

COMMONWEALTH OF PENNSULVANIA DEPARTMENTOF ENVIRONMENTAL PROTECTION BUREAU OF SAFE DRINKING WATER

Comprehensive Monitoring Plan

Complete and submit a copy of this form to the appropriate local DEP office by the dates specified in § 109.717(a).

Safe Drinking Water Program local DEP district offices phone numbers (including 24/7 numbers), mailing addresses and FAX numbers are at this link: http://www.elibrary.dep.state.pa.us/dsweb/Get/Document-117702/3930-FM-BSDW0560.pdf

PART 1: GENERAL SYSTEM INFORMATION

PWS Name:					PWSID:
PWS Type:	□ cws □] NTNCWS	Population Served:		
Mailing Address					
Mailing Address:					
Contact Person:					
Phone:		Email:			
Source Types: (check <i>all</i> that apply)	☐ Surface Water ☐ Ground Water ☐ GUDI – GW under direct influence of SW	☐ Purchased Surface ☐ Purchased Grount ☐ Purchased GUDI	nd Water	Is PWS	selling finished water to any other public water system? Yes No

PWD ID#

PART 2: SOURCE TREATMENT PLANT (TP) & ENTRY POINT (EP) INFORMATION

Availability and Type Codes

Availability Codes		Source Type Codes
P = Permanent	G = Groundwater	GUDI = Groundwater Under
R = Reserve (must be identified in permit)	W = Purchased GW	Direct Influence (of SW)
E = Emergency (purchased sources only)	S = Surface Water	Z = Purchased GUDI
	P = Purchased SW	

Table 2A – System-owned Sources

Source ID	Source Name	Source Availability	Source Type	Associated TP ID	EP ID	EP Name	EP Availability

Table 2B – Purchased Sources

Source ID	Source Name	Source Availability	Source Type	EP ID	EP Availability	Seller's PWS ID	Distribution Disinfectant Used by Seller

PWD ID#	
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PART 3: NUMBER OF SAMPLES REQUIRED

EP ID	No. Sources	Source Contribution		Description of How Sources Are Used	No. Samples Req'd
		Alternated Blended B	Both N/A		
		☐ Alternated ☐ Blended ☐ B	Soth N/A		
		Alternated Blended B	Soth N/A		
		Alternated Blended E	Soth N/A		
		Alternated Blended B	Soth N/A		
		☐ Alternated ☐ Blended ☐ E	Both N/A		
		☐ Alternated ☐ Blended ☐ E	Both N/A		
		☐ Alternated ☐ Blended ☐ E	Both N/A		
		Alternated Blended B	Soth N/A		
		Alternated Blended B	Both N/A		

NOTES:

- If only 1 source contributes to EP or sources are blended at a consistent ratio, then only 1 sample/EP is needed for each set of compliance monitoring.
- If multiple sources are used that are alternated where each source is operated by itself, then the number of samples needed for each set of compliance monitoring is equal to the number of sources at that EP.
- If multiple sources are used that are alternated differently or that are blended at different ratios then describe how the sources are used and identify the number of samples that will be required for each set of compliance monitoring to ensure all sources are included.
 - o If alternated, what conditions determine when the sources are switched (such as a set schedule)? Is the switchover automatic or manual?
 - o If blended, how are the sources used and what conditions determine the blending ratio?

PWD ID#	
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PART 4: TREATMENT INFORMATION

For *each* EP ID, check the appropriate box(es) for the contaminant(s) for which treatment has been installed. If no treatment has been installed, check the N/A box for that contaminant group. (*Copy or print additional pages as needed.*)

EP ID	IOCs N/A	VOCs	□ N/A	Se	OCs N/A
	Antimony Cyanide Arsenic Fluoride Asbestos Mercury Barium Nitrate Beryllium Nitrite Cadmium Selenium Chromium Thallium RADS N/A Gross Alpha Radium 226 Radium 228 Uranium Gross Beta	1,1-Dichloroethylene*	Benzene Carbon Tetrachloride Dichloromethane Ethylbenzene Monochlorobenzene Styrene Toluene Trichloroethylene* Tetrachloroethylene* Xylenes (total)	2,4-D 2,4,5-TP Alachlor Atrazine Benzo(a)pyrene Carbofuran Chlordane Dalapon Di(ethylhexyl)adipate Di(ethylhexyl)phthalate DBCP Dinoseb Dioxin Diquat Endothall	Endrin EDB Glyphosate Heptochlor Heptachlor epoxide Hexachlorobenzene Hexachlorocyclopentadiene Lindane Methoxychlor Oxamyl (Vydate) PCBs Pentachlorophenol Picloram Simizine Toxaphene
EP ID	IOCs N/A	VOCs	□ N/A		OCs N/A
	Antimony Cyanide Arsenic Fluoride Asbestos Mercury Barium Nitrate	☐ 1,1-Dichloroethylene* ☐ cis-1,2-Dichloroethylene ☐ trans-1,2-Dichloroethylene* ☐	Benzene Carbon Tetrachloride Dichloromethane	☐ 2,4-D [☐ 2,4,5-TP ☐ Alachlor [☐	Endrin EDB Glyphosate

PWD ID#	
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PART 5: WAIVER INFORMATION

For *each* EP ID, check the appropriate box(es) for the contaminant(s) for which a waiver has been approved. If no waivers have been approved for that contaminant group, check the N/A box. (*Copy or print additional pages as needed.*)

EP ID	IOCs N/A	VOCs N	A	SOCs N/A
	Antimony	1,1-Dichloroethylene* Benzene		2,4-D Endrin
	Arsenic Arsenic	cis-1,2-Dichloroethylene Carbon Tetrachlor	de	☐ 2,4,5-TP ☐ EDB
	☐ Asbestos	☐ trans-1,2-Dichloroethylene* ☐ Dichloromethane		☐ Alachlor ☐ Glyphosate
	☐ Barium	☐ 1,2-Dichloroethane* ☐ Ethylbenzene		Atrazine Heptochlor
	☐ Beryllium	☐ 1,1,1-Trichloroethane* ☐ Monochlorobenze	ne	☐ Benzo(a)pyrene ☐ Heptachlor epoxide
	☐ Cadmium	1,1,2-Trichloroethane* Styrene		☐ Carbofuran ☐ Hexachlorobenzene
	Chromium	1,2,4-Trichlorobenzene Toluene		☐ Chlordane ☐ Hexachlorocyclopentadiene
	☐ Cyanide	☐ 1,2-Dichloropropane ☐ Trichloroethylene		☐ Dalapon ☐ Lindane
	☐ Fluoride	o-Dichlorobenzene Tetrachloroethyler	e*	☐ Di(ethylhexyl)adipate ☐ Methoxychlor
	☐ Mercury	para-Dichlorobenzene Xylenes (total)		☐ Di(ethylhexyl)phthalate ☐ Oxamyl (Vydate)
	☐ Selenium	☐ Vinyl Chloride		□ DBCP □ PCBs
	☐ Thallium			☐ Dinoseb ☐ Pentachlorophenol
				☐ Dioxin ☐ Picloram
				☐ Diquat ☐ Simizine
				☐ Endothall ☐ Toxaphene
EP ID	IOCs N/A	VOCs N	A	SOCs N/A
EP ID	IOCs N/A Antimony	VOCs No	A	SOCs N/A □ 2,4-D □ Endrin
EP ID				_
EP ID	Antimony	1,1-Dichloroethylene* Benzene		
EP ID	Antimony Arsenic	☐ 1,1-Dichloroethylene* ☐ Benzene ☐ cis-1,2-Dichloroethylene ☐ Carbon Tetrachlor		
EP ID	Antimony Arsenic Asbestos	☐ 1,1-Dichloroethylene* ☐ Benzene ☐ cis-1,2-Dichloroethylene ☐ Carbon Tetrachlor ☐ trans-1,2-Dichloroethylene* ☐ Dichloromethane	de	□ 2,4-D □ Endrin □ 2,4,5-TP □ EDB □ Alachlor □ Glyphosate
EP ID	Antimony Arsenic Asbestos Barium	☐ 1,1-Dichloroethylene* ☐ Benzene ☐ cis-1,2-Dichloroethylene ☐ Carbon Tetrachlor ☐ trans-1,2-Dichloroethylene* ☐ Dichloromethane ☐ 1,2-Dichloroethane* ☐ Ethylbenzene	de	□ 2,4-D □ Endrin □ 2,4,5-TP □ EDB □ Alachlor □ Glyphosate □ Atrazine □ Heptochlor
EP ID	Antimony Arsenic Asbestos Barium Beryllium	☐ 1,1-Dichloroethylene* ☐ Benzene ☐ cis-1,2-Dichloroethylene ☐ Carbon Tetrachlor ☐ trans-1,2-Dichloroethylene* ☐ Dichloromethane ☐ 1,2-Dichloroethane* ☐ Ethylbenzene ☐ 1,1,1-Trichloroethane* ☐ Monochlorobenze	de	
EP ID	Antimony Arsenic Asbestos Barium Beryllium Cadmium	1,1-Dichloroethylene* Benzene Carbon Tetrachlor trans-1,2-Dichloroethylene* Dichloromethane 1,2-Dichloroethane* Ethylbenzene 1,1,1-Trichloroethane* Monochlorobenze 1,1,2-Trichloroethane* Styrene	ide	
EP ID	Antimony Arsenic Asbestos Barium Beryllium Cadmium Chromium	1,1-Dichloroethylene* Benzene Carbon Tetrachlor trans-1,2-Dichloroethylene* Dichloromethane 1,2-Dichloroethane* Ethylbenzene 1,1,1-Trichloroethane* Monochlorobenze 1,1,2-Trichloroethane* Styrene 1,2,4-Trichlorobenzene Toluene	ne	□ 2,4-D Endrin □ 2,4,5-TP EDB □ Alachlor Glyphosate □ Atrazine Heptochlor □ Benzo(a)pyrene Heptachlor epoxide □ Carbofuran Hexachlorobenzene □ Chlordane Hexachlorocyclopentadiene
EP ID	Antimony Arsenic Asbestos Barium Cadmium Chromium Cyanide	1,1-Dichloroethylene* Benzene Carbon Tetrachlor trans-1,2-Dichloroethylene* Dichloromethane 1,2-Dichloroethane* Ethylbenzene 1,1,1-Trichloroethane* Monochlorobenze 1,1,2-Trichloroethane* Styrene 1,2,4-Trichlorobenzene Toluene 1,2-Dichloropropane Trichloroethylene	ne	□ 2,4-D Endrin □ 2,4,5-TP EDB □ Alachlor Glyphosate □ Atrazine Heptochlor □ Benzo(a)pyrene Heptachlor epoxide □ Carbofuran Hexachlorobenzene □ Chlordane Hexachlorocyclopentadiene □ Dalapon Lindane
EP ID	Antimony Arsenic Asbestos Barium Cadmium Chromium Cyanide Fluoride	1,1-Dichloroethylene* Benzene Carbon Tetrachlor trans-1,2-Dichloroethylene* Dichloromethane 1,2-Dichloroethane* Ethylbenzene 1,1,1-Trichloroethane* Monochlorobenze 1,1,2-Trichloroethane* Styrene 1,2,4-Trichlorobenzene Toluene 1,2-Dichloropropane Trichloroethylene o-Dichlorobenzene Tetrachloroethylene	ne	□ 2,4-D Endrin □ 2,4,5-TP EDB □ Alachlor Glyphosate □ Atrazine Heptochlor □ Benzo(a)pyrene Heptachlor epoxide □ Carbofuran Hexachlorobenzene □ Chlordane Hexachlorocyclopentadiene □ Dalapon Lindane □ Di(ethylhexyl)adipate Methoxychlor
EP ID	Antimony Arsenic Asbestos Barium Cadmium Chromium Cyanide Fluoride Mercury	1,1-Dichloroethylene* Benzene Carbon Tetrachloroethylene Carbon Tetrachloroethylene Dichloromethane Dichloromethane Dichloromethane Dichloromethane Dichloromethane Dichloromethane Dichloromethane Dichloromethane Dichloromethane Dichlorobenzene Dichlorobenzene Toluene Dichlorobenzene Toluene Dichlorobenzene Dichloroethylene Dichlorobenzene Dichloroethylene Dichlorobenzene Dichloroethylene Dichlorobenzene Xylenes (total)	ne	2,4-D
EP ID	Antimony Arsenic Asbestos Barium Beryllium Cadmium Chromium Cyanide Fluoride Mercury Selenium	1,1-Dichloroethylene* Benzene Carbon Tetrachloroethylene Carbon Tetrachloroethylene Dichloromethane Dichloromethane Dichloromethane Dichloromethane Dichloromethane Dichloromethane Dichloromethane Dichloromethane Dichloromethane Dichlorobenzene Dichlorobenzene Toluene Dichlorobenzene Toluene Dichlorobenzene Dichloroethylene Dichlorobenzene Dichloroethylene Dichlorobenzene Dichloroethylene Dichlorobenzene Xylenes (total)	ne	
EP ID	Antimony Arsenic Asbestos Barium Beryllium Cadmium Chromium Cyanide Fluoride Mercury Selenium	1,1-Dichloroethylene* Benzene Carbon Tetrachloroethylene Carbon Tetrachloroethylene Dichloromethane Dichloromethane Dichloromethane Dichloromethane Dichloromethane Dichloromethane Dichloromethane Dichloromethane Dichloromethane Dichlorobenzene Dichlorobenzene Toluene Dichlorobenzene Toluene Dichlorobenzene Dichloroethylene Dichlorobenzene Dichloroethylene Dichlorobenzene Dichloroethylene Dichlorobenzene Xylenes (total)	ne	□ 2,4-D Endrin □ 2,4,5-TP EDB □ Alachlor Glyphosate □ Atrazine Heptochlor □ Benzo(a)pyrene Heptachlor epoxide □ Carbofuran Hexachlorobenzene □ Chlordane Hexachlorocyclopentadiene □ Dalapon Lindane □ Di(ethylhexyl)adipate Methoxychlor □ Di(ethylhexyl)phthalate Oxamyl (Vydate) □ DBCP PCBs □ Dinoseb Pentachlorophenol

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PART 6: ENTRY POINT SAMPLING INFORMATION

Monitoring Status & Frequency Codes

Monitoring Status Codes	Monitoring Frequency Codes		
I = Initial/Increased	A = Annual	3 = Triennial (every 3 years)	
S = Standard/Routine	Q = Quarterly	9 = Every 9 years	
R = Reduced	W = Waiver Approved	6 = Every 6 years (RADs only)	

NOTE: Samples may be composited for IOCs, VOCs and SOCs (RADs samples may *not* be composited). If the population is greater than 3,300, compositing may only be done at sampling points within a single system. If the population is less than or equal to 3,300, samples may be composited among different systems. No more than 5 samples may be included in the composite sample.

Table 4A – Inorganic Chemicals (IOCs)

Year Waiver Expires:_____

EP ID	Monit	toring	Year Due	Sampling Schedule	Included in Composite?	EPs Included in Composite
	Status	Frequency	T car Duc	Sampling Schedule		Sample

NOTE: Compliance monitoring for contaminants for which treatment has been installed must be conducted at least annually, unless increased monitoring is required. For *each* EP, identify in a separate row any individual contaminants that are on a monitoring frequency that is different from the group frequency.

Table 4B – Volatile Organic Chemicals (VOCs)

Year Waiver Expires:_____

EP ID	Monitoring		Year Due	Committee Cohodule	Included in	EPs Included in Composite
EFID	Status	Frequency	1 ear Due	Sampling Schedule	Composite?	Sample

NOTE: Compliance monitoring for all VOCs must be conducted at least annually if any VOC removal treatment has been installed or if any VOCs were previously detected, unless increased monitoring is required.

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Table 4C – Synthetic Organic Chemicals (SOCs)

Year Waiver Expires:_____

EP ID	Moni	toring	Year Due	Voor Due Compling Schodule		EPs Included in Composite
EFID	Status	Frequency	Tear Due	Sampling Schedule	Composite?	Sample

NOTES: Compliance monitoring for contaminants for which treatment has been installed or that were previously detected must be conducted at least annually unless increased monitoring is required. For *each* EP, identify in a separate row any individual contaminants that are on a monitoring frequency that is different from the group frequency.

Table 4D – Radiological Chemicals (RADs)

EP ID	Contaminant	Monit	toring	Year Due	Sampling Schedule
EP ID		Status	Frequency		
	Gross Alpha				
	Ra 226/228				
	Uranium				
	Gross Alpha				
	Ra 226/228				
	Uranium				
	Gross Alpha				
	Ra 226/228				
	Uranium				
	Gross Alpha				
	Ra 226/228				
	Uranium				
	Gross Alpha				
	Ra 226/228				
	Uranium				

NOTE: Compliance monitoring for contaminants for which treatment has been installed must be conducted at least annually, unless increased monitoring is required.

PART 7: DISTRIBUTION SYSTEM SAMPLING INFORMATION

Question 7A: Describe how sources that are not used at least once/w	veek are represented in d	isinfection byproducts sampling:
NOTE: If additional sampling locations are needed or additional not the Disinfectants/Disinfection Byproducts Monitoring Plan and at	0 ,	
Question 7B. Describe how all sources that are not used at least once	e/week are captured in c	oliform and disinfectant residual sampling.
NOTE: If additional sampling locations are needed or additional nather Coliform Sample Siting Plan & the Distribution Disinfectants		
Question 7C: Describe how all sources that are not used at least onc sampling.	e/week are captured in l	ead and copper and water quality parameter
NOTE: If additional sampling locations are needed, update the <i>Le</i> this form. If additional monitoring (at existing compliance samplindiscuss your monitoring requirements.		· · · · · · · · · · · · · · · · · · ·
PART 8: ATTACHMENTS		
Attachment 1 – Coliform Sample Siting Plan, dated	(date of last revision)	
Attachment 2 – Disinfectants/Disinfection Byproducts Monitoring Plantachment 2	an, dated	(date of last revision)
Attachment 3 – Lead & Copper Sample Siting Plan dated	(date of last re	evision)