How to Read the Monitoring Summary

The annual Monitoring Summary outlines the sampling, reporting, and other requirements for a public water system (PWS). This should be used as a planning document to help the PWS remain in compliance with the State of Alaska Drinking Water Regulations, 18 AAC 80.

Monitoring Summary for EXAMPLE WATER SYSTEM

Public water system ID#AK2XXXXXX Population: 6008 December 2, 2021

Community Water System, Surface water

How to read the Monitoring Summary section (*pages 2-4*).

	Requirement	Sample Point ID	Required Sampling Frequency	Last Sample	Next Sample
	Sanitary Survey		Every 3 years	09/25/2021	2024
DS EXAMPLE WATER SYSTEM (Facility ID:DS001)					
	COLIFORM (TCR)	SPDS001TCR	7 sample(s) monthly	11/26/2021	Monthly, according to Sample Siting Plan
	TTHM & HAA5 (DBP2)	SPDS1DBP2-2	2 sample(s) quarterly	09/14/2021	See stage 2 sampling detail information below
	LEAD AND COPPER	SPDS001PC	20 sample(s) every 3 years	09/09/2020	2023
TP FOR EXAMPLE WATER SYSTEM (Facility ID:TP001)					
	SOC	SPTP001	1 sample(s) quarterly	02/08/2006	2020-2022 SOC Waiver Granted
	VOC	SPTP001	1 sample(s) annually	04/27/2021	2022
	NITRATE	SPTP001	1 sample(s) annually	04/27/2021	2022
	INORGANICS	SPTP001	1 sample(s) per 9 year cycle	04/27/2021	Between 2029 and 2037
	ARSENIC - SINGLE	SPTP001	1 sample(s) per 9 year cycle	04/27/2021	Between 2029 and 2037
	RADIUM 226 AND 228	SPTP001	1 sample(s) per 9 year cycle	04/27/2021	Between 2026 and 2034
	TOTAL GROSS ALPHA	SPTP001	1 sample(s) per 9 year cycle	04/27/2021	Between 2026 and 2034

Stage 2 Sampling Detail Information - Sample frequency listed in requirements above

How to read the Stage 2 Sampling Detail section (*pages 5-6*).

DBP2	SPDS1DBP2-1	BEST WESTERN	1	March, June, September, and December
DBP2	SPDS1DBP2-2	SPIT STATION	1	March, June, September, and December

Operator Report

How to read the Operator Report section (*page 7*).

CHLORINE	Distribution System	Same time/place as routine TCR sample	11/01/2021	Send reports to ADEC on the last day of the month (before the 10th day of the following month).
CHLORINE	Entry Point	1 samples 20 days per month	10/01/2021	

Compliance Schedules

How to read the Compliance Schedules section (*page 7*).

RTCR-LEVEL 2 – SAMPLE EC+ MCL	05/03/2021	

Public Notice Schedules

How to read the Public Notice Schedules and End Notes section (*page 8*).

PN Action	PN Due	Due	Comments
PN-TIER 2 PUBLIC NOTICE REQUIRED	11/01/2021	11/11/2021	PN for HAA5 MCL violation

Section 1: Monitoring Summary

A. General information about the water system is included at the top of the Monitoring Summary.

1. Water System Name
2. Public Water System Identification Number (PWSID)
3. Total Population Served
4. Date Monitoring Summary was created & saved to Drinking Water Watch
5. Federal Water System Type & Source Water Type

Monitoring Summary (1) EXAMPLE WATER SYSTEM

(2) Public water system ID#AK2XXXXXX (3) Population: 6008 (4) December 2, 2021

(5) Community Water System, Surface water

B. Below the general information section are Sanitary Survey and sampling requirements.

6. **Requirement**: This column lists the specific contaminant or contaminant group the PWS needs to test. The Sanitary Survey requirement will also be noted in this column.
7. **Sample Point ID**: This column lists the sample point identification code associated with the sample location.
8. **Required Sampling Frequency**: This column notes the number of samples and how often the sample(s) need to be collected.
9. **Last Sample**: This column lists the last sample date for the contaminant that the Drinking Water (DW) Program has on record.
10. **Next Sample**: This column notes when the next sample for the contaminant is due.

	(6) Requirement	(7) Sample Point ID	(8) Required Sampling Frequency	(9) Last Sample	(10) Next Sample
	Sanitary Survey		Every 3 years	09/23/2021	2024
DS EXAMPLE WATER SYSTEM (Facility ID:DS001)					
	COLIFORM (TCR)	SPDS001TCR	7 sample(s) monthly	11/26/2021	Monthly, according to Sample Siting Plan
	TTHM & HAA5 (DBP2)	SPDS1DBP2-2	2 sample(s) quarterly	09/14/2021	See stage 2 sampling detail information below
	LEAD AND COPPER	SPDS001PC	20 sample(s) every 3 years	09/09/2020	2023

Sampling Location

The Monitoring Summary displays the water system facility (or sample location) where each sample is required to be collected. For example, samples listed under the Facility ID *DS* (distribution) must be collected in the distribution system while samples listed under the Facility ID *TP* (treatment plant) need to be collected at the entry point to the distribution. The Sample Point ID associates a specific sampling point with the sample location.

<u>The Facility ID and Sample Point ID are required information for submitting laboratory sample results to the State</u>. *(This information is displayed on your Monitoring Summary as shown in the example below.)*

	Requirement	Sample Point ID	Required Sampling Frequency	Last Sample
	Sanitary Survey		Every 3 years	09/23/2021
DS EXAMPLE WATER SYSTEM (Facility ID:DS001)				
	COLIFORM (TCR)	SPDS001TCR	7 sample(s) monthly	11/26/2021
	TTHM & HAA5 (DBP2)	-See below-	2 sample(s) quarterly	09/14/2021
	LEAD AND COPPER	SPDS001PC	20 sample(s) every 3 years	09/09/2021
TP EXAMPLE WATER SYSTEM (Facility ID:TP001)				
	NITRATE	SPTP001	1 sample(s) annually	04/27/2021
	VOC	SPTP001	1 sample(s) annually	04/27/2021
	INORGANICS	SPTP001	1 sample(s) per 9 year cycle	04/27/2021

Facility ID: This identification code is associated with the facility where the sample should be collected.

Sample Point ID: This column lists the sample point identification code associated with the sample location.

Example: For this system (Monitoring Summary above) the **Nitrate** sample is supposed to be taken at the **Treatment Plant**, which is the entry point to the distribution system (Facility ID: **TP001** & Sample Point ID: **SPTP001**).

*<u>Please note</u>: Samples collected at a well could be for source/raw water sampling or represent the entry point to the distribution system. If you are unsure about the samples for your system, consult your Environmental Program Specialist (EPS).

Entry Point to the Distribution System	
Facility	CH-Combined Header
	TP- Treatment Plant
	WL- Well*
	PF- Pump Facility
	SF- Storage Facility
Distribution System	
Facility	DS- Distribution System
Raw Water Sample	
Facility	IN- Intake
	WL- Well*
	IG- Infiltration Gallery

This table highlights the types of water system facilities and the two-letter code (such as TP and DS).

Other Considerations

A Sanitary Survey is defined as “an onsite inspection of the water source, facilities, equipment, operation, and maintenance of a public water system”. A Sanitary Survey is meant to identify problems which may affect the safety of the water.

C. Situated towards the top of the Monitoring Summary, is the Sanitary Survey requirement.

1. **Required Sampling Frequency**: For every Community Water System, a Sanitary Survey must be conducted every 3 years. Meanwhile, for every Non-Transient Non-Community & Transient Non-Community water system, a Sanitary Survey must be conducted every 5 years.
2. **Last Sample**: This column notes the date the last Sanitary Survey was conducted.
3. **Next Sample**: This column shows the year the next Sanitary Survey is due.

	Requirement	Sample Point ID	1 Required Sampling Frequency	2 Last Sample	3 Next Sample
	Sanitary Survey		Every 3 years	09/23/2021	2024

Section 2: Stage 2 Sampling Detail

For systems subject to Stage 2 D/DBPR requirements, this section describes that sampling for this rule must occur at the **specific location*** and **time of year indicated** in the Compliance Monitoring Plan. Samples submitted from incorrect locations or outside of the designated timeframe will not be accepted by the DW Program.

1. **Contaminant**: This section indicates which Stage 2 contaminant the sample should be analyzed for at the laboratory.
2. **Sample Pt. ID:** This column lists the sample point identification code associated with the sample location.
3. **Location**: This section represents the location in the water system where the sample should be collected.
4. **Sample Count**: This section specifies how many samples should be submitted for analysis.
5. **Sample Dates**: This area designates the month(s) a Stage 2 sample is required.

Stage 2 Sampling Detail Information - Sample frequency listed in requirements above				
1 Contaminant	2 Sample Pt. ID	3 Location	4 Sample Count	5 Sample Dates
DBP2	SPDS1DBP2-1	BEST WESTERN	1	March, June, September, and December
DBP2	SPDS1DBP2-2	SPIT STATION	1	March, June, September, and December

*Please note: Depending on the system's sampling requirements you may see DBP2 (TTHM & HAA5 as a dual sample set); or TTHM (Individual TTHM sample) and HAA5 (Individual HAA5 sample) listed. See *page 6* for examples.

Interpreting Stage 2 Sampling Detail

In order to understand Stage 2 sampling requirements, review the number and frequency of samples required (located within the Section 1, noted by (A) in screen shots below) and information on the specific location and month(s) samples need to be collected (located within the Stage 2 Sampling Detail Information section, noted by (B) in screen shots below):

Example 1

DS CITY FOR EXAMPLE WATER SYSTEM (Facility ID:DS001)					
	COLIFORM (TCR)	SPDS001TCR	7 sample(s) monthly	11/26/2021	Monthly, according to Sample Siting Plan
A	TTHM & HAA5 (DBP2)	-See below-	2 sample(s) quarterly	09/14/2021	See stage 2 sampling detail information below
	LEAD				

This system is required to collect a **TTHM & HAA5** sample (DBP2) at the **Best Western & Spit Station** locations on a quarterly basis in the specific months of **March, June, September and December**.

Stage 2 S

Contaminant	ID	Location	Count	Sample Dates
B BP2	SPDS1DBP2-1	BEST WESTERN	1	March, June, September, and December
DBP2	SPDS1DBP2-2	SPIT STATION	1	March, June, September, and December

Example 2

DS CITY FOR EXAMPLE WATER SYSTEM (Facility ID:DS001)					
	COLIFORM (TCR)	SPDS001TCR	7 sample(s) monthly	01/08/2019	Monthly, according to Sample Siting Plan
A	HAA5 (HALOACETIC)	-See below-	2 sample(s) quarterly	09/11/2018	See stage 2 sampling detail information below
A	TOTAL TRIHALOMETHANE	-See below-	2 sample(s) quarterly	09/11/2018	See stage 2 sampling detail information below
	LE				

This system is required to collect a **TTHM** and a **HAA5** sample at <u>different locations</u>. For **TTHM** a sample must be collected at the **Clinic Breakroom Sink**. For **HAA5** a sample must be collected at the **Clinic Conf RM Sink**. Both locations must be sampled on a quarterly basis in the specific months of **February, May, August and November**.

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Stage 2 Sampling Detail Information - Sample frequency listed in requirements above

Contaminant	Sample Pt. ID	Location	Sample Count	Sample Dates
B TTHM	SPDS1DBP2-T	YKHC CLINIC BREAKROOM SINK	1	February, May, August, and November
HAA5	SPDS1DBP2-H	YKHC CLINIC CONF RM SINK	1	February, May, August, and November

Section 3: Operator Report

This section outlines the requirements for the Monthly Operator Report.

1. **Requirement**: This column lists the specific contaminant or contaminant group the PWS needs to test.
2. **Location**: This column lists the location where the samples/measurements should be taken.
3. **Sampling Frequency**: This column notes the number of samples and how often the samples/measurements need to be collected.
4. **Last Report**: This column indicates when the last operator report was submitted to the DW Program.

Operator Report				
Requirement (1)	Location (2)	Sampling Frequency (3)	Last Report (4)	
TURBIDITY	After Filters	1 samples 20 days per month	10/01/2021	Test and record daily. Send reports to ADEC on the last day of the month (before the 10th day of the following month).
CHLORINE	Distribution System	Same time/place as routine TCR sample	11/01/2021	
CHLORINE	Entry Point	1 samples 20 days per month	10/01/2021	

Section 4: Compliance Schedules

Compliance Schedules track other (non-sampling) requirements such as the Consumer Confidence Report (CCR) or additional follow-up activities for Sanitary Survey deficiencies. For a complete list of each compliance schedule type please see Appendix 1 (on *page 9*).

1. **Compliance Schedule Type**: This field identifies what issue the compliance schedule is addressing. This example details a Consumer Confidence Report Schedule.
2. **Due**: This column lists when activities need to be completed.
3. **Comments**: The comments are written by the EPS assigned to the PWS to provide additional details to the schedule requirements.

Compliance Schedules		
Schedule/Action (1)	Due (2)	Comments (3)
Consumer Confidence Report		
CCR - SUBMITTAL	06/30/2022	CCR for calendar year 2021
CCR - CERTIFICATION PAGE	09/30/2022	CCR Certification for calendar y

Please note: Not all schedules will have comments.

Section 5: Public Notice Schedules

Public Notice (PN) Schedules are used to track Public Notification requirements. The schedule will outline what PN Tier Level is required, when the PN is due to consumers, and when the PN Certification is due to the DW Program.

1. **PN Action**: This field identifies the Tier level of the required PN. Each Tier level has a different set of requirements for timing and how consumers are notified. This example details a Tier 2 PN for an HAA5 MCL violation.
2. **PN Due**: This column lists the date the Public Notice must be provided to consumers.
3. **Certification Due**: This column lists when certification of the public notice must be provided to the DW Program (10 days after PN Due date).
4. **Comments**: The comments provide details regarding the reason for the required PN.

Public Notice Schedules

1 PN Action	2 PN Due	3 Certification Due	4 Comments
PN-TIER 2 PUBLIC NOTICE REQUIRED	11/01/2021	11/11/2021	PN for HAA5 MCL violation

End Notes

The last section on the Monitoring Summary lists additional notes pertinent to sampling time frames as well as the contact information for the EPS assigned to the public water system.

Notes & Contact Information

Please note: Review the flyer or email sent by your EPS as it will contain important information and additional reminders for the upcoming year.

**NSF = No sample found

1) Periods are three years in length. The current period is 1/1/2017 - 12/31/2019 and the next period will be 1/1/2020 - 12/31/2022. Cycles are nine years in length. The current cycle is from 1/1/2011 - 12/31/2019 and the next cycle is 1/1/2020 - 12/31/2028.
2) Periods for radionuclides (gross alpha, radium 226/228, and uranium) are three or six years in length. The current 6 year period is 01/01/2014 - 12/31/2019, the next 6 year period will be 01/01/2020 - 12/31/2025. Cycles for radionuclides are nine years in length. The current cycle is from 01/01/2017 - 12/31/2025 and the next cycle is 01/01/2026 - 12/31/2034.
3) WL (well) or TP (treatment plant) is the entry point to the distribution system, except for raw water samples and WL (well) is the raw water tap. DS (distribution system) is the home and buildings that receive water from a piped water system.
4) Water quality parameters are tested in order to conduct a corrosion control study. Please contact your engineer, health corporation, or certified laboratories for assistance.
5) Lead/Copper samples on an annual or 3 year schedule should be collected in month of warmest water temperature.
6) Water systems with multiple water sources that do not combine before entering the distribution must take one sample from each entry point to the distribution and may do a composite sample according to 18AAC80.325(17), 18AAC80.315(4).
7) SOC waiver renewal forms are due every three year period. SOC waiver, new and renewal, forms can be found at http://www.dec.alaska.gov/eh/dw/publications/forms.html.
8) Each public water system is required to have a water operator (or operators) certified at or above the drinking water treatment and drinking water distribution level assigned to the system. To check on current level of certification for your water operator please see the Alaska Certified Water/Wastewater Operator Database maintained by the Division of Water: https://dec.alaska.gov/Applications/Water/OpCert/Home.aspx?p=OperatorSearch. If you have questions regarding the water system level or the operator certification level please contact Operator Certification at 907-465-1139 or at dec.water.fco.opcert@alaska.gov.

Monitoring summaries reflect sampling information the Drinking Water Program receives from certified laboratories and public water systems. If you notice any errors in this data, please contact your local ADEC Drinking Water Program office. Public water systems are responsible for compliance with monitoring requirements.

Monitoring summary completed by Rachel Westbrook, Environmental Specialist/ADEC. If you have any questions please contact ADEC at (907) 269-8924 or (866) 956-7656 Email: rachel.westbrook@alaska.gov Fax: (907) 269-7650.

Sincerely,

Rachel Westbrook
Environmental Specialist

Appendix I

Compliance Schedule Type	Definition
Annual Watershed Report	Document detailing progress toward achieving watershed protection and improvement, summarizing important milestones achieved annually and highlighting future implementation priorities.
Boil Water Notice	Boil Water Notices (BWN) are issued to protect consumers from drinking water when a threat to public health has been confirmed such as the detection of *E. coli*, inadequate pressure, or for emergency situations like flooding where there is a potential to allow for contamination into the drinking water.
Compliance Order by Consent	Formal enforcement action schedule to correct violations or other issues causing the PWS to be out of compliance with the state or federal regulations.
Compliance Schedule Date	A general purpose compliance schedule that lists tasks that must be completed and the dates by which the tasks must be completed.
Consumer Confidence Report	Schedule for when the Consumer Confidence Report (CCR) and certification form is due. All Community Water Systems are required to submit a CCR each year.
Correct Sanitary Defect	Schedule outlining sanitary defects that need to be corrected following a RTCR Level 1 or Level 2 Assessment.
DBP Stage 2 Reports	A general purpose compliance schedule for various aspects of the Stage 2 D/DBPR.
Emergency Preparedness Regulation	Schedule outlining when the emergency preparedness plans (VA/ERP or PMP) certification forms are due to the state.
Ground Water Rule	A general purpose compliance schedule for various aspects of the Ground Water Rule.
Install Treatment	Treatment must be installed to meet state and/or federal regulations.
Lead/Copper Exceedance	Action items to be completed after a lead/copper action level exceedance including but not limited to conducting water quality parameter monitoring, collecting source water samples, submitting an optimal corrosion control treatment recommendation and delivering public education.
Lead/Copper Sample Pool	Schedule for submitting a Lead and Copper Sample Pool Plan.
LT2	A schedule for systems subject to the Long Term 2 Enhanced Surface Water Treatment Rule (LT2) requiring a monitoring plan for source water sampling.
Notice of Violation	Formal enforcement schedule that outlines actions that need to be taken in order to correct violations or other issues causing the PWS to be out of compliance with the state or federal regulations. Failure to meet deadlines can result in an administrative penalty (fine).
Public Notice	An alert delivered to consumers by a PWS when problems with drinking water pose a risk to human health.
RTCR Level 1 Assessment	Schedule outlining the due date for the RTCR Level 1 Assessment form.
RTCR Level 2 Assessment	Schedule outlining the due date for the RTCR Level 2 Assessment form.
Sample Siting Plan	Schedule for creating or updating a Total Coliform Sample Siting Plan.
Sanitary Survey Corrective Actions	Outlines when corrective actions are due for any significant or minor deficiencies that were identified during a Sanitary Survey.
Seasonal Start Up	Schedule for water systems operating seasonally to complete the required start up procedure.
SOC	A compliance schedule for systems planning to apply for a SOC waiver that will need to submit an initial SOC waiver application.
DBP Operational Evaluation Level (OEL) Report	An OEL is calculated using Stage 2 DBPR compliance monitoring data. If an OEL exceedance occurs, an operational evaluation report must be submitted to the State.