FILED
January 17, 2023
INDIANA UTILITY
REGULATORY COMMISSION

STATE OF INDIANA

INDIANA UTILITY REGULATORY COMMISSION

PETITION OF INDIANA-AMERICAN WATER)
COMPANY, INC. FOR (1) APPROVAL OF)
SERVICE ENHANCEMENT IMPROVEMENT)
COSTS ASSOCIATED WITH SERVICE) CAUSE NO. 45609 SEI-1 S1
ENHANCEMENT IMPROVEMENTS UNDER IND.	
CODE § 8-1-31.7-7(2) AND APPROVE RECOVERY)
THEREOF.	,)

PUBLIC'S EXHIBIT NO. 1

TESTIMONY OF CARL N. SEALS

ON BEHALF OF

THE INDIANA OFFICE OF UTILITY CONSUMER COUNSELOR

January 17, 2023

PUBLIC'S /

Respectfully submitted,

INDIANA OFFICE OF UTILITY CONSUMER COUNSELOR

OFFICIAL EXHIBITS

T. Jason Haas, Attorney No. 34983-29

Deputy Consumer Counselor

OFFICE UTILITY CONSUMER COUNSELOR

115 W. Washington St. Suite 1500 South

Indianapolis, IN 46204

Email: thaas@oucc.in.gov

infomgt@oucc.in.gov

CERTIFICATE OF SERVICE

This is to certify that a copy of *OUCC Public's Exhibit No. 1, Testimony of Carl N. Seals* has been served upon the following counsel of record in the captioned proceeding by electronic service on January 17, 2023.

Nicholas K. Kile Hillary J. Close Lauren M. Box

BARNES & THORNBURG LLP

11 South Meridian Street Indianapolis, Indiana 46204

Email: Nicholas.kile@btlaw.com hillary.close@btlaw.com lauren.box@btlaw.com

T. Jason Haas

Deputy Consumer Counselor

Joseph Add A

INDIANA OFFICE OF UTILITY CONSUMER COUNSELOR

115 West Washington Street Suite 1500 South Indianapolis, IN 46204 infomgt@oucc.in.gov 317/232-2494 – Phone 317/232-5923 – Facsimile

TESTIMONY OF OUCC WITNESS CARL N. SEALS CAUSE NO. 45609 SEI-1 S1 INDIANA AMERICAN WATER COMPANY, INC.

I. <u>INTRODUCTION</u>

1	Q:	Please state your name and business address.
2	A:	My name is Carl N. Seals, and my business address is 115 West Washington Street, Suite
3		1500 South, Indianapolis, Indiana 46204.
4	Q:	By whom are you employed and in what capacity?
5	A:	I am employed by the Indiana Office of Utility Consumer Counselor ("OUCC") as
6		Assistant Director in the Water/Wastewater Division. My qualifications and experience are
7		set forth in Appendix A.
8	Q:	What is the purpose of your testimony?
9	A:	The purpose of my testimony is to evaluate cost recovery of projects completed by Indiana
10		American Water Company, Inc.'s ("Indiana American" or "Petitioner") as "replacement
11		projects" under Ind. Code 8-1-31.7-7(2). My testimony will address whether Indiana
12		American should recover expenses for certain projects appearing in Petitioner's
13		Attachment DH-11, and seek Commission guidance on whether these projects should be
14		included as a "service enhancement improvement" ("SEI"). The projects that I challenge
15		fall into three categories: 1) unplanned new additions, rather than replacement of existing
16		plant or equipment, 2) recovery of expenses incurred on plant that is no longer used and
17		useful and 3) projects that do not meet the statutory SEI requirements criteria. Finally, I

¹ Petitioner's Exhibit No. 3, Direct Testimony of Daniel Halverstadt, Attachment DH-1.

- 1 make some recommendations for future reporting that may aid the IURC's and OUCC's review and analysis.
- 3 Q: What have you done to prepare your testimony?
- A: I reviewed Indiana American's Petition and the testimonies submitted in this case. I reviewed Petitioner's prior SEI case, Cause No. 45609. I reviewed Monthly Reports of Operations filed with the Indiana Department of Environmental Management ("IDEM") for Indiana American's Charlestown system. Finally, I wrote discovery requests and reviewed Petitioner's responses.

II. ADDITIONS TO PLANT (NOT REPLACEMENTS)

9 Q: Do you believe that all projects described as additions and appearing in Attachment 10 DH-1 are eligible projects for inclusion as a Service Enhancement Improvement? No. Ind. Code § 8-1-31.7-2 defines "eligible additions" for a public utility as being "used 11 A: and useful," and as being "procured, installed, or constructed by the public utility with 12 13 expenditures that are service enhancement improvements." (emphasis added) "Service 14 enhancement improvements" are defined in Ind. Code 8-1-31.7-7(2) as "Replacement of a plant or equipment to maintain existing health, safety, or environmental protection for the 15 16 eligible utility's customers, employees, or the public." (emphasis added) Ind. Code § 8-1-17 31.7-9(e) states "An eligible utility is not required to seek preapproval of a plan in order to 18 seek recovery under section 12 of this chapter for eligible additions that are described in 19 section 7(2) of this chapter." Therefore, because service enhancement improvements are 20 defined in this way, new additions to plant or equipment that are not part of a pre-approved 21 plan are not eligible for SEI treatment and recovery. Petitioner witness Halverstadt

- discusses these replacement projects in his testimony as "replacement eligible projects,"
 although this term is not defined in the statute.²
- Which proposed replacement projects proposed for cost recovery by Petitioner do you believe are not eligible for SEI treatment because they are new additions to plant and not replacements?
- A: Based upon my review of Attachment DH-1 and Indiana American's responses to certain

 OUCC data requests, I recommend that the following line items from attachment DH-1 be

 disallowed as service enhancement improvements.

Line Number	Project Number	Project Description	In-Service Date	Total Net
104	R10-50Q1,22-P-0002	New Auto Flusher for Hydrants at Montgomery County main installation	3/30/2022	\$2,760
123	R10-47Q1.22-P-0004	Bollards installed at Water Salesman	4/28/2022	\$2,045
133	R10-90Q1.21-P-0027	Rapid Mix Motor OD	7/14/2021	\$9,950

9 Q: Why did you select these specific projects for exclusion from the SEI?

- 10 A: Each of these projects are not *replacements* of plant and equipment, but instead *additions*11 of *new* plant and equipment. This was confirmed in responses to OUCC Data Requests 212 3, 2-4, 2-7, 2-9, 3-1 and 3-3, which I have included as OUCC Attachment CNS-1.
- Q: Please discuss why you believe project R10-50Q1.22-P-0002 is not an SEI-eligible project.

 A: Project R10-50Q1.22-P-0002 is simply the addition of an auto-flush device for a hydrant,
- 16 Which releases water from the hydrant at pre-set intervals without manual intervention. It is not replacing any existing plant or equipment as required by the statute but is instead

² *Id.*, p. 4, line 7 to p. 6, line 2.

1		replacing the process of water company personnel manually opening a hydrant. This was
2		confirmed in the attached responses to OUCC DR 2-3, 2-4 and 3-1.
3	Q:	Please discuss why you believe project R10-47Q1.22-P-0004 is not an SEI-eligible project.
5	A:	Indiana American's response to OUCC Data Request 2-7 states in part as follows:
6 7 8 9		The current equipment safety design is now outdated because <i>there were no bollards</i> protecting the valves and water salesman. <i>Adding</i> the bollards replaced and enhanced the existing equipment to protect the integrity of the existing valves and water salesman. (emphasis added)
10		Since there were no pre-existing bollards, this was not a replacement of plant and
11		equipment as required by the statute.
12	Q:	Please discuss why you believe project R10-90Q1.21-P-0027 is not an SEI-eligible project.
14	A:	Indiana American's response to OUCC Data Request 3-3 states in part as follows:
15 16 17 18 19 20		 a. The second rapid mix motor was added for redundancy purposes to maintain compliance at our Ogden Dune plant in NW Indiana. The rapid mixer mixes coagulant into the raw water to lower turbidity in the settling basins to extend the filter run times and lower filter effluent turbidity below the required threshold. b. One rapid mix motor was in place before the installation. c. Two rapid mix motors were in place following the installation.
22		Since this project involved the addition of a second rapid mix motor to the process, this
23		was not a replacement of plant and equipment as required by the statute.
24 25	Q:	What is the total value of these additions that you seek to remove from the proposed SEI?
26	A:	The total net value of these additions is \$14,755.
27	Q:	What do you recommend be done with these projects?
28	A:	I recommend that these three projects be excluded from this SEI as they do not meet the
29		definition of an SEI as set out in Ind. Code § 8-1-31.7-7(2) and were not included in the
30		pre-approved plan investments. While these may be relatively small-dollar projects, I

believe it is important to establish whether these unplanned additions of plant and equipment should or should not be part of replacement SEI projects.

III. PLANT NOT USED AND USEFUL

3 4	Q:	Do you believe that the project appearing as line 173 in Attachment DH-1 is an eligible service enhancement improvement?
5	A:	No, this project, which is described as "Replaced entire electrical system from acquired
6		system" on line 173 in Attachment DH-1, involved work done to a plant that is no longer
7		used and useful, as required by Ind. Code § 8-1-31.7-2(2)(A)(i).
8 9	Q:	How did you verify that this plant was no longer used and useful as required in Ind. Code 8-1-31.7-2(2)(A)(i)?
10	A:	I verified that the plant was no longer in service via a data request to Indiana American, a
11		review of Monthly Reports of Operations ("MROs") filed with IDEM, and finally by visual
12		inspection on January 1, 2023.
13	Q:	Please describe Indiana American's response to the data request.
14	A:	In response to OUCC Data Request 3-4 Indiana American indicated that the Charlestown
15		plant was no longer in service as of October 10, 2022. This was a follow-up question to
16		OUCC Data Request 2-11, and both responses appear as OUCC Attachment CNS-2.
17 18	Q:	Please describe the results of the review of the Monthly Reports of Operation ("MRO's") of the Charlestown system.
19	A:	A review of MRO's ³ from the May 2022 through November 2022 period shows a
20		changeover from the use of chlorine at use in the old plant to sodium hypochlorite as used
21		in the new plant. This changeover in disinfectants due to operation of the new plant is
22		consistent with Indiana American's response to OUCC Data Request 3-4.
23	Q:	Please describe the results of the visual inspection that you made.

³ See OUCC Attachment CNS-3.

1	A:	On January 1, 2023, while in the area, I drove to the location of the old plant which I had
2		last visited in October 2017. As shown in OUCC Attachment CNS-4 the previous
3		Charlestown plant has been replaced by the new facility.
4	Q:	Do you have concerns with the inclusion of this project as an SEI project?
5	A:	Yes. Including this project for SEI recovery, when the replacement project, as part of the
6		old facility, has already been retired, is problematic. As of the date of this filing, the project
7		was not used and useful, as required for an eligible addition under Ind. Code 8-1-31.7-
8		2(2)(A)(i).
9		While I understand the need to continue operation of the existing plant in a safe
10		manner, I do wonder if it could have been performed at less expense, given Indiana
11		American's pending replacement of the facility anyway. Again, it would be helpful to
12		receive Commission guidance on whether an eligible addition should be used and useful at
13		the time of the filing to receive SEI treatment and recovery and whether it is reasonable for
14		a utility to earn a return on and of an investment that is no longer used and useful.
15	Q:	What is the value of this project to be removed from total SEI projects?
16	A:	The total net cost of this project was \$464,516.
17	Q:	What do you recommend be done with this project?
18	A:	I recommend that this project be excluded from the SEI as it does not meet the definition
19		of an eligible addition as set out in Ind. Code § 8-1-31.7-2(2)(a)(i).
		IV. PROJECTS THAT DO NOT MEET SEI REQUIREMENTS CRITERIA

For a "replacement project", Ind. Code § 8-1-31.7-7(2) defines an SEI as "Replacement of

a plant or equipment to maintain existing health, safety, or environmental protection for

What does Ind. Code § 8-1-31.7-7(2) state?

the eligible utility's customers, employees, or the public."

20

21

22

23

Q:

A:

- Q: Do all of the projects presented in Attachment DH-1 provide for the maintenance of the "existing health, safety, or environmental protection for the eligible utility's customers, employees, or the public?"
- 4 A: No, they do not.

14

15

16

17

18

19

20

21

22

A:

- Which projects do you believe fail to provide for the maintenance of the "existing health, safety, or environmental protection for the eligible utility's customers, employees, or the public?"
- 8 A: The projects appearing on lines 196, 208 and 209 do not appear to provide for the 9 maintenance of the "existing health, safety, or environmental protection for the eligible utility's customers, employees, or the public."

Number	Project Number	Project Description	Total Net	Long description of all work performed under the WBS
196	R10-15Q1.21-P-0007	2nd Lab Renovation	\$155,939	The 2nd Lab renovation including replacing the old lab cabinets with new, replacing the flooring, drywall, and ceiling, and repainting. Replacing a refrigerator, credenza and some other office furniture.
208	R10-25Q1.21-P-0002	HS Building Improvements	\$45,596	Replaced walls & floor control rm HS Building, Replaced locks & Cores. Replaced Cabinets & powered hand tools.
209	R10-25Q1.20-P-0010	Win High Service Project	\$41,428	Epoxy Flooring in plant. File Cabinets and Shelves

Please explain why these projects fail to provide for the maintenance of the "existing health, safety, or environmental protection for the eligible utility's customers, employees, or the public."

While these may be necessary and worthwhile projects in their own right, that does not necessarily mean that they qualify for approval as an SEI. It is difficult to imagine how lab cabinets, file cabinets, a credenza, office furniture, drywall and shelves will provide for the maintenance of the "existing health, safety, or environmental protection for the eligible utility's customers, employees, or the public." Having an office or office equipment would assist Indiana American in its functions, but "maintain[ing] existing health, safety, or environmental protection for the eligible utility's customers, employees, or the public" is a secondary effect of this project. Office equipment does not directly accomplish these goals as does the replacement of chlorine analyzers or well motors. The question is how direct

the connection of a project would be to these goals to be considered a "service enhancement improvement." Would the replacement of a copy machine or coffee maker be too tenuous for these goals, but cabinets and a credenza are not? As with the other types of projects described, Commission guidance is needed on how directly a project would meet the statutory goals for an SEI.

Q: What is the value of this projects to be removed from total SEI projects?

7 A: The total net cost of these projects is \$242,963.

1

2

3

4

5

6

8 Q: What do you recommend be done with these projects?

9 A: I recommend that these projects be excluded from the SEI as they do not meet the definition of an SEI as set out in Ind. Code § 8-1-31.7-7(2).

V. OTHER CONCERNS

Do you have any other concerns with the proposed projects presented in Attachment 11 Q: 12 DH-1? 13 Yes. First, I am concerned that the specific requirements as set out in Ind. Code § 8-1-31.7-A: 6 are not described with any specificity for certain projects. There is presumably a specific 14 15 citation to OSHA, IDEM, or other regulations that initially drove Indiana American's 16 desire and perceived need to pursue these projects. It would be helpful in the OUCC's and 17 IURC's reviews of future filings if Indiana American would provide these citations for each of the projects instead of generalities such as "Affected the ability to deliver safe 18 quantities of water to the distribution system." Specific citations were provided for many 19 20 projects, but not all.

⁴ Attachment DH-1, line 59.

Finally, it would be helpful for Indiana American to include in future SEI filings under something like Attachment DH-1 to provide information on the districts where these service enhancement improvements are being made. This would help with any current or future cases and/or data gathering and analysis that the OUCC or IURC prepare. I sought and received this information in OUCC Data Request 2-1, but it would be better to have it at the front end of the process especially given the short time frame available for review and analysis of these cases.

VI. RECOMMENDATIONS

- 8 Q: Please provide a summary of your recommendation.
- 9 A: Based on projects that are 1) unplanned new additions, rather than replacement of existing
 10 plant or equipment, 2) recovery of expenses incurred on plant that is no longer used and
 11 useful and 3) projects that do not meet the statutory SEI requirements criteria, I recommend
 12 removal for recovery of projects totaling \$722,233.
- 13 Q: Does this conclude your testimony?
- 14 A: Yes, it does.

1

2

3

4

5

6

7

APPENDIX A

1 Q: Please describe your educational background and experience.

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

A:

In 1981 I graduated from Purdue University, where I received a Bachelor of Science degree in Industrial Management with a minor in Engineering. I was recruited by the Union Pacific Railroad, where I served as mechanical and maintenance supervisor and industrial engineer in both local and corporate settings in St. Louis, Chicago, Little Rock and Beaumont, Texas. I then served as Industrial Engineer for a molded-rubber parts manufacturer before joining the Indiana Utility Regulatory Commission ("IURC") as Engineer, Supervisor and Analyst for more than ten years. It was during my tenure at the IURC that I received my Master of Health Administration degree from Indiana University and began volunteer and part-time work as Firefighter and Emergency Medical Technician in Marion County. After the IURC, I worked at Indiana-American Water Company, initially in their rates department, then managing their Shelbyville operations for eight years, and later served as Director of Regulatory Compliance and Contract Management for Veolia Water Indianapolis. I joined Citizens Energy Group as Rate & Regulatory Analyst following the October 2011 transfer of the Indianapolis water utility and joined the Office of Utility Consumer Counselor in April of 2016. In March 2020 I was promoted to my current position of Assistant Director of the Water and Wastewater Division. In summary, in addition to working in manufacturing and transportation, I have been working in or with utilities since 1988, more than 34 years.

AFFIRMATION

I affirm the representations I made in the foregoing testimony are true to the best of my knowledge, information, and belief.

By: Carl N. Seals

Cause No. 45609 SEI-1 S1

Office of Utility Consumer Counselor (OUCC)

Date: 1/17/23

DATA REQUEST Indiana-American Water Company, Inc.

Cause No. 45609 SEI-1

Information Requested:

Is the auto flusher shown on line 104 of attachment DH-1 new or a replacement item?

Objection:

Petitioner objects to the request on the grounds and to the extent it is vague and ambiguous in that the term "replacement item" is not defined and provides no basis from which Petitioner can determine what information is sought. Ind. Code § 8-1-31.7-12(g) permits Petitioner to combine for recovery both pre-approved service enhancement improvement costs and those costs associated with service enhancement improvements for which approval of a plan is not required. Under Ind. Code § 8-1-31.7-7(2), service enhancement improvements that do not require pre-approval are defined as expenditures for "replacement of a plant or equipment to maintain existing health, safety, or environmental protection for the eligible utility's customers, employees, or the public." When referring to "replacement item" Petitioner understands this question to be referring to a service enhancement improvement that qualifies under Ind. Code § 8-1-31.7-7(2) and does not require preapproval.

Information Provided:

Subject to and without waiver of the foregoing objection, Petitioner responds as follows:

The auto flusher is a replacement service enhancement improvement under Ind. Code § 8-1-31.7-7(2) because it replaced plant or equipment in order to maintain existing health, safety, or environmental projection of the Indiana American's customers, employees or the public. Currently, the water mains at issue are flushed manually to maintain the chlorine residual in the system at all times of day per the The Federal Safe Drinking Water Act. The auto flusher replaced the existing outdated equipment (manual flusher) with upgraded technology to maintain compliance with the Federal Safe Drinking Water Act. It also replaced the manual flushing aspect on a state highway making it safer for Indiana American employees.

DATA REQUEST Indiana-American Water Company, Inc.

Cause No. 45609 SEI-1

Information Requested:

Was the auto flusher shown on line 104 of attachment DH-1 installed as part of a main extension?

Information Provided:

No, see response to OUCC DR 2-3. The auto flusher replaced the existing manual flushing process in order to help maintain the chlorine residual in the system at all times of day per the The Federal Safe Drinking Water Act. It also replaced the manual flushing aspect on a state highway making it safer for our employees.

DATA REQUEST Indiana-American Water Company, Inc.

Cause No. 45609 SEI-1

Information Requested:

Were the bollards listed on line 123 of attachment DH-1 new or replacement items?

Objection:

Petitioner objects to the request on the grounds and to the extent it is vague and ambiguous in that the term "replacement item" is not defined and provides no basis from which Petitioner can determine what information is sought. Ind. Code § 8-1-31.7-12(g) permits Petitioner to combine for recovery both pre-approved service enhancement improvement costs and those costs associated with service enhancement improvements for which approval of a plan is not required. Under Ind. Code § 8-1-31.7-7(2), service enhancement improvements that do not require pre-approval are defined as expenditures for "replacement of a plant or equipment to maintain existing health, safety, or environmental protection for the eligible utility's customers, employees, or the public." When referring to "replacement item" Petitioner understands this question to be referring to a service enhancement improvement that qualifies under Ind. Code § 8-1-31.7-7(2) and does not require preapproval.

Information Provided:

Subject to and without waiver of the foregoing objection, Petitioner responds as follows:

The bollards are a replacement service enhancement improvement under Ind. Code § 8-1-31.7-7(2) because they replaced plant or equipment to maintain existing health, safety, or environmental projection of the Indiana American's customers, employees, or the public. The current equipment safety design is now outdated because there were no bollards protecting the valves and water salesman. Adding the bollards replaced and enhanced the existing equipment to protect the integrity of the existing valves and water salesman.

DATA REQUEST Indiana-American Water Company, Inc.

Cause No. 45609 SEI-1

Information Requested:

Was installing a second rapid mix motor as shown on line 133 of attachment DH-1 a new or replacement item?

Objection:

Petitioner objects to the request on the grounds and to the extent it is vague and ambiguous in that the term "replacement item" is not defined and provides no basis from which Petitioner can determine what information is sought. Ind. Code § 8-1-31.7-12(g) permits Petitioner to combine for recovery both pre-approved service enhancement improvement costs and those costs associated with service enhancement improvements for which approval of a plan is not required. Under Ind. Code § 8-1-31.7-7(2), service enhancement improvements that do not require pre-approval are defined as expenditures for "replacement of a plant or equipment to maintain existing health, safety, or environmental protection for the eligible utility's customers, employees, or the public." When referring to "replacement item" Petitioner understands this question to be referring to a service enhancement improvement that qualifies under Ind. Code § 8-1-31.7-7(2) and does not require preapproval.

Information Provided:

Subject to and without waiver of the foregoing objection, Petitioner responds as follows:

Installing a second rapid mix motor is replacement service enhancement improvement under Ind. Code § 8-1-31.7-7(2) because it replaced plant or equipment to maintain existing health, safety, or environmental projection of the Indiana American's customers, employees, or the public. The current equipment/process is outdated and needed updated to current safety protocols because there is currently no redundancy at the plant. The rapid mix motor replaced the outdated equipment/process and allows Indiana American to have redundancy at the plant and maintain compliance.

OUCC DR 3-1

DATA REQUEST Indiana-American Water Company, Inc.

Cause No. 45609 SEI-1

Information Requested:

Please refer to Indiana American's response to OUCC DR 2-3.

- a. What is a "manual flusher?" If manual flusher refers to anything other than an individual manually operating a hydrant, please describe in detail.
- b. Will the addition of an automatic flusher replace (or eliminate) any operating personnel (staff reduction)?

Information Provided:

- a. A "manual flusher" refers to an individual manually operating a hydrant in order to flush.
- b. Indiana America's staffing plan is not, and has never been, designed to be one employee for each hydrant, and the automatic flusher does not replace any operating personnel. The replacement does allow us to focus our attention on other places in the distribution system. It also increases the safety of our employees in areas such as this one that are on a busy major road.

OUCC DR 3-3

DATA REQUEST Indiana-American Water Company, Inc.

Cause No. 45609 SEI-1

Information Requested:

Please refer to Indiana American's response to OUCC DR 2-9.

- a. Please indicate the plant or equipment the second rapid mix motor replaced.
- b. How many rapid mix motors were in place *before* the installation of the second rapid mix motor?
- c. How many rapid mix motors were in place *following* the installation referenced on line 133 of DH-1?

Information Provided:

- a. The second rapid mix motor was added for redundancy purposes to maintain compliance at our Ogden Dune plant in NW Indiana. The rapid mixer mixes coagulant into the raw water to lower turbidity in the settling basins to extend the filter run times and lower filter effluent turbidity below the required threshold.
- b. One rapid mix motor was in place before the installation.
- c. Two rapid mix motors were in place following the installation.

DATA REQUEST Indiana-American Water Company, Inc.

Cause No. 45609 SEI-1

Information Requested:

Was the entire replacement of the Charlestown electrical equipment for \$464,516 as shown in line 173 of attachment DH-1 done in addition to the new Charlestown plant? Please explain.

Information Provided:

Yes, these electrical upgrades were made at the old Charlestown plant prior to Indiana American making the decision to construct a new plant. It was necessary to replace the entire electrical system at the old plant because it was undersized, did not have the means to connect an emergency generator, and had numerous safety issues. While Indiana American ultimately made the decision to construct a new plant, there was an immediate need to replace the electrical system at the existing plant when it was acquired to maintain existing health, safety, or environmental projection of the Indiana American's customers, employees or the public.

OUCC DR 3-4

DATA REQUEST Indiana-American Water Company, Inc.

Cause No. 45609 SEI-1

Information Requested:

Please refer to Indiana American's response to OUCC DR 2-11.

- a. Is the former Charlestown water plant that was operating when Indiana American purchased the Charlestown system currently in service? Please explain.
- b. If the former Charlestown water plant was taken out of service, please provide the date that it was removed from service.

Information Provided:

- a. No, it is not currently in service. There is now a new plant that was constructed in Charlestown that is fully operational.
- b. 10/10/2022.

OUCC Attachment CNS-3 Cause No. 45609 SEI-1 S1 Page 1 of 7

Date: 06/06/2022

Certification # WT3-021307

IDEM Field Rep: Anna Readle

	Treated	Chemi	cals (LBS/I	MG)	Ch	emicals (ibs	1					Physica	al and Ch	emical D	ata (me/L)				Chl	orine Res	idual (mg.	L)	Misc
	Treated Water	Total C12	HFS	Phosphate-	Total CLZ		Phosphats-												뱀	EHGLZ		Divi CT3	Dist CL2	
	(MGD)	(chlorine)		Sland (PO4)		HFS (Husrida)		Rew Alk	EH AJk	Raw pH	EH pH	Raw Hard	Eff Hard	Raw Iron	Efficen	Rew Mn	Eff Mn	EILEGA	Hoorida		Ell CL2 Tota		Total	Remarks
5/1/2022		23.38		149.52	17.00		108.70			7.42	7.28			0.01	0.01	0.27	0.05	4.07		1.47	1.61			Air in HFS feed line, corrected
5/2/2022		30.66	13.39		21.00	9	98,10			7.45	7.31			0.02		0.32	0.08			1.31	1.55		1.37	
5/3/2022		27.27	13.42	132.12	18.00	9	87.20	173	179	7.42	7.21		228	0.03		0.29	0.01	4.50	0.69	1.69	1.87		1,60	
5/4/2022		29.37	14.38	144.05	20.00	10	98.10			7.44	7.26		-	0.01		0.30	0.06	4.10	0,66	1.61	1.78	1.41	1,59	
5/5/2022		33.33	14,52		22.00	10				7.41	7.25			0.02		0.29	0.06	4.70	0.82	1.72	1.86		1,68	
5/6/2022		29.96	14.84	135.12	21.00	10				7.44	7.23		-	0.02		0.28	0.07	4.60	0.79	1.62	1.82		1,68	
5/7/2022		31.01	18.05		20.00	12				7.51	7.27			0.01		0.28	0.08		0.74	1.63	1.91	1.60	1,75	
5/8/2022		22,73	2.75		17.00	2	83.07			7.42	7.27			0.02		0.29	0,06	4.50	0,68	1.65	1.87			Air in HFS feed line, corrected
5/9/2022		32.81	14.69		23.00	10		171	174	7.41	7.19		228	0.01		0.29	0.07	4,34	0.93	1.69	1.98		1.78	
5/10/2022		32.83	15.08		24,00	11				7.47	7.23	-		0.03	0.01	0.28	0.07	4.04	0.81	1.76	1.96	1,62	1.78	
5/11/2022		30.05	14.07		22.00	10				7.37	7.22		-	0.04		0.27	0,09			1.84	2.05		1.85	
5/12/2022		33.29	11.93		25.00	9	103,00			7.40	7.21		-	0.03		0.30	0.06			1.67	1.99		1,93	
5/13/2022		29.53	15.34	133,44	22.00	- 11				7,41	7.19	-	-	0.07			0,05			1.65	2.14	1.28	1.40	
5/14/2022	0.7240	31.77	12.67	118.73	23,00	9				7,42	7,21			0.02		0.29	0,06			1.51	2.04		1.94	
5/15/2022	0,7730	27.17	7.19		21.00	6				7.43	7.21			0.03		0.29	0.03	3.58	0.69	1.94	2.14		1,94	
5/16/2022		33.80	14.21	132.03	24.00	10		172	173	7,37	7,21		216	0.05		0.29	0.05	3.62	0.75	1.85	2.02		1.94	
5/17/2022		25.55	15.55	143.94	22,00	13			_	7.39	7.22		-	0.02		0.30	0.06	3.81	0.74	1.84	2.12		1.93	
5/18/2022		32.88	12.56		24.00	9	90.91			7.42	7.25		-	0,01		0.31	0.06	3.65	0.69	1.86	2.07		1.96	
5/19/2022		32.54	15.38		22.00	10				7.44	7.25			0.01		0.30	0.08	3.66	0.71	1.86	2.04		1.92	
5/20/2022	0.6840	32.16	17.62		22.00	12	104.31			7.41	7.25			0.01		0.30	0.07		0.70	1.63	2.07		1,76	
5/21/2022	0.7580	18.47	13.87	130,25	14.00	- 11	98,75			7.39	7.25	-	-	0.02		0,30	0.05		0.73	1.71	1.93		1.90	
5/22/2022		39.47	15.16	156.46	33.00	13				7.41	7.26			0,01		0.30	0.05	3.67	0.81	1.73	1.91	1.52	1.68	
5/23/2022		27.06	14.07		21,00	11			172		7.25		228	0.01		0.29	0.07			1.82	2.19		2.02	
5/24/2022		24.43	17.17		17.00	12	96.36			7.41	7.25			0.02		0.27	0.06	4.20		1.85	2.04		1,60	
5/25/2022		43,80	13.99		30.00	10				7,40	7.26		-	0.01		0.32	0.07	4.18	0.69	1.72	1.94		1,52	
5/26/2022		24.21	14.34	122.25	16.00	9				7,42	7.20		-	0.03		0.31	0.06			1.79	1.97		1,60	
5/27/2022		20.73	20.69	133.70	16.00	16				7,40	7.27	1 -		0.02		0.30	0.04	4.18		1.67	1.80		1.65	
5/28/2022	0.6990	32.90	10.17	124.75	23.00	7	87.20	:	-	7.41	7.27	1	-	0.01		0.33	0.05	4.21	0.67	1.62	1.78		1,58	
5/29/2022		24.03	14.58		18.00	11	98.10			7,42	7.26		-	0.00		0.29	0.24	4.16		1.85	2.07		1,64	
5/30/2022		37.32	4.90		29.00	4	93.10		_	7.40	7.27			0.00		0.33	0.30	4.10	0.63	1.60	1.89			Air in HFS feed line, corrected
5/31/2022	0.7770	25.74	13.78	134.53	20.00	- 11	104.53		<u> </u>	7.47	7.23	1		0.01	0.01	0.30	0.07	3.90	0,70	1,82	2.05	1.67	1,82	l
Total	22.511	920.25	410.35		667	297	3087.45	N/A		N/A					N/A	4/61							4.77	1
	0,7262	920.25	13.68		21.5	297		172	N/A 175		7.24	N/A 218		N/A 0.02	0.01	N/A 0.30	N/A 0.07	N/A 4.04	N/A 0.73	N/A 1.72	N/A		1,73	
Average						10															1.95			
Min Max	0.6450	18.47	2.75		14.0 33.0	16		171			7.19			0.00		0.27	0.01	3,41	0.61	1.31	2.19		2.02	

ents: Chemicals are measured in wet ibs unless otherwise noted

Temporary filter system placed in service 5/14/2021

OUCC Attachment CNS-3 Cause No. 45609 SEI-1 S1 Page 2 of 7

Date: 07/07/22

Certification # WT3-021307

IDEM Field Rep: Anna Readle

	Treated	Chemi	cals (LBS/N	AG)	C h	emicals (lbs	1 11 11 11 11					Dhyeles	dand Ch	mical Da	to Imali	1				Chl	orina Das	idual (me	41	Misc
	110000		Cars (EDS)			cimeans (ibs						rilyaice			ta (IIIE)						ome Ke	idda; (iiig		Hilac
	Treated Water (MGD)	Total CL2 (chlorine)	HFS (Fluoride)	Phosphate- Blend (PO4)	Total CLZ (chlorine)	HFS [Fluoride)	Phosphate- Bland (PCM)	Row Alk	PH Alk	Rewold	EH pH	Rese Hard	Eff Hard	Rawlmo	Elfiron	Raw Mn	Elf Mn	EH PO4	Elf Elworld a	EH CLZ Free	Ell CLZ Tota	OCH CLI Free	Dist CL2 Total	Remarks
6/1/2022		29.91	15.11	135.87	21.00	11		171			7.20	200	208	0.01	0.01		0.06	3,90	0.80	1.72	1.88	1,57		
6/2/2022	0,7050	31.21	14.47		22.00	10		-		7.45		- 1		0.02	0.01		0.07	3,80	0.79		1.90	1.56		
6/3/2022		32.49	17.16	138.71	23.00	12	98.21			7,40	7.20			0.00	0.00	0.22	0.07	4.10	0.82		1.97			
6/4/2022		37.64	6,85	158,78	30.00	5	126,55			7.41	7.19		-	0.02	0.01	0.30	0.06	4.20	0.85		1,81	1.52		
6/5/2022	0,7670	18.25	9.80	109.28	14.00	8	83.82			7.40	7.21			0.02	0.01	0.30	0.08	4,10	0.92	1,72	1.89	1.35	1.50	
6/6/2022	0,6570	36.53	13.96	130.73	24,00	9	85,89	172	172		7,16	200	218	0.01	0.00	0,30	0,09	3,61	0,86		1.83	1.56		
6/7/2022		32.07	15,47	146,66	22,00	11	100,61			7,42				0.02	0.00	0.26	0.01	3.56	0.79		1.90			
5/8/2022		31.30	14.59	135.80	21.00	10	91,12	-		7.45	7.25			0.02	0,00	0.28	0.07	3,40	0.84		1.85	1.47		
6/9/2022	0.8310	27.68	15.99	141.26	23.00	13	117,39		-	7.43	7.25		-	0.04	0.02	0,30	0.06	3.19	0.91	1.49	1.74	1,45	1.61	
6/10/2022		31.58	14.26	126,71	21.00	9	84.26		-	7.42	7.19		-	0.03	0.03	0.31	0,07	3.21	0.80	1.62	1.80	1.43		
6/11/2022	0.7130	28.05	15.46	138,96	20.00	11	99.08			7.40		-		0.02	0.02	0.30	0.07	4.62	0.81		1.80	1.24		
6/12/2022	0.7030	25.60	4.84	144.20	18.00	3	101.37		-	7.40	7,22	-		0.04	0.00	0.29	0.05	3.43	0.85	1.52	1,70	1.30		
6/13/2023	0.7440	40.32	14.26	126.87	30,00	11	94.39	184	166	7.41	7.24	201	190	0.01	0.01	0.32	0.06	3.35	0.81	1.55	1.63	1.38	1,57	
6/14/2022	0.7410	31.04	15,14	145.18	23.00	11	107.58			7.39	7.23	-		0.00	0.01	0.28	0,03	3.66	0.85	1.54	1.95	1,50	1.77	
6/15/2022	0.7590	35.57	4.76	133,70	27.00	4	101,48			7.37	7,22			0.00	0.00	0.31	0.06	3.80	0.87	1.50	1.82	1.41		
6/16/2022	0.7900	30.38	15.65	144.59	24,00	12	114.23		-	7,42	7,25	-1	-	0.02	0.00	0.28	0.07	3.65	0.81	1.58	1.89	1.50	1.70	
6/17/2023	0.7170	33,47	18.54	158.87	24.00	13	113.91		-	7,40	7.23	-	-	0.02	0,00	0.31	0.06	3.68	0.75		1.77	1.43	1,60	
6/18/2022	0.8220	31,63	15.04		25,00	12	115,98			7.41	7,23	-	-	0.01	0,01	0.29	0.09	4,54	0,85	1.52	1.85	1,58	1.76	
6/19/2022	0.8520	24.65	11.36	111.43	21.00	10	94.94			7.37	7.23	-		0.01	0.00	0,29	0,07	3.86	0,70	1.54	1.82	1.54	1,74	
5/20/2023	0.8370	44.21	15.26	147,03	37.00	13	123.06	174	163	7,39	7.24	206	207	0.01	0.00	0.31	0.07	5.20	0.71	1.53	1.74	1,57	1.65	
6/21/2022	0.8160	22.06	6.19		18.00	5	108.35			7.40			-	0.04	0.03	0.35	0.28	4,60	0.63	1.51	1.77	1.43	1,57	
6/22/2022	0.8110	49.32	16.77	134.67	40.00	14	109.22			7.41	7.26	-		0.01	0,01	0.26	0.12	4.00	0,70	1.31	1.61	1.56	1.76	
6/23/2022	0.8760	14.84	16.58	130,90	13.00	15	114.67			7.39	7.28	-	-	0,01	0.00	0.47	0,21	4.30	0.57	1,53	1.60	1.15	1.25	
6/24/2023		3636	14.64		32,00	13	112.16			7.40	7.27		-	0.00	0.00	0.35	0.21	4.10	0.38	1.45	1.60	1.10	1,23	
6/25/2022	0.8520	11.74	12.09	127.93	10.00	10				7.42	7.29	-	-	0.00	0.00	0.41	0.34	4.10	0,40	1.45	1,55	1.08	1.16	
6/26/2022	0.8110	34.53	13.21	120.96	28.00	11	98.10			7.41	7.28		-1	0.01	0.01	0.30	0.24	4,30	0.67	0.62	0.83	0.70	0.81	
6/27/2022	0.7670	56.06	15.45	126.77	43,00	12	97.23			7.40	7.24			0.02	0.01	0.39	0.11	3.90	0.89		1.52			
6/28/2022	1.0130	25.67	16.27	140.57	26,00	16	142.35			7.40	7.22			0.01	0.01	0.27	0.16	4.40	0.89		1.96	1.23		
6/29/2022	1.1840	24.49	15,40	130.45	29.00	18	154.45	173	168	7.41	7.25	193	192	0.02	0.01	0.33	0.11	4.40	0.77		2.05		1.56	
6/30/2022	1.1770	50.13	5.51	112.43	59.00	- 6	132.33		-	7.42	7,20			0.07	0.02	0,40	0.11	3.60	0,79	1.96	2.14	2.03	2.15	
***	24.054	958,78	400.04	4028.31	769	319	3217.14	N/A	T 1/A	N/A	N/A	N/A	N/A				N/AT					1		1
Total Average	0,8018	958.78	13,33	134.28	769 25.6	319	3217.14	N/A 175				200	N/A 203	N/A	0.01	N/A 0.31	0.11	N/A 3.95	N/A 0.77	N/A 1.55	N/A 1.78	N/A 1,39	N/A 1,56	4
Average	0.8018	31.98	4.76	134.28 109.28	10.0	- 11	83.82	175					203 190	0.02										4
Mir	1.1840	11.74 56.06	18.54	158.87	10.0 59.0	18	83.82 154.45	184				193 206	218		0.00	0.22	0,01	3.19 5.20	0.38		0.83			3

ments: Chemicals are measured in wet its unless otherwise noted

Temporary filter system placed in service 5/14/2021

OUCC Attachment CNS-3 Cause No. 45609 SEI-1 S1 Page 3 of 7

Indiana American Water - Charlestown WTP (PWSID IN5210003) - Form 100

10000	Site Wide Data	Distr	fection	Fluoridation	Сопоз	on Inhibitor	4076,000		all and the state of the	per contractor services	44.204.004.004		Mildely Vol Fall	Wa	ter Chemistry	The state of	-144 sevents	Carrie School	demandary of	Comment of the con-		ang sagadan	-1,000
DATE	System Delivery Meter	Chlorine Gas	NaOCI Day Tank	HFA New Plant Day Tank	Ortho/Poly Phosphate	Ortho Phosphate Day Tank	A	lkalinity	Hardnes	(Weekly)	Phosphate		рH		Iron	Ma	nganese	F	luoride	Chi	orine		ibution stem
	Treated Water (MGal)	Lbs used (Lbs)	Amount Used (Lbs)	Amount Used (Lbs)	Ortho P Amount Used (Lbs)	Amount Used (Lbs)	Raw (mg/ L)	Plant Effluent (mg/L)	Raw (mg/L- CaCO3)	Plant Effluent (mg/L- CaCO3)	Plant Effluent (mg/L)	Raw	Plant Effluent	Raw (mg/ L)	Plant Effluent (mg/L)	Raw (mg/ L)	Plant Effluent (mg/L)	Raw (mg/ L)	Plant Effluent (mg/L)	Plant Effl. Free (mg/L)	Plant Effl. Total (mg/L)	Free Cl (mg/L)	Total Cl (mg/L)
1	0.898	38.0	-	14.42	120.9	-	-	-	-		4.40	7.39	7.17	0.020	0.020	0.263	0.026	0.34	88.0	1.79	1.98	1.56	1.77
2	0.958	45.0	-	13.39	115.4	-	-	-	-	-	3.39	7.33	7.23	0.000	0.020	0.249	0.014	0.29	0.81	1.50	1.98	1.23	1.51
3	0.875	33.0	-	14.42	115.3	-	-	-	-	-	4.40	7.35	7.15	0.120	0.020	0.555	0.015	0.07	0.69	1.60	1.77	1.49	1.64
4	0.959	37.0	-	12.36	134.3	-	-	-	-	-	4.20	7.40	7.16	0.160	0.020	0.402	0.019	0.17	0.81	1.58	1.78	1.42	1.52
5	0.973	29.0	-	10,30	112.0	-	177	157	182	182	3.50	7.54	7.15	0.090	0.050	0.344	0.018	0.15	0,86	1.65	1.86	1.45	1.62
6	0.905	6.0	370.8	10.30	121.8	-	-	-	-	-	3.39	7.52	7.29	0.110	0.020	0.322	0.015	0.34	0.80	1.50	1.70	1.10	1.30
7	0.903	5.0	317.8	15.45	115.5	-	-	-	-	-	3.53	7.73	7.25	0.240	0.060	0.377	0.014	0.28	0.70	1.67	1.93	1.33	1.51
8	0.841	4.0	305.1	21.32	104.0	-	-	-	-	-	3.80	7.51	7.17	0.610	0,040	0.962	0.024	0.04	0.81	1.67	1.91	1.38	1.55
9	0.825	4.0	279.0	24.62	104.4	-	-		-	-	3.57	7.46	7.25	0.410	0.070	1.389	0.026	0.38	0.83	1.66	1.89	1.37	1.54
10	0.880	5.0	376.0	10.30	118.7	-	-	•	-	-	3.44	7.55	7.20	0.060	0.030	0.433	0.014	0.18	0.80	1.63	1.79	1.32	1.48
11	0.895	4.0	390.7	26.70	112.7	-	150	153	180	185	3,62	7.51	7.24	0.060	0,050	0.497	0.022	0.11	0.85	1.51	1.71	1.32	1.58
12	0.879	6.0	361.7	10.30	124.2	-	-	-	-	-	3.55	7.39	7.26	0.210	0.030	0.414	0.022	0.23	0.84	1.55	1.78	1.43	1.72
13	0.908	4.0	386.1	12.05	107.9	-	-	-		-	3.70	7.54	7.49	0.520	0.040	0.587	0.018	0.14	0.75	1.57	1.87	1.50	1.65
14	0.984	5.0	390,3	14.94	107.9	•	-	-	-	-	3.53	7.60	7.20	0,060	0.020	0.286	0.020	0.42	0.77	1.61	1.93	1.52	1.77
15	0.902	5.0	346.5	14.63	118.4	-	-	-	-	-	3.89	7.38	7.33	0.130	0.020	0.330	0.025	0.22	0.87	1.56	1.87	1.55	1.73
16	0.868	4.0	467.0	12.46	126.3	-	-	-	-	-	3.82	7.32	7.27	0.380	0.000	0.472	0.015	0.20	0.73	1.63	1.83	1.50	1.71
17	0.835	4,0	319.0	13.29	118.6	-	-	-	-	-	3.92	7.29	7.31	0.050	0,000	0.255	0.011	0.05	0.70	1.53	1.77	1.40	1.59
18	0.852	5.0	458.0	11.33	88.7	-	155	151	199	193	1.60	7.37	7.29	0.020	0.010	0.243	0.008	0.11	0.78	0.63	0.74	0.41	0.58
19	0.794	0.0	578.0	-	94.3	-	-	-	-	-	4.20	7.38	7.31	0.010	0.000	0.331	0.011	0.08	0.75	1.28	1.61	0.71	0.80
20	0.981	0.0	371.0	-	130.9	-	-	-	-	-	4.00	7.37	7.29	0.000	0.000	0.280	0.017	0.17	0.73	1.84	2.09	1.53	1.60
21	0.979	0.0	355,0	-	105.7	-	-	•	-	-	4.30	7.39	7.27	0.000	0.000	0.224	0.018	0.09	0.63	2.55	2.85	2.10	2.20
22	0.863	3.0	389.0	-	93,3	-	- "	-	-		4.10	7.41	7.29	0.000	0.010	0.247	0.018	0.10	0.71	2.47	2.65	2.12	2.20
23	0.922	1.0	347.0	18.12	65.9	-	-	-	-	-	4.10	7.39	7.39	0.000	0.000	0.240	0.021	0.11	0.71	2.24	2.44	2.10	2.20
24	0.888	1.0	270.0	13.18	73.1	-	-	-	-		4.20	7.41	7.28	0.000	0.000	0.239	0.019	0.14	0.72	2.16	2.43	2.08	2,20
25	0.879	1.0	264.0	2.16	63.4	-	-	-	-	-	3.83	7.40	7.35	0.080	0.030	0.319	0.024	0.22	0.72	1.67	1.82	1.46	1.68
26	0.831	2.0	252.0	0.00	2.4	9.1	-	-	-	-	1.59	7.39	7.41	0.020	0.060	0.274	0.023	0.27	0.71	1.23	1.38	1.32	1.43
27	0.808	1.0	308.9	0.00	0.7	34.8	147	157	197	193	0.97	7.44	7.39	0.030	0.030	0.281	0.023	0.28	0,50	1.09	1.28	0.97	1.09
28	0.911	1.0	349.6	0.00	0.0	2.1	-	-	· -	-	2.06	7.43	7.31	0.030	0.060	0.265	0.023	0.21	0,42	1.21	1.36	1.00	1.11
29	0.854	2.0	232.4	0.00	43.8	0.0	-	-		-	2.10	7.45	7.39	0.030	0.020	0.267	0.017	0.10	0.31	1.43	1.60	1.19	1.32
30	0.847	1.0	286.8	0.00	46.9	0.0	-		-	-	1.86	7.40	7.31	0.030	0.060	0.263	0.017	0.40	0.43	1.31	1.43	1.15	1.29
31	0.811	2.0	325,3	1.80	2.5	56,2	-	-	-	-	1.56	7.42	7.40	0.020	0.010	0.277	0.015	0.08	0.32	1.29	1.36	0.98	1.09
Total	27.508		9,097.0	297.84		102.2					22.5												
Max	0.984	45.0	578.0	26.70	134.3	56.2	177	157	199	193	4.40	7.73	7.49	0.610	0.070	1.389	0.026	0.42	0.88	2.55	2.85	2.12	2.20
Min	0.794	0.0	232.4	0.00	0.0	0.0	147	151	180	182	0.97	7.29	7.15	0.000	0.000	0.224	0.008	0.04	0.31	0.63	0.74	0.41	0.58
Avg	0.887	8.3	349.9	11.03	90.0	17.0	157	155	190	188	3,36	7.43	7.28	0.113	0.026	0,383	0.018	0.19	0.71	1.60	1.82	1.39	1.55

Site Wide Data	Fluoridation	
Phone Number: 502-509-6192		I certify under penalty of Isw, by this signature that this document was prepared by me, or under my direction, and the information submitted is to the best of my knowledge and being hou, accurate, and complete. I am also aware that there are significant penalties for submitting false information. Reported by. Cert or Reg Number: WT3-021307

2022-08-05T16:08:04.764Z

Indiana American Water - Charlestown WTP (PWSID IN5210003) - Form 100
Month Report of Operation - INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

	Monthly Report of Operat	tion - INDIANA DI	EPARTMENT OF EN	VIRONMENTAL M	IANAGEMENT																	
1918	Site Wide Data	Dist	nfection	Fluoridation	Corresion Inhibitor	10000	A Mark Meda Per			er a salah mesal			Separati	Water Chemistry	NAME OF STREET		5 - N (1)		or graph ordered		and water (
DATE	System Delivery Meter	Chlorine Gas	NaOCI Day Tank	HFA Day Tank	Ortho Phosphate Day Tank		Alkalinity	Hardnes	s (Weekly)	Phosphate		pН		Iron	M	anganese	L	Fluoride		orine	Distributi	ion System
	Treated Water (MGal)	Lbs used (Lbs)	Amount Used (Lbs)	Amount Used (Lbs)	Amount Used (Lbs)	Raw (mg/L)	Plant Effluent (mg/L)	Raw (mg/L-CaCO3)	Plant Effluent (mg/L-CaCO3)	Plant Effluent (mg/L)	Raw	Plant Effluent	Raw (mg/L)	Plant Effluent (mg/L)	Raw (mg/L)	Plant Effluent (mg/L)	Raw (mg/L)	Plant Effluent (mg/L)	Plant Effl. Free (mg/L)	Plant Effl. Total (mg/L)	Free Cl (mg/L)	Total Cl (mg/L)
1	0.854	1.0	329.8	4.70	72.1	-	-	-	-	3.49	7.62	7.30	0,020	0.000	0,651	0.010	0.30	0.45	1.33	1.57	1.10	1.36
2	0.821	1.0	357,4	17.20	55.7	-	-	-	-	3.85	7.47	7.37	0.040	0.020	0.283	0.018	0.24	0.55	1.18	1.38	1.04	1.22
3	0.835	2.0	338.3	14.60	37.5	157	156	178	182	2.56	7.50	7.34	0,040	0.020	0.279	0.006	0.40	0.61	1.31	1.41	1.10	1.25
4	0.854	2.0	374.4	18.20	45.7	-	-	-	-	3.85	7.82	7.37	0.020	0.030	0.270	0.024	0.23	0.96	1.45	1.70	1.03	1.20
5	0.809	1.0	361.4	17.70	37.1	-	-	-	-	3.34	7.53	7.30	0.040	0.040	0.270	0.003	0.30	0.72	1.64	1.89	1.13	1.30
6	0.818	2.0	353.6	17.70	38.1	-	-	-	-	3.47	7.39	7.21	0.040	0,010	0.278	0.008	0.09	0.78	1.67	1.86	1.45	1.64
7	0.842	1.0	391.4	19.00	41.2	-	-	-	-	3.57	7.40	7.26	0.060	0,030	0.265	0.002	0.49	0.85	1.68	1.92	1.60	1.70
8	0.905	2.0	361.4	18.00	38.9	156	153	183	190	3.76	7.49	7.36	0.020	0.020	0.270	0.007	0.04	0.79	1.87	2.31	1.59	1.79
9	0,825	2.0	369.6	23.80	39.6	-	-	-	-	3.70	7.53	7.36	0.050	0.020	0.248	0.011	0.26	0.73	1.61	1.95	1.66	1.90
10	0.850	3.0	245.7	14.10	26.4	-	-	-	-	3.76	7.51	7.40	0.020	0.010	0.265	0.000	0.26	0.73	1.68	1.90	1.68	1.86
11	0.859	2.0	263.4	16.80	7.9	-	-	-	-	3.85	7.48	7.32	0.020	0.020	0.272	0.011	0.21	0.74	1.63	1.89	1.50	1.73
12	0.850	2.0	381.2	21.70	40,9	-	-	-	-	3.68	7.36	7.27	0.010	0.010	0.271	0.009	0.22	0.73	1.53	1.86	1.46	1.63
13	0.840	2,0	239.3	14.40	28.4	-	T -	-	-	3.74	7.58	7.35	0,020	0.020	0.261	0.011	0.30	0.78	1.51	1.72	1.40	1.55
14	0.881	3.0	313.9	22.70	43.4	-	-	-	-	3,65	7.37	7.32	0.020	0.020	0.275	0.008	0.31	0.77	1.37	1.59	1.24	1.41
15	0.872	4.0	231.0	15.30	29.9	-	-	-	-	3.69	7.44	7.33	0.010	0.010	0.284	0.007	0.28	0.74	1.04	1.22	0.77	0.84
16	0.934	6.0	307.0	19.70	39.1	154	147	180	193	4.28	7.45	7.34	0.010	0.010	0.269	0.004	0.17	0.73	1.42	1.64	1.21	1.44
17	0.892	7.0	311.4	19.40	37.3	-	-	-	-	4.24	7.43	7.29	0,010	0.000	0.270	0.010	0.10	0.71	1.45	1.65	0.99	1.01
18	0.945	6.0	288.2	18.30	37.7	-	-	-	-	4.36	7.49	7.32	0,010	0.010	0.243	0.006	0.19	0.72	1.46	1.63	1.20	1.28
19	0.820	6.0	334.7	20.60	41.3	-	-	-	-	4.43	7.44	7.30	0,010	0.010	0.267	0.005	0.19	0.71	1.39	1.58	1.14	1.21
20	0.813	6.0	249.9	17.80	34.5	-	-	-	-	4.43	7.43	7.29	0,010	0.000	0.269	0.044	0.15	0.72	1.42	1.66	1.16	1.25
21	0.813	6.0	222.0	16.80	34.4	-	-	-	-	4.79	7.40	7.30	0.000	0.000	0.278	0.006	0.17	0.73	1.38	1.59	1.21	1.29
22	0.893	6.0	219.8	17.30	39.9	-	-	-	-	3.67	7.52	7.35	0.030	0.000	0.295	0.013	0.24	0.77	1.32	1.46	1.15	1.27
23	0,877	6.0	432.0	3.80	12.8	-	-	-	-	4.10	7.41	7.31	0.020	0.010	0.303	0.000	0.34	0.86	1.31	1.45	1.09	1.21
24	0,884	7.0	407.9	22,40	20.4	156	155	145	185	4.40	7.47	7.27	0.030	0.020	0.291	0.012	0.24	0.84	1.69	1.90	1.07	1.17
25	0.972	4.0	372.2	19.10	36,3	-	-	-	-	4.20	7.48	7.29	0.050	0.030	0.435	0.014	0.08	0,80	1.83	2.07	1.50	1.72
26	0.896	3.0	334.0	19.50	37.1	-	-	-	-	4.20	7.41	7.29	0.010	0.010	0.290	0.009	0.34	0.80	1.59	1.79	1.42	1.59
27	0.849	4.0	307.0	19.20	37.4	l -	-	-	-	4.40	7.47	7.38	0.010	0.010	0.291	0.011	0.30	0.71	1.51	1.78	1.42	1.61
28	0.912	3,0	326.3	18,90	36.1	-	-	-	-	4.00	7.45	7.26	0.020	0.000	0.301	0.015	0.35	0.80	1.39	1.57	1.34	1.61
29	0,840	3.0	309.0	19.00	36.7	-	T -	-	-	4.40	7.57	7.37	0.030	0.030	0.269	0.013	0.31	0.85	1.54	1.82	1.40	1.58
30	0,816	3.0	293.4	15.90	32.0	T -	-	-	T -	3.78	7.42	7.27	0,020	0.030	0.274	0.003	0.38	0.92	1.49	1.72	1.38	1.55
31	0.833	4.0	351.3	23.00	42.4	166	165	183	170	4.20	7.44	7.36	0.050	0.020	0.327	0.011	0.32	0.76	1.42	1.57	1.33	1.49
Total	26.704		9,977.9	546,60	1,138.2																	1700
Max	0.972	7.0	432.0	23.80	72.1	166	165	183	193	4.79	7.82	7.40	0.060	0.040	0,651	0.044	0.49	0.96	1.87	2.31	1.68	1.90
Min	0.809	1.0	219.8	3,80	7.9	154	147	145	170	2.56	7.36	7.21	0.000	0.000	0.243	0.000	0.04	0.45	1.04	1.22	0.77	0.84
Avg	0.861	3,5	321.9	17.63	36.7	158	155	174	184	3.93	7.48	7.32	0.024	0.015	0.294	0.010	0.25	0.75	1.49	1.71	1.28	1.44

Site Wide Data	Disinfection	Fluoridation	
Phone Number: 502-509-6192	Type of Cl Used: Gas	Type of FI Used: HFA	I certify under penalty of law, by this signature that this document was prepared by me, or under my direction, and the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am also aware that there are significant penalties for submitting false information.
	Cl Conc. %: 180%	FI Conc. %: 23%	but or my storage and being the according one companie. The use of the time are significant periodical to soonthing repair institution.
	Cl Test Method: DPD	FI Test Method: SPADNS	Reported by 9000 09/06/2022 Cert or Reg Number; WT3-021307

2022-09-07T01:12:12.007Z

OUCC Attachment CNS-3 Cause No. 45609 SEI-1 S1 Page 5 of 7

Indiana American Water - Charlestown WTP (PWSID IN5210003) - Form 100 september 2022 Monthly Report of Operation - INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

	Site Wide Data	Disir	fection	Fluoridation	Corrosion Inhibitor	Water Chemistry																
DATE	System Delivery Meter	Chlorine Gas	NaOCI Day Tank	HFA Day Tank	Ortho Phosphate Day Tank	-	Jkalinity	Hardnes	s (Weekly)	Phosphate		pH		Iron	Ma	nganese	F	luoride	Chl	orine	Distribut	ion System
JAIE	Treated Water (MGal)	Lbs used (Lbs)	Amount Used (Lbs)	Amount Used (Lbs)	Amount Used (Lbs)	Raw (mg/L)	Plant Effluent (mg/L)	Raw (mg/L-CaCO3)	Plant Effluent (mg/L-CaCO3)	Plant Effluent (mg/L)	Raw	Plant Effluent	Raw (mg/L)	Plant Effluent (mg/L)	Raw (mg/L)	Plant Effluent (mg/L)	Raw (mg/L)	Plant Effluent (mg/L)	Plant Effl. Free (mg/L)	Plant Effl. Total (mg/L)	Free Cl (mg/L)	Total Ci (mg/L)
1	0.871		259.8	15.30	32.1	-	-	-	1 -	3.64	7.48	7.37	0.080	0.000	0.291	0.010	0.13	0.87	1.35	1.58	1.30	1.48
2	0.809	3.0	325.6	19.10	35.7	-	-	-	-	3.63	7.49	7.32	0.010	0.010	0.297	0.013	0.34	0.89	1.35	1.56	1.18	1.35
3	0.738	3.0	279.0	16.60	31.2	-	•	-	-	3.54	7.46	7.30	0.020	0.010	0.301	0.011	0.35	0.72	1.32	1.60	1.18	1,38
4	0.765	3.0	260.0	15.00	29.0	-	-	-		3.66	7.48	7.30	0.020	0.020	0.288	0.018	0.35	0.90	1.48	1.66	1.13	1.30
5	0.817	2.0	345.1	20.00	38.0	-	-	-	-	3.66	7.45	7.30	0.030	0.020	0.294	0.035	0.27	0.71	1.44	1.65	1.33	1.49
6	0.814	3.0	320.1	16.90	31.3	151	154	195	189	3.68	7.43	7.29	0.020	0.020	0.301	0.017	0.17	0.79	1.44	1.66	1.29	1.52
7	0.827	4.0	320.4	18.80	37.4	-	-	-	-	3.41	7.49	7.34	0.020	0.020	0.290	0.011	0.23	0.76	1.45	1.70	1.29	1.46
8	0.846	2.0	323.3	19.10	35.3	-	-	-	-	3.36	7.43	7.31	0.010	0.010	0.302	0.013	0.31	0.78	1.49	1.82	1.48	1.69
9	0.811	-	281.0	16.10	31.7	-	-	-	-	3.54	7.42	7.32	0.020	0.020	0.289	0,009	0.17	0.75	1.35	1.55	1.35	1.51
10	0.758	-	326.9	19.00	35.7	-	-	-	-	3.52	7.41	7.37	0.020	0.000	0.299	0.005	0.40	0.73	1.33	1.60	1.17	1.33
11	0.815	-	280.6	14.70	30.3	-	-	-	-	3.52	7.40	7.36	0.010	0.000	0.300	0.017	0.38	0.73	1.32	1.57	1.13	1.32
12	0.815	-	379.9	22.20	37.4	152	148	191	194	3.53	7.40	7.37	0.020	0.010	0.294	0.014	0.33	0.74	1.29	1.54	1.17	1.40
13	0.816	-	330.8	16.50	39.2	-	-	-		3.73	7.39	7.45	0,020	0.010	0.097	0.017	0.27	0.73	1.27	1.51	1.17	1.31
14	0,831	-	509.5	30.60	51.6	155	152	199	190	4.28	7.40	7.40	0.010	0.000	0.302	0,013	0.19	0.74	1.28	1.58	0.76	0,93
15	0.875	-	242.0	13.90	25.2	-	-	-	-	3.87	7.40	7.41	0,000	0.000	0.293	0.011	0.39	0.71	1.25	1.44	1.09	1.25
16	0.861	-	294.6	17.10	32.9	-	-	-	-	4.11	7.42	7.40	0.000	0.000	0.234	0.001	0.16	0.73	1.10	1.38	0.96	1.15
17	0,832	-	280.0	17.20	29.9	-	-	-	-	3.95	7.41	7.39	0.010	0.000	0.287	0.010	0.19	0.72	1.11	1.35	1.11	1.22
18	0.876	-	360.4	21.60	38.6	-	-	-	-	3.96	7.39	7.38	0.010	0.010	0.288	0.011	0.16	0.73	1.12	1.31	1.08	1.21
19	0.860	-	239.6	17.30	29.5	-	-	-	-	3.28	7.50	7.43	0,030	0.030	0.333	0.015	0.17	0.77	1.03	1.23	0.93	1.12
20	0.778	-	398.2	21.80	37.7	-	-	-		3.21	7.46	7.33	0.020	0.010	0.321	0.015	0.33	0.76	1.01	1.19	0.85	1.02
21	0.905	-	267.6	9.70	35.3	-	-	-	-	4.10	7.41	7.42	0.020	0.020	0.311	0.012	0.34	0.79	1.07	1.53	0.91	1.07
22	0.864	-	345.7	19.50	34.5	-	-	-	-	4.00	7.48	7.31	0.040	0.030	0.324	0.019	0.27	0.68	1.29	1.52	1.23	1.44
23	0.794	-	382.9	23.80	37.8	150	150	193	188	3.80	7.47	7.34	0.030	0.030	0.311	0.016	0.24	0.68	1.21	1.54	0.91	1.00
24	0.799	-	176.8	13.70	24.8	-	-	-	-	3.80	7.42	7.31	0.030	0.030	0.307	0.018	0.17	0.77	1.48	1.68	1.00	1.13
25	0.838	-	380.3	23.00	40.5	-	-	-	_	4.10	7.45	7.39	0.030	0.030	0.308	0.011	0.17	0.66	1.20	1.51	1.39	1.56
26	0.846	-	180.0	14.70	27.0	-	-	•	-	3.37	7.56	7.43	0.000	0.030	0.316	0.014	0.21	0.68	1.56	1.70	1.41	1.56
27	0.879	-	377.0	18.70	34.9	-	-	•	-	3.41	7.44	7.40	0.020	0.030	0.312	0.025	0.04	0.87	1.11	1.34	0.93	1.04
28	0.814	-	505,6	24.60	. 39.0	149	148	195	191	3,80	7.51	7.40	0,000	0.020	0.307	800,0	0.27	0.70	1.62	1.81	1.38	1.56
29	0.856	-	333.4	14.50	29.7	-	-	-	-	3.17	7.44	7.39	0,040	0.060	0.316	0.020	0.32	0.78	1.43	2.35	1.05	1.15
30	0.820	-	383.2	21,00	34.0	•	-	-	T -	3,48	7.62	7.39	0,040	0.020	0.315	0.013	0.29	0.72	1.95	2.44	1.93	2.13
otal	24.830		9,689.3	552,00	1,027.2																	
łax	0.905	4.0	509.5	30.60	51.6	155	154	199	194	4.28	7.62	7.45	0.080	0.060	0.333	0.035	0.40	0.90	1.95	2.44	1.93	2.13
lin	0.738	2.0	176.8	9.70	24.8	149	148	191	188	3.17	7.39	7.29	0.000	0.000	0.097	0.001	0.04	0.66	1.01	1.19	0.76	0.93
vg	0,828	2.9	323.0	18.40	34.2	151	150	195	190	3.67	7.45	7.36	0.021	0.017	0.294	0.014	0.25	0.75	1.32	1.60	1.17	1.34

Site Wide Data	Disinfection	Fluoridation	
Phone Number: 502-509-6192	Type of Cl Used: Gas	Type of the occur. Time	I certify under penalty of law, by this signature that this document was prepared by me, or under my direction, and the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am also aware that there are significant penalties for submitting false information.
	Cf Conc. %: 100%	Fl Conc. %: 23%	My
	CI Test Method: DPD	FI Test Method: SPADNS	Reported by: Cert or Reg Number: WT3-021307

2022-10-10T13:27:12.412Z

Indiana American Water - Charlestown WTP (PWSID IN5210003) - Form 100 dotober 2022 Month Report of Genation-INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

1000	Site Wide Data	Disir	rfection	Fluoridation	Corrosion Inhibitor	.55(5)(0)		aput kasasaya. Et	\$11.00 KB\$		gyrtai.	ga, Arasan sesa.	4.00	Water Chemistry	- politica a	er itteren er er er		lejare, sauseen	0.1400-04[50.0000]		ARK PART	460,000,000
DATE	System Delivery Meter	Chlorine Gas	NaOCI Day Tank	HFA Day Tank	Ortho Phosphate Day Tank		Vikalinity	Hardnes:	s (V/eekly)	Phosphate		pН		Iron	Ma	nganese		Fluoride	Chle	orine	Distributi	ion System
DATE	Treated Water (MGal)	Lbs used (Lbs)	Amount Used (Lbs)	Amount Used (Lbs)	Amount Used (Lbs)	Raw (mg/L)	Plant Effluent (mg/L)	Raw (mg/L-CaCO3)	Plant Effluent (mg/L-CaCO3)	Plant Effluent (mg/L)	Raw	Plant Effluent	Raw (mg/L)	Plant Effluent (mg/L)	Raw (mg/L)	Plant Effluent (mg/L)	Raw (mg/L)	Plant Effluent (mg/L)	Plant Effl. Free (mg/L)	Plant Effl. Total (mg/L)	Free Cl (mg/L)	Total CI (mg/L)
1	0.855		356.8	17.90	32,6	-	-	-	1 -	3.31	7.57	7.41	0.030	0.020	0.316	0.018	0.21	0.84	1.90	2,36	1.59	1.87
2	0.824	-	328.6	17.40	33.0	-	-	-		3.39	7.73	7.41	0.040	0.010	0.310	0.015	0.11	0.71	2.08	2.52	1.88	2.10
3	0.866	-	302.5	19.10	31.9	155	145	216	212	3.58	7.68	7.37	0.010	0.010	0.335	0.011	0.33	0.75	1.86	2.15	0.88	1.02
4	0.840	•	319.7	21.20	34.7	-	-	-	-	3.40	7.67	7.34	0.030	0.000	0.317	0.007	0.19	0.74	1.68	2.02	1.41	1.57
5	0.851	-	395.9	20,30	36.5	-		-	-	3.58	7.70	7.35	0.020	0.010	0.353	0.009	0.21	0.72	1.58	1.82	1.18	1.32
6	0.848	-	296.3	17.10	30.5	-	-	-	-	3.49	7.73	7.35	0.050	0.020	0.529	0.015	0.18	0.76	1.49	1.77	1.27	1.44
7	0.823		337.6	21.00	35.9	-	-	-	-	3.59	7.71	7.35	0.020	0.010	0.310	0.011	0.22	0.74	1,55	1.77	1.14	1.32
8	0,839	-	280.7	18.10	31.3	-	-	-	-	3.52	7.66	7.33	0.010	0.010	0.308	0.014	0.22	0.75	1.56	1.77	1.37	1.56
9	0.814	-	256.2	15.50	27.0	-	-	-	-	3.68	7.69	7.35	0.010	0.010	0.318	0.012	0.14	0.76	1.47	1.74	1.37	1.52
10	0.866		347.4	21.40	37.7	-	-	-	-	3.90	7.71	7.38	0.020	0.020	0.339	0.016	0.34	0.78	1.39	1.58	1.04	1.17
11	0.838	-	288.8	18.50	33.4	149	147	190	199	3,90	7.55	7.35	0.010	0,010	0.329	0.013	0.19	0.84	1.26	1.62	1.16	1.35
12	0.860	-	301.2	17.10	32.2	-	-	-	-	3,80	7,53	7.31	0.010	0.010	0.331	0.016	0,05	0.71	1,38	1.62	1.01	1.18
13	0.812	-	310.2	18.40	33.8	-	-	-	-	4.40	7.60	7.32	0.010	0.010	0.322	0.014	0.10	0.71	1.44	1.69	1.10	1.29
14	0.816	-	303.7	18.00	31.7	-	-	-	-	3,80	7.60	7.28	0,020	0.020	0.324	0.009	0.23	0.83	1.48	1.65	1.10	1.28
15	0.774	-	285.8	15.70	28,5	-		-	-	4.20	7.63	7.32	0.020	0.020	0.316	0.017	0.09	0.88	1.55	1.82	0.91	1.07
16	0.849	-	354.3	20.00	34.6	-	-	-	-	4.10	7.61	7.34	0.030	0.020	0.312	0.007	0.14	0.85	1.53	1.80	0.96	1.08
17	0.814	-	264.4	16.30	29.7	-	-	-	-	3.57	7.62	7.39	0.020	0.020	0.321	0.006	0.12	0.98	1.43	1.79	1.19	1.35
18	0.774	-	229.3	15.50	27.2	148	145	194	204	3.47	7.63	7.37	0.010	0.010	0.321	0.004	0,06	0.77	1.39	1.62	1.10	1.21
19	0.774	-	295.9	21.10	36.1	-	-	-	-	3.41	7.53	7.37	0.030	0.010	0.389	0.013	0.27	0.91	1.30	1.64	1.16	1.29
20	0.777	+	254.0	18,80	32.2	-	-	-	-	3.56	7.50	7.41	0.030	0.010	0.361	0.017	0.19	0.88	1.29	1.57	1.22	1.47
21	0.807	-	175.5	13.70	24.7	-	-	-	-	3.36	7.51	7.34	0.020	0.010	0.318	0.015	0.26	0.68	1.25	1.62	1.15	1.31
22	0.718	-	223.3	17.50	29.7	-	-	-	-	4.10	7.49	7.37	0.070	0.050	0.302	0.017	0.34	0.85	1.11	1.48	0.97	1.09
23	0.791	-	275.5	19.40	34.6	-	-	-	-	3.90	7.68	7.37	0.030	0.020	0.322	0.002	0.27	0.84	1.17	1.51	0.97	1.14
24	0.764	-	264.7	17.70	30.1	149	140	206	200	3.57	7.75	7.35	0.010	0.010	0.306	0.011	0.25	0.73	1.15	1.34	1.10	1.27
25	0.762	-	289.8	14.50	27.6	-	-	-	-	3.50	7.67	7.34	0.020	0.020	0.328	0.008	0.29	0.79	1.16	1.37	1.01	1.14
26	0.701	•	284.5	16.10	28.1	-	-	-	-	3.77	7.63	7.33	0.020	0.020	0.328	0.007	0.22	0.70	1.41	1.60	1.23	1.41
27	0,669	•	326.3	19.20	33.6	-	-	-	-	3.60	7.73	7.34	0.020	0.010	0.313	0.009	0.23	0.77	1.50	1.67	1.55	1.82
28	0.797	-	268.3	16,30	27.4	-	T -	-	-	3,60	7.73	7.33	0.020	0.010	0.312	0.006	0.17	0.74	1.55	1.79	1.44	1.63
29	0.766	*	335.6	20,40	36.9	-	l -	-	-	3,57	7.65	7.35	0.030	0.020	0.321	0.012	0,22	0.75	1.57	1.83	1.31	1.56
30	0.764	-	180.7	11.80	20.2	-	-	-	-	3.54	7.68	7.34	0.020	0.010	0.311	0.005	0.36	0.78	1.57	1.87	1.27	1.52
31	0.750	-	254.3	16.60	27.6	-	-	-		4.00	7.60	7.34	0.020	0.010	0.300	0.003	0.18	0.83	1.43	1.73	1.43	1.59
Total	24.803		8,987.8	551,60	971.0																	
Max	0.866	-	395.9	21.40	37.7	155	147	216	212	4.40	7.75	7.41	0.070	0.050	0.529	0.018	0.36	0.98	2.08	2.52	1.88	2.10
Min	0.669	-	175.5	11.80	20.2	148	140	190	199	3.31	7.49	7.28	0.010	0.000	0.300	0.002	0.05	0.68	1.11	1.34	88.0	1.02
Avg	0.800	-	289.9	17.79	31.3	150	144	202	204	3.68	7.64	7.35	0.023	0.015	0.330	0.011	0.21	0.79	1.47	1.75	1.21	1.39

Site Wide Data	Disinfection	Fluoridation	The state of the s
Phone Number: 502-509-6192	Type of Cl Used: Gas Cl Conc. %: 100%	Type of Fl Used: HFA Fl Conc. %: 23%	I certify under penalty of law, by this signature that this document was prepared by me, or under my direction, and the information submitted is to the best of my knowledge and bytef, true, accurate, and complete. I am also aware that there are significant penalties for submitting false information.
	Cl Test Method: DPD	FI Test Method: SPADNS	Reported by: Cert or Reg Number: WT3-021307

2022-11-02T13:20:54.404Z

OUCC Attachment CNS-3 Cause No. 45609 SEI-1 S1 Page 7 of 7

Indiana American Water - Charlestown WTP (PWSID IN5210003) - Form 100
November 2022:
November 40 Charlestown NINIAMA READTHENT OF ENTREMEDIAL HANGEMENT

0,555	Site Wide Data	Disinfection	Fluoridation	Corrosion Inhibitor	14.1	asibelar india					0.0000000000000000000000000000000000000	155,530	Water Chemistry	4,515.55		\$1.94 × 101	3,44,439,434,54	egales servición i		St. 10 - 50	-00.5110
40000	System Delivery Meter	NaOCl Day Tank	HFA Day Tank	Ortho Phosphate Day Tank	-	dkalinity	Hardnes:	(Weekly)	Phosphate	Π_	Hq		Iron	l M	anganese		Fluoride	Chle	orine	Distributi	on System
DATE	Treated Water (MGal)	Amount Used (Lbs)	Amount Used (Lbs)	Amount Used (Lbs)	Raw (mg/L)	Plant Effluent (mg/L)	Raw (mg/L-CaCO3)	Plant Effluent (mg/L-CaCO3)	Plant Effluent (mg/L)	Raw	Plant Effluent	Raw (mg/L)	Plant Effluent (mg/L)	Raw (mg/L)	Plant Effluent (mg/L)	Raw (mg/L)	Plant Effluent (mg/L)	Plant Effl. Free (mg/L)	Plant Effl. Total (mg/L)	Free Cl (mg/L)	Total Cl (mg/L)
1	0.735	258,5	15.90	29,3	148	153	200	191	3.80	7.57	7.33	0.020	0.020	0.286	0.005	0.21	0.71	1.37	1,60	1,32	1.51
2	0.761	268.9	19.90	34.3	-	-	-	-	3.80	7.60	7.30	0.020	0.020	0.309	0.013	0.27	0.78	1.26	1.49	1.25	1.46
3	0.719	211.3	15.70	27.0	-	l -	-	-	4.20	7.58	7.29	0.030	0,030	0.315	0.013	0.35	0.84	1.09	1.26	1.03	1.22
4	0.726	211.9	16.70	28.2	-	-	-	-	4.00	7.60	7.31	0.020	0.010	0.316	0.009	0.28	0.76	1.02	1.21	0.96	1.14
5	0.762	237.3	16.20	30.3	-	-	-	-	4.20	7.63	7.31	0.030	0.020	0,306	0.008	0.31	0.87	0.95	1.14	0.88	1.03
6	0.753	244.8	17.50	30.5	-	-	-	-	4.10	7.69	7.29	0.020	0.020	0.310	0.014	0.36	0.82	0.93	1.15	0.81	0.94
7	0.768	252.7	18.80	32.4	149	142	217	212	3,44	7.70	7.34	0.030	0.020	0.311	0.003	0.13	0.91	0.93	1.23	0.72	0.97
8	0.717	230.2	16.70	29.3	-	-	-	-	4.10	7.48	7.37	0.030	0.020	0.327	0.006	0.14	0.72	0.96	1.15	0.88	1.03
9	0.715	232.5	16.30	28.4	-	-	-	-	4.00	7.45	7.37	0.040	0.020	0.638	0.012	0.17	0.71	0.94	1.24	0.84	0.99
10	0.756	493.9	16.50	28.8	-	-	-	-	4.10	7.47	7.35	0.070	0.020	0.340	0.012	0.34	0.92	0.91	1.32	0.88	1.09
11	0.713	265.1	17.20	34.3	-	-	-	-	4.00	7.47	7.32	0.040	0.010	0.320	0.009	0.26	0.74	1.02	1.30	0.98	1.28
12	0.705	187.2	14.10	24.5	-	-		-	3.90	7.53	7.35	0.030	0.020	0.331	0.013	0.24	0.90	1.14	1.27	1.12	1.22
13	0.571	199.6	14.50	25.1	-	-	-	-	4.10	7.50	7.34	0.050	0.020	0.334	0.006	0.15	0.82	1.00	1.20	0.80	1.02
14	0.984	398.8	26.20	44.8	145	140	211	209	3.49	7.65	7.34	0.010	0.010	0.319	0.012	0.17	0.77	0.93	1.11	0.74	0.99
15	1.189	458.8	29.60	51.7	-	-	-	-	3.55	7.72	7.36	0.020	0.020	0.324	0.013	0.32	0.74	1.22	1.48	1.05	1.26
16	1.129	360.7	23.60	41.7	-	-	-	-	3.50	7.66	7.32	0.030	0.010	0.327	0.011	0.30	0.79	1.29	1.55	1.25	1.52
17	1.169	465.6	24.00	42.1	•	-	-	-	3.52	7.69	7.36	0.030	0.010	0.344	0.011	0.13	0.72	1.25	1.55	1.16	1.37
18	0.974	337.2	17.80	32.6	-	-	-	-	3.52	7.69	7.34	0.020	0.010	0.336	0.016	0.31	0.73	1.22	1.46	1.04	1.25
19	1.162	470.4	27.70	48.2	-	-	-	-	3.52	7.63	7.36	0.010	0.010	0.318	0.011	0.29	0.71	1.27	1.45	0.88	1.01
20	0.739	297.9	16.80	30.5	-	-	-	-	3.55	7.64	7.36	0.020	0.010	0.375	0.019	0.27	0.74	1.26	1.51	1.17	1.37
21	0.878	315.9	18.70	32.8	-	-	-	-	4.00	7.71	7.36	0.030	0.030	0.358	0.019	0.28	0.80	1.40	1.65	1.36	1.51
22	0.680	206.4	12.10	23.0	145	143	213	185	4.20	7.69	7.35	0.010	0.010	0.343	0.022	0.28	0.78	1.44	1.75	0.91	1.11
23	1,000	410.2	26.00	45.3	-	-	-	-	4.10	7.71	7.36	0.010	0.010	0.339	0.017	0.22	0.72	1.40	1.71	1.21	1.39
24	0.702	261.4	16.70	29.2	-	-	-	-	4.10	7.72	7.38	0.010	0.010	0.324	0.017	0.27	0.74	1.42	1.72	1.45	1.69
25	0.659	232.8	15.50	25.8	-	-	-	-	4.10	7.70	7.39	0.020	0.010	0.348	0.014	0.33	0.80	1.40	1.63	0.83	0.95
26	0.660	270.9	14.50	26.1	-	-	-	-	3.90	7.74	7.37	0.020	0.010	0.339	0.017	0.33	0.78	1.29	1.57	1.28	1.48
27	0.708	235.7	13.40	23.5	-	-	-	-	4.10	7.72	7.38	0.020	0.020	0.336	0.011	0.27	0.81	1.67	1.95	1.43	1.61
28	1,135	444.0	24.50	45.4	-	-	-	-	4.20	7.61	7.41	0.050	0.000	0.335	0.023	0.06	0.72	1.72	2.02	1.68	1,88
29	1.178	417.0	25.60	43.6	148	141	185	196	4.00	7.70	7.41	0.030	0.030	0.353	0.011	0.09	0.84	1.67	1.91	1.61	1.83
30	0.877	299.5	-	33.2	-	-	-	-	4.10	7,50	7.36	0.110	0.010	0.905	0.012	0.31	0.69	1,50	1.75	1.46	1.62
Total	25,224	9,177.1	548.70	1,001.9										7763							
Max	1.189	493.9	29,60	51.7	149	153	217	212	4.20	7.74	7.41	0.110	0.030	0.905	0,023	0.36	0.92	1.72	2,02	1.68	1.88
Min	0.571	187.2	12.10	23.0	145	140	185	185	3.44	7.45	7.29	0.010	0,000	0.286	0.003	0.06	0.69	0.91	1.11	0.72	0.94
Avg	0.841	305.9	18.92	33.4	147	144	205	199	3.91	7.63	7.35	0.029	0.016	0.359	0.013	0.25	0.78	1.23	1.48	1.10	1.29

Site Wide Data	Disinfection	Fluoridation	Billian Billian Carlo and Carlo
Phone Number: 502-509-6192	Type of Cl Used: Gas Cl Conc. %: 100% Cl Test Method: DPD	Type of FI Used: HFA FI Conc. %: 23% FI Test Method: SPADNS	I certify under penalty of law by this alguature that this document was prepared by me, or under my direction, and the information submitted is to the best of my foundedge and seller, true, accurate, and complete. I am also aware that there are significant penalties for submitting false information. Reported by Cert or Reg Number: WT3-021307

2022-12-07T20:53:10.550Z

