DRINKING WATER SAMPLING



AVAILABLE RESOURCES

- EPA's "Quick Guide to Drinking Water Sample Collection"
- EPA's "Lead and Copper Rule Monitoring and Reporting Guidance for Public Water Systems"
- Ohio EPA Division of Drinking and Ground Waters (<u>https://epa.ohio.gov/ddagw/pws</u>)
- Alloway (<u>www.alloway.com</u>)

MONITORING SCHEDULES

https://epa.ohio.gov/ddagw/pws#129177381-current-monitoring-schedules

approximately 11 million people daily. Public water systems are required to monitor their water regulary for contaminants. Currently, more than 95 percent of community water systems meet all health-based standards. When a system doesn't meet a standard, consumers are notified.



Search for public water system

monitoring schedules



View current public drinking water advisories

	Basics	Advisories and Appare	ent Violations	Monito	ring and Repor	ting	
ĺ	Consum	er Confidence Reports	Asset Manag	gement	Resources	Spi	got Newsletter

Monitoring and Reporting

View monitoring schedules using the drop-down list below. The list will be updated whenever revised schedules are generated. If you have any questions regarding specific monitoring requirements, please contact one of the following staff at (614) 644-2752:

- Sara Starr disinfection by-products (DBPs)
- Emilie Eskridge volatile organic compounds (VOCs); synthetic organic compounds (SOCs)
- Kathy Pinto inorganics; asbestos; radiologicals
- Anne Speakman nitrate / nitrite
- Local Ohio EPA district office total coliform bacteria; lead and copper

Current Monitoring Schedules

2018 MONITORING SCHEDULES BY COUNTY

Adams Allen Ashland Ashtabula Athens Auglaize Belmont Brown Butler Carroll Champaign Clark Clermont Clirton Columbiana Coshocton Crawford	Darke Defiance Delaware Erie Fairfield Franklin Fulton Gallia Geauga Greene Guernsey Hamilton Hancock Hardin Harrison Henry	Hocking Holmes Huron Jackson Knox Lake Lake Lawrence Licking Logan Logan Lucas Madison Mahoning Marion Medina Meigs	Miami Monroe Montgomery Morgan Morrow Muskingum Noble Ottawa Paulding Perry Pickaway Pike Portage Preble Putnam Richland Ross	Scioto Seneca Shelby Stark Summit Trumbull Tuscarawas Union Van Wert Vinton Warren Warren Warren Washington Wayne Williams Wood Wyandot
Cuyahoga	Highland	Mercer	Sandusky	

2018 REVISED SCHEDULES BY MONTH

Revised Iotal Coliform Rule Forms and Instructions

- Operator Certification Exam Information, Contact Hours, Operator Lists
- Rules Rules, Laws, Policies and Guidance
- Engineering and Plan Approval Current versions of related documents and forms
- Reporting eDWR, eBusiness Center, Forms
- Drinking Water Watch Drinking water data and public water system inventory
- Laboratory Certification Certified Labs and Sample Analysis

Enforcement PWSs, Operators, UIC, Labs, Certified Analysts

DDAGW Site Links

Select an item and click "Go" to navigate Go ۳

Spill Hotline Report a spill, release or environmental emergency







OH510 System Type	e: Community	Operating Period: 1/1 to 12/3	1
ENTRY PO	DINT MONITORING SCHED	LE	
Sampling Location	Facility ID: SMP ID: EP001 Fa	Facility Name: Facility Class: CL	_ASS A
THIS SCHEDUI Contact your dis Also, monitoring	LE MAY NOT INCLUDE ALL MONITOR strict office to review additional monitorin schedules may be revised during the year	G REQUIREMENTS FOR YOUR SYSTEM. for operating parameters, and/or other monitoring requirements not included on this scheor r based on sampling results.	dule.
** REMINDER:	For water eme ** Consumer Confidence Report (CCF	jencies that occur after hours, please call 800-282-9378 is due July 1, 2018	
Chemicals		Monitoring Requirements	
INORGANICS	a analytes listed below:	1 Sample(s) Required between 6/1/2018 and 10/31/2018	
ANTIMONY, TOTA CYANIDE - 1024	AL - 1074 ARSENIC - 1005 BARIUM - 1 FLUORIDE - 1025 MERCURY - 1035	0 BERYLLIUM, TOTAL - 1075 CADMIUM - 1015 CHROMIUM - 1020 CKEL - 1036 SELENIUM - 1045 THALLIUM, TOTAL - 1085	
NITRITE - 104	11	Not Required	
NITRATE - 104	40	1 Sample(s) Required between 6/1/2018 and 10/31/2018	
RADIOLOGIC	ALS	Not Required	
SYNTHETIC C	DRGANIC CHEMICALS (SOC) GROU	1 Not Required	
VOLATILE OR	RGANIC CHEMICALS (VOC)	1 Sample(s) Required between 7/1/2018 and 9/30/2018	



OH51d

System Type: Community

Operating Period: 1/1 to 12/31

Ground Water Rule Substantial System

THIS SCHEDULE MAY NOT INCLUDE ALL MONITORING REQUIREMENTS FOR YOUR SYSTEM.

Contact your district office to review additional monitoring for operating parameters, and/or other monitoring requirements not included on this schedule. Also, monitoring schedules may be revised during the year based on sampling results.

For water emergencies that occur after hours, please call 800-282-9378

** <u>REMINDER</u>: ** Consumer Confidence Report (CCR) is due July 1, 2018

DISTRIBUTION MONITORING SCHEDULE

Sampling Location	Facility ID: DS1 SMP ID: DS202	Facility Name:			Facility Class: CLASS 1
Chemicals			Monitoring Requirements		
DISINFECTIO	ON BYPRODUCTS		Dual Sample Required between	7/1/2018	and 9/30/2018 at: DS202
Sample for all the	analytes listed below:		 Control Control C		
 TOTAL HALOA TTHM - 2950 	ACETIC ACIDS (HAA5) – 2	456			

Sampling Location	Facility ID: DS1 SMP ID: LC###	Facility Name: Refer to your Lead and Copper plan for SMP IDs			Facility Class: CLASS 1
Chemicals		Monitoring Requirements			
LEAD - 1030	AND COPPER - 1022	10 Sample(s) Required between	6/1/2018	and	9/30/2018
Lead consum	er notice must be com	pleted no later than two business days after receipt of the same	ole results.	The v	verification form for

consumer notice must be submitted to Ohio EPA no later than five business days after receipt of the sample results. The vehication form for monitoring point (SMP) IDs (LC###) must be current and reflect properly tiered sites according to OAC Rule 3745-81-86. Submit lead and copper SMP ID revisions to your Ohio EPA District Office. Forms and templates are available online at http://epa.ohio.gov/ddagw/pws/leadandcopper.aspx. For questions contact your Ohio EPA District Office representative.

BOTTLE ORDERS

- How to place a bottle order
 - Call Alloway at (800)-436-1243
 - Email Julie Bigford(<u>julie.bigford@alloway.com</u>) or Amanda Retterer(<u>amanda.webb@alloway.com</u>)
 - Fax bottle order to (740)389-1481
 - Know what bottles you need when you place your order. Use your Monitoring Schedule as a reference. Bottles require specific preservation and volume according to analysis.
 - **Always verify bottle order when you receive it**

SPECIFIC SAMPLING PROTOCOLS

SAMPLING

- Wear nitrile gloves when sampling
- Be aware of the preservatives in the containers you are working with
- Have paperwork ready to fill out after sampling is completed
 - Fill out as much as you can prior to going to your sampling site
- Know the temperature requirements of samples being drawn

MICROBIOLOGICAL

- Need at least 100 ML of sample (fill to line)
- Total Coliform has a hold time of 30 hours
- A completed SSR form should accompany any sample that is being submitted to the EPA
- <u>Check with the</u> <u>Laboratory for</u> <u>acceptance days and</u> <u>times!</u>



CYANIDE

- Sample hold time is 14 days
- Sample needs to be collected in a 500 ml plastic container preserved with ascorbic acid
- After sample is collected shake to distribute ascorbic acid
- Sodium hydroxide pellets attached to side of bottle then need to be added and shake until dissolved
- Ice sample immediately



METALS

- Metals have a 6-month hold time when preserved with nitric acid
- EXCEPTION: Mercury has a hold time of 28 days
- Dissolved metals must be collected in a nonpreserved container and filtered in the laboratory
- Metals are digested if the turbidity is greater than 1 NTU



LEAD AND COPPER

- Lead and Copper must be collected in a quart-size (1L) container for compliance purposes
- Per EPA requirements, these samples <u>must be first</u> <u>draw</u>
- Currently, laboratories are required to submit results directly to the EPA for lead and copper
- ALL OPERATORS AND PWS STAFF RESPONSIBLE FOR COMPLIANCE MONITORING SHOULD BE WELL VERSED ON THE EPA GUIDANCE DOCUMENTS AND REPORTING REQUIREMENTS CONCERNING LEAD AND COPPER!

RADIOLOGICALS

- Similar to metals
- Preserved with nitric acid
- Stable up to 6 months
- Collect in a plastic gallon-size container
- This covers gross alpha, beta and radium 226-228



VOLATILE ORGANICS AND TRIHALOMETHANES (THM's)

- It is key that you do not have any air bubbles and that the preservative does not overflow
- Recommend filling 3-4 vials per sample with zero headspace
- Keep chilled to below 6 °C



VOLATILE ORGANICS AND TRIHALOMETHANES (THM's)





SYNTHETIC ORGANICS

- Includes a wide variety of test methods,
 - Methods for drinking water: 504.1, 508, 515.1, 525.2, 531.2, 547, 548 and 549.2
 - Other methods exist to cover additional compounds
 - This includes pesticides, herbicides, semi-volatiles, and other contaminants
 - Method 552.2 is for the determination of haloacetic acids (HAA5s), which are disinfectant by-products
 - Most of the synthetic organics require sodium thiosulfate as a preservative

PAPERWORK

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orient response NALVITICAL RESULTS - Parasetrs : Aluminum, total Antimony, total Antestos, -10um Barium, total Barylum, total Berylum, total Berylum, total Caderium, total Caderium, total Caderium, total Chattes, total	INORGANIC CHE Cast. ID 1002 1074 1005 1094 1010 1075 1075 1075 1015 1015	Sign	ALS: Result	Unit • g/L • g/L	Azalysis Dote	Method	Analyst Number
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CHAIN OF CUSTODY

- The chain of custody is a legal document that relinquishes samples from the client to the laboratory.
- It is critical to complete all dates, times and pertinent sampling information.
- Sign and date the Chain of Custody.
- If necessary, public water supplies may need to provide the laboratory with the respective Sample Submission Report (SSR)



Chain of Custody Record

This is a legal document that authorizes Alloway to perform testing on samples submitted under this agreement.

1101 North Cole Street, Lima, OH 45805 (P) 419-223-1362 (F) 419-227-3792
 1776 Marion-Waldo Road, Marion OH 43302 (P) 740-389-5991 (F) 740-389-1481
 508 Bissman Court, Mansfield, OH 44903 (P) 419-525-1644 (F) 419-524-5575

Repo	rt To:			Invoice To (If	Different):							Notes/C	om m ents:		
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2									Fed Ex 🗖		dw - drinking water sw - surface water	2 - HNO3	8 - Ascorbic Acid	14 - Sodium Sulfite	Ice Present?
3									Client 🗖		w - water oil - oil	3 - H2SO4	9 - Maleic Acid	15 - Potassium Dihydrogen Citrate	YO NO
4									Alloway Pick Up	0	s - solid sg - sludge	4 - HCI	10 - EDA	16 - Sodium Sulfite/Sodium Bisulfate	Proper Preservation?
5									Alloway Samplin	ig 🗖	l - leachate a - acid	5 - NaOH	11 - Ammonium Chloride		YONO
6									Other 🗖		p - product o - other	6 - NaOH & Zinc Acetate	12 - (NH₄)₂SO₄ & NH₄OH		
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Report To: Name: John A. Doe company: Village of Anywhere Address: 100 N. River St. Anywhere Ohio 43801	Involce Name: Compar Address	ny: V s: F	ane M. S fillage of P.O. Box anywhere	Smith Anywhen 800 e Ohio 438	8 301 Yo	Please fax i	results Thank	Notes/ (s! U in to	comments: se the not formation know. Th	tes for a that you ne more	ny additional J want the lab specific you
Phone #: 123-456-7890 E-mail: johnadoe@anyw	rax hereoh.ce	#: <u>321-45</u>	6-7899			mber (PO#)	Tutnara	ar pr	e, the bet ovide	tter servi	ice we can
Sampler John A. Doe	sense fo	or what you	u're sai	mpling.	This is f	Next Da	ay ⊡ 31. /s ⊡ 51.	Working Day	/s Cl /s Cl	R	standard TAT,
Customer Sample tD / Sample Location	Sample Sam Date Tim	e Composite	Grab	Matrix Code	Number of Containers	Preservation Code #		alysis Requ	lired		Al first. Not all
2 EP001	4/1/13 1055		x	dw	6	2.3.7.11	TTHM's/HA	A5's,N	litrate,Pb	,Cu	rush. There
If you have multiple bottles for one sample, you can keep it on one line if you filled the bottles within a few minutes of each other. Record the latest time as	Indicate if	it was a c	1 ompos	ite or		It is imp specify Some t	portant to the matrix. ests can be		Be spec example write "m specify"	cific. For e, don't j netals" which	charge ust associated with a rush sample
the sample time. If they were filled more than a few minutes apart, use different lines.	sample da	ate and tim	ie.			perform multiple Use the approp	ned on e matrices. e riate code.		metals. abbrevia standare abbrevia	If you ate, use d chemic ations.	cal
Relinquished by: 1 Annalor I. I. U.L.	Received by:			Date	Time	Method of Delivery	Matrix Codes: ww-wastewater	F	reservation Co	des:	Sample Receiving (For Lab Use Only)
2 3 5	veryone who h	andles the	the e			UPS 🗖 Fed Ex 🖨 Client 🗅	gw - groundwater dw - drinking water sw - surface water w - water oil - oil	1 - None 2 - HNO ₃ 3 - H ₂ SO4	Thiosulfate 8 - Ascorbio Acid 9 - Maleic Acid	13 - Zino Acetate 14 - Sodium Suillite 15 - Potaaslum Dihydrogen Cifrate	lce Present? Y D N D
4C						Alloway Pick Up 📾 Alloway Sampling 🗅	s - solid sg - sludge I - leachate a - acid	4 - HCI 6 - NaDH	10 - EDA I I 11 - Ammanium Chiorid a	19 - Sodium Svifite/Sodium Bleulfate	Proper Preservation? Y CI N CI
[◦] Received for Laboratory By: (circle o (Signature)	ne): Mansfield	Lima Ma	rion			other □ If you make out your erro	a mistake, do or. It is easies	zinc Accetate O not v st to st	white out of art with a	or scratc fresh	h Fontainer Temperature:
Transported to: Lima Marion	By:	White - Lab Co	ру	Re	Yellow - Client	through the it was correc	error, make t	he cor	rection, n	iote why	

*If you need more than 8 sample lines, use an additional chain of custody.

Sample Submission Report (SSR)

	atown		L JUDIMIJ	JUN KEP U	KI (SSK)
vision of Drinking and Ground W	alers ·	4			
AIL COMPLETED REPORT	TO:	LABORATO	RY INFORMATI	ION:	
hio EPA, Division of Drinking a	nd Ground Waters	Reporting Lab			ID::
22 South Front Street	· · · ·	Analytical Lab	: <u></u>	l	_ ID:
O. Box 1049		Reporting Lab	Sample #		
olumbus, Ohio 43216-1049		Sample Receiv	ed Date:	QC Complete	d Date:
UBLIC WATER SYSTEM IN	FORMATION:	. QC complete			
WS Name:		_ SAMPLE IN	FORMATION:		
TU Name:		Sample Monit	oring Point: EP_	RS	Other
WSID #: S'	TU #:	Sample Collect	tion Date:	Tim	ie:
ddress:	· · · · · · · · · · · · · · · · · · ·	Sample Purpo	se: Compliance	Resample	New Well
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ounty:		Sample Collec	ted by:		
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ontact Phone:	·····	SAMPLEIC	CATION DESCI	י אין געטנדפוס	EMADKC.
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reservation Location: Field	Laboratory No	ne		e e e e e e e e e e e e e e e e e e e	
reservation Type:			···· ·· ·· · · · · · · · · · · · · ·		
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FILTERED . CED .	ИН4СТ	- N		S	
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OTHER (Explain)					1.5
OTHER (Explain)				·	
OTHER (Explain)	NORGANIC CHEMI	CALS:			
OTHER (Exploin)	Cont. 1D Sig	CALS:	Analysis Date	Method	Analyst Number
OTHER (Explain)	ORGANIC CHEMI Cont. ID Sig 1002	CALS: 21 Result Unit 9/L	Analysis Date	Method	Analyst Number
OTER (Explain) INALYTICAL RESULTS - IN Parameters Aluminum, total Antimony, total	Corganic Chemic Cont. ID Sig 1002 1074	CALS: 20 Result Unit • g/L • g/L	Analysis Date	Method	Analyst Number
OTHER (Explain) NALYTICAL RESULTS - IN Parameters Aluminum, total Antimony, total Arsenic, total	Cont. 1D Sig 1002 1074 1005	CALS: zu Result Unit • g/L • g/L • a/L	Analysis Date	Method .	Analyst Number
OTHER (Explini) NALYTICAL RESULTS - IN Parameters Aluminum, total Antimony, total Arsenic, total Asbestos, >10um	Cont. 1D Sig 1002 1074 1005 1095	CALS: 2n Result Unit 9/L 9/L 9/L MF/L	Analysis Date	Method -	Analyst Number
OTHER (Explain) NALYTICAL RESULTS - IN Parameters Aluminum, total Antimony, total Arsenic, total Asbestos, >10um Barium total	Conc. 1D Sig 1002 1074 1005 1094 1010	CALS: 21 Result Unit 9/L 9/L 9/L 0/L 0/L	Analysis Date	Method	Analyst Number
OTER (Explain) INALYTICAL RESULTS - IN Parameters Aluminum, total Antimony, total Arsenic, total Asbestos, >10um Barium, total Barulium total	Corganic Chemic Cont. 1D Sig 1002 1074 1005 1094 1010 1075	CALS: Ta Result Unit 9/L 9/L 9/L 9/L 9/L 9/L 0/L 0/L 0/L	Analysis Date	Method -	Analyst Number
OTHER (Explini) NALYTICAL RESULTS - IN Parameters Aluminum, total Antimony, total Arsenic, total Asbestos, >10um Barium, total Beryllium, total Bismuth	Cont. ID Sig 1002 1074 1005 1094 1010 1075	CALS: 21 Result Unit 9/L 9/L 9/L 0/L 0/L 0/L 0/L	Analysis Date	Method -	Analyst Number
OTHER (Explain) NALYTICAL RESULTS - IN Parameters Aluminum, total Antimony, total Arsenic, total Asbestos, >10um Barium, total Beryllium, total Besyllium, total Beryllium, total	Cont. ID Sig 1002 1074 1005 1094 1010 1075 1078	CALS: 20 Result Unit 9/L 9/L 9/L 9/L 0/L 0/L 0/L 0/L 0/L 0/L 0/L 0	Analysis Date	Method -	Analyst Number
OTHER (Explain) NALYTICAL RESULTS - IN Parameters Aluminum, total Antimony, total Arsenic, total Asbestos, >10um Barium, total Beryllium, total Bismuth Boron, total Condmismer total	Conc. 1D Sig 1002 1074 1005 1094 1010 1075 1078 1078	CALS: 2n Result Unit 9/L 9/L 9/L 9/L 0/L 0/L 0/L 0/L 0/L 0/L 0/L 0	Analysis Date	Method -	Analyst Number
OTHER (Explini) NALYTICAL RESULTS - IN Parameters Aluminum, total Antimony, total Arsenic, total Asbestos, >10um Barium, total Beryllium, total Bismuth Boron, total Cadmium, total	Conc. 1D Sig 1002 1074 1005 1094 1010 1075 1078 1079 1015	CALS: Ta Result Unit 9/L 9/L 9/L 9/L 9/L 9/L 9/L 9/L	Analysis Date	Method'	Analyst Number
OTHER (Explini) NALYTICAL RESULTS - IN Parameters Aluminum, total Antimony, total Arsenic, total Asbestos, >10um Barium, total Beryllium, total Bismuth Boron, total Cadmium, total Calcium, total	Cont. ID Sig 1002 1074 1005 1074 1094 1010 1075 1078 1079 1079 1015 1016	CALS: 2n Result Unit 9/L 9/L 9/L 9/L 9/L 9/L 9/L 9/L	Analysis Date	Method	Analyst Number
OTHER (Explain) NALYTICAL RESULTS - IN Parameters Aluminum, total Antimony, total Arsenic, total Asbestos, >10um Barium, total Beryllium, total Bismuth Boron, total Cadmium, total Calcium, total Chloride, total	Cont. ID Sig 1002 1074 1005 1094 1094 1010 1075 1078 1078 1078 1078 1078 1078 1078 1075 1016 1016	CALS: 20 Result Unit 9/L 9/L 9/L 9/L 9/L 9/L 9/L 9/L	Analysis Date	Method -	Analyst Number
OTHER (Explain) NALYTICAL RESULTS - IN Parameters Aluminum, total Antimony, total Arsenic, total Asbestos, >10um Barium, total Beryllium, total Bismuth Boron, total Cadnium, total Chloride, total Chloride, total Chromium, hexavalent	Cont. 1D Sig 1002 1074 1005 1094 1010 1075 1078 1079 1015 1016 1017 1080	CALS: 20 Result Unit 9 g/L 9 g/L	Analysis Date	Method -	Analyst Number
OTHER (Explini) NALYTICAL RESULTS - IN Parameters Aluminum, total Antimony, total Arsenic, total Asbestos, >10um Barium, total Beryllium, total Boron, total Cadmium, total Calcium, total Chloride, total Chromium, hexavalent Chromium, total	Const. ID Sig 1002 1074 1005 1094 1005 1094 1010 1075 1078 1079 1015 1016 1016 1017 1080 1020	CALS: Ta Result Unit 9/L 9/L 9/L 9/L 9/L 9/L 9/L 9/L	Analysis Date	Method'	Analyst Number
TREP (Explain) NALYTICAL RESULTS - IN Parameters Aluminum, total Antimony, total Arsenic, total Asbestos, >10um Barium, total Beryllium, total Beryllium, total Boron, total Cadmium, total Calcium, total Chloride, total Chromium, hexavalent Chromium, total Choridi, total Choridi, total Chromium, total Choridi, total	Cont. ID Sig 1002 1074 1005 1094 1010 1076 1078 1079 1075 1078 1079 1015 1016 1017 1016 1017 1080 1020 1081	CALS: 20 Result Unit 9/L 9/L 9/L 9/L 9/L 9/L 9/L 9/L	Analysis Date	Method -	Analyst Number
OTHER (Explain) NALYTICAL RESULTS - IN Parameters Aluminum, total Antimony, total Arsenic, total Asbestos, >10um Barium, total Beryllium, total Beryllium, total Bismuth Boron, total Cadmium, total Chloride, total Chhoride, total Chhoride, total Cobalt, total Copper, total	Cont. ID Sig 1002 1074 1005 1094 1010 1075 1078 1079 1016 1016 1017 1016 1017 1018 1017 1080 1020 1081 1021	CALS: 20 Result Unit 9/L 9/L 9/L 9/L 9/L 9/L 9/L 9/L	Analysis Date	Method -	Analyst Number
OTHER (Explini)	Cont. 1D Sig 1002 1074 1005 1094 1005 1094 1015 1078 1079 1015 1016 1017 1016 1017 1080 1020 1081 1022 1023	CALS: Ta Result Unit 9/L 9/L 9/L 9/L 9/L 9/L 9/L 9/L		Method	Analyst Number
OTHER (Explini) NALYTICAL RESULTS - IN Parameters Aiuminum, total Antimony, total Arsenic, total Asbestos, >10um Barium, total Beryllium, total Beryllium, total Cadmium, total Cadmium, total Chloride, total Chloride, total Choronium, hexavalent Choronium, total Cobalt, total Coyner, total Cyanide, free Cvanide, total	Cont. ID Sig 1002 1074 1005 1074 1094 1010 1075 1078 1079 1015 1016 1017 1016 1017 1080 1020 1081 1022 1023 1024	CALS: 20 Result Unit 9/L 9/L 9/L 9/L 9/L 9/L 9/L 9/L	Analysis Date	Method	Analyst Number
OTHER (Explain) NALYTICAL RESULTS - IN Parameters Aluminum, total Antimony, total Arsenic, total Asbestos, >10um Barium, total Beryllium, total Beryllium, total Beryllium, total Cadmium, total Cadmium, total Calcium, total Chloride, total Chormium, hexavalent Chromium, hexavalent Choromium, total Coper, total Coyanide, free Cyanide, total	Cont. ID Sig 1002 1074 1005 1094 1076 1078 1078 1078 1078 1078 1078 1078 1078 1078 1078 1078 1078 1075 1078 1075 1078 1072 1080 1020 1081 1022 1023 1024 1025	CALS: 20 Result Unit 9/L 9/L 9/L 9/L 9/L 9/L 9/L 9/L	Analysis Date	Method -	Analyst Number
OTHER (Explini)	Cont. ID Sig 1002 1074 1005 1094 1010 1075 1078 1079 1015 1078 1079 1016 1017 1016 1017 1016 1017 1020 1081 1022 1022 1022 1023 1024 1025	CALS: Ta Result Unit 9/L 9/L 9/L 9/L 9/L 9/L 9/L 9/L		Method -	Analyst Number
OTHER (Explin) NALYTICAL RESULTS - IN Parameters Aiuminum, total Antimony, total Arsenic, total Asbestos, >10um Barium, total Beryllium, total Beryllium, total Boron, total Cadmium, total Calcium, total Chloride, total Choronium, hexavalent Choronium, total Cobalt, total Cyanide, free Cyanide, total Fluoride, total Iron, total	Cont. ID Sig Cont. ID Sig 1002 1074 1005 1074 1075 1078 1079 1075 1078 1079 1015 1016 1017 1016 1017 1020 1020 1021 1022 1023 1024 1024 1025 1028	CALS: 20 Result Unit 9/L 9/L 9/L 9/L 9/L 9/L 9/L 9/L	Analysis Date	Method	Analyst Number
OTHER (Explini) NALYTICAL RESULTS - IN Parameters Aiuminum, total Antimony, total Arsenic, total Asbestos, >10um Barium, total Beryllium, total Beryllium, total Beryllium, total Cadmium, total Cadmium, total Cadmium, total Calcium, total Chloride, total Chhoride, total Chormium, total Copper, total Copper, total Cyanide, free Cyanide, total Iron, total Iron, dissolved	Cont. ID Sig Cont. ID Sig 1002 1074 1005 1094 1010 1075 1078 1079 1015 1016 1017 1016 1017 1016 1017 1080 1020 1021 1022 1023 1024 1025 1028 1082	CALS: Ta Result Unit • g/L • g/L	Analysis Date	Method	Analyst Number
OTHER (Explini) NALYTICAL RESULTS - IN Parameters Aluminum, total Antimony, total Arsenic, total Asbestos, >10um Barium, total Beroin, total Beroin, total Cadmium, total Cadmium, total Cadmium, total Choride, total Copper, total Copper, total Copper, total Cyanide, free Cyanide, free Cyanide, total Iron, total Iron, total Iron, total	Cont. ID Sig 1002 1074 1005 1094 1010 1076 1078 1078 1079 1016 1077 1016 1078 1079 1016 1079 1016 1017 1080 1020 1081 1022 1023 1024 1024 1025 1028 1028	CALS: 20 Result Unit 9/L 9/L 9/L 9/L 9/L 9/L 9/L 9/L	Analysis Date	Method -	Analyst Number
TREP: (Explini) NALYTICAL RESULTS - IN Parameters Aluminum, total Arsenic, total Arsenic, total Barium, total Beryllium, total Beryllium, total Boron, total Cadmium, total Cadmium, total Chloride, total Chromium, hexavalent Chromium, total Cobalt, total Coper, total Fluoride, total Fluoride, total Iron, total Iron, total Lithium, total	Cont. ID Sig Cont. ID Sig 1002 1074 1005 1074 1005 1075 1078 1079 1075 1078 1079 1015 1016 1017 1080 1020 1081 1022 1024 1024 1025 1028 1030 1030 1083	CALS: 20 Result Unit 9/L 9/L 9/L 9/L 9/L 9/L 9/L 9/L		Method	Analyst Number
TREP (Explin) NALYTICAL RESULTS - IN Parameters Aiuminum, total Antimony, total Arsenic, total Asbestos, >10um Barium, total Beryllium, total Bismuth Boron, total Cadmium, total Calcium, total Chloride, total Chromium, hexavalent Chromium, total Cobalt, total Copper, total Copper, total Cyanide, free Cyanide, total Iron, total Iron, dissolved Lead, total Lithlum, total Manganese, total	Cont. ID Sig 1002 1074 1005 1094 1010 1075 1078 1079 1075 1078 1079 1015 1016 1017 1016 1017 1016 1017 1020 1020 1020 1020 1022 1023 1022 1023 1022 1023 1025 1028 1082 1032	CALS: Ta Result Unit 9/L 9/L 9/L 9/L 9/L 9/L 9/L 9/L	Analysis Date	Method	Analyst Number

EPA 5020 (Rev 10/99)



Division of Drinking and Ground Waters

MAIL COMPLETED REPORT TO:

Ohio EPA, Division of Drinking and Ground Waters 122 South Front Street P.O. Box 1049 Columbus, Ohio 43216-1049

PUBLIC WATER SYSTEM INFORMATION:

PWS Name:		
STU Name:		
`PWSID#:	STU #:	
Address:	3	
<i></i>		
County:	2	
Contact Person:		252
Contact Phone:		•

INORGANIC CHEMICAL SAMPLE SUBMISSION REPORT (SSR)

LABORATORY INFORMATION:

Reporting Lab:			ID: .	¥ (а Т	
Analytical Lab:	8 	1	ID:			
Reporting Lab Sample #		N 8929				
Sample Received Date:	_ QC	Complet	ed Date:		<u> </u>	
QC Completed by:						ł

SAMPLE INFORMATION:

Sample Monitoring Point:	EP	RS	Other	.'
Sample Collection Date:		Time		
Sample Purpose: Compl	liance 🔲 F	lesamplė[New Well	
Sample Collected by:				
Repeat for Sample #:	<u> </u>	-	•••••	•

SAMPLE LOCATION DESCRIPTION/LAB REMARKS:

ANALYIICAL INF	ORMATION;		· .					.
Preservation Location	: 🗌 Field 🔲 L	aboratory 🗌 None		52 57 S		ани. 2016 г. ани 2016 г.		
Preservation Type:		аналынандан жараштар алтаналар алтаналар колон байлан Каландан каландан кал			i		·····	an a c
ASCORBIC ACID	Нсг	NAOH .						1.
CICH2COOH	П ниоз	NAS .		50	•		а . С	
FILTERED		NH4CL ·	i sa	20	2 2		2000 A. 10	1
H2SO4	NA20352	UNPRESERVED	at se	<u>5</u> 2	00000	12	1 10	
OTHER (Explain)				\overline{U}			а.	
					÷	<u>.</u>		



OH

SAMPLE INFORMATION:

— Routine (compliance)

Sample Collection Time:

Sample Collector Name: Sample Collector Phone: Street Address and Tap Location:

Original Routine Positive Sample #_ Special (not for compliance) Sample Collection Date:

Northeast District Office

Twinsburg, Ohio 44087 (330) 963-1200 FAX (330) 963-4760

mm/dd/yyyy

hh:mm am/pm

2110 East Aurora Road

PUBLIC WATER SYSTEM INFORMATION:

-- Repeat (confirm positive sample compliance)



MICROBIOLOGICAL SAMPLE SUBMISSION REPORT (SSR)

Central District Office 50 W Town St Columbus Ohio 43215 (614) 728-3778 FAX (614) 728-0160

PWS ID:

PWS Name: Address: City, State, Zip: County:

Sample Type:

Northwest District Office 347 North Dunbridge Road Bowling Green, Ohio 43402 (419) 352-8461 FAX (419) 352-8468 Southwest District Office 401 East Fifth Street Dayton, Ohio 45402-2911 (937) 285-6357 FAX (937) 285-6249

Southeast District Office 2195 Front Street Logan, Ohio 43138 (740) 385-8501 FAX (740) 385-6490

LABORATORY INFORMATION:

Reporting Lab Name:	Allow	vay - Marion	
Reporting Lab Certification	No.:	838	
Lab Sample Number:			

Comments:



Free Chlorine Residual: Total Chlorine Residual:

Community Downline

Analyte	Absent / Negative	Present/ Positive	Analysis start date/time	Analysis end date/time	Analytical Lab ID#	Analyst #	Method Used
Total Coliform (3100)					838		9223B-PA
E. Coli. (3014)					838		9223B-PA
Fecal Coliform (3013)							

--Requester cancelled --Requester cancelled

Data Quality Results:

--Instrument Failur --Lab not certified --Instrument Failure --Water Sys --Water System requested

Person to Receive Result/Invoice:	Sampler's Signature:		
Name: Company: Address: City / State / Zip:	This is your Invoice	Receipt Cash \$ Check #\$ Credit Card \$	Date Received:
Phone: Fax: E-mail:	Plea Allowa 1776 Marion-Wald Phone: (740) 389-5 www	(MC V 13A) use Remit to: y – Marion Lab o Rd. ● Marion, OH 43302 991 ● Fax: (740) 389-1481 alloway.com	Received By:

Microbiological Sample Submission Report



Division of Drinking and Ground Waters

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MICROBIOLOGICAL SAMPLE SUBMISSION REPORT (SSR)

Central District	Office
50 W Town St	
Columbus Ohio	43215
(614) 728-3778	FAX (614) 728-0160

Northeast District Office 2110 East Aurora Road Twinsburg, Ohio 44087 (330) 963-1200 FAX (330) 963-4760

Northwest District Office 347 North Dunbridge Road Bowling Green, Ohio 43402 (419) 352-8461 FAX (419) 352-8468

Southwest District Office 401 East Fifth Street Dayton, Ohio 45402-2911 (937) 285-6357 FAX (937) 285-6249

Southeast District Office 2195 Front Street Logan, Ohio 43138 (740) 385-8501 FAX (740) 385-6490

Reporting Lab Certification No.: 838

PUBLIC WATER SYSTEM INFORMATION:

PWS ID:	OH		
PWS Name:		anderstale destands des	
Address:			
City, State, Z	Zip:		
County:	-		

SAMPLE INFORMATION:

Sample Type:

- -- Routine (compliance)
- -- Repeat (confirm positive sample compliance)

Original Routine Positive Sample #

-- Special (not for compliance)

Sample Collector Name:_____

Sample Collector Phone:

Street Address and Tap Location:

Free Chlorine Residual: Total Chlorine Residual:

 	 	52	12
	14		

LABORATORY INFORMATION: Reporting Lab Name: Alloway – Marion

Lab Sample Number:

Bottle # _____

GETTING SAMPLES TO THE LABORATORY

PACKING SAMPLES FOR DELIVERY TO THE LAB



- Some samples need to be packed with ice in a cooler
- If thermal preservation is required, samples should arrive at 0-6°C
 - Ex. Organics, Phosphorus, TOC
 - Check with the laboratory for a complete list

PACKING SAMPLES FOR DELIVERY TO LAB

- Use plenty of packing materials to protect glass bottles
- Some samples will need to be shipped overnight to arrive at the proper temperature or within hold time
- Pack samples upright to prevent leaking



SAMPLE FLOW

RECEIVING SAMPLES AT THE LAB

- Check that all samples are intact, they match the paperwork, and are within hold time
- Check temperature
- Check pH
- Check chlorine



Common Reasons for Sample Rejection Include:

Insufficient sample volume (especially micro)

Incorrect preservation

Sample hold time exceeded

Sample not received on ice

Incomplete paperwork

SAMPLE FLOW

- At log-in, samples are assigned unique identifiers and double checked by managerial personnel
- The Laboratory Information Management System (LIMS) is designed to handle our sample load

SAMPLE FLOW

- Samples move throughout the laboratory through a system of checks and balances:
 - Backlog reports isolate sample by matrix, parameter, and due dates
 - Status reports indicate a sample's progress
 - Actual preparatory and analytical work
 - Review of data via secondary check
 - Final review of data and issuance of Certificates of Analysis
 - Proper archiving of data for retrieval and management

REPORTING

- For compliance drinking water samples, the laboratory is required to report results to both the PWS and Ohio EPA
- Depending on the sample type and analysis, results may need to be reported within 24 hours after analysis is completed
- All of the information needed to report results to Ohio EPA needs to be provided on the COC or SSR forms

SUMMARY

- Spend the extra time to work with the laboratory on the sampling side of environmental testing.
- Remember that good sampling techniques require trained personnel.
- Encourage your field personnel to visit your analytical laboratory to learn about the various methods.
- Make sure that holding times are met.
- Ensure that samples are collected in proper containers with preservatives and packed in an adequate amount of ice.

A SIMPLE EQUATION....

