



FILED
December 5, 2024
INDIANA UTILITY
REGULATORY COMMISSION

1010 N. HURRICANE ROAD
P.O. BOX 55
FRANKLIN, INDIANA 46131
(317) 738-4577
FAX (317) 738-9295

Cause No.
46171

FULLER WELL 1

Well Formation Log

City of Anderson - Fuller Property - Test Well 22-1

X	TEST	DATE	7-19-22	State	Indiana	Project	5016-F
		Well No	TW #1	City	Anderson	Section	5
	PERMANENT	UTM 16T	613906	County	Madison	Township	20N
		UTM	4452913	Civil Twsp		Range	8E

OWNER City of Anderson - Fuller Property - CR 800

LAND DESCRIPTION 1088' E of N State Road 9

Street or Road 201' S of CR 800W

FORMATION	From Natural Ground Level			
	Depth top of stratum (ft)	Depth bottom of stratum (ft)	Thickness of stratum	Static Water level
Top soil	0	1	1	
Gray clay	1	10	9	
Sand and gravel	10	17	7	
Hard gray clay w/ gravel	17	33	16	
Sandy gray clay-coarse sand mix	33	43	10	
Hard gray clay w/ gravel	43	48	5	
Fine medium coarse sand & gravel	48	50	2	
Fine medium coarse sand & gravel-1-3" rocks	50	58	8	
Very fine medium coarse sand-				
fine medium coarse gravel 1-2" rocks	58	60	2	
Semi dry sand w/fine medium coarse gravel	60	65	5	
Fine medium coarse sand-fine to coarse gravel-				
some 2" rocks	65	72	7	
Fine to medium semi dry sand	72	82	10	
Tight packed, hard dry clay mix	82	87	5	
Fine medium coarse sand & gravel-1-3" rocks	87	88	1	

Hole 24" dia Drilled by Cable Tool

Rotary Hole Grouted with _____

Casing _____ OD from _____ above grade to _____ below grade.

Screen _____ set from _____ to _____ feet Weight _____

Make _____ Type _____ Slot _____

Pumping test _____ GPM drawdown to _____ feet after _____ hours pumping.

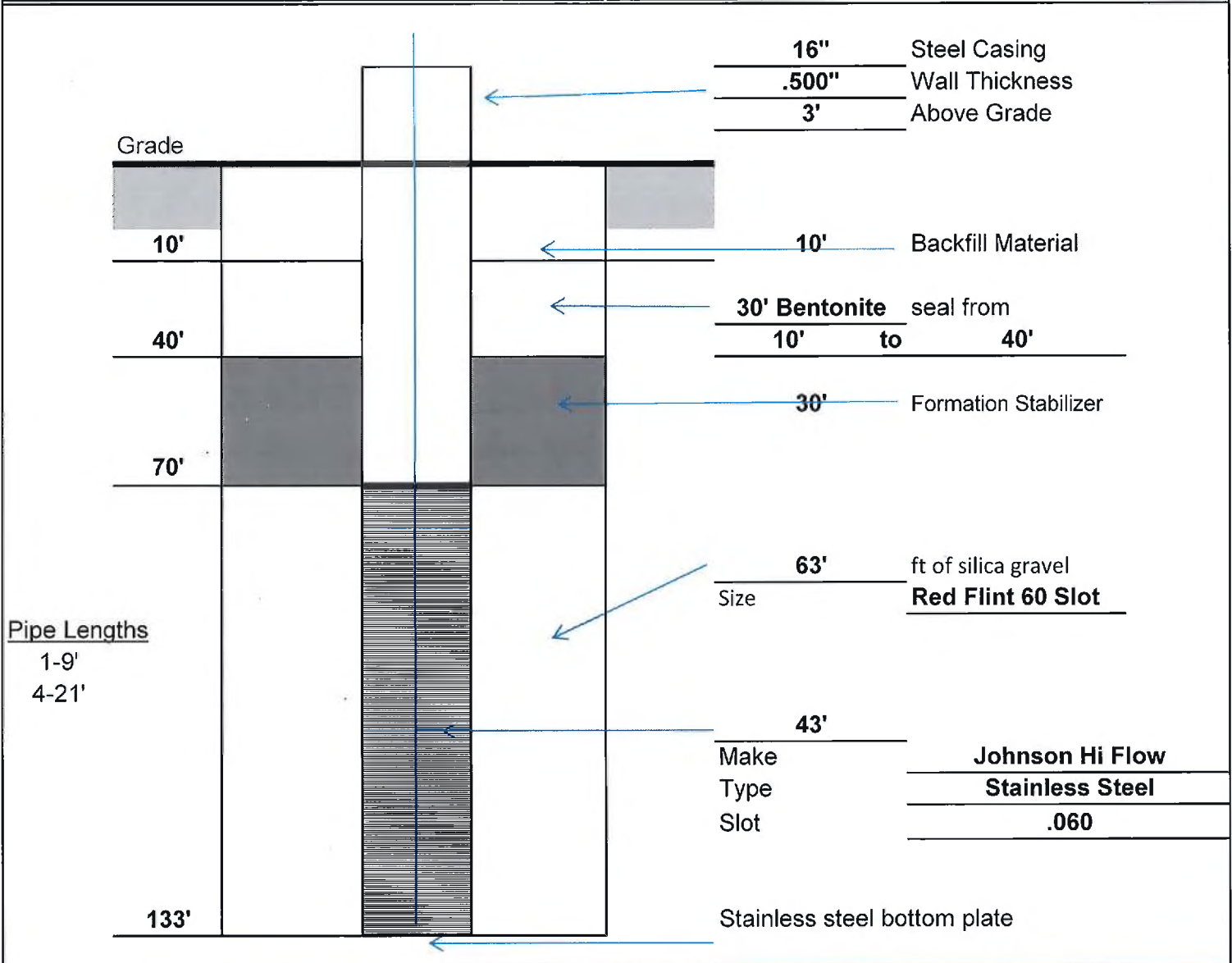
	Driller	Jim Parsley License #2058 WD PI
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FULLER WELL 1

Well Formation Log							
City of Anderson - Fuller Property - Test Well 22-1							
X	TEST	DATE	7-19-22	State	Indiana	Project	5016-F
		Well No	TW #1	City	Anderson	Section	5
	PERMANENT	UTM 16T	613906	County	Madison	Township	20N
		UTM	4452913	Civil Twsp		Range	8E
OWNER		City of Anderson - Fuller Property - CR 800					
LAND DESCRIPTION		1088' E of N State Road 9					
Street or Road		201' S of CR 800W					
FORMATION			From Natural Ground Level				
			Depth top of stratum (ft)	Depth bottom of stratum (ft)	Thickness of stratum	Static Water level	
Very fine to coarse dry sand			88	89	1		
Fine medium coarse sand & gravel-1-3" rocks			89	92	3		
Fine to coarse sand-fine medium coarse gravel-large rocks/boulders			92	98	6		
Very fine medium coarse sand - fine medium coarse gravel-some 2" rocks			98	100	2		
Very fine medium coarse sand-some fine gravel			100	101	1		
Very fine medium coarse sand & gravel			101	106	5		
Tight pack to coarse sand			106	111	5		
Fine medium coarse sand-fine gravel			111	113	2		
Fine medium coarse sand & gravel-1-3" rocks-some larger-soft sand gravel mix			113	118	5		
Fine medium coarse sand & gravel-1-3" rocks			118	120	2		
Fine medium coarse sand & gravel - 1-2" rocks			120	125	5		
Fine medium coarse sand & gravel -2-3" rocks/boulders			125	127	2		
Hole		24"	dia		Drilled by		Cable Tool
Rotary Hole Grouted with _____							
Casing		_____	OD from _____		above grade to _____		below grade.
Screen		_____	set from _____		to _____		feet Weight _____
Make		_____	Type _____		Slot _____		
Pumping test		GPM drawdown to _____		feet after _____		hours pumping.	
				Driller	Jim Parsley License #2058 WD PI		

City of Anderson - Fuller - Well #1 - Gravel Wall Well Print

Customer	City of Anderson	Gravel Wall Well #	Fuller Well #1
Date	10/10/2022	County	Madison
Job#	5016-F	Twsp	20N
Location	Fuller Well Field	Section	5
Tower Height		State	8E



Specific Capacity	32.14	Static level	8.31	Fill used from bottom up	
Drawdown	65.96	pumped	2120	Silica gravel	133' - 70'
GPM at a	74.27	pumping level for		Fill from	70' - 40'
72 hours.				Form. Stabil.	40' - 10'
				Bentonite seal	
Driller:	Jim Parsley - License #2058 WD PI			Date:	10/10/2022

Well Formation Log

City of Anderson - Test Well 22-1

X	TEST	DATE	1-6-22	State	Indiana	Project	4971-F
		Well No	22-1	City	Anderson	Section	5
	PERMANENT	UTM 16T	0613914	County	Madison	Township	20N
		UTM	4452909	Civil Twsp		Range	8E

OWNER City of Anderson

LAND DESCRIPTION 200' S of CR800 W - 1,082' E of SR 9

Street or Road 225' E of W Property Line

FORMATION	From Natural Ground Level			
	Depth top of stratum (ft)	Depth bottom of stratum (ft)	Thickness of stratum	Static Water level
Top soil	0	1	1	
Gray clay w/ gravel	1	10	9	
Fine medium coarse sand & gravel	10	15	5	
Gray clay	15	16	1	
Fine medium coarse sand & gravel w/clay	16	19	3	1'6"
Sandy gray clay	19	61	42	Above Grade
Very sandy gray clay w/ gravel	61	68	7	
Fine medium coarse sand-fine to coarse gravel	68	75	7	
Fine medium coarse sand-fine to coarse gravel-				
large rocks - 2-3"	75	78	3	
Fine medium sand-trace of fine to med gravel-				
trace of clay	78	81	3	
Sandy gray clay w/ gravel	81	88	7	
Fine medium coarse sand-some fine to coarse				
gravel - boulders	88	92	4	
Boulders	92	98	6	

Hole 6" dia **Drilled by** Cable Tool

Rotary Hole Grouted with

Casing 6 5/8" OD from 3' above grade to 130' below grade.

Screen 5" set from 128' to 133' feet **Weight** 18.97

Make Shop **Type** PVC **Slot** .020

Pumping test GPM drawdown to _____ feet after _____ hours pumping.

Driller

Well Formation Log

City of Anderson - Test Well 22-1

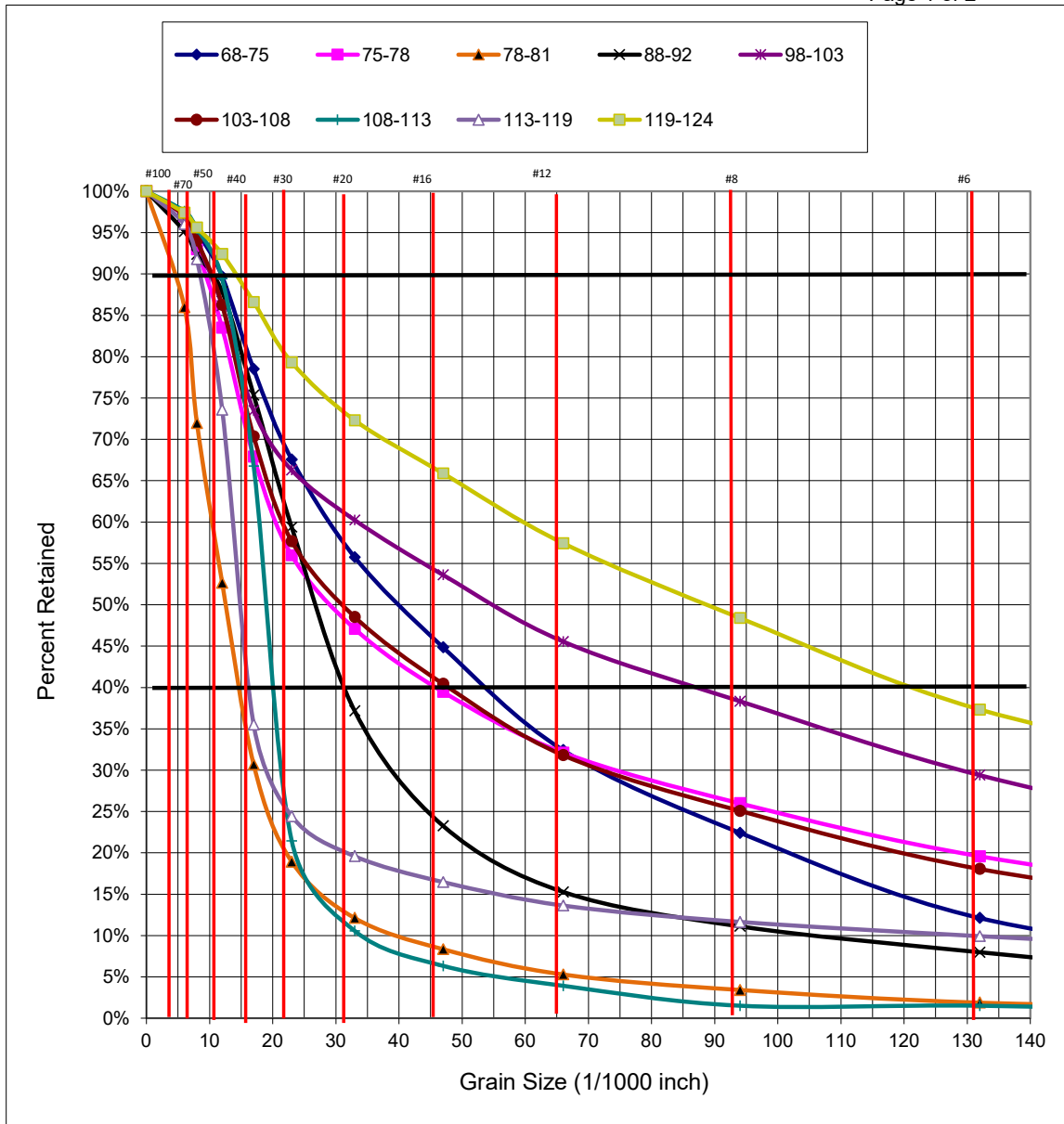
X	TEST	DATE	1-6-22	State	Indiana	Project	4971-F
		Well No	22-1	City	Anderson	Section	5
	PERMANENT	UTM 16T	0613914	County	Madison	Township	20N
		UTM	4452909	Civil Twsp		Range	8E

OWNER	City of Anderson
LAND DESCRIPTION	200' S of CR800 W - 1,082' E of SR 9
Street or Road	225' E of W Property Line

FORMATION	From Natural Ground Level			
	Depth top of stratum (ft)	Depth bottom of stratum (ft)	Thickness of stratum	Static Water level
Fine medium coarse sand & gravel	98	103	5	
Fine medium coarse sand-fine to coarse gravel	103	108	5	
Fine medium coarse sand - fine gravel	108	113	5	
Fine medium coarse sand-fine to coarse gravel-				
large rocks-boulders	113	119	6	
Fine medium coarse gravel-medium to coarse				
sand	119	124	5	
Fine medium coarse gravel-medium to coarse				
sand - large rocks 2-3"	124	129	5	
Fine medium coarse sand & gravel	129	133	4	
Sandy gray clay	133	134	1	
Limestone	134	136	2	

Hole	6" dia	Drilled by	Cable Tool		
Rotary Hole Grouted with _____					
Casing	6 5/8"	OD from	3'	above grade to	130' below grade.
Screen	5"	set from	128'	to 133'	feet Weight 18.97
Make	Shop	Type	PVC	Slot	.020
Pumping test	GPM drawdown to _____ feet after _____ hours pumping.				

	Driller	Rex Bussinger License #768 WD PI
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Job Name City of Anderson TW22-1
Location Anderson, IN
Driller Bastin Logan

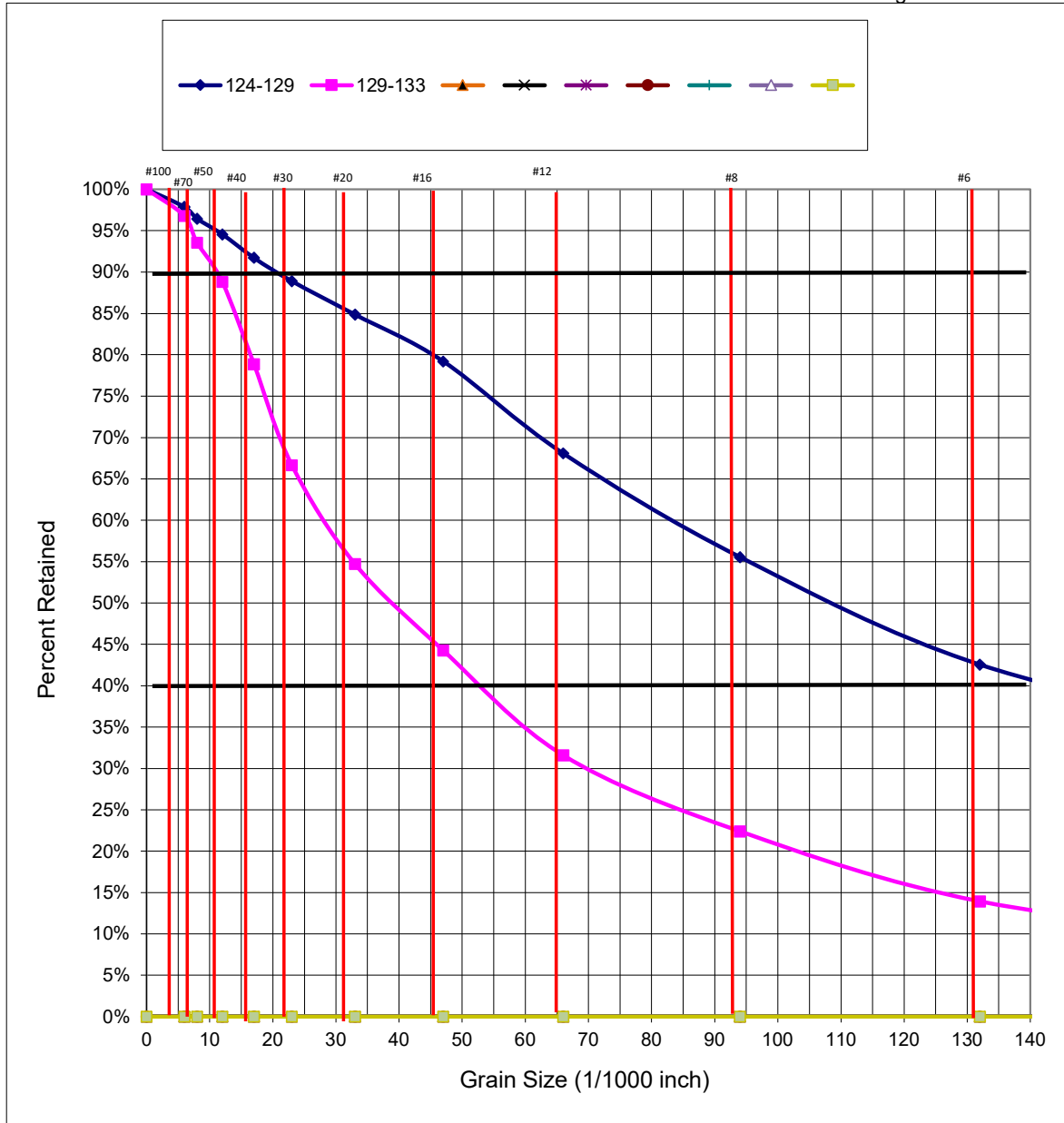
Sample ID 011122-11
Analyzed by: Duvall, Steven
Date: 1/11/2022

Casing ϕ 24 in
Screen ϕ 24 TEL

Desired Yield 1000+ GPM
SWL (ft) 1" to 6" above grade

50 slot (0.050") 71'-77' & 101'-107', 15 slot (0.015") 107'-122', 100 slot (0.100")
Recommended Slot Size 122'-128', 50 slot (0.050") 128'-133' bgs.
Recommended Gravel Pack Natural Development

Based exclusively on the samples provided by the contractor, a sieve analysis graph and suggested screen slot size is provided as requested. Since numerous construction considerations and site circumstances influence successful well completion, Johnson Screens assumes no responsibility for final well performance nor awareness of local regulations pertaining to well installations.



Job Name City of Anderson TW22-1
Location Anderson, IN
Driller Bastin Logan

Sample ID 011122-11
Analyzed by: Duvall, Steven
Date: 1/11/2022

Casing ϕ 24 in
Screen ϕ 24 TEL

Desired Yield 1000+ GPM
SWL (ft) 1" to 6" above grade

Recommended Slot Size See page 1 of 2.
Recommended Gravel Pack Natural Development

Based exclusively on the samples provided by the contractor, a sieve analysis graph and suggested screen slot size is provided as requested. Since numerous construction considerations and site circumstances influence successful well completion, Johnson Screens assumes no responsibility for final well performance nor awareness of local regulations pertaining to well installations.

Well Formation Log

City of Anderson - Test Well 22-2

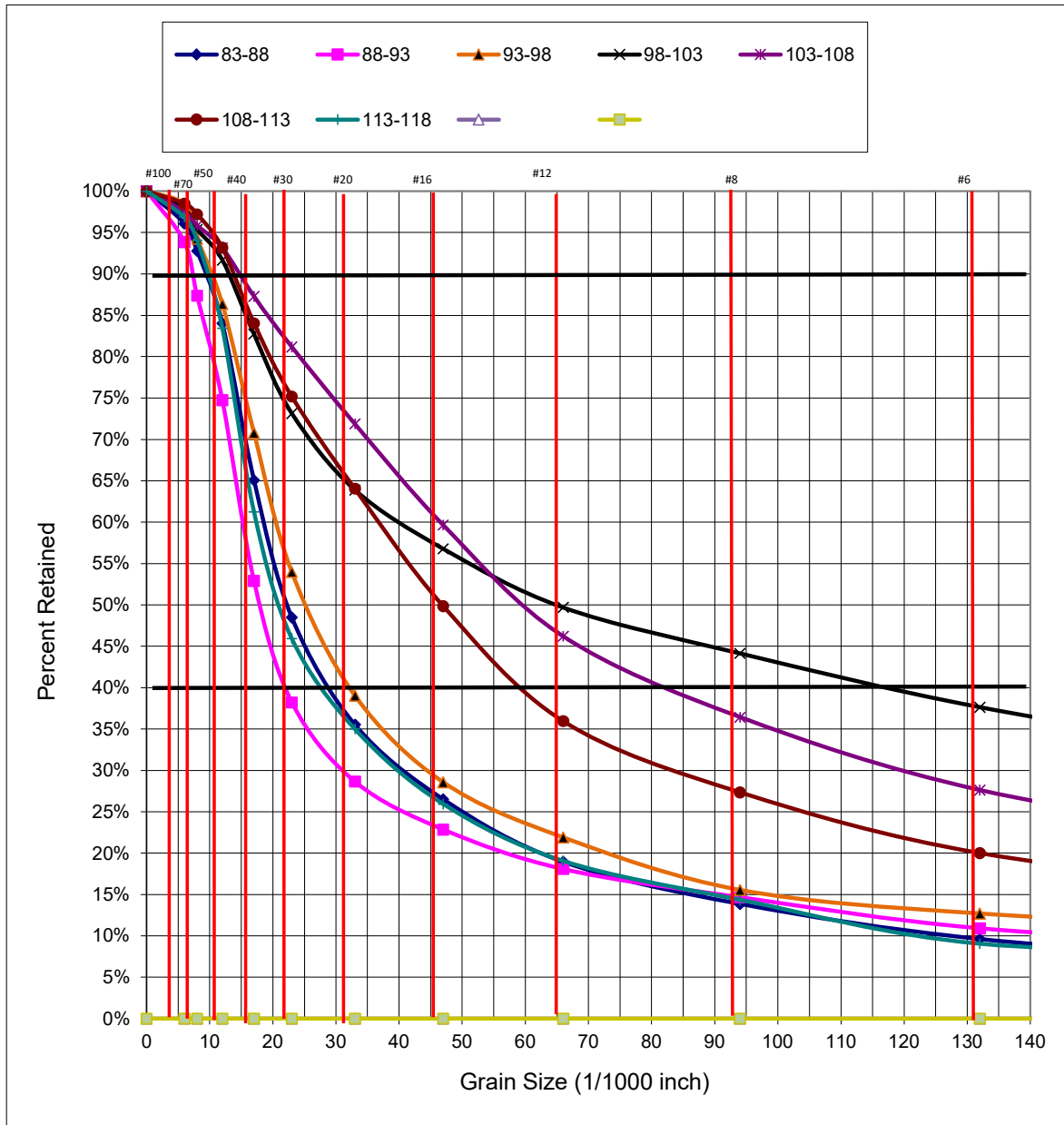
X	TEST	DATE	1-21-22	State	Indiana	Project	4971-F
		Well No	22-2	City	Anderson	Section	5
	PERMANENT	UTM 16T	0613932	County	Madison	Township	20N
		UTM	4452881	Civil Twsp		Range	8E

OWNER	City of Anderson
LAND DESCRIPTION	100' N of S Property Line - 100' W of E Property Line
Street or Road	312' S of SR9 - 1,155' E of SR 9

FORMATION	From Natural Ground Level			
	Depth top of stratum (ft)	Depth bottom of stratum (ft)	Thickness of stratum	Static Water level
Top soil	0	1	1	
Brown clay w/gravel	1	9	8	
Sandy brown clay w/gravel	9	11	2	
Fine medium coarse sand & gravel-lg rocks 2-3"	11	15	4	
Fine medium coarse sand & gravel-boulders	15	19	4	6'
Sandy gray clay	19	22	3	
Brown clay	22	39	17	
Sandy brown clay w/gravel	39	48	9	
Sandy gray clay	48	66	18	
Fine medium coarse sand & gravel	66	71	5	
Sandy gray clay w/gravel	71	83	12	
Fine medium coarse sand-fine to coarse gravel	83	88	5	
Fine medium coarse sand-fine to coarse gravel	88	93	5	
Fine medium coarse sand-fine to coarse gravel	93	98	5	
Fine medium coarse sand & gravel-lg rocks 2-3" and boulders	98	103	5	

Hole	6" dia	Drilled by	Cable Tool		
Rotary Hole Grouted with _____					
Casing	6 5/8" OD from	3' above grade to	116' below grade.		
Screen	5" set from	110' to 120' feet	Weight	18.97	
Make	Shop Type	PVC Slot	.040		
Pumping test	GPM drawdown to _____ feet after _____ hours pumping.				

	Driller	
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Job Name City of Anderson TW22-2
Location Anderson, IN
Driller Bastin Logan

Sample ID 012822-7
Analyzed by: Duvall, Steven
Date: 1/31/2022

Casing ϕ 16 in
Screen ϕ 16 in

Desired Yield 1000+ GPM
SWL (ft) 6

Recommended Slot Size 60 slot (0.060") 88'-118' bgs.
Recommended Gravel Pack Red Flint #60

Based exclusively on the samples provided by the contractor, a sieve analysis graph and suggested screen slot size is provided as requested. Since numerous construction considerations and site circumstances influence successful well completion, Johnson Screens assumes no responsibility for final well performance nor awareness of local regulations pertaining to well installations.

APPENDIX B.

**WATER-LEVEL DATA FROM PUMPING TESTS
OF FULLER WELL 1**

**City of Anderson
Fuller Well #1
Step Test
October 13, 2022**

Monitoring Point 3'6" above grade

Page 1

Date	Time	Pumping Level (ft)	GPM	Static Water Level (ft)
10/13/2022	9:00 AM			8.31
	9:01 AM	22.42	768	
	9:02 AM	22.92		
	9:03 AM	23.31		
	9:04 AM	23.42		
	9:05 AM	23.60		
	9:06 AM	23.75		
	9:07 AM	23.86		
	9:08 AM	24.00		
	9:09 AM	24.10		
	9:10 AM	24.21	768	
	9:15 AM	24.51		
	9:20 AM	24.73		
	9:25 AM	24.86		
	9:30 AM	25.01		
	9:35 AM	25.09		
	9:40 AM	25.20		
	9:45 AM	25.28		
	9:50 AM	25.34		
	9:55 AM	25.41		
	10:00 AM	25.45	768	
	10:01 AM		1167	
	10:02 AM	35.59		
	10:03 AM	36.02		
	10:04 AM	36.16		
	10:05 AM	36.26		
	10:06 AM	36.41		
	10:07 AM	36.45		
	10:08 AM	36.53		
	10:09 AM	36.57		
	10:10 AM	36.64	1167	
	10:15 AM	36.85		
	10:20 AM	37.01		
	10:25 AM	37.13		



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City of Anderson
Fuller Well #1
Step Test
October 13, 2022

Monitoring Point 3'6" above grade

Page 2

Date	Time	Pumping Level (ft)	GPM	Static Water Level (ft)
10/13/2022	10:30 AM	37.24	1167	
	10:35 AM	37.34		
	10:40 AM	37.43		
	10:45 AM	37.51		
	10:50 AM	37.61		
	10:55 AM	37.65		
	11:00 AM	37.71	1167	
	11:01 AM		1609	
	11:02 AM	48.58		
	11:03 AM	48.93		
	11:04 AM	49.13		
	11:05 AM	49.34		
	11:06 AM	49.46		
	11:07 AM	49.60		
	11:08 AM	49.68		
	11:09 AM	49.76		
	11:10 AM	49.82	1609	
	11:15 AM	50.06		
	11:20 AM	50.25		
	11:25 AM	50.37		
	11:30 AM	50.50		
	11:35 AM	50.58		
	11:40 AM	50.69		
	11:45 AM	50.75		
	11:50 AM	50.82		
	11:55 AM	50.88		
	12:00 PM	50.95	1609	
	12:01 PM	67.32	2183	
	12:02 PM	68.11		
	12:03 PM	68.37		
	12:04 PM	68.64		
	12:05 PM	68.77		
	12:06 PM	68.91		
	12:07 PM	69.00		



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**City of Anderson
 Fuller Well #1
 72 Hour Production Test
 October 17, 2022**

Monitoring Point taken from 3'6" above grade

Page 1

Date	Time	Pumping Level (ft)	GPM	Static Water Level (ft)
10/17/2022	8:00 AM			8.30
	8:15 AM			8.31
	8:30 AM			8.30
	8:45 AM			8.30
	9:00 AM			8.31
Start Test	9:01 AM	64.91	2120	
	9:02 AM	66.63		
	9:03 AM	67.33		
	9:04 AM	67.80		
	9:05 AM	68.09		
	9:06 AM	68.38		
	9:07 AM	68.54		
	9:08 AM	68.79		
	9:09 AM	68.89		
	9:10 AM	69.02	2120	
	9:15 AM	69.57		
	9:20 AM	69.90		
	9:25 AM	70.15		
	9:30 AM	70.34		
	9:35 AM	70.54		
	9:40 AM	70.67		
	9:45 AM	70.80	2120	
	9:50 AM	70.89		
	9:55 AM	70.96		
	10:00 AM	71.04		
	10:10 AM	71.21		
	10:20 AM	71.40		
	10:30 AM	71.45		
	10:40 AM	71.56		
	10:50 AM	71.62		
	11:00 AM	71.71	2120	
	11:15 AM	71.79		
	11:30 AM	71.90		
	11:45 AM	71.93		



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**City of Anderson
 Fuller Well #1
 72 Hour Production Test
 October 17, 2022**

Monitoring Point taken from 3'6" above grade

Page 2

Date	Time	Pumping Level (ft)	GPM	Static Water Level (ft)
10/17/2022	12:00 PM	72.02	2120	
	12:30 PM	72.12		
	1:00 PM	72.18		
	2:00 PM	72.33		
	3:00 PM	72.38		
	4:00 PM	72.57	2120	
	5:00 PM	72.68		
	6:00 PM	72.75	2120	
	7:00 PM	72.82		
	8:00 PM	72.90		
	9:00 PM	72.93		
	10:00 PM	72.96		
	11:00 PM	72.99		
10/18/2022	12:00 AM	73.05		
	1:00 AM	73.10		
	2:00 AM	73.15		
	3:00 AM	73.13	2120	
	4:00 AM	73.17		
	5:00 AM	73.15		
	6:00 AM	73.20		
	7:00 AM	73.22		
	8:00 AM	73.23		
	9:00 AM	73.30		
	10:00 AM	73.29		
	11:00 AM	73.28		
	12:00 PM	73.28	2120	
	1:00 PM	73.29		
	2:00 PM	73.30		
	3:00 PM	73.30		
	4:00 PM	73.31		
	5:00 PM	73.41	2120	
	6:00 PM	73.45		
	7:00 PM	73.45		
	8:00 PM	73.45	2120	
	9:00 PM	73.58		
	10:00 PM	73.56	2120	



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**City of Anderson
 Fuller Well #1
 72 Hour Production Test
 October 17, 2022**

Monitoring Point taken from 3'6" above grade

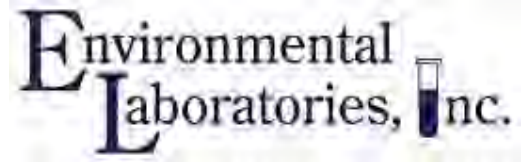
Page 3

Date	Time	Pumping Level (ft)	GPM	Static Water Level (ft)
	11:00 PM	73.55	2120	
10/19/2022	12:00 AM	73.58		
	1:00 AM	73.60		
	2:00 AM	73.56		
	3:00 AM	73.62		
	4:00 AM	73.68		
	5:00 AM	73.68		
	6:00 AM	73.71		
	7:00 AM	73.71		
	8:00 AM	73.73		
	9:00 AM	73.76	2120	
	10:00 AM	73.77		
	11:00 AM	73.76		
	12:00 PM	73.74		
	1:00 PM	73.70	2120	
	2:00 PM	73.70		
	3:00 PM	73.75	2120	
	4:00 PM	73.72		
	5:00 PM	73.81	2120	
	6:00 PM	73.84		
	7:00 PM	73.91		
	8:00 PM	73.95		
	9:00 PM	74.01		
	10:00 PM	74.02		
	11:00 PM	74.11		
10/20/2022	12:00 AM	74.10		
	1:00 AM	74.11	2120	
	2:00 AM	74.15		
	3:00 AM	74.16		
	4:00 AM	74.21		
	5:00 AM	74.22		
	6:00 AM	74.21		
	7:00 AM	74.25	2120	
	8:00 AM	74.26		
	9:00 AM	74.27		

APPENDIX C.
WATER-QUALITY DATA

Laboratory Analysis

Instantly access all of your Data 24/7/365 by going to www.envirolabsinc.com and clicking on Client Data Support.



635 Green Road, PO Box 968, Madison, IN 47250
Tel: 812.273.6699 Fax: 812.273.5788

Report To:

Neal McKee
Anderson Water-5248002
1128 Cincinnati Avenue
Anderson, IN 46011

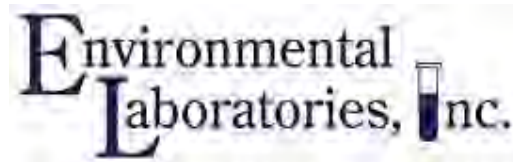
Order No.: 2022102176
PO No.:
Date Received: 10/20/2022
Report Date: 01/17/2023
Project Name: 2022-10 NEW WELL - RS30 IOC

Notes: Revision#: 230117 Iron and Manganese results added into the report.

Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2022102176	2022102176-1	Drinking Water	FULLER WELL	10/19/2022	09:30	MF		Paid
Test Name		Results	Units	Analyst	Detection Limit	Test Method	Analysis Date	
Nickel, Total Rec.-(ICP)		<0.0040	mg/L	HW	0.0040	EPA 200.7	10/24/2022	
Sodium, Total Rec.-(ICP)		6.95	mg/L	HW	1.0	EPA 200.7	10/24/2022	
Mercury, Total Rec.-(CVAA)		<0.0002	mg/L	BRB	0.0002	SM 3112B	10/28/2022	
Thallium, Total Rec.-(ICP/MS)		<0.0010	mg/L	SPH	0.0010	EPA 200.8	10/26/2022	
Selenium, Total Rec.-(ICP/MS)		<0.002	mg/L	SPH	0.002	EPA 200.8	10/26/2022	
Antimony, Total Rec.-(ICP/MS)		<0.0010	mg/L	SPH	0.0010	EPA 200.8	10/26/2022	
Beryllium, Total Rec.-(ICP)		<0.002	mg/L	HW	0.002	EPA 200.7	10/24/2022	
Barium, Total Rec.-(ICP)		0.209	mg/L	HW	0.02	EPA 200.7	10/24/2022	
Arsenic, Total Rec.-(ICP/MS)		<0.0010	mg/L	SPH	0.0010	EPA 200.8	10/26/2022	
CVAA Mercury Digestion-Liquid		DONE		BRB		SM-3112B	10/27/2022	
Chromium, Total Rec.-(ICP)		<0.0060	mg/L	HW	0.0060	EPA 200.7	10/24/2022	
Cadmium, Total Rec.-(ICP/MS)		<0.001	mg/L	SPH	0.001	EPA 200.8	10/26/2022	
Iron, Total Rec.-(ICP)		2.03	mg/L	HW	0.3	EPA 200.7	10/24/2022	
Manganese, Total Rec.-(ICP)		0.079	mg/L	HW	0.008	EPA 200.7	10/24/2022	
Comments:								

Laboratory Analysis

Instantly access all of your Data 24/7/365 by going to www.envirolabsinc.com and clicking on Client Data Support.



635 Green Road, PO Box 968, Madison, IN 47250
Tel: 812.273.6699 Fax: 812.273.5788

Report To:
Neal McKee
Anderson Water-5248002
1128 Cincinnati Avenue
Anderson, IN 46011


Order No.: 2022102176
PO No.:
Date Received: 10/20/2022
Report Date: 01/17/2023
Project Name: 2022-10 NEW WELL - RS30 IOC

Notes: Revision#: 230117 Iron and Manganese results added into the report.

Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2022102176	2022102176-2	Drinking Water	FULLER WELL	10/19/2022	09:30	MF		Paid
Test Name		Results	Units	Analyst	Detection Limit	Test Method	Analysis Date	
Cyanide, Free (DW)		<0.02	mg/L	BRB	0.02	SM-4500CN-G & E	10/31/2022	
Comments:								

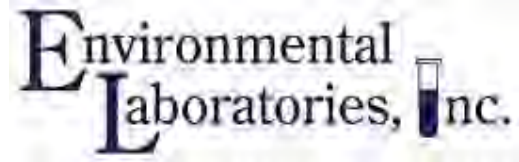
Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2022102176	2022102176-3	Drinking Water	FULLER WELL	10/19/2022	09:30	MF		Paid
Test Name		Results	Units	Analyst	Detection Limit	Test Method	Analysis Date	
Fluoride		0.177	mg/L	BRB	0.02	EPA 300.1	10/26/2022	
Nitrate (as N)		<0.05	mg/L	BRB	0.05	EPA 300.1	10/26/2022	
Comments:								

Approved by:


Whitney Wu, Ph.D., Lab Manager

Laboratory Analysis

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Report To:

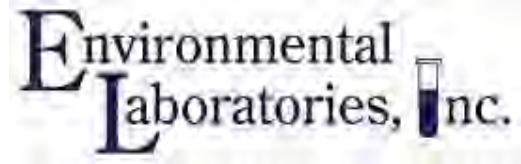
Neal McKee
Anderson Water-5248002
1128 Cincinnati Avenue
Anderson, IN 46011

Order No.: 2022102177
PO No.:
Date Received: 10/20/2022
Report Date: 10/26/2022
Project Name: 2022-10 NEW WELL - RS30 VOC

Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2022102177	2022102177-1	Drinking Water	FULLER WELL	10/19/2022	09:35	MF		ApprovedForRelease
Test Name		Results	Units	Analyst	Detection Limit	Test Method	Analysis Date	
Methylene Chloride (Dichloromethane)		<0.5	ug/L	SPH	0.5	EPA 524.2	10/21/2022	
Styrene		<0.5	ug/L	SPH	0.5	EPA 524.2	10/21/2022	
Ethylbenzene		<0.5	ug/L	SPH	0.5	EPA 524.2	10/21/2022	
Chlorobenzene		<0.5	ug/L	SPH	0.5	EPA 524.2	10/21/2022	
Carbon Tetrachloride		<0.5	ug/L	SPH	0.5	EPA 524.2	10/21/2022	
Total Xylenes		<0.5	ug/L	SPH	0.5	EPA 524.2	10/21/2022	
1,1,1-Trichloroethane		<0.5	ug/L	SPH	0.5	EPA 524.2	10/21/2022	
Vinyl Chloride		<0.5	ug/L	SPH	0.5	EPA 524.2	10/21/2022	
Trichloroethylene (TCE)		<0.5	ug/L	SPH	0.5	EPA 524.2	10/21/2022	
Tetrachloroethylene		<0.5	ug/L	SPH	0.5	EPA 524.2	10/21/2022	
Toluene		<0.5	ug/L	SPH	0.5	EPA 524.2	10/21/2022	
Benzene		<0.5	ug/L	SPH	0.5	EPA 524.2	10/21/2022	
1,1-Dichloroethylene		<0.5	ug/L	SPH	0.5	EPA 524.2	10/21/2022	
1,2,4-Trichlorobenzene		<0.5	ug/L	SPH	0.5	EPA 524.2	10/21/2022	
1,1,2-Trichloroethane		<0.5	ug/L	SPH	0.5	EPA 524.2	10/21/2022	
4-Bromofluorobenzene (SS)		89.42	percent	SPH		EPA 524.2	10/21/2022	
1,4-Dichlorobenzene-d4 (SS)		94.90	percent	SPH		EPA 524.2	10/21/2022	

Laboratory Analysis

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Report To:

Neal McKee
Anderson Water-5248002
1128 Cincinnati Avenue
Anderson, IN 46011

Order No.: 2022102177
PO No.:
Date Received: 10/20/2022
Report Date: 10/26/2022
Project Name: 2022-10 NEW WELL - RS30 VOC

1,2-Dichloroethylene,cis	<0.5	ug/L	SPH	0.5	EPA 524.2	10/21/2022
1,2-Dichloroethylene,trans	<0.5	ug/L	SPH	0.5	EPA 524.2	10/21/2022
1,4-Dichlorobenzene	<0.5	ug/L	SPH	0.5	EPA 524.2	10/21/2022
1,2-Dichloroethane	<0.5	ug/L	SPH	0.5	EPA 524.2	10/21/2022
1,2-Dichlorobenzene	<0.5	ug/L	SPH	0.5	EPA 524.2	10/21/2022
1,2-Dichloropropane	<0.5	ug/L	SPH	0.5	EPA 524.2	10/21/2022

Comments:						

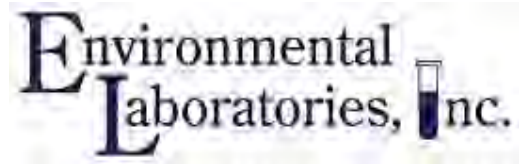
Approved by:

A handwritten signature in black ink, appearing to read 'Whitney Wu', is written over a horizontal line.

Whitney Wu, Ph.D., Lab Manager

Laboratory Analysis

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Report To:

Neal McKee
Anderson Water-5248002
1128 Cincinnati Avenue
Anderson, IN 46011

Order No.: 2022102175
PO No.:
Date Received: 10/20/2022
Report Date: 11/21/2022
Project Name: 2022-10 NEW WELL - RS30 SOC

Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2022102175	2022102175-1	Drinking Water	FULLER WELL	10/19/2022	10:25	MF		ApprovedForRelease

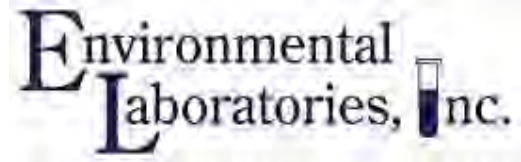
Test Name		Results	Units	Analyst	Detection Limit	Test Method	Analysis Date	
Di(2-ethylhexyl)phthalate		<0.6	ug/L	HW	0.6	EPA 525.2	10/27/2022	
Methoxychlor		<0.1	ug/L	HW	0.1	EPA 525.2	10/27/2022	
SOC AG-SPE Extraction		DONE		TRS		EPA 525.2	10/26/2022	
Benzo(a)pyrene		<0.1	ug/L	HW	0.1	EPA 525.2	10/27/2022	
Di(2-ethylhexyl)adipate		<0.6	ug/L	HW	0.6	EPA 525.2	10/27/2022	
Simazine		<0.2	ug/L	HW	0.2	EPA 525.2	10/27/2022	
Hexachlorocyclopentadiene		<0.5	ug/L	HW	0.5	EPA 525.2	10/27/2022	
Alachlor (Lasso)		<0.2	ug/L	HW	0.2	EPA 525.2	10/27/2022	
Atrazine		<0.2	ug/L	HW	0.2	EPA 525.2	10/27/2022	

Comments:								
Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2022102175	2022102175-2	Drinking Water	FULLER WELL	10/19/2022	09:55	MF		ApprovedForRelease

Test Name		Results	Units	Analyst	Detection Limit	Test Method	Analysis Date	
SOC B Sample Filtration		DONE		HW		EPA 531.1	10/27/2022	
Carbofuran		<0.9	ug/L	HW	0.9	EPA 531.1	10/27/2022	
Oxamyl (Vydate)		<1.0	ug/L	HW	1.0	EPA 531.1	10/27/2022	

Laboratory Analysis

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Report To:

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Anderson Water-5248002
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Anderson, IN 46011

Order No.: 2022102175
PO No.:
Date Received: 10/20/2022
Report Date: 11/21/2022
Project Name: 2022-10 NEW WELL - RS30 SOC

Comments:

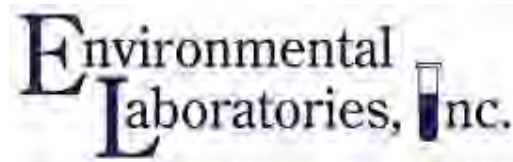
Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2022102175	2022102175-3	Drinking Water	FULLER WELL	10/19/2022	10:30	MF		ApprovedForRelease
Test Name	Results	Units	Analyst	Detection Limit	Test Method	Analysis Date		
Endrin	<0.1	ug/L	HW	0.1	EPA 508.1	10/31/2022		
Chlordane (alpha gamma)	<0.05	ug/L	HW	0.05	EPA 508.1	10/31/2022		
SOC C-SPE Extraction	DONE		TRS		EPA 508.1	10/28/2022		
Toxaphene	<1.0	ug/L	HW	1.0	EPA 508.1	10/31/2022		
Lindane	<0.1	ug/L	HW	0.1	EPA 508.1	10/31/2022		
Hexachlorobenzene	<0.1	ug/L	HW	0.1	EPA 508.1	10/31/2022		
Heptachlor Epoxide	<0.1	ug/L	HW	0.1	EPA 508.1	10/31/2022		
Heptachlor	<0.2	ug/L	HW	0.2	EPA 508.1	10/31/2022		

Comments:

Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2022102175	2022102175-4	Drinking Water	FULLER WELL	10/19/2022	10:20	MF		ApprovedForRelease
Test Name	Results	Units	Analyst	Detection Limit	Test Method	Analysis Date		
Pentachlorophenol	<0.4	ug/L	HW	0.4	EPA 515.2	10/27/2022		
Picloram (Tordon)	<1	ug/L	HW	1	EPA 515.2	10/27/2022		
SOC E-SPE Extraction	DONE		TRS		EPA 515.2	10/24/2022		

Laboratory Analysis

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Report To:

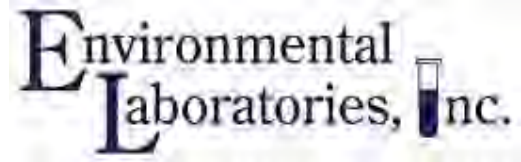
Neal McKee
Anderson Water-5248002
1128 Cincinnati Avenue
Anderson, IN 46011

Order No.: 2022102175
PO No.:
Date Received: 10/20/2022
Report Date: 11/21/2022
Project Name: 2022-10 NEW WELL - RS30 SOC

Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2022102175	2022102175-4	Drinking Water	FULLER WELL	10/19/2022	10:20	MF		ApprovedForRelease
		Test Name	Results	Units	Analyst	Detection Limit	Test Method	Analysis Date
		2,4-D	<1	ug/L	HW	1	EPA 515.2	10/27/2022
		2,4,5-TP	<1	ug/L	HW	1	EPA 515.2	10/27/2022
		Dinoseb	<1	ug/L	HW	1	EPA 515.2	10/27/2022
Comments:								
Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2022102175	2022102175-5	Drinking Water	FULLER WELL	10/19/2022	09:50	MF		ApprovedForRelease
		Test Name	Results	Units	Analyst	Detection Limit	Test Method	Analysis Date
		Dalapon-LL Extraction	DONE		SPH		EPA 552.2	10/24/2022
		Dalapon	<5	ug/L	SPH	5	EPA 552.2	10/25/2022
Comments:								
Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2022102175	2022102175-6	Drinking Water	FULLER WELL	10/19/2022	09:48	MF		ApprovedForRelease
		Test Name	Results	Units	Analyst	Detection Limit	Test Method	Analysis Date
		SOC F-LL Extraction	DONE		HW		EPA 504.1	10/26/2022
		Ethylene Dibromide (EDB)	<10.0	ng/L	HW	10.0	EPA 504.1	10/26/2022

Laboratory Analysis

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Report To:

Neal McKee
Anderson Water-5248002
1128 Cincinnati Avenue
Anderson, IN 46011

Order No.: 2022102175
PO No.:
Date Received: 10/20/2022
Report Date: 11/21/2022
Project Name: 2022-10 NEW WELL - RS30 SOC

Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2022102175	2022102175-6	Drinking Water	FULLER WELL	10/19/2022	09:48	MF		ApprovedForRelease

Test Name	Results	Units	Analyst	Detection Limit	Test Method	Analysis Date
1,2-Dibromo-3-Chloropropane (DBCP)	<0.02	ug/L	HW	0.02	EPA 504.1	10/26/2022

Comments:

Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2022102175	2022102175-7	Drinking Water	FULLER WELL	10/19/2022	10:15	MF		ApprovedForRelease

Test Name	Results	Units	Analyst	Detection Limit	Test Method	Analysis Date
SOC H-SPE Extraction	DONE		TRS		EPA 549.2	10/21/2022
Diquat	<2.0	ug/L	HW	2.0	EPA 549.2	10/31/2022

Comments:

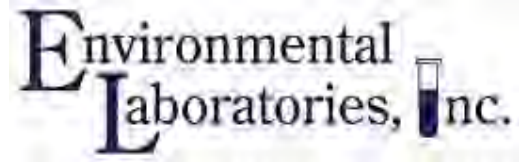
Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2022102175	2022102175-8	Drinking Water	FULLER WELL	10/19/2022	10:30	MF		ApprovedForRelease

Test Name	Results	Units	Analyst	Detection Limit	Test Method	Analysis Date
SOC I-SPE Extraction	DONE		TRS		EPA 548.1	10/21/2022
Endothall	<9	ug/L	HW	9	EPA 548.1	10/31/2022

Comments:

Laboratory Analysis

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Report To:

Neal McKee
Anderson Water-5248002
1128 Cincinnati Avenue
Anderson, IN 46011

Order No.: 2022102175
PO No.:
Date Received: 10/20/2022
Report Date: 11/21/2022
Project Name: 2022-10 NEW WELL - RS30 SOC

Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2022102175	2022102175-9	Drinking Water	FULLER WELL	10/19/2022	10:00	MF		ApprovedForRelease
		Test Name	Results	Units	Analyst	Detection Limit	Test Method	Analysis Date
		Sample Preparation-Filtration	DONE		HW		EPA 547	10/28/2022
		Glyphosate (Round-up)	<70	ug/L	HW	70	EPA 547	10/28/2022
Comments:								
Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2022102175	2022102175-10	Drinking Water	FULLER WELL	10/19/2022	10:05	MF	Pace Sample ID: 2104660-01	ApprovedForRelease
		Test Name	Results	Units	Analyst	Detection Limit	Test Method	Analysis Date
		PCB Screening	<0.0002	mg/L	FO	0.0002	EPA 508	10/27/2022
Comments: Pace Madisonville lab performed the analysis of the sample and CMDP uploading. PCB sample had lab error at Pace/Madisonville.								
Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2022102175	2022102175-11	Drinking Water	FULLER WELL	10/19/2022	10:10	MF	Pace Sample ID: 2104660-02	ApprovedForRelease
		Test Name	Results	Units	Analyst	Detection Limit	Test Method	Analysis Date
		2,3,7,8-TCDD (Dioxin - Drinking Water)	<5.00	pg/L	FO	5.00	EPA 1613	10/31/2022
Comments: Pace Minneapolis Lab & Madisonville lab performed the analysis of the sample and CMDP uploading.								

Approved by:

Whitney Wu, Ph.D., Lab Manager

Anderson

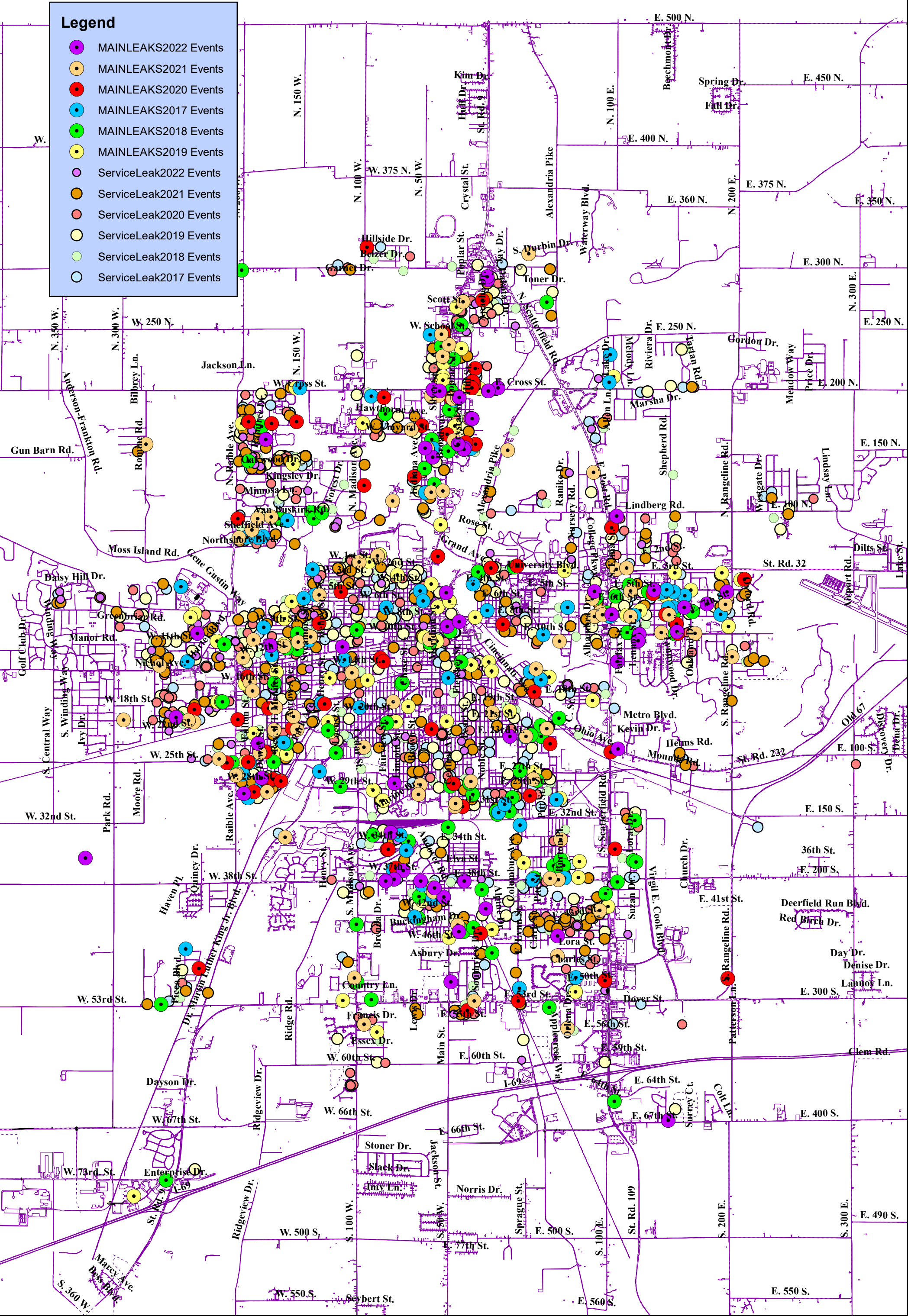
CHEM WO = Internal Chemical Wash Out w/Report **VIS = Visual Inspection w/Report** **PW = External Pressure Wash** **Mixer = PAX active mixer with warranty**
REPAIRS = Welding, OSHA compliance, etc **EXT = Exterior Overcoat** **INT WET = Internal Renovation** **EXT SP6 = Exterior Blast / Containment**

Tank	Year 1 2018	Year 2 2019	Year 3 2020	Year 4 2021	Year 5 2022	Year 6 2023	Year 7 2024	Year 8 2025	Year 9 2026	Year 10 2027	Year 11 2028	Year 12 2029	Year 13 2030	Year 14 2031	Year 15 2032	Year 16 2033	Year 17 2034	Year 18 2035	Year 19 2036	Year 20 2037
8th Street 500KG-Elv	EXT INT WET REPAIRS MIXER	VIS	VIS	CHEM WO	VIS	VIS	CHEM WO	VIS	VIS	CHEM WO	VIS	EXT	CHEM WO	VIS	VIS	INT WET	VIS	VIS	CHEM WO	VIS
\$ / YR	\$56,557	\$56,557	\$56,557	\$56,557	\$56,557	\$56,557	\$56,557	\$56,557	\$56,557	\$56,557	\$39,613	\$41,015	\$42,467	\$43,971	\$45,527	\$47,139	\$48,808	\$50,535	\$52,324	\$54,177
10th Street 500KG-Elv	MIXER CHEM WO REPAIRS	VIS	EXT INT WET	VIS	VIS	CHEM WO	VIS	VIS	CHEM WO	VIS	VIS	CHEM WO	VIS	EXT	VIS	VIS	CHEM WO	INT WET	VIS	VIS
\$ / YR	\$49,788	\$49,788	\$49,788	\$49,788	\$49,788	\$49,788	\$49,788	\$49,788	\$49,788	\$49,788	\$39,045	\$40,427	\$41,858	\$43,340	\$44,874	\$46,463	\$48,108	\$49,811	\$51,574	\$53,400
Range Line 1MM-Elv	MIXER CHEM WO REPAIRS	VIS	VIS	EXT INT DRY INT WET REPAIRS	VIS	VIS	CHEM WO	VIS	PW VIS	CHEM WO	VIS	VIS	CHEM WO	VIS	EXT	VIS	VIS	CHEM WO	INT WET	VIS
\$ / YR	\$74,426	\$74,426	\$74,426	\$74,426	\$74,426	\$74,426	\$74,426	\$74,426	\$74,426	\$74,426	\$64,799	\$67,093	\$69,468	\$71,927	\$74,473	\$77,110	\$79,839	\$82,666	\$85,592	\$88,622
Columbus 1MM-ELV	MIXER CHEM WO REPAIRS PW	VIS	VIS	CHEM WO	VIS	VIS	EXT SP6 INT WET REPAIRS	VIS	CHEM WO	VIS	PW VIS	CHEM WO	VIS	VIS	CHEM WO	VIS	EXT	VIS	CHEM WO	INT WET
\$ / YR	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$164,278	\$164,278	\$164,278	\$164,278	\$164,278	\$164,278	\$71,778	\$74,319	\$76,950	\$79,674	\$82,494	\$85,415	\$88,438	\$91,569
Fairview 1MM-Elv	WO	VIS	VIS	WO	VIS	VIS	WO	VIS	VIS	WO										
\$ / YR	\$1,604	\$1,604	\$1,604	\$1,604	\$1,604	\$1,604	\$1,604	\$1,604	\$1,604	\$1,604										
Cross Street 500KG-Elv	MIXER CHEM WO REPAIRS	VIS	VIS	VIS	EXT INT WET REPAIRS	VIS	VIS	CHEM WO	VIS	VIS	CHEM WO	VIS	VIS	CHEM WO	VIS	EXT	CHEM WO	VIS	VIS	INT WET
\$ / YR	\$44,496	\$44,496	\$44,496	\$44,496	\$44,496	\$44,496	\$44,496	\$44,496	\$44,496	\$44,496	\$39,068	\$40,451	\$41,883	\$43,366	\$44,901	\$46,490	\$48,136	\$49,840	\$51,604	\$53,431
Park Road 2MM-Hydro	WO	VIS	VIS	WO	VIS	VIS	WO	VIS	VIS	WO										
\$ / YR	\$1,961	\$1,961	\$1,961	\$1,961	\$1,961	\$1,961	\$1,961	\$1,961	\$1,961	\$1,961										
Total \$ / YR	\$288,832	\$288,832	\$288,832	\$288,832	\$288,832	\$288,832	\$393,110	\$393,110	\$393,110	\$393,110	\$346,803	\$353,264	\$267,455	\$276,922	\$286,725	\$296,876	\$307,385	\$318,266	\$329,533	\$341,198
Total \$ / Month	\$24,069	\$24,069	\$24,069	\$24,069	\$24,069	\$24,069	\$32,759	\$32,759	\$32,759	\$32,759	\$28,900	\$29,439	\$22,288	\$23,077	\$23,894	\$24,740	\$25,615	\$26,522	\$27,461	\$28,433
21,500 meters, \$ / Meter / Month	\$1.12	\$1.12	\$1.12	\$1.12	\$1.12	\$1.12	\$1.52	\$1.52	\$1.52	\$1.52	\$1.34	\$1.37	\$1.04	\$1.07	\$1.11	\$1.15	\$1.19	\$1.23	\$1.28	\$1.32

8th Street - REPAIRS	10th Street - REPAIRS	Range Line - REPAIRS	Columbus - REPAIRS	Fairview - REPAIRS	Cross Street - REPAIRS	Park Road - REPAIRS
Remove CP system Seal weld 14 CP holes Install Safety Cable Climbs Install PAX mixer Install conduit to roof for mixer	Install Safety Cable Climbs Install PAX mixer Install conduit to roof for mixer	Install Safety Cable Climbs Install PAX mixer Install conduit to roof for mixer Concrete foundation repair	Lead Containment System Install PAX mixer Install Safety Cable Climbs		Install Safety Cable Climbs Install PAX mixer Install conduit to roof for mixer	
8th Street - PAINT	10th Street - PAINT	Range Line - PAINT	Columbus - PAINT	Fairview - PAINT	Cross Street - PAINT	Park Road - PAINT
Exterior - Extra Prep work on riser Exterior - Heavy Power Wash Exterior - SP2/SP3 preparation Exterior - Re-trace logo x 2 sides Exterior - 2-Coat Over Coat Exterior - 2-Coat Over Coat INT WET - SP10 preparation INT WET - Stripe weld seams INT WET - Stripe weld seams INT WET - 2-Coats Epoxy	Exterior - Heavy Power Wash Exterior - SP2/SP3 preparation Exterior - Re-trace logo x 2 sides Exterior - 2-Coat Over Coat INT WET - SP10 preparation INT WET - Stripe weld seams INT WET - 2-Coats Epoxy	Exterior - Heavy Power Wash Exterior - SP2/SP3 preparation Exterior - Re-trace logo x 2 sides Exterior - 2-Coat Over Coat INT DRY - SP7 preparation INT DRY - 1-Coat Epoxy INT WET - SP10 preparation INT WET - Stripe Weld Seams INT WET - 2-Coats Epoxy	Exterior - SP6 Blast Exterior - 2 New Logos Exterior - 3-Coats Paint INT WET - SP10 preparation INT WET - 2-Coats Epoxy INT WET - Stripe Weld Seams		Exterior - Heavy Power Wash Exterior - SP2/SP3 preparation Exterior - Re-trace logo x 1 side Exterior - 2-Coat Over Coat INT WET - SP10 preparation INT WET - Stripe weld seams INT WET - 2-Coats Epoxy	

Legend

- MAINLEAKS2022 Events
- MAINLEAKS2021 Events
- MAINLEAKS2020 Events
- MAINLEAKS2017 Events
- MAINLEAKS2018 Events
- MAINLEAKS2019 Events
- ServiceLeak2022 Events
- ServiceLeak2021 Events
- ServiceLeak2020 Events
- ServiceLeak2019 Events
- ServiceLeak2018 Events
- ServiceLeak2017 Events



AWWA Free Water Audit Software v5.0

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This spreadsheet-based water audit tool is designed to help quantify and track water losses associated with water distribution systems and identify areas for improved efficiency and cost recovery. It provides a "top-down" summary water audit format, and is not meant to take the place of a full-scale, comprehensive water audit format.

Auditors are strongly encouraged to refer to the most current edition of AWWA M36 Manual for Water Audits for detailed guidance on the water auditing process and targetting loss reduction levels

The spreadsheet contains several separate worksheets. Sheets can be accessed using the tabs towards the bottom of the screen, or by clicking the buttons below.

Please begin by providing the following information

Name of Contact Person:

Email Address:

Telephone (incl Ext.):

Name of City / Utility:

City/Town/Municipality:

State / Province:

Country:

Year:

Start Date: Enter MM/YYYY numeric format

End Date: Enter MM/YYYY numeric format

Audit Preparation Date:

Volume Reporting Units:

PWSID / Other ID:

The following guidance will help you complete the Audit

All audit data are entered on the [Reporting Worksheet](#)

- Value can be entered by user
- Value calculated based on input data
- These cells contain recommended default values

Use of Option (Radio) Buttons: 0.25%

Select the default percentage by choosing the option button on the left

To enter a value, choose this button and enter a value in the cell to the right

The following worksheets are available by clicking the buttons below or selecting the tabs along the bottom of the page

<p><u>Instructions</u></p> <p>The current sheet. Enter contact information and basic audit details (year, units etc)</p>	<p><u>Reporting Worksheet</u></p> <p>Enter the required data on this worksheet to calculate the water balance and data grading</p>	<p><u>Comments</u></p> <p>Enter comments to explain how values were calculated or to document data sources</p>	<p><u>Performance Indicators</u></p> <p>Review the performance indicators to evaluate the results of the audit</p>	<p><u>Water Balance</u></p> <p>The values entered in the Reporting Worksheet are used to populate the Water Balance</p>	<p><u>Dashboard</u></p> <p>A graphical summary of the water balance and Non-Revenue Water components</p>
<p><u>Grading Matrix</u></p> <p>Presents the possible grading options for each input component of the audit</p>	<p><u>Service Connection Diagram</u></p> <p>Diagrams depicting possible customer service connection line configurations</p>	<p><u>Definitions</u></p> <p>Use this sheet to understand the terms used in the audit process</p>	<p><u>Loss Control Planning</u></p> <p>Use this sheet to interpret the results of the audit validity score and performance indicators</p>	<p><u>Example Audits</u></p> <p>Reporting Worksheet and Performance Indicators examples are shown for two validated audits</p>	<p><u>Acknowledgements</u></p> <p>Acknowledgements for the AWWA Free Water Audit Software v5.0</p>

If you have questions or comments regarding the software please contact us via email at: wlc@awwa.org



AWWA Free Water Audit Software: Reporting Worksheet

WAS v5.0

American Water Works Association.
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Click to access definition
 Click to add a comment

Water Audit Report for: City of Anderson Water (IN5248002)
Reporting Year: 2019 1/2019 - 12/2019

Please enter data in the white cells below. Where available, metered values should be used; if metered values are unavailable please estimate a value. Indicate your confidence in the accuracy of the input data by grading each component (n/a or 1-10) using the drop-down list to the left of the input cell. Hover the mouse over the cell to obtain a description of the grades

All volumes to be entered as: MILLION GALLONS (US) PER YEAR

To select the correct data grading for each input, determine the highest grade where the utility meets or exceeds all criteria for that grade and all grades below it.

WATER SUPPLIED

<----- Enter grading in column 'E' and 'J' ----->

Volume from own sources:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="5"/>	<input type="text" value="3,798.321"/>	MG/Yr
Water imported:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="n/a"/>	<input type="text"/>	MG/Yr
Water exported:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="n/a"/>	<input type="text"/>	MG/Yr

Master Meter and Supply Error Adjustments

	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="5"/>	Pcnt:	<input type="text" value="-2.00%"/>	Value:	<input type="text"/>	MG/Yr
	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>	MG/Yr
	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>	MG/Yr

Enter negative % or value for under-registration
Enter positive % or value for over-registration

WATER SUPPLIED: 3,875.838 MG/Yr

AUTHORIZED CONSUMPTION

Billed metered:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="7"/>	<input type="text" value="2,378.991"/>	MG/Yr
Billed unmetered:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="n/a"/>	<input type="text"/>	MG/Yr
Unbilled metered:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="n/a"/>	<input type="text"/>	MG/Yr
Unbilled unmetered:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="5"/>	<input type="text" value="48.448"/>	MG/Yr

Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed

AUTHORIZED CONSUMPTION: 2,427.439 MG/Yr

Click here: for help using option buttons below

Pcnt:	<input type="text" value="1.25%"/>	<input checked="" type="radio"/>	<input type="radio"/>	Value:	<input type="text"/>	MG/Yr
-------	------------------------------------	----------------------------------	-----------------------	--------	----------------------	-------

Use buttons to select percentage of water supplied
OR
value

Pcnt:	<input type="text" value="0.25%"/>	<input checked="" type="radio"/>	<input type="radio"/>	Value:	<input type="text"/>	MG/Yr
	<input type="text" value="5.00%"/>	<input checked="" type="radio"/>	<input type="radio"/>		<input type="text"/>	MG/Yr
	<input type="text" value="0.25%"/>	<input checked="" type="radio"/>	<input type="radio"/>		<input type="text"/>	MG/Yr

WATER LOSSES (Water Supplied - Authorized Consumption)

1,448.399 MG/Yr

Apparent Losses

Unauthorized consumption: 9.690 MG/Yr

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

Customer metering inaccuracies:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="5"/>	<input type="text" value="125.210"/>	MG/Yr
Systematic data handling errors:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="5"/>	<input type="text" value="5.947"/>	MG/Yr

Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed

Apparent Losses: 140.847 MG/Yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: 1,307.552 MG/Yr

WATER LOSSES: 1,448.399 MG/Yr

NON-REVENUE WATER

NON-REVENUE WATER: 1,496.847 MG/Yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="7"/>	<input type="text" value="420.0"/>	miles
Number of <u>active AND inactive</u> service connections:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="7"/>	<input type="text" value="24,766"/>	
Service connection density:	<input type="button" value="?"/>			<input type="text" value="59"/>	conn./mile main

Are customer meters typically located at the curbside or property line? (length of service line, beyond the property boundary, that is the responsibility of the utility)

Average length of customer service line:

Average length of customer service line has been set to zero and a data grading score of 10 has been applied

Average operating pressure: psi

COST DATA

Total annual cost of operating water system:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="7"/>	<input type="text" value="\$16,714,103"/>	\$/Year
Customer retail unit cost (applied to Apparent Losses):	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="8"/>	<input type="text" value="\$3.30"/>	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="7"/>	<input type="text" value="\$239.28"/>	\$/Million gallons <input type="checkbox"/> Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 60 out of 100 *****

A weighted scale for the components of consumption and water loss is included in the calculation of the Water Audit Data Validity Score

PRIORITY AREAS FOR ATTENTION:

Based on the information provided, audit accuracy can be improved by addressing the following components:

1: Volume from own sources

2: Customer metering inaccuracies

3: Billed metered



AWWA Free Water Audit Software: System Attributes and Performance Indicators

WAS v5.0

American Water Works Association.
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Water Audit Report for: **City of Anderson Water (IN5248002)**
 Reporting Year: **2019** | **1/2019 - 12/2019**

***** YOUR WATER AUDIT DATA VALIDITY SCORE IS: 60 out of 100 *****

System Attributes:

	Apparent Losses:	140.847	MG/Yr
	+	Real Losses:	1,307.552
	=	Water Losses:	1,448.399

? Unavoidable Annual Real Losses (UARL): 131.12 MG/Yr

Annual cost of Apparent Losses: \$621,341

Annual cost of Real Losses: \$312,871 Valued at **Variable Production Cost**

Return to Reporting Worksheet to change this assumption

Performance Indicators:

Financial: { Non-revenue water as percent by volume of Water Supplied: 38.6%
 Non-revenue water as percent by cost of operating system: 5.7% Real Losses valued at Variable Production Cost

Operational Efficiency: { Apparent Losses per service connection per day: 15.58 gallons/connection/day
 Real Losses per service connection per day: 144.65 gallons/connection/day
 Real Losses per length of main per day*: N/A
 Real Losses per service connection per day per psi pressure: 2.41 gallons/connection/day/psi

From Above, Real Losses = Current Annual Real Losses (CARL): 1,307.55 million gallons/year

? Infrastructure Leakage Index (ILI) [CARL/UARL]: 9.97

* This performance indicator applies for systems with a low service connection density of less than 32 service connections/mile of pipeline



AWWA Free Water Audit Software v6.0

FWAS v6.0

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This spreadsheet-based water audit tool is designed to help quantify and track water losses associated with water distribution systems and identify areas for improved efficiency and cost recovery. It provides a "top-down" summary water audit format and is not meant to take the place of a full-scale, comprehensive water audit format. Auditors are strongly encouraged to refer to the most current edition of AWWA M36 Manual for Water Audits for detailed guidance on the water auditing process and targeting loss reduction levels. This tool contains several separate worksheets. Sheets can be accessed using the tabs at the bottom of the screen, or by clicking the TOC links below.

Table of Contents (TOC)

- Start Page** The current sheet. Enter contact information and basic audit details.
- Worksheet** Enter the required data on this worksheet to calculate the water balance and data grading.
- Interactive Data Grading** Answer questions about operational practices for each audit input, and the data validity grades will automatically populate.
- Dashboard** Review NRW components, performance indicators and graphical outputs to evaluate the results of the audit.
- Notes** Enter notes to explain how values were calculated, document data sources, and related information about data management practices.
- Blank Sheet** By popular demand! A blank sheet. The world is your canvas.
- Water Balance** The values entered in the Worksheet automatically populate the Water Balance.
- Loss Control Planning** Use this sheet to interpret the results of the audit validity score and performance indicators.
- Definitions** Use this sheet to understand the terms used in the audit process.
- Service Connection Diagram** Diagrams depicting possible customer service connection line configurations.
- Acknowledgements** Acknowledgements for development of the AWWA Free Water Audit Software v6.0.

AWWA Web Resources for Water Loss Control

<https://www.awwa.org/Resources-Tools/Resource-Topics/Water-Loss-Control>

Items referenced in the Free Water Audit Software v6.0 on the web:

- Data Grading Matrix v6.0
- Example Water Audit v6.0
- Water Audit Compiler v6.0
- AWWA Reports on Performance Indicators
- M36 Manual

If you have questions or comments regarding this software please contact us at: wlc@awwa.org

Enter Basic Information

Name of Utility:	Anderson Water Department
Name of Contact Person:	Neal McKee
Email:	nmckee@cityofanderson.com
Telephone Ext.:	765-648-6420
City/Town/Municipality:	Anderson
State / Province:	Indiana (IN)
Country:	USA
Audit Preparation Date:	Jun 10 2021
Audit Year:	2021
Audit Year Label:	Calendar (Fiscal, Calendar, etc)
Audit Period Start Date:	Jan 01 2021
Audit Period End Date:	Dec 31 2021
Volume Reporting Units:	Million gallons (US)
Water System Structure:	Retail
Water Type:	Potable Water
System ID Number:	5248002
Validator Name/ID:	Jill Curry
Validator Email:	jill@recury.com/WV220069
Estimated Total Population Served by Water Utility:	58,542

Key of Input Acronyms

In order of appearance in the Worksheet

VOS	Volume from Own Sources
VOSEA	VOS Error Adjustment
WI	Water Imported
WIEA	WI Error Adjustment
WE	Water Exported
WEEA	WE Error Adjustment
BMAC	Billed Metered Authorized Consumption
BUAC	Billed Unmetered Authorized Consumption
UMAC	Unbilled Metered Authorized Consumption
UUAC	Unbilled Unmetered Authorized Consumption
SDHE	Systematic Data Handling Errors
CMI	Customer Metering Inaccuracies
UC	Unauthorized Consumption
Lm	Length of mains
Nc	Number of service connections
Lp	Average length of (private) customer service line
AOP	Average Operating Pressure
CRUC	Customer Retail Unit Charge
VPC	Variable Production Cost

Color Key

User input

Calculated

Optional default

Guidance for the Worksheet

Choosing to enter unit of **percent** or **volume** (applies to VOSEA, WIEA, WEEA, CMI)

choose entry option:

1.00%	percent	or
	volume	25.000

Choosing to enter **default** or **custom input** (applies to UUAC, SDHE, UC)

choose entry option:

0.25%	default	or
	custom	75.000

Guidance for the Interactive Data Grading

Use acronym buttons in IDG header to navigate among inputs. Acronym Key above. White = needs answers, orange = complete, clear = not required. Example below.

VOS	VOSEA	WI	WIEA	WE	WEEA	BMAC	BUAC	UMAC	UUAC
SDHE	CMI	UC	Lm	Nc	Lp	AOP	CRUC	VPC	

After clicking an acronym button, answer all visible questions in the order they're presented, choosing best-fit answer

Grade will populate when all visible questions are complete for an input **7**

The limiting criteria will be labeled along the right. If only 1 limiting criterion is shown, improving on that criterion will achieve a higher data grade. If multiple limiting criteria are shown, improving on *each* limiting criterion is necessary to achieve a higher data grade. A complete inventory of data grading criteria is available in the Data Grading Matrix v6.0 (see web resources)

Limiting

AWWA Free Water Audit Software: Worksheet

FWAS v6.0

American Water Works Association.
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Water Audit Report for: **Anderson Water Department**

Audit Year: **2021** | **Jan 01 2021 - Dec 31 2021** | **Calendar**

To access definitions, click the [input name](#)

Click 'n' to add notes

Click 'g' to determine data validity grade

To edit water system info: [go to start page](#)

All volumes to be entered as: MILLION GALLONS (US) PER YEAR

[Water Supplied Error Adjustments](#)

choose entry option:

WATER SUPPLIED

VOS	Volume from Own Sources:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="3"/>	<input type="text" value="3,964.984"/>	MG/Yr	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="8"/>	<input type="text" value="0.00%"/>	<input type="text" value="percent"/>	
WI	Water Imported:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="n/a"/>		MG/Yr				
WE	Water Exported:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="n/a"/>		MG/Yr				

VOSEA
WIEA
WEEA

WATER SUPPLIED: MG/Yr

AUTHORIZED CONSUMPTION

BMAC	Billed Metered:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="5"/>	<input type="text" value="2,252.148"/>	MG/Yr				
BUAC	Billed Unmetered:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="n/a"/>		MG/Yr				
UMAC	Unbilled Metered:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="10"/>	<input type="text" value="87.345"/>	MG/Yr				
UUAC	Unbilled Unmetered:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="5"/>	<input type="text" value="95.164"/>	MG/Yr				

choose entry option:

MG/Yr

AUTHORIZED CONSUMPTION: MG/Yr

WATER LOSSES

MG/Yr

Apparent Losses

Default option selected for Systematic Data Handling Errors, with automatic data grading of 3

choose entry option:

SDHE	Systematic Data Handling Errors:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="3"/>	<input type="text" value="5.630"/>	MG/Yr	<input type="text" value="0.25%"/>	<input type="text" value="default"/>	
CMI	Customer Metering Inaccuracies:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="6"/>	<input type="text" value="123.131"/>	MG/Yr	<input type="text" value="5.00%"/>	<input type="text" value="percent"/>	<input type="text" value="under-registration"/>
UC	Unauthorized Consumption:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="3"/>	<input type="text" value="5.630"/>	MG/Yr	<input type="text" value="0.25%"/>	<input type="text" value="default"/>	

Default option selected for Unauthorized Consumption, with automatic data grading of 3

Apparent Losses: MG/Yr

Real Losses

Real Losses: MG/Yr

WATER LOSSES: MG/Yr

NON-REVENUE WATER

NON-REVENUE WATER: MG/Yr

SYSTEM DATA

Lm	Length of mains:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="8"/>	<input type="text" value="420.0"/>	miles	(including fire hydrant lead lengths)
Nc	Number of service connections:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="5"/>	<input type="text" value="24,800"/>		(active and inactive)
	Service connection density:		<input type="text" value="59"/>	conn./mile main	

Are customer meters typically located at the curbstop/property line?

Lp
Average length of customer service line has been set to zero and a data grading of 10 has been applied

AOP Average Operating Pressure: psi

COST DATA

CRUC	Customer Retail Unit Charge:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="9"/>	<input type="text" value="\$5.03"/>	\$/1000 gallons (US)	Total Annual Operating Cost
VPC	Variable Production Cost:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="9"/>	<input type="text" value="\$260.39"/>	\$/Million gallons	

WATER AUDIT DATA VALIDITY TIER:

***** The Water Audit Data Validity Score is in Tier III (51-70). See Dashboard tab for additional outputs. *****

[go to dashboard](#)

A weighted scale for the components of supply, consumption and water loss is included in the calculation of the Water Audit Data Validity Score

PRIORITY AREAS FOR ATTENTION TO IMPROVE DATA VALIDITY:

Based on the information provided, audit reliability can be most improved by addressing the following components:

- | |
|---------------------------------------|
| 1: Volume from Own Sources (VOS) |
| 2: Billed Metered (BMAC) |
| 3: Number of Service Connections (Nc) |

KEY PERFORMANCE INDICATOR TARGETS:

OPTIONAL: If targets exist for the operational performance indicators, they can be input below:

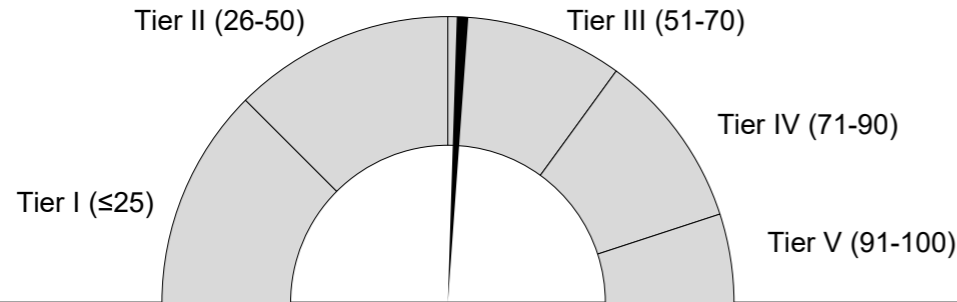
Unit Total Losses:	<input type="text"/>	gal/conn/day
Unit Apparent Losses:	<input type="text"/>	gal/conn/day
Unit Real Losses ^A :	<input type="text"/>	gal/conn/day
Unit Real Losses ^B :	<input type="text"/>	gal/mile/day

If entered above by user, targets will display on KPI gauges (see Dashboard)

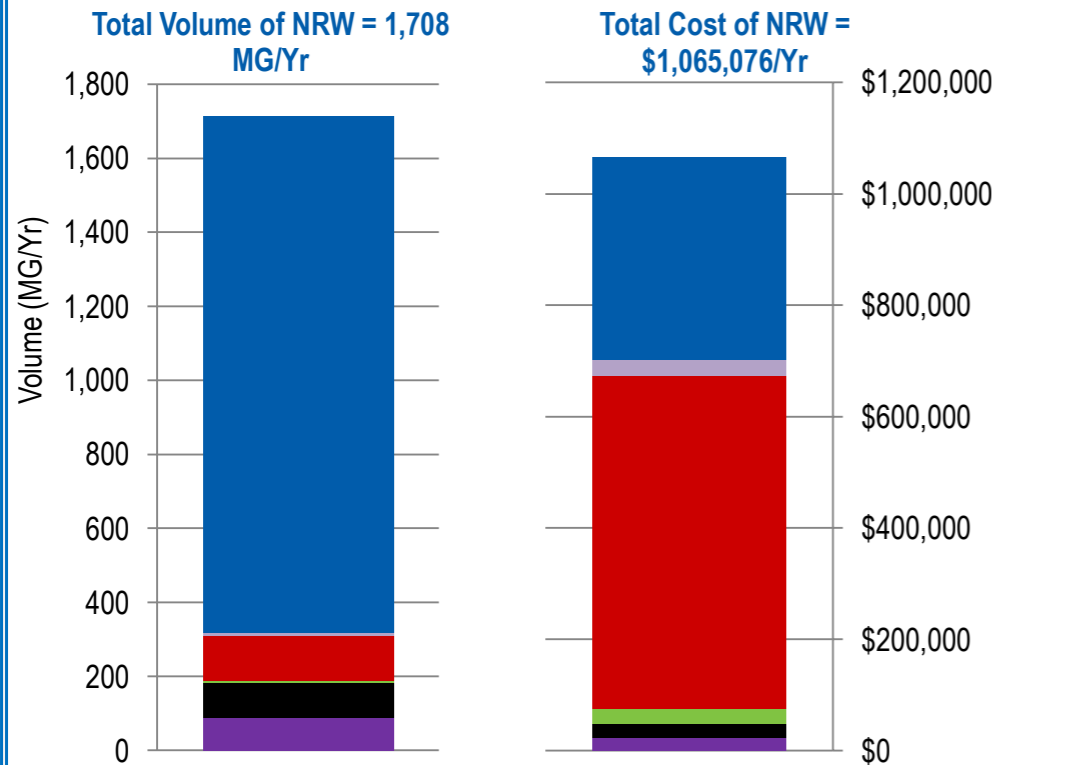
Data Validity

Data Validity Score: **51** Data Validity Tier: **Tier III (51-70)**

See [Loss Control Planning](#) for Tier Details



NRW Components Summary



Real Losses	Systematic Data Handling Errors	Customer Metering Inaccuracies	Unbilled Unmetered Auth Cons	Unbilled Metered Authorized Cons
-------------	---------------------------------	--------------------------------	------------------------------	----------------------------------

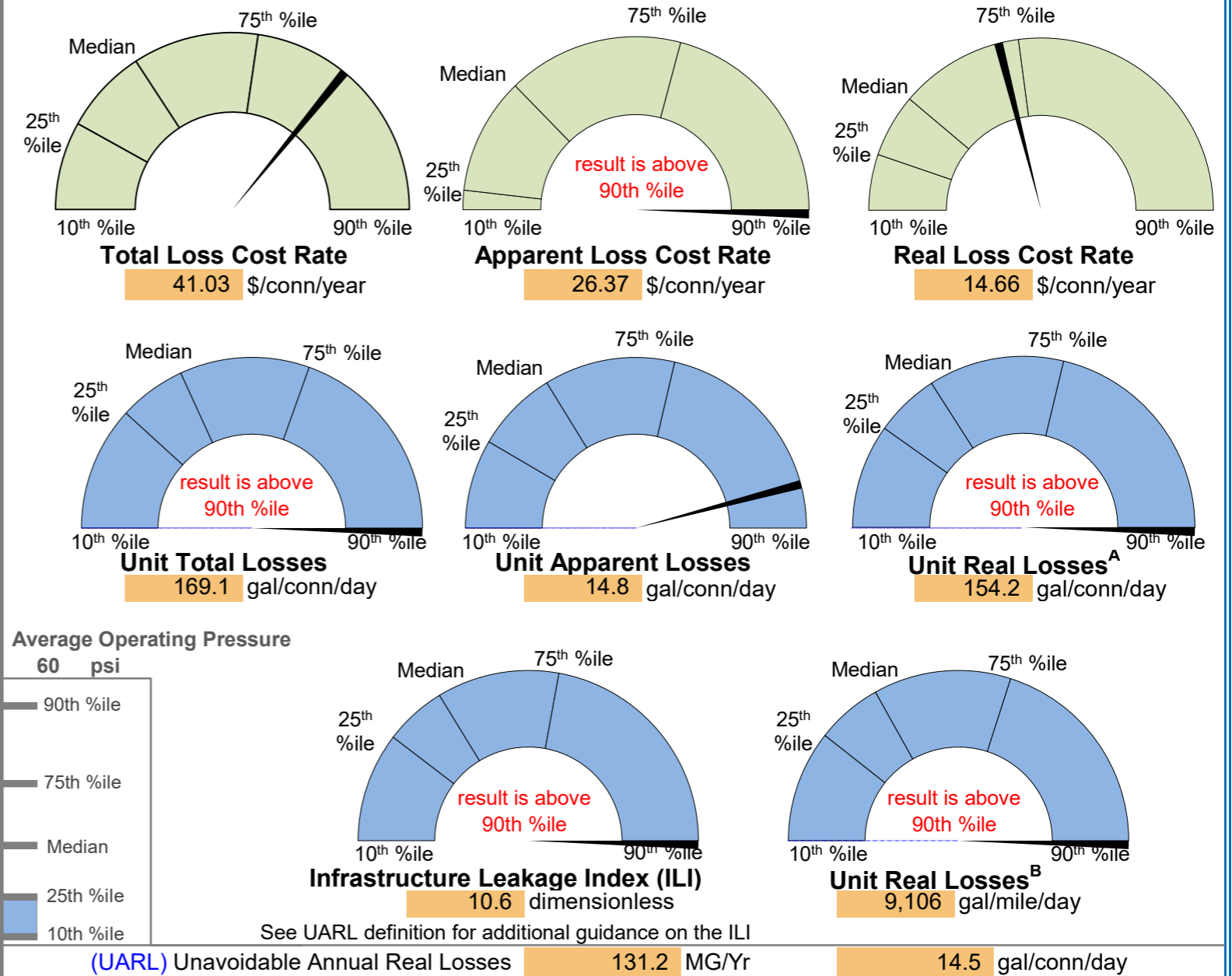
	Volume MG/Yr	Value \$/Yr	Basis of Valuation
Apparent Losses	134.4	\$654,065	CRUC
Real Losses	1,395.9	\$363,488	VPC
Unbilled Authorized Cons	182.5	\$47,524	VPC
Non-Revenue Water	1,712.8	\$1,065,076	Blended

Actual KPI result

Key Performance Indicators

Target (see Worksheet)

gauge %iles per validated industry ranges²



See UARL definition for additional guidance on the ILI

Guidance Information for Key Performance

- The eight indicators shown are the recommended suite per the AWWA Water Loss Control Committee 2020 Position on KPIs¹.
- A suite of KPIs is necessary, as no single KPI can holistically communicate water loss performance for a given water system.
- See Table 1 below for Uses and Limitations for each KPI, excerpted from the AWWA Water Loss Control Committee Report (2020)¹, with naming conventions updated.
- Percentiles (%iles) shown on KPI gauges come from Level 1 validated data in the AWWA WLCC Reference Water Audit Dataset (2020)².
- KPI %iles shown above are not segregated by cohorts. Limited KPI data by cohorts may be found in WRF 4695 Guidance Manual, Appendix B (2019)⁵.
- Actual KPI results that fall below 10th %ile or above 90th %ile do not necessarily imply error, but should be viewed with scrutiny.
- Percentiles not intended to imply targets. Targets may be input by user for operational KPIs, if desired, on Worksheet.
- See UARL and ILI in Definitions tab for discussion of size and pressure limitations.
- Systems that fall on the extreme ends of size or connection density should use caution when interpreting Unit Losses KPIs.



April 18, 2023
City of Anderson, Indiana

RE: Control System Upgrade

Maxim Automation has reviewed Anderson's current control system for the Water Department. Based upon this review we recommend replacing most of the PLCs and the entire HMI system at both treatment plants. All but one of the existing PLCs are either discontinued or about to be discontinued. Rockwell Automation has four categories for the lifecycle of equipment. These are Active, Active Mature, End of Life and Discontinued. The only PLC that is "Active" is the Filter PLC at the Lafayette Treatment Plant.

We recommend a complete upgrade of the entire control system, including the PLCs and associated hardware and the HMI PCs at both Wheeler & Lafayette treatment plants. We also recommend switching communications to ethernet cellular based service instead of serial based radios. The HMI computers at both treatment plants are beyond the recommended lifespan of 5 years for a PC. It is critical to keep these HMI computers up to date for security, data reliability and availability.

This quotation is broken down into three parts to provide a piecemeal approach to upgrading the entire control system as budgets allow.

Part 1: Remote Sites

The remote sites can be done individually as budget constraints allow. Generally speaking each remote site has a cost of \$21,190.13 with the exception of Fairview. Fairview has a cost of \$36,348.25. Please see the attached site cost breakdown for a list of remote sites.

Part 2: Wheeler Treatment Plant

The Wheeler Treatment Plant upgrade requires all PLCs and HMI to be upgraded at the same time. We are proposing a redundant pair of Allen-Bradley ControlLogix PLCs to run the entire plant. Remote IO modules will be used throughout the treatment plant communicating over ethernet back to the redundant PLCs. This will provide backup control in case of a PLC failure. The current control system is at risk of any one PLC failing causing a loss of control of the associated systems with that PLC. Replacement of both HMI computers with GE iFix HMI software has been included in this cost. Total cost for the Wheeler Treatment Plant is \$310,385.88

Part 3: Lafayette Treatment Plant

The Lafayette Treatment Plant only requires upgrading the Main PLC processor card as it has been discontinued and replacement of both HMI computers with GE iFix HMI software. Total cost for the Lafayette Treatment Plant is \$143,902.88. Please keep in mind that the Lafayette Treatment Plant can't be upgraded until all the related remote sites have been upgraded. This is due to a technical limitation involving the existing serial radio. The new PLC processor does



not support the serial radio network. The new processor will only support communication via ethernet, thus requiring the related remote sites to be on the cellular network.

Maxim's Responsibilities

We will provide all the necessary PLC hardware and associated equipment to replace the interior components of each control panel. This will allow us to build the new backpanels at our panel shop and install them as complete units. We will custom build these backpanels to allow for easy installation with the existing wiring. New UPSs will be supplied with each backpanel to allow for reliable backup power. We will provide programming services to match the existing control sequence of the existing PLCs. We will provide development of the GE iFix HMI system to interface with the new Allen-Bradley PLCs and existing PLCs. We will develop screens to allow for similar monitoring and control of the entire water system.

Please see the attached Bill of Materials for detailed information about what is included in this quote.

We can provide design and programming services to fully automate any desired system at an additional cost. This will require further discussion about the details of what systems will need additional attention to fully automate.

There are very long lead times on some of the equipment contained in this quote (some in excess of a year). It is critical that this equipment is ordered as soon as possible to avoid delays.

Exceptions

All wiring and conduit that leaves our supplied control panels will be the responsibility of others. No bonding expenses have been included in this quote.

Total Combined Cost: \$ 955,014.20

Thank you for the opportunity to offer our services. If you have any questions, please contact me anytime by cell phone at 317-418-9560.

Sincerely,

A handwritten signature in black ink, appearing to read 'Jeff Bumgardner', is written over a light blue horizontal line.

Jeff Bumgardner
Maxim Automation, Inc.