknek	BBAHC	Somers	P	C	SU				WTP	WTP	15			
	St. George	DEC	Bradbury	P	C	SU				NO CERT	NONE	15			
	St. Mary's	YKHC	Paukan	P	C	2	2	1	SP	WT3	ST	15			
	St. Michael	NSHC	Amaktoolik	P	C	ST				WT1	NO CERT	15			
	St. Paul	DEC	Bradbury	P	C	1	1	1		NO CERT	NO CERT	15			
	Stebbins	NSHC	Amaktoolik	P	C	1				NO CERT	NO CERT	15		2	
	Stevens Village	TCC	Meckel	P	C	ST				ST	NONE	15			
	Takotna	TCC	Vacant	P	C	ST				ST	ST	15			
	Tanacross	TCC	Vacant	P	C	SU				SU	NO CERT	15			
	Tanana	TCC	Vacant	P	C	2				NO CERT	WT1	15			
Tatitlek	DEC	Vacant	P	C	ST				WT1	NO CERT	25				
Teller	NSHC	Amaktoolik	P	C	ST				WT1	ST	25			1	
Tetlin	TCC	Meckel	P	C	SU				SU	SU	15				
Thorne Bay	DEC	Evavold	P	C	2	1	1	1	WT2	NO CERT	15			2	
Togiak	BBAHC	Somers	P	C	1	2	1	SP	WT2	WT1	15				
Toksook Bay	YKHC	Paukan	P	C	1	2	1	SP	WT2	WT1	15				
Tuluksak	YKHC	White	P	C	1				ST	ST	15		1		

Category	Community	RMW Region	RMW	Primary/ Advisory	PWS Type	WT Class	WD Class	WWC Class	WWT Class	Primary Operator	Backup Operator	PM Score	ETT	TO Primary	TO Backup
Primary Communities which require a Certified Operator and are subject to ETT Listing	Tuntutuliak	YKHC	White	P	C	1				ST	NO CERT	15	TCR,OPS (N, LCR)		
	Twin Hills	BBAHC	Somers	P	C	SU				SU	SU	15		1	
	Tyonek	DEC	Vacant	P	C	1				WT1	NO CERT	25			
	Unalakleet	NSHC	Amaktoolik	P	C	2	2	1	SP	WT2	ST	15			1
	Venetie	TCC	Meckel	P	C	ST				ST	NO CERT	15			2
	Voznesenka	DEC	Vacant	P	C	1				WT1	WTP	15			
	Wales	NSHC	Amaktoolik	P	C	ST				ST	NO CERT	15			3
	White Mountain	NSHC	Amaktoolik	P	C	ST				ST	NO CERT	15			
Yakutat	DEC	Vacant	P	C	1	1	1	1	WT1	WT1	15				
Primary Communities which do not require a Certified Operator Drinking Water and are not subject to ETT Listing	Naknek	BBAHC	Somers	A				1	SP	WWC1	WWT1				
	Alatna	TCC	Meckel	P	NP					NA	NA	15			
	Anderson	DEC	Bradbury	P	NP					NA	NA	15			
	Aniak	YKHC	Werba	P	NP			1	SP	SP	NO CERT	0			
	Chiniak	DEC	Evavold	P	NP					NA	NA				
	Dot Lake	TCC	Vacant	P	NP					NA	NA	0			
	Nikolai	TCC	Vacant	P	NP					NA	NA	15			
	Nikolski	DEC	Evavold	P	NP					NA	NA				
	Ninilchik	DEC	Bradbury	P	NP					NA	NA	25			1
	Tununak	YKHC	Paukan	P	NP					NA	NA	15			
Federally Regulated System	Metlakatla	DEC	Evavold	P	NP					NA	NA	15			
Subject to ETT Listing but does not require a certified operator	Elfin Cove	DEC	DEC	A	TNC	NA				NA	NA				
Advisory Communities which require a Certified Operators and are subject to ETT Listing	Craig	DEC	DEC	A	C	2	2	1	2	WT3	WT2				
	King Cove	DEC	DEC	A	C	2	1	1		WT2	WT1				
	Oscarville	YKHC	White	A	NP	1				ST	NONE	15			1
	Unalaska	DEC	DEC	A	C	2	3	2	1	WT2	WT2				1
	Whittier	DEC	DEC	A	C	SU				SU	WD2				
quire a Certified ETT Listing	Aleknagik	BBAHC	Somers	A	NP					NA	NA				
	Birch Creek	TCC	Vacant	A	NP					NA	NA				
	Eagle Village	TCC	Vacant	A	NP					NA	NA				
	Ekwok	BBAHC	Somers	A	NP					NA	NA				
	Healy Lake	TCC	Vacant	A	NP					NA	NA				

Category	Community	RMW Region	RMW	Primary/ Advisory	PWS Type	WT Class	WD Class	WWC Class	WWT Class	Primary Operator	Backup Operator	PM Score	ETT	TO Primary	TO Backup
Advisory Communities which do not rely on public water operators and are not subject to public water systems.	<i>Iliamna</i>	DEC	DEC	A	NP					NA	NA				
	<i>Ivanof Bay</i>	BBAHC	Somers	A	NP					NA	NA				
	<i>Levelock</i>	BBAHC	Somers	A	NP					NA	NA				
	<i>Lime Village</i>	YKHC	Werba	A	NP					NA	NA	15			
	<i>Manley</i>	TCC	Vacant	A	NP					NA	NA				
	<i>Pilot Point</i>	BBAHC	Somers	A	NP					NA	NA				
	<i>Port Heiden</i>	BBAHC	Somers	A	NP					NA	NA				
	<i>Portage Creek</i>	BBAHC	Somers	A	NP					NA	NA				
	<i>Red Devil</i>	YKHC	Werba	A	NP					NA	NA				
	<i>Stony River</i>	YKHC	Werba	A	NP					NA	NA				
<i>Ugashik</i>	BBAHC	Somers	A	NP					NA	NA					
Communities that have only privately owned water systems.	<i>Chitina</i>	DEC	DEC	A	NA										
	<i>Copper Center</i>	DEC	DEC	A	NA										
	<i>Glennallen</i>	DEC	DEC	A	NA										
	<i>Gustavus</i>	DEC	DEC	A	NA										
	<i>Mentasta Lake</i>	DEC	DEC	A	NA										
	<i>Upper Kalskag</i>	YKHC	Werba	P	NA							15			

Appendix E

FY 19 RMW Meeting Agenda

**2019 RMW Meeting
Atwood Conference Center
Anchorage, AK**

Thursday, May 16

RMW Supervisor Meeting

Atwood Conference Center, Rooms 102-104

- 8:00 am Introductions and Regional Updates
- 9:30 am Capacity Development and Operator Certification Updates, *Sarah Mutter, ADEC*
- 10:30 am Break*
- 10:45 am Best Practices – Scoring accuracy and consistency
- 11:45 pm Lunch*
- 1:15 pm RMW & RUBA Coordination
- 2:30 pm Break*
- 2:45 pm Drinking Water Program Updates, ETT focus
- 4:30 pm Adjourn

Friday, May 17

- 8:00 am RMW Grants Requirements, SFY20 Planning, Personal Services, Pre Trip Report
- 9:30 am ANTHC Updates (TUS, RAVG, CDQ efforts)
- 10:30 am Break*
- 10:45 am VSW Updates
- 11:45 am VSW/ANTHC Engineer Meet and Greet
- 12:00 pm Lunch*
- 1:15 pm Infrastructure Protection Funding & Micro Loans
- 3:00pm Break*
- 4:00pm Adjourn

Appendix F

FY 20 RMW Directory

Remote Maintenance Worker Directory

SFY2020

Alaska Department of Environmental Conservation

In Anchorage:

555 Cordova St.

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Tammy Helms, TAF Manager

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Brandi Adams, Env. Specialist

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Sarah Mutter, CapDev Coord.

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465-5161

General Op. Cert. Contact

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465-1139

Communities in Service Area

Steve Evavold

Coffman Cove

Gulkana

Hydaburg

Kasaan

Klawock

Metlakatla

Nikolaevsk

Ninilchik

Old Harbor

Ouzinkie

Port Alexander

Port Lions

Port Protection

Saxman

Matt Bradbury

Anchor Point

Angoon

Chenega

Cold Bay

False Pass

Hoonah

Kake

Klukwan

Nanwalek

Nelson Lagoon

Pelican

Port Graham

Sand Point

Tatitlek

Theo Graber

Adak

Akhiok

Akutan

Anderson

Atka

Iguigig

Karluk

Kohhanok

Larsen Bay

Newhalen

Nondalton

St. George

St. Paul

Tyonek

Advisory Communities

Chitina

Chiniak

Copper Center

Craig

Elfin Cove

Glenallen

Iliamna

King Cove

Nikolski

Mentasta Lake

Unalaska

Whittier

Bristol Bay Area Health Corporation

Bristol Bay Area Health Corporation (BBAHC)
P.O. Box 130
Dillingham, AK 99576

(888) 792-2242
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Kenny Parker, RMW kparker@bbahc.org 842-9624

Rex Spofford, Supervisor rspofford@bbahc.org 842-3396

Communities in Service Area

Chignik Bay	Clark's Point	Manokotak	South Naknek
Chignik Lagoon	Egegik	New Stuyahok	Togiak
Chignik Lake	Koliganek	Perryville	Twin Hills

Advisory Communities

<i>Aleknagik</i>	<i>Ivanof Bay</i>	<i>Naknek</i>	<i>Portage Creek</i>
<i>Ekwok</i>	<i>Levelock</i>	<i>Pilot Point</i>	<i>Port Heiden</i>
			<i>Ugashik</i>

Maniilaq Health Corporation

Maniilaq Health Corporation
P.O. Box 43
Kotzebue, AK 99752

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Shyler Johnson, RMW skjohanson@anthc.org 442-7172

Chris Cox, Supervisor cocox@anthc.org 442-7352

Communities in Service Area

Ambler	Kobuk
Buckland	Noatak
Deering	Noorvik
Kiana	Selawik
Kivalina	Shungnak

Norton Sound Health Corporation

Norton Sound Health Corporation (NSHC)

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Nome, AK 99762

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Vacant, RMW

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Luke Smith, RMW

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443-3403 (land)

Racheal Lee, Supervisor

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Communities in Service Area

Vacant

Elim Shaktoolik
Golovin Stebbins
Koyuk Unalakleet
St. Michael White Mountain

Luke Smith

Brevig Mission Shishmaref
Diomedede Teller
Gambell Wales
Savoonga

Tanana Chiefs Conference

Tanana Chiefs Conference (TCC)

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Kyle Wright, Supervisor

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Communities in Service Area

Lee Meckel

Alatna Nulato
Allakaket Rampart
Arctic Village Ruby
Circle Stevens Village
Galena Tetlin
Northway Venetie

Kurt Cook

Beaver Minto
Dot Lake Nikolai
Eagle Village Takotna
Kaltag Tanacross
Koyukuk Tanana
McGrath

Bryan Roesing

Birch Creek Hughes
Chalkyitsik Huslia
Fort Yukon *Manley*
Healy Lake Nenana

Yukon Kuskokwim Health Corporation

Yukon Kuskokwim Health Corporation
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Brian Lefferts, Supervisor

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543-6423 (land)
545-1279 (cell)

Communities in Service Area

Allan Paukan

Chefornak
Chevak
Hooper Bay
Kongiganak
Kwigillingok
Mekoryuk
Newtok
Nightmute
Saint Mary's
Toksook Bay
Tununak

Bob White

Akiachak
Akiak
Eek
Goodnews Bay
Kasigluk
Kwethluk
Napakiak
Napaskiak
Nunapitchuk
Platinum
Quinhagak
Tuluksak

Bruce Werba

Aniak
Anvik
Chuathbaluk
Crooked Creek
Grayling
Holy Cross
Lime Village
Lower Kalskag
Red Devil
Shageluk
Sleetmute
Stony River
Upper Kalskag

Billy Westlock

Alakanuk
Emmonak
Kotlik
Mountain Village
Nunam Iqua
Pilot Station
Pitka's Point
Scammon Bay

Shane McIntyre

Atmautluak
Kipnuk
Marshall
Oscarville
Russian Mission
Tuntutuliak