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Bill Peery

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Project Tests

Client NASH City of Nashville Larry Dunaway *Project* 1069144

Email Project

Email Project

HOME

◉ All ○ Results ○ Open ○ Prep ○ No Prep

Filter

Samples	Sample ID	Date	Parameter	Test Name	Results	Units	Flags	RL	Verified	Class	Method	MDL	MDLadj	MQL	MQLadj	Price	Discipline
2221289	NASHV-AMMONIA	08/01/23	NHDL	Ammonia Distillation	6/6	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2221289	NASHV-AMMONIA	08/01/23	NHaN	Ammonia Nitrogen	0.167	mg/L		0.020	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	32.00	WW
2221289	NASHV-AMMONIA	08/01/23	ENVI	Environmental Fee (per Project)	Verified				Y	A						20.00	WW
2221290	NASHV-AMMONIA	08/02/23	NHDL	Ammonia Distillation	6/6	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2221290	NASHV-AMMONIA	08/02/23	NHaN	Ammonia Nitrogen	0.087	mg/L		0.020	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	32.00	WW
2221291	NASHV-AMMONIA	08/03/23	NHDL	Ammonia Distillation	6/6	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2221291	NASHV-AMMONIA	08/03/23	NHaN	Ammonia Nitrogen	0.082	mg/L		0.020	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	32.00	WW

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Project Tests

Client NASH City of Nashville Larry Dunaway *Project* 1071156

Email Project

Email Project

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Filter

Sample	Sample ID	Taken	Parameter	Test Name	Results	Units	Flags	RL	Verified	Class	Method	MDL	MDLadj	MQL	MQLadj	Price	History
2226133	NASH - AMMONIA	08/09/23	NHDL	Ammonia Distillation	6/6	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2226133	NASH - AMMONIA	08/09/23	NHaN	Ammonia Nitrogen	0.025	mg/L	D	0.020	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	32.00	WW
2226133	NASH - AMMONIA	08/09/23	ENVI	Environmental Fee (per Project)	Verified				Y	A						20.00	WW
2226134	NASH - AMMONIA	08/10/23	NHDL	Ammonia Distillation	6/6	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2226134	NASH - AMMONIA	08/10/23	NHaN	Ammonia Nitrogen	ND	mg/L		0.00336	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	32.00	WW
2226135	NASH - AMMONIA	08/11/23	NHDL	Ammonia Distillation	6/6	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2226135	NASH - AMMONIA	08/11/23	NHaN	Ammonia Nitrogen	ND	mg/L		0.00336	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	32.00	WW
2226136	NASH - AMMONIA	08/16/23	NHDL	Ammonia Distillation	6/6	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2226136	NASH - AMMONIA	08/16/23	NHaN	Ammonia Nitrogen	0.024	mg/L		0.020	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	32.00	WW
2226137	NASH - AMMONIA	08/17/23	NHDL	Ammonia Distillation	6/6	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2226137	NASH - AMMONIA	08/17/23	NHaN	Ammonia Nitrogen	ND	mg/L		0.00336	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	32.00	WW
2226138	NASH - AMMONIA	08/18/23	NHDL	Ammonia Distillation	6/6	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2226138	NASH - AMMONIA	08/18/23	NHaN	Ammonia Nitrogen	ND	mg/L		0.00336	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	32.00	WW
2226139	NASH - AMMONIA	08/23/23	NHDL	Ammonia Distillation	6/6	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2226139	NASH - AMMONIA	08/23/23	NHaN	Ammonia Nitrogen	0.025	mg/L		0.020	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	32.00	WW
2226140	NASH - AMMONIA	08/24/23	NHDL	Ammonia Distillation	6/6	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2226140	NASH - AMMONIA	08/24/23	NHaN	Ammonia Nitrogen	0.023	mg/L		0.020	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	32.00	WW
2226141	NASH - AMMONIA	08/25/23	NHDL	Ammonia Distillation	6/6	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2226141	NASH - AMMONIA	08/25/23	NHaN	Ammonia Nitrogen	ND	mg/L		0.00336	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	32.00	WW

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Project Tests

Client NASH City of Nashville Larry Dunaway *Project* 1060990

Email Project

Email Project

HOME

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Filter

Sample	Sample ID	Taken	Parameter	Test Name	Results	Units	Flags	RL	Verified	Class	Method	MDL	MDLadj	MQL	MQLadj	Price	History
2202990	NASHV-AMMONIA	06/01/23	NHDL	Ammonia Distillation	6.0/6.0	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2202990	NASHV-AMMONIA	06/01/23	NHaN	Ammonia Nitrogen	ND	mg/L		0.00336	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	30.00	WW
2202990	NASHV-AMMONIA	06/01/23	ENVI	Environmental Fee (per Project)	Verified				Y	A						10.00	WW
2202991	NASHV-AMMONIA	06/02/23	NHDL	Ammonia Distillation	6.0/6.0	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2202991	NASHV-AMMONIA	06/02/23	NHaN	Ammonia Nitrogen	ND	mg/L		0.00336	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	30.00	WW
2202992	NASHV-AMMONIA	06/03/23	NHDL	Ammonia Distillation	6.0/6.0	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2202992	NASHV-AMMONIA	06/03/23	NHaN	Ammonia Nitrogen	ND	mg/L		0.00336	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	30.00	WW
2202993	pickup/transport	06/07/23	PuCh	Sampling/Transport	Verified				Y	F						45.00	010

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Project Tests

Client NASH City of Nashville Larry Dunaway *Project* 1062851

Email Project

Email Project

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Filter

Sample	Sample ID	Taken	Parameter	Test Name	Results	Units	Flags	RL	Verified	Class	Method	MDL	MDLadj	MQL	MQLadj	Price	History
2207005	NASHV-AMMONIA	06/07/23	NHDL	Ammonia Distillation	6/6	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2207005	NASHV-AMMONIA	06/07/23	NHaN	Ammonia Nitrogen	0.019	mg/L	J	0.020	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	30.00	WW
2207005	NASHV-AMMONIA	06/07/23	ENVI	Environmental Fee (per Project)	Verified				Y	A						10.00	WW
2207006	NASHV-AMMONIA	06/08/23	NHDL	Ammonia Distillation	6/6	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2207006	NASHV-AMMONIA	06/08/23	NHaN	Ammonia Nitrogen	0.032	mg/L		0.020	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	30.00	WW
2207007	NASHV-AMMONIA	06/09/23	NHDL	Ammonia Distillation	6/6	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2207007	NASHV-AMMONIA	06/09/23	NHaN	Ammonia Nitrogen	ND	mg/L		0.00336	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	30.00	WW

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Project Tests

Client NASH City of Nashville Larry Dunaway *Project* 1062852

Email Project

Email Project

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Filter

Sample	Sample ID	Taken	Parameter	Test Name	Results	Units	Flags	RL	Ver.Rec	Class	Method	MDL	MDL Lab	MRL	MRL Lab	Price	History
2207008	NASHV-AMMONIA	06/14/23	NHDL	Ammonia Distillation	6/6	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2207008	NASHV-AMMONIA	06/14/23	NHaN	Ammonia Nitrogen	ND	mg/L		0.00336	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	30.00	WW
2207008	NASHV-AMMONIA	06/14/23	ENVI	Environmental Fee (per Project)	Verified				Y	A						10.00	WW
2207009	NASHV-AMMONIA	06/15/23	NHDL	Ammonia Distillation	6/6	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2207009	NASHV-AMMONIA	06/15/23	NHaN	Ammonia Nitrogen	0.014	mg/L	J	0.020	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	30.00	WW
2207010	NASHV-AMMONIA	06/16/23	NHDL	Ammonia Distillation	6/6	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2207010	NASHV-AMMONIA	06/16/23	NHaN	Ammonia Nitrogen	0.176	mg/L		0.020	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	30.00	WW
2207011	pickup/transport	06/21/23	PuCh	Sampling/Transport	Verified				Y	F						45.00	010

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Project Tests

Client NASH City of Nashville Larry Dunaway *Project* 1063703

Email Project

Email Project

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◉ All ○ Results ○ Open ○ Prep ○ No Prep

Filter

Sample	Sample ID	Taken	Preservative	Test Name	Results	Units	Flags	RL	Verified	Class	Method	MDL	MDLadj	MQL	MQLadj	Price	History
2208968	NASHV-AMMONIA	06/21/23	NHDL	Ammonia Distillation	6.0/6.0	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2208968	NASHV-AMMONIA	06/21/23	NHaN	Ammonia Nitrogen	0.168	mg/L		0.020	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	30.00	WW
2208968	NASHV-AMMONIA	06/21/23	ENVI	Environmental Fee (per Project)	Verified				Y	A						10.00	WW
2208969	NASHV-AMMONIA	06/22/23	NHDL	Ammonia Distillation	6/6	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2208969	NASHV-AMMONIA	06/22/23	NHaN	Ammonia Nitrogen	0.624	mg/L		0.020	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	30.00	WW
2208970	NASHV-AMMONIA	06/23/23	NHDL	Ammonia Distillation	6/6	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2208970	NASHV-AMMONIA	06/23/23	NHaN	Ammonia Nitrogen	1.36	mg/L		0.020	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	30.00	WW
2208971	pickup/transport	06/28/23	P75	Sampling/Transport	Verified				Y	F						75.00	010

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Project Tests

Client NASH City of Nashville Larry Dunaway *Project* 1065013

Email Project

Email Project

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Filter

Sample	Sample ID	Taken	Parameter	Test Name	Results	Units	Flags	RL	Verified	Class	Method	MDL	MDLadj	MQL	MQLadj	Price	History
2211756	NASHV-AMMONIA	06/28/23	NHDL	Ammonia Distillation	6.0/6.0	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2211756	NASHV-AMMONIA	06/28/23	NHaN	Ammonia Nitrogen	0.107	mg/L		0.020	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	30.00	WW
2211756	NASHV-AMMONIA	06/28/23	ENVI	Environmental Fee (per Project)	Verified				Y	A						10.00	WW
2211757	NASHV-AMMONIA	06/29/23	NHDL	Ammonia Distillation	6.0/6.0	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2211757	NASHV-AMMONIA	06/29/23	NHaN	Ammonia Nitrogen	0.298	mg/L	P	0.020	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	30.00	WW
2211758	NASHV-AMMONIA	06/30/23	NHDL	Ammonia Distillation	6.0/6.0	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2211758	NASHV-AMMONIA	06/30/23	NHaN	Ammonia Nitrogen	0.232	mg/L		0.020	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	30.00	WW

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Project Tests

Client NASH City of Nashville Larry Dunaway *Project* 1065014

Email Project

Email Project

HOME

◉ All ○ Results ○ Open ○ Prep ○ No Prep

Filter

Sample	Sample ID	Taken	Parameter	Test Name	Results	Units	Flags	R...	Verified	Class	Method	MDL	MDLadj	LoQ	MQLadj	Price	History
2211759	NASHV-AMMONIA	07/04/23	NHDL	Ammonia Distillation	6.0/6.0	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2211759	NASHV-AMMONIA	07/04/23	NHaN	Ammonia Nitrogen	0.244	mg/L		0.020	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	30.00	WW
2211759	NASHV-AMMONIA	07/04/23	ENVI	Environmental Fee (per Project)	Verified				Y	A						10.00	WW
2211760	NASHV-AMMONIA	07/05/23	NHDL	Ammonia Distillation	6.0/6.0	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2211760	NASHV-AMMONIA	07/05/23	NHaN	Ammonia Nitrogen	0.251	mg/L		0.020	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	30.00	WW
2211761	NASHV-AMMONIA	07/06/23	NHDL	Ammonia Distillation	6.0/6.0	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2211761	NASHV-AMMONIA	07/06/23	NHaN	Ammonia Nitrogen	0.188	mg/L		0.020	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	30.00	WW

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Project Tests

Client NASH City of Nashville Larry Dunaway *Project* 1066130

Email Project

Email Project

HOME

◉ All ○ Results ○ Open ○ Prep ○ No Prep

Filter

Sample	Sample ID	Taken	Test	Test Name	Results	Units	Flags	RL	Verified	Class	Method	MDL	MDLadj	MQL	MQLadj	Price	History
2214349	NASHV-AMMONIA	07/12/23	NHDL	Ammonia Distillation	6/6	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2214349	NASHV-AMMONIA	07/12/23	NHaN	Ammonia Nitrogen	ND	mg/L		0.00336	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	30.00	WW
2214349	NASHV-AMMONIA	07/12/23	ENVI	Environmental Fee (per Project)	Verified				Y	A						10.00	WW
2214350	NASHV-AMMONIA	07/13/23	NHDL	Ammonia Distillation	6/6	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2214350	NASHV-AMMONIA	07/13/23	NHaN	Ammonia Nitrogen	ND	mg/L		0.00336	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	30.00	WW
2214351	NASHV-AMMONIA	07/14/23	NHDL	Ammonia Distillation	6/6	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2214351	NASHV-AMMONIA	07/14/23	NHaN	Ammonia Nitrogen	ND	mg/L		0.00336	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	30.00	WW

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Project Tests

Client NASH City of Nashville Larry Dunaway *Project* 1068615

Email Project

Email Project

HOME

◉ All ○ Results ○ Open ○ Prep ○ No Prep

Filter

Sample	Sample ID	Taken	Parameter	Test Name	Results	Units	Flags	RL	Verified	Class	Method	MDL	MDLadj	MQL	MQLadj	Price	History
2220042	NASHV-AMMONIA	07/17/23	NHDL	Ammonia Distillation	6/6	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2220042	NASHV-AMMONIA	07/17/23	NHaN	Ammonia Nitrogen	ND	mg/L		0.00336	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	32.00	WW
2220042	NASHV-AMMONIA	07/17/23	ENVI	Environmental Fee (per Project)	Verified				Y	A						20.00	WW
2220043	NASHV-AMMONIA	07/18/23	NHDL	Ammonia Distillation	6/6	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2220043	NASHV-AMMONIA	07/18/23	NHaN	Ammonia Nitrogen	ND	mg/L		0.00336	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	32.00	WW
2220044	NASHV-AMMONIA	07/19/23	NHDL	Ammonia Distillation	6/6	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2220044	NASHV-AMMONIA	07/19/23	NHaN	Ammonia Nitrogen	ND	mg/L		0.00336	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	32.00	WW

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Bill Peery

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Project Tests

Client NASH City of Nashville Larry Dunaway *Project* 1068616

Email Project

Email Project

HOME

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Filter

Sample	Sample ID	Taken	Particulate	Test Name	Results	Units	Flags	RL	Verified	Class	Method	MDL	MDLadj	MQL	MQLadj	Price	Fiscal
2220045	NASHV-AMMONIA	07/27/23	NHDL	Ammonia Distillation	6/6	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2220045	NASHV-AMMONIA	07/27/23	NHaN	Ammonia Nitrogen	0.014	mg/L	J	0.020	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	32.00	WW
2220045	NASHV-AMMONIA	07/27/23	ENVI	Environmental Fee (per Project)	Verified				Y	A						20.00	WW
2220046	NASHV-AMMONIA	07/28/23	NHDL	Ammonia Distillation	6/6	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2220046	NASHV-AMMONIA	07/28/23	NHaN	Ammonia Nitrogen	0.126	mg/L		0.020	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	32.00	WW
2220047	NASHV-AMMONIA	07/29/23	NHDL	Ammonia Distillation	6/6	ml			Y	D	EPA 350.2, Rev. 2.0					0.00	WW
2220047	NASHV-AMMONIA	07/29/23	NHaN	Ammonia Nitrogen	0.459	mg/L		0.020	Y	D	EPA 350.1 2	0.00336	0.00336	0.020	0.020	32.00	WW
2220048	pickup/transport	08/04/23	P75	Sampling/Transport	Verified				Y	F						75.00	010

Pending QC Review QC Verified

Thank you for choosing SPL Kilgore Quality!

Bel-Art products
Route 23 South
Wayne, NJ 07470 USA
973-694-0500

PO 6785

DATE	12/26/19
CUSTOMER NO.	14426
QUOTE NO.	P001372
YOUR ORDER NO.	
TERMS	CREDIT CARD
EXPIRATION DATE	03/25/20
FOB	EXWORKS
PAGE	1

Inv# P001372

SOLD TO
City of Nashville
Attn: Sarah Khoury
426 N. Main Street
Nashville AR 71852
USA

LINE NO.	QUANTITY	ITEM	UNIT PRICE	EXTENDED PRICE
1	1.000 EA	C601440000 CALIBRATION,5 POINT CERTIFICATION 0, 60, 120, 180 & 230F,CERT100TO1505PT 602020500 - Serial #Q42668 Re-calibrated at 0, 4, 20, 37, 44.5 & 103C. RM05292 Shipping charge estimated for order is $24.01. PAYMENT MUST BE MADE IN ADVANCE LEAD TIME AFTER PAYMENT IS 5-10 WORKING DAYS. Email receipt to: Sarah Khoury ms_sarah_khoury77@yahoo.com	293.16000	293.16

$317.17

ALL PRICES SHOWN ARE IN US DOLLARS.
PRICES BILLED ARE EFFECTIVE AS AT TIME OF SHIPMENT>

MINIMUM BILLING:
DOMESTIC - $50 INTERNATIONAL - $100

PRO FORMA INVOICE ORDER WILL BE
CANCELED IF PAYMENT NOT RECEIVED
WITHIN 30 DAYS

Instrument
SCIENCEWARE
Prepare to Discover

Triple Accredited/Registered
ISO 9001:2015 Registered Manufacturer
ISO 14001:2015 Registered Manufacturer
ISO/IEC 17025:2017 Accredited Laboratory

H-B Instrument®

Thermometer Calibration Report

COPY

ACCREDITED
Calibration Cert. # 2448.01

Traceable to NIST

The instrument described below has been examined and tested in the H-B Instrument® Calibration Laboratory using controlled constant temperature equipment and standard thermometers traceable to NIST in accordance with our calibration procedure LAB-20 which is based in part on NBS Monograph 150, ASTM Method E-77, NIST SP 1088, and the International Temperature Scale ITS-90. Calibration is traceable to NIST. For a discussion of accuracy obtainable with such thermometers, see NIST SP 250-23. The results stated relate only to the instrument bearing the serial number identified.

This instrument is in good working order and is suitable for calibration. The capillary of a liquid in glass thermometer has been examined under magnification and no discernable capillary irregularities were noted. Strains in the glass revealed by examination under a polarized lens, if any, were judged to be minimal and of no detriment to the function of the instrument. Digital instruments are verified in good working order and calibrated according to procedures above with fresh battery(s) installed.

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories. This laboratory also meets the requirements of ANSI/NCSL Z540-1-1994 and any additional program requirements in the field of calibration. This accreditation also demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated 18 June 2005).

01/06/2020

City of Nashville
Sarah Khoury
426 N Main St
Nashville AR 71852

Tel: 1-870-845-45 Fax:
Reference No: Verbal
Calibration Due Date: 01/06/2021

Report No.	384784
Serial No	Q42668
Part No	602020500
Distributor	H-B Instrument
Manufacturer	H-B Instrument
Item	Thermometer, Partial Immersion
Range	-20/110°C, 1°Div., 76mm Imm., Organic Liquid
Tolerance	±1°C

N.I.S.T. Standard	Instrument Tested	Correction (ITS-90)*	Standard Serial No.	Traceability	Expanded Uncertainty (k=2)	Emer. Stem** Temperature
0.0°C	0.0°C	0.0	1285-028-415	CAL203367	± 0.12	22.0°C
4.0°C	3.8°C	0.2	1285-028-415	CAL203367	± 0.12	23.0°C
20.0°C	19.9°C	0.1	1285-028-415	CAL203367	± 0.12	23.0°C
37.0°C	36.9°C	0.1	1285-028-415	CAL203367	± 0.12	24.0°C
44.5°C	44.4°C	0.1	1285-028-415	CAL203367	± 0.12	25.0°C
103.0°C	102.0°C	1.0	1285-028-415	CAL203367	± 0.12	31.0°C

Ambient Air Temperature: 23°C

Relative Humidity: 41 %

* Observed instrument readings should be increased by positive numbers or reduced by negative numbers indicated by a minus (-) sign.
** Emergent Stem Temperature relates to PARTIAL IMMERSION thermometers ONLY.

The reported uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. Instruments with readings within tolerance (when known), are accepted. The uncertainty of measurement is an important factor for the user to consider when evaluating this instrument for conformance to tolerance standards.

Calibrated By: Leah Smith, Calibration Technician
Title

Checked By: Erika Reedy, Calibration Manager
Title

Bel-Art • SP Scienceware
102 West Seventh Avenue, Trappe, PA 19426-0770 USA
Telephone: (610) 489-5500 • Fax: (610) 489-9100
Email Address: hbcal@belart.com
Website Address: www.hbcalibration.com

 996190001 Rev.2

Bel-Art • H-B Instrument
SP SCIENCEWARE™
Prepare to Discover

05-Dec-19

Sarah Khoury
City of Nashville

426 N Main St
Nashville AR 71852
USA

Re: Annual Instrument Re-calibration (AIR)

Dear Sarah Khoury,

It has been eleven months since you purchased your calibrated instrument. This letter is a reminder of our special re-calibration offer. Return your instrument(s) for annual re-calibration, and receive a special 15% discount from our standard pricing for calibration services.

An annual verification of your temperature or density measurement instrument is recommended by the National Institute of Standards and Technology (NIST), and essential in any quality control procedures.

Please contact us to arrange the return of your instrument(s). You may E-mail info@hbinstrument.com or call 1-800-4-TEST-LAB. Thank you for the continued opportunity to serve you. We look forward to hearing from you soon.

Sincerely,

Jennifer Brown

Jennifer Brown
Customer Service Representative

Date of previous calibration: 1/10/2019
Report/Document Number: 378268
Instrument Serial Number: Q42668
Reference Number: Verbal
Part Number: 602020500

H-B Instrument - SP Scienceware Calibration Laboratory
102 West 7th Avenue, Trappe, PA 19426
Tel: 800-423-5278 • email: hbcal@belart.com • www.hbcalibration.com

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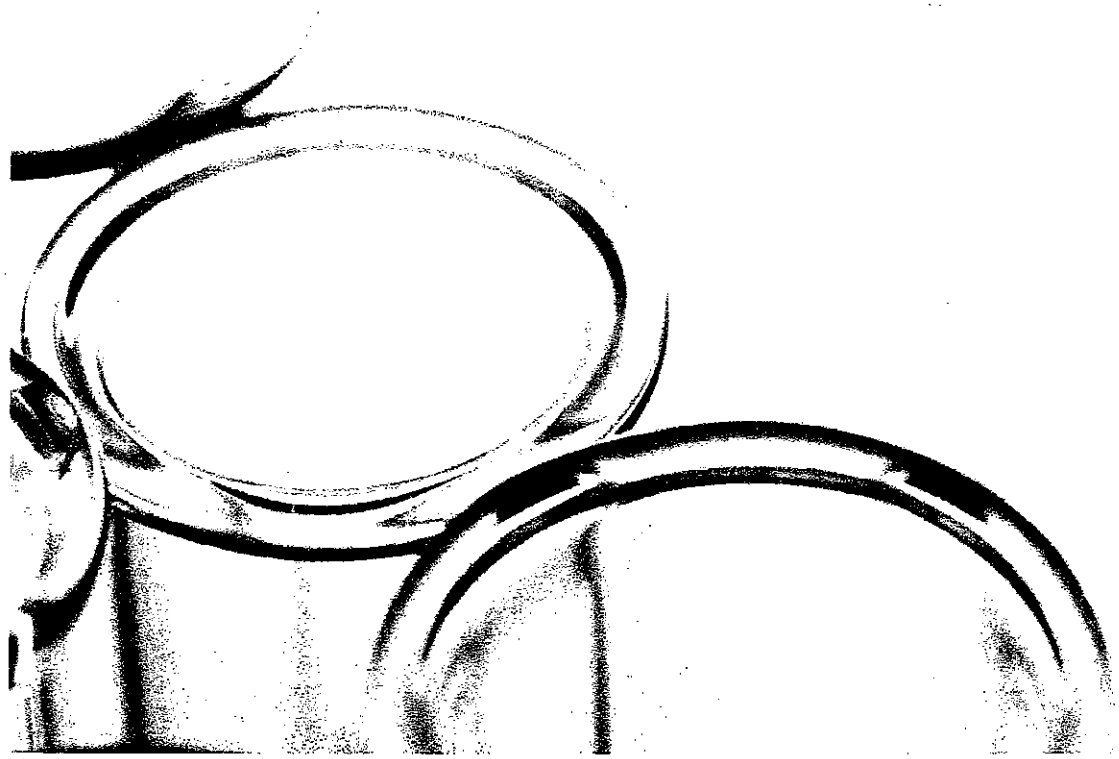
The Benchmark Performance Audit

Setting the Standard for Single-Blind Performance Evaluation



The DMR-QA Performance Audit

Nashville AR Wastewater Treatment Plant US EPA Identification # AR21776

This Report was prepared by:

Advanced Analytical Solutions, LLC

TNI PT Provider Code: TNIPTP19 A2LA Certificate Number: 2952.01

6325 Emerson Avenue P.O. Box 4090

Parkersburg, West Virginia 26104-4090

PHONE: 1-800-AUDIT-44 (283-4844) FAX: 1-304-485-6971 EMAIL: csr@AdvancedQC.com

HOME PAGE: http://www.AdvancedQA.com

Any questions about this report or its contents should be directed to us at the numbers provided above.

Participating Laboratory Information:

Name of Signatory:	Signatory Title:	Phone # of Signatory:	US EPA Identification #:	Home State Identification #
Mr. Kevin Funderburk	Lab Tech	(870) 845-4522	AR21776	

Date Samples Shipped:	Faxed Data Received On:	Original Data Received On:	Date Study Closed:	client #
26 April 2022	13 July 2022		15 July 2022	002181

As directed by our client, copies of this report, either hard copy or electronic, will be sent to the federal, state or corporate entities listed below.

Arkansas-ADEQ

This report was prepared for the exclusive use of:

Nashville AR City Hall

DMR-QA 42 *Client #002181*

Summary Report Prepared For

Nashville AR Wastewater Treatment Plant

426 North Main Street

Nashville, Arkansas 71852-2009

Study Open Date: 15 April 2022 Study Close Date: 15 July 2022 Original Print Date: 08-01-2022

Introductions, Definitions and Comments

Thank you for participating in the BenchMark Performance Audit. This program was designed to evaluate your laboratory's performance against TNI specified criteria. All results in this report relate only to the items calibrated and tested. This report shall not be reproduced except in full without written approval of Advanced Analytical Solutions. This report may not be used by the client in any way to claim product endorsement by any agency of the U.S. Government or any state agency. We will make every effort possible to assure the confidentiality of these results. Every effort has been made to assure that the laboratory information has been entered correctly. However, should you find a discrepancy, please notify us immediately and we will make any corrections necessary. The following definitions and information are provided to allow for a clearer understanding of terms used in this report.

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Study Discussion: There were no pertinent unusual details to report for this study.

Our primary goal is always your satisfaction. That is why we have the 100% customer satisfaction guarantee. Therefore, I would greatly appreciate any comments that you have on our program. We are here to serve you and we appreciate your business.

Respectively Submitted: 08-01-2022

Frederick S. Anderson

Frederick S. Anderson, Managing Partner

This report is scored by the criteria in the TNI V3 2016 standard instead of by the criteria in TNI V3 2009 standard to which the Proficiency testing Provider is accredited. This is a planned change and is endorsed by the TNI Proficiency Testing Program Executive Committee for transition to the TNI V3 2016 standard.

Study Open Date: 15 April 2022 Study Close Date: 15 July 2022 Original Print Date: 08-01-2022

The DMR-QA Performance Audit

Nashville AR Wastewater Treatment Plant US EPA Identification # AR21776

Performance Evaluation Summary Report

TNI Code	Analyte	Lot #	Units	Reported Value	Study Mean	Standard Deviation	Assigned Value	Acceptance Limits	Method Description	Method Code	Analysis Date	Performance Evaluation
Fecal Coliform/Total Coliform/E. Coli Count, BenchMark, WP (catalog # WP0400)												
2500	Total Coliform (MF)	D1170	CFU/100ml	24.00	51.4	2.93	209	2.03 - 1300	SM 9222 D		11-Jul-22	**Acceptable**
Demands, BenchMark WP (catalog # WP3000)												
1530	5-day BOD	D1186	mg/l	108.50	113	13.2	106	57.1 - 155	SM 5210 B		13-Jul-22	**Acceptable**
Dissolved Oxygen, BenchMark, WP (catalog # WP3200)												
1880	Dissolved Oxygen	D1187	mg/l	10.80	10.8	0.84	10.7	8.26 - 13.3	SM 4500-O G		08-Jul-22	**Acceptable**
pH, BenchMark, WP (catalog # WP5500)												
1900	pH	D1194	S.U.	8.10	7.88	0.23	8	7.8 - 8.2	SM 4500-H		08-Jul-22	**Acceptable**
Solids, BenchMark, WP (catalog # WP5600)												
1960	Non-Filterable Residue [TSS]	D1195A	mg/l	25.00	31.8	2.58	33.3	24 - 39.5	SM 2540 D		11-Jul-22	**Acceptable**

Study Open Date: 15 April 2022 Study Close Date: 15 July 2022 Original Print Date: 08-01-2022

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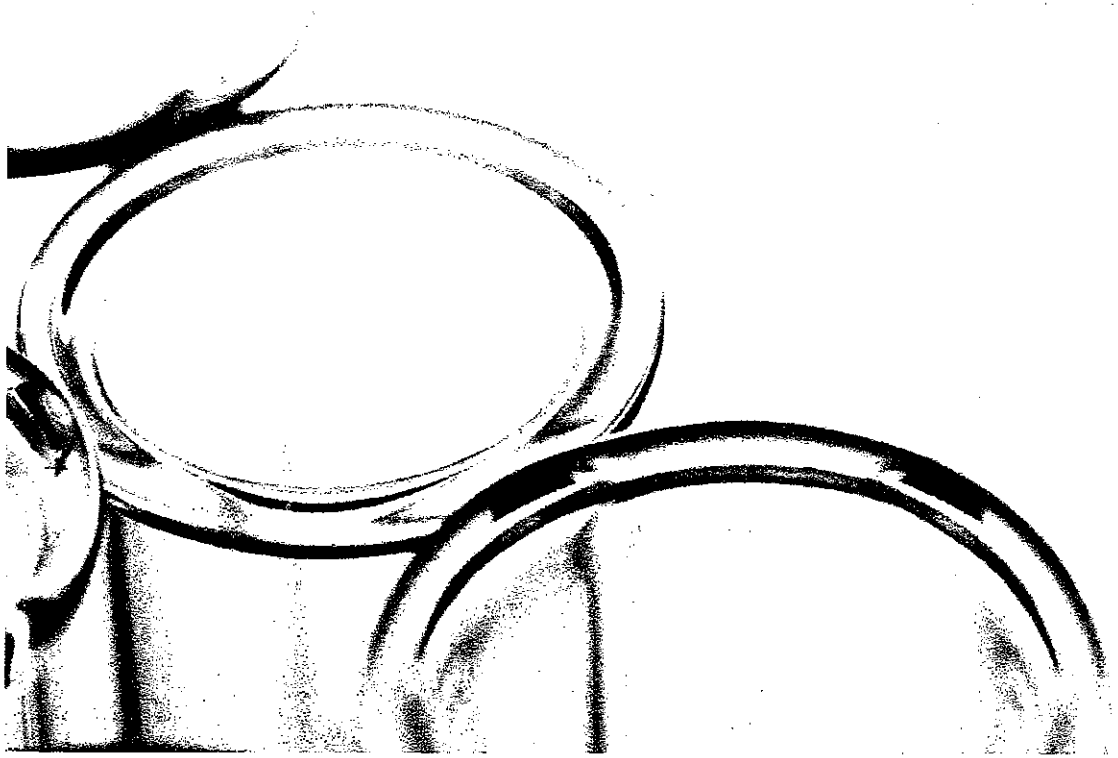

The DMR-QA Performance Audit

Nashville AR Wastewater Treatment Plant US EPA Identification # AR21776

This Report was prepared by:

Advanced Analytical Solutions, LLC
TNI PT Provider Code: TNIPTP19 A2LA Certificate Number: 2952.01
6325 Emerson Avenue P.O. Box 4090
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Mr. Kevin Funderburk	Lab Tech	(870) 845-4522	AR21776	

Date Samples Shipped:	Faxed Data Received On:	Original Data Received On:	Date Study Closed:	client #
01 June 2021	14 September 2021		27 August 2021	002181

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Arkansas-ADEQ

This report was prepared for the exclusive use of:

Nashville AR City Hall

DMR-QA 41 April 2021 *Client #002181*

Summary Report Prepared For

Nashville AR Wastewater Treatment Plant
426 North Main Street
Nashville, Arkansas 71852-2009

Study Open Date: 19 April 2021 Study Close Date: 27 August 2021 Original Print Date: 03 September 2021

Introductions, Definitions and Comments

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Respectively Submitted: 03 September 2021

Frederick S. Anderson

Frederick S. Anderson, Managing Partner

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Advanced Analytical Solutions 6325 Emerson Avenue Parkersburg, WV 26104 (304) 485-6325 csr@advancedqa.com www.advancedqa.com

The DMR-QA Performance Audit

Nashville AR Wastewater Treatment Plant US EPA Identification # AR21776

Performance Evaluation Summary Report

TNI Code	Analyte	Lot #	Units	Reported Value	Study Mean	Standard Deviation	Assigned Value	Acceptance Limits	Method Description	Method Code	Analysis Date	Performance Evaluation
Fecal Coliform Count, BenchMark, WP (catalog # WP0300)												
2530	Fecal Coliform (MF)	D1140	CFU/100ml	126.00	195	2.36	320	14.8 - 2580	SM 9222 D		25-Aug-21	**Acceptable**
Demands, BenchMark WP (catalog # WP3000)												
1530	5-day BOD	D1157	mg/l	70.70	95.1	18.4	94.9	50.9 - 139	SM 5210 B		14-Sep-21	**Acceptable**
Dissolved Oxygen, BenchMark, WP (catalog # WP3200)												
1880	Dissolved Oxygen	D1158	mg/l	11.90	9.98	0.734	9	7.78 - 12.2	SM 4500-O G		26-Aug-21	**Acceptable**
pH, BenchMark, WP (catalog # WP5500)												
1900	pH	D1165	S.U.	7.22	7.3	0.182	7.3	7.1 - 7.5	SM 4500-H		26-Aug-21	**Acceptable**
Solids, BenchMark, WP (catalog # WP5600)												
1960	Total Suspended Solids [TSS]	D1166	mg/l	43.80	48.8	5.57	54.3	42.6 - 61.8	SM 2540 D		26-Aug-21	**Acceptable**

Study Open Date: 19 April 2021 Study Close Date: 27 August 2021 Original Print Date: 03 September 2021

May 2023 Flow

Day	Flow MGD	Day		Day		Day		Day	
1	1.67	8	1.65	15	1.35	22	1.25	29	1.94
2	1.71	9	1.59	16	0	23	1.93	30	2.13
3	1.18	10	1.67	17	0.83	24	0.645	31	1.74
4	1.3	11	1.83	18	1.21	25	2.2		
5	1.81	12	1.49	19	1.07	26	2.13		
6	1.32	13	1.27	20	1.03	27	1.25		
7	1.72	14	0.356	21	1.03	28	1.16		
Total	10.71		9.856		6.52		10.565		5.81
7 DAY AVG.	1.53		1.408		0.9314		1.5093		
Month Total	43.461								
Monthly Avage	1.401968								

Amonia

Day	Results	Day	Results	Day	Results	Day	Results
4	0.281	10	2.29	18	0.752	25	0.117
5	1.31	11	2.92	19	0.213	26	0
6	0.763	12	2.3	20	0	27	0.016
Total	2.354		7.51		0.965		0.133
7 Day Avg.	0.784667		2.5033333		0.3217		0.0443
Monthly Total	3.654						
Monthly AVG	0.9135						
lbs/Day	26.5629						

4	3.0466	10	31.895	18	7.5887	25	2.146716	
5	19.775	11	44.566	19	1.9008	26	0	
6	8.3997	12	28.581	20	0	27	0.1668	
	31.221		105.04		9.4895		2.3135	
	10.407		35.014		3.1632		0.7712	49.355
								12.339

DO

Day	Results	Day	Results	Day	Results	Day	Results
3	7.91	10	7.38	18	7.22	22	7.72
4	8.36	11	8.11	19	8.38	26	7.6
5	8.43	12	7.63	20	7.58	27	7.55
Maxium	8.38						
Minium	7.55						

PH

Day	Result	Day		Day		Day	Results
3	7.48	10	7.58	18	7.25	22	7.9
4	7.54	11	7.54	19	7.48	26	7.45
5	7.68	12	7.63	20	7.36	27	7.63
Maxium	7.68						
Minium	7.25						

BOD

Day	Result	Pounds	Day		Result	Pounds	Day	Result	Pounds	Day	Result	Pounds
4	2.1	0	10		2.6		18	2.8		25	3.2	
5	2	0	11		1.8		19	1.6		26	1.5	
6	1.4	0	12		1.5		20	0.95		27	1.4	
Totals	5.5	0			5.9			5.35			6.1	
7 Day Avg.	1.833333				1.9667			1.7833			2.0333	
Monthly Total	7.616667											
Monthly AVG	1.904167											
lbs/Day	108.2949											

4	22.768	10	36.212	18	28.256	25	58.714
5	30.191	11	27.472	19	14.278	26	26.646
6	15.412	12	18.64	20	8.1607	27	24.87
	68.371		82.324		50.695		110.23
	22.79		27.441		16.898		36.743
	103.87						
	25.968						

npw May 2023

May-23

TSS (three/week)

Day	Concentration (mg/l)	7-Day Average (mg/l)	Flow (MGD)	Loading (lbs/day)
4	3.80		1.300	41.20
5	4.30		1.810	64.91
6	1.30	3.13	1.320	14.31
10	3.30		1.670	45.96
11	3.50		1.830	53.42
12	2.50	3.10	1.490	31.07
18	5.00		1.210	50.46
19	9.00		1.070	80.31
20	5.30	6.43	1.030	45.53
25	4.30		2.200	78.90
26	4.50		2.130	79.94
27	4.30	4.37	1.610	57.74
29	0.00			0.00
30	0.00			0.00
31	0.00	0.00		0.00
Monthly Average	4.26			
	9.56			
		17.03		
		4.258333333		643.74
				53.644965

May-23

FCB (three/week)

Day	Count	Log	Average	Geo Mean
3	2	0.30		
4	2	0.30		
5	7	0.85	0.48	3.0365889718757
9	2	0.30		
10	34	1.53		
11	6	0.78	0.87	7.4168595385324
18	7	0.85		
19	3	0.48		
20	2	0.30	0.54	3.4760266448865
22	1	0.00		
26	3	0.48		
27	2	0.30	0.26	1.81712059283214
28	0	#NUM!	#NUM!	#NUM!
29	0	#NUM!		
30	0	#NUM!		
Average		0.54		
Geo Mean		3.45356972040154		

May 2023 Flow

1 Over Flow

1) 1.69
2) 1.71
3) 1.18
4) 1.30
5) 1.81
6) 1.32
7) 1.72
8) 1.65
9) 1.59
10) 1.67
11) 1.83
12) 1.49
13) 1.27
14) 0.356
15) 1.35
16) 0.0
17) 0.830
18) 1.21
19) 1.07
20) 1.03
21) 1.03
22) 1.25
23) 1.93
24) 0.645
25) 2.20
26) 2.13
27) 1.25
28) 1.16
29) ~~1.46~~ 1.94
30) 2.13
31) 1.74

PH

3) 7.48
4) 7.54
5) 7.68
10) 7.58
11) 7.54
12) 7.63
18) 7.25
19) 7.48
20) 7.36
22) 7.90
26) 7.45
27) 7.63

DO

3) 7.91
4) 8.36
5) 8.43
10) 7.38
11) 8.11
12) 7.63
18) 7.22
19) 8.38
20) 7.58
22) 7.72
26) ~~7.55~~ 7.60
27) 7.55

TSS

4) 3.8
5) 4.3
6) 1.3
10) 3.3
11) 3.5
12) 2.5
18) 5.0
19) 9.0
20) 5.3
25) 4.3
26) 4.5
27) 4.3

BOD

4) 2.1
5) 2.0
6) 1.4
10) 2.6
11) 1.8
12) 1.5
18) 2.8
19) 1.6
20) 0.95
25) 3.2
26) 1.5
27) 1.4

WWT DAILY TESTSHEET

Monday

DATE:	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT					
TIME:	DAILY FLOW:				

Pond 1	Pond 2
X	X
X	X

TESTED BY:

Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Tuesday

DATE:	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT					
EFFLUENT Duplicate					
TIME:	DAILY FLOW:				

Pond 1	Pond 2
X	X
X	X

TESTED BY:

Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Wednesday

S Time 1337

DATE: 3 May 2023	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1	~~70.2~~	~~6.98~~	~~0.08~~		
#1 WIER	~~71.7~~	~~6.88~~	~~0.91~~		
FRONT OF POND #2					
#2 WIER					
EFFLUENT	71.7	7.48	7.91	75	0.27
TIME: 1345	DAILY FLOW:				

Pond 1	Pond 2
X	X
X	X

TESTED BY: Kevin Sandstrom

Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Thursday

S Time 1212

DATE: 4 May 23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT				80	
FRONT OF POND #1	70.2	6.98	0.08	N/A	N/A
#1 WIER	71.7	6.88	0.91	N/A	N/A
FRONT OF POND #2					
#2 WIER					
EFFLUENT	71.6	7.54	8.36	75	0.29
TIME: 1250	DAILY FLOW:				

Pond 1	Pond 2
X	X
X	X

TESTED BY: Kevin Sandstrom

Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Friday

DATE: 5 May 23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT	70.4	7.68	8.49	85	1.31
TIME: 0558	DAILY FLOW:				

Pond 1	Pond 2
X	X
X	X

TESTED BY: Kevin Sandstrom

Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

WWT DAILY TESTSHEET

Monday

DATE:	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT					
TIME:	DAILY FLOW:				

Pond 1: X X
Pond 2: X X

TESTED BY:
Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Tuesday

DATE:	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT					
EFFLUENT Duplicate					
TIME:	DAILY FLOW:				

Pond 1: X X
Pond 2: X X

TESTED BY:
Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Wednesday

Sample Time 1200

DATE: 10 May 23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT	69.7	6.97	4.49	70	10.53
FRONT OF POND #1	77.2	7.13	0.06	N/A	N/A
#1 WIER	75.8	7.08	0.86	N/A	N/A
FRONT OF POND #2					
#2 WIER					
EFFLUENT	76.6	7.58	7.38	70	2.16
TIME: 1245	DAILY FLOW:				

Pond 1: X X
Pond 2: X X

TESTED BY:
Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Thursday

Sample Time 1235

DATE: 11 May 23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT	70.0	6.12	6.30	80	1.80
FRONT OF POND #1	74.1	7.13	0.14	N/A	N/A
#1 WIER	73.5	7.09	1.20	75	3.06
FRONT OF POND #2					
#2 WIER					
EFFLUENT	74.0	7.54	8.11	85	2.25
TIME: 1317	DAILY FLOW:				

Pond 1: X X
Pond 2: X X

TESTED BY: [illegible]
Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Friday

Sample Time 1225

DATE: 12 May 23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT	74.9	7.63	7.63	90	1.74
TIME:	DAILY FLOW:				

Pond 1: X X
Pond 2: X X

TESTED BY:
Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

WWT DAILY TESTSHEET

Monday

DATE:	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT					
TIME:	DAILY FLOW:				

Pond 1: X X
Pond 2: X X

TESTED BY:
Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Tuesday

DATE:	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT					
EFFLUENT Duplicate					
TIME:	DAILY FLOW:				

Pond 1: X X
Pond 2: X X

TESTED BY:
Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Thursday ~~Wednesday~~

DATE: 18May23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT	78.0	7.25	7.22	85	0.95
TIME: 1407	DAILY FLOW:				

Pond 1: X X
Pond 2: X X

TESTED BY: Kevin Sudeikis
Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Friday ~~Thursday~~

DATE: 19May23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT	77.9	7.48	8.38	80	<1
TIME: 1225	DAILY FLOW:				

Pond 1: X X
Pond 2: X X

TESTED BY: Kevin Sudeikis
Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Saturday ~~Friday~~

DATE: 20May23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT	76.5	7.36	7.66	70	0.07
TIME: 1022	DAILY FLOW:				

Pond 1: X X
Pond 2: X X

TESTED BY: Kevin Sudeikis
Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

WWT DAILY TESTSHEET

Monday

DATE: 22May23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT	76.0	7.90	7.72	75	61
TIME: 1719	DAILY FLOW:				

Pond 1: X X X
Pond 2: X X X

TESTED BY: Kori Stedeln
Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Tuesday

DATE: 23May23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT					
EFFLUENT Duplicate					
TIME:	DAILY FLOW:				

Pond 1: X X X
Pond 2: X X X

TESTED BY:
Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Wednesday (Saturday May 27)

DATE: 27May23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT	75.4	7.63	7.55	70	0.09
TIME: 0915	DAILY FLOW:				

Pond 1: X X X
Pond 2: X X X

TESTED BY: Kori Stedeln
Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Thursday (Friday)

DATE:	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT					
TIME: 09	DAILY FLOW:				

Pond 1: X X X
Pond 2: X X X

TESTED BY: Kori Stedeln
Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Friday (1303)

DATE: 26May23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT	73.1	7.01	5.11	85	12.96
FRONT OF POND #1	82.2	7.04	1.32	N/A	N/A
#1 WIER	81.3	7.00	5.26	70	0.69
FRONT OF POND #2					
#2 WIER					
EFFLUENT	76.6	7.45	7.60	75	0.18
TIME: 1326	DAILY FLOW:				

Pond 1: X X X
Pond 2: X X X

TESTED BY: Kori Stedeln
Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

TSS EPA METHOD 160.2

RESIDUE NONFILTERABLE

BENCH SHEET

PLANT EFFNA001

MONTH May 2023

On 0900-

TSS= INITIAL WT W/SAMPLE – CONSTANT FILTER WT/SAMPLE SIZE X 1,000,000

FINAL TSS = FINAL WT W/SAMPLE – CONSTANT FILTER WT/SAMPLE SIZE X 1,000,000

Kevin Sundstrom

SAMPLE DATE	PAD #	SAMPLE SIZE	INITIAL WT	CONSTANT WT <.5	CONSTANT WT <.5	INITIAL W/SAMPLE	FINAL W/ SAMPLE	TSS	FINAL TSS	TIME/ INITIAL
4	1	200	0.0981		0.0981		0.0987		3.0	1100
		200	0.0580		0.0580		0.0589		~~4.5~~ 3.8	KF
5	3	200	0.0992		0.0992		0.0999		3.5	1100
	9	200	0.0987		0.0987		0.0997		~~5.0~~ 4.3	KF
6	7	200	0.0988		0.0988		0.0992		2.0	1100
	14	200	0.0972		0.0972		0.0973		~~2.5~~ 1.3	KF

4 May 2023 1515 – 2146

5 May 2023 0715 – 1233

6 May 2023 0015 – 0537

TSS EPA METHOD 160.2

RESIDUE NONFILTERABLE

BENCH SHEET

PLANT EFF/A001

MONTH May 2023

Weight 10.00-10.00

On Time 132

TSS= INITIAL WT W/SAMPLE – CONSTANT FILTER WT/SAMPLE SIZE X 1,000,000

FINAL TSS = FINAL WT W/SAMPLE – CONSTANT FILTER WT/SAMPLE SIZE X 1,000,000

SAMPLE DATE	PAD #	SAMPLE SIZE	INITIAL WT	CONSTANT WT <.5	CONSTANT WT <.5	INITIAL W/SAMPLE	FINAL W/ SAMPLE	TSS	FINAL TSS	TIME/ INITIAL
10	1	200	0.0988	0.0988			0.0997		4.5	152
	1	200	0.0991	0.0991			0.0995		2.0	KF
									3.3	
11	3	200	0.0992	0.0992			0.0993		0.5	152
	9	200	0.0992	0.0992			0.1004		6.5	KF
									3.5	
12	7	200	0.0986	0.0986			0.0988		1.0	152
	14	200	0.0992	0.0992			0.1000		4.0	KF
									2.5	

TSS EPA METHOD 160.2
RESIDUE NONFILTERABLE

BENCH SHEET

PLANT EFFNA001
MONTH May 2023

TSS= INITIAL WT W/SAMPLE – CONSTANT FILTER WT/SAMPLE SIZE X 1,000,000

FINAL TSS = FINAL WT W/SAMPLE – CONSTANT FILTER WT/SAMPLE SIZE X 1,000,000

SAMPLE DATE	PAD #	SAMPLE SIZE	INITIAL WT	CONSTANT WT <.5	CONSTANT WT <.5	INITIAL W/SAMPLE	FINAL W/ SAMPLE	TSS	FINAL TSS	TIME/ INITIAL
18	1	200	0.0996				0.1004		4.0	1121
	1	200	0.0989				0.1001		6.0	KF
									5.0	
19	3	200	0.0982				0.0998		8.0	1121
	9	200	0.0987				0.1007		10	KF
									9.0	
20	7	200	0.0978				0.0987	4.5	~~10~~	1121
	14	200	0.0996				0.1007	6.0	5.3	KF

TSS EPA METHOD 160.2

RESIDUE NONFILTERABLE

PH = 7.27

BENCH SHEET

Sample Time 1100

PLANT Waterplant

MONTH May 2023

TSS= INITIAL WT W/SAMPLE – CONSTANT FILTER WT/SAMPLE SIZE X 1,000,000

FINAL TSS = FINAL WT W/SAMPLE – CONSTANT FILTER WT/SAMPLE SIZE X 1,000,000

SAMPLE DATE	PAD #	SAMPLE SIZE	INITIAL WT	CONSTANT WT <.5	CONSTANT WT <.5	INITIAL W/SAMPLE	FINAL W/ SAMPLE	TSS	FINAL TSS	TIME/ INITIAL
19	17	200	0.0981				0.0986		2.5	1120
	17	200	0.0985				0.0995		~~5.0~~ 3.5	KF

TSS EPA METHOD 160.2

RESIDUE NONFILTERABLE

BENCH SHEET

PLANT EFF/NA001

MONTH May 2023

Kevin Sundelark

0708 23
OFF 1040

TSS= INITIAL WT W/SAMPLE – CONSTANT FILTER WT/SAMPLE SIZE X 1,000,000

FINAL TSS = FINAL WT W/SAMPLE – CONSTANT FILTER WT/SAMPLE SIZE X 1,000,000

SAMPLE DATE	PAD #	SAMPLE SIZE	INITIAL WT	CONSTANT WT <.5	CONSTANT WT <.5	INITIAL W/SAMPLE	FINAL W/ SAMPLE	TSS	FINAL TSS	TIME/ INITIAL
							0.0999			
25	1	200	0.0990			0.0990	0.1000		4.5	
	1	200	0.0980			0.0980	0.0988		4.0	1040
									(4.3)	KF
26	3	200	0.0995			0.0995	0.1001		3.0	1040
	9	200	0.0977			0.0977	0.0989		6.0	KF
									(4.5)	
27	7	200	0.0992			0.0992	0.1001		4.5	1040
	14	200	0.0981			0.0981	0.0989		4.0	KF
									(4.3)	

FECAL / THERMOTOLERANT COLIFORM BENCH SHEET

SAMPLE DAY: 3 May 2023		SAMPLE TIME: 1337	
DATE ON: 3 May 23	TEMP: 44.5	DATE OFF: 4 May 23 ~~121~~	TEMP: 44.5 ~~12~~
TIME ON: 1356	TECH: KF	TIME OFF: 1257	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	2	3	3	
	2	1.5	1	2

SAMPLE DAY: 4 May 2023		SAMPLE TIME: 1212	
DATE ON: 4 May 23	TEMP: 44.5	DATE OFF: 5 May 23	TEMP: 44.5
TIME ON: 1300	TECH: KF	TIME OFF: 0606	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	1	3	10	
	1	1.5	3	2

SAMPLE DAY: 5 May 2023		SAMPLE TIME: 0548	
DATE ON: 5 May 23	TEMP: 44.5	DATE OFF: 6 May 23	TEMP: 44.5
TIME ON: 0610	TECH: KF	TIME OFF: 0810	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	5	20	15	
	5	10	5	7

FECAL / THERMOTOLERANT COLIFORM BENCH SHEET

SAMPLE DAY: 9 May 2023		SAMPLE TIME: 0540	
DATE ON: 9May2023	TEMP: 44.5	DATE OFF: 10May23	TEMP: 44.5
TIME ON: 0545	TECH: KF	TIME OFF: 0857	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	1	1	9	2
	1	0.5	3	

SAMPLE DAY: 10May2023		SAMPLE TIME: 1200	
DATE ON: 10May23	TEMP: 44.5	DATE OFF: 11May23	TEMP: 44.5
TIME ON: 1310	TECH: KF	TIME OFF: 1330	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	39	53	111	34
	39	27	37	

SAMPLE DAY: 11May2023		SAMPLE TIME: ~~1330~~ 1225	
DATE ON: 11May23	TEMP: 44.5	DATE OFF: 12May23	TEMP: 44.5
TIME ON: 1330	TECH: KF	TIME OFF: 1315	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	5	10	23	6
	5	5	8	

FECAL / THERMOTOLERANT COLIFORM BENCH SHEET

SAMPLE DAY: 18May2023		SAMPLE TIME: 1400	
DATE ON: 18May23	TEMP: 44.5	DATE OFF: 19May23	TEMP: 44.5
TIME ON: 1415	TECH: KF	TIME OFF: 1237	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	6	16	20	7
	6	8	7	

SAMPLE DAY: 19May23		SAMPLE TIME: 1200	
DATE ON: 19May23	TEMP: 44.5	DATE OFF: 20May23	TEMP: 44.5
TIME ON: 1237	TECH: KF	TIME OFF: 1030	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	2	8	11	3
	2	4	4	

SAMPLE DAY: 20May2023		SAMPLE TIME: 1013	
DATE ON: 20May23	TEMP: 44.5	DATE OFF: 21May23	TEMP: 44.5
TIME ON: 1030	TECH: KF	TIME OFF: 0921	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	1	3	3	2
	1	1.5	1	

FECAL / THERMOTOLERANT COLIFORM BENCH SHEET

SAMPLE DAY: 22May 2023		SAMPLE TIME: 0'1711	
DATE ON: 22May23	TEMP: 44.5	DATE OFF: 23May23	TEMP: 44.5
TIME ON: 0730	TECH: KF	TIME OFF:	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	1	2	1	1
	1	1	0.3	

SAMPLE DAY: 26May2023		SAMPLE TIME: 1303	
DATE ON: 26May23	TEMP: 44.5	DATE OFF: 27May23	TEMP: 44.5
TIME ON: 1340	TECH: KF	TIME OFF: 1100	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	4	6	6	3
	4	3	2	

SAMPLE DAY: 27May2023		SAMPLE TIME: 0900	
DATE ON: 27May23	TEMP: 44.5	DATE OFF: 28May23	TEMP: 44.5
TIME ON: 0950	TECH: KF	TIME OFF: 0930	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	2	3	3	2
	2	2	1	

May 2023 Flow

Day	Flow MGD	Day		Day		Day		Day	
1	1.67	8	1.65	15	1.35	22	1.25	29	1.94
2	1.71	9	1.59	16	0	23	1.93	30	2.13
3	1.18	10	1.67	17	0.83	24	0.645	31	1.74
4	1.3	11	1.83	18	1.21	25	2.2		
5	1.81	12	1.49	19	1.07	26	2.13		
6	1.32	13	1.27	20	1.03	27	1.25		
7	1.72	14	0.856	21	1.03	28	1.16		
Total	10.71		9.856		6.52		10.565		5.81
7 DAY AVG.	1.53		1.408		0.9314		1.5093		
Month Total	43.461								
Monthly Avage	1.401968								

Amonia

Day	Results	Day	Results	Day	Results	Day	Results										
4	0.281	10	2.29	18	0.752	25	0.117	4	3.0466	10	31.895	18	7.5887	25	2.146716		
5	1.31	11	2.92	19	0.213	26	0	5	19.775	11	44.566	19	1.9008	26	0		
6	0.763	12	2.3	20	0	27	0.016	6	8.3997	12	28.581	20	0	27	0.1668		
Total	2.354		7.51		0.965		0.133		31.221		105.04		9.4895		2.3135		
7 Day Avg.	0.784667		2.5033333		0.3217		0.0443		10.407		35.014		3.1632		0.7712		49.355
Monthly Total	3.654																12.339
Monthly AVG	0.9135																
lbs/Day	26.5629																

DO

Day	Results	Day	Results	Day	Results	Day	Results
3	7.91	10	7.38	18	7.22	22	7.72
4	8.36	11	8.11	19	8.38	26	7.6
5	8.43	12	7.63	20	7.58	27	7.55
Maxium	8.38						
Minium	7.55						

PH

Day	Result	Day		Day		Day	Results
3	7.48	10	7.58	18	7.25	22	7.9
4	7.54	11	7.54	19	7.48	26	7.45
5	7.68	12	7.63	20	7.36	27	7.63
Maxium	7.68						
Minium	7.25						

BOD

Day	Result	Pounds	Day	Result	Pounds	Day	Result	Pounds	Day	Result	Pounds										
4	2.1		0	10	2.6		18	2.8		25	3.2		4	22.768	10	36.212	18	28.256	25	58.714	
5	2		0	11	1.8		19	1.6		26	1.5		5	30.191	11	27.472	19	14.278	26	26.646	
6	1.4		0	12	1.5		20	0.95		27	1.4		6	15.412	12	18.64	20	8.1607	27	24.87	
Totals	5.5		0		5.9			5.35			6.1			68.371		82.324		50.695		110.23	
7 Day Avg.	1.833333				1.9667			1.7833			2.0333			22.79		27.441		16.898		36.743	
Monthly Total	7.616667													103.87							
Monthly AVG	1.904167													25.968							
lbs/Day	108.2949																				

npw May 2023

May-23

TSS (three/week)

Day	Concentration (mg/l)	7-Day Average (mg/l)	Flow (MGD)	Loading (lbs/day)
4	3.80		1.300	41.20
5	4.30		1.810	64.91
6	1.30	3.13	1.320	14.31
10	3.30		1.670	45.96
11	3.50		1.830	53.42
12	2.50	3.10	1.490	31.07
18	5.00		1.210	50.46
19	9.00		1.070	80.31
20	5.30	6.43	1.030	45.53
25	4.30		2.200	78.90
26	4.50		2.130	79.94
27	4.30	4.37	1.610	57.74
29	0.00			0.00
30	0.00			0.00
31	0.00	0.00		0.00
Monthly Average	4.26			
	9.56			
		17.03		
		4.258333333		643.74
				53.644965

May-23

FCB (three/week)

Day	Count	Log	Average	Geo Mean
3	2	0.30		
4	2	0.30		
5	7	0.85	0.48	3.0365889718757
9	2	0.30		
10	34	1.53		
11	6	0.78	0.87	7.4168595385324
18	7	0.85		
19	3	0.48		
20	2	0.30	0.54	3.4760266448865
22	1	0.00		
26	3	0.48		
27	2	0.30	0.26	1.81712059283214
28	0	#NUM!	#NUM!	#NUM!
29	0	#NUM!		
30	0	#NUM!		
Average		0.54		
Geo Mean		3.45356972040154		

Lab Calibration Sheet:

Date: 25 May 2023

Time: 0910

PH

Slope:_____

Offset:_____

Voltage:_____

Temperature:_____

4.00_____

7.00_____

10.00_____

DO

Slope: 88.56

Offset: 0.00

Temperature: 70.2

mmHg: 752 mmHg

8.40 - 8.36

Lab Calibration Sheet:

Date: 23May2023

Time: 1335

PH

Slope: -5653

Offset: -228mV

Voltage: 144.6mV

Temperature: 19.6

4.00 4.00 4.04

7.00 7.02 7.08

10.00 10.05 10.05

DO

Slope: 8428

Offset: 0.00

Temperature: 20 Kevin Sundenbark

mmHg: 752

8.40 8.39

Lab Calibration Sheet:

Date: 27 May 2023

Time: 1003

PH

Slope:_____

Offset:_____

Voltage:_____

Temperature:_____

4.00_____

7.00_____

10.00_____

DO

Slope: 84.96

Offset: 0.00

Temperature: 68.3/20°C

mmHg: 754 mmHg

DO 840-8-37

Lab Calibration Sheet:

Date: 31 May 2023

Time: 1201

PH

Slope: -57.03

Offset: -233mV

Voltage: 145.1mV

Temperature: 69.1°F

4.00 4.00 - 4.03

7.00 7.01 - 7.06

10.00 10.06 - 10.07

DO

Slope: 8.538

Offset: 0.00

Temperature: 68.7°F

mmHg: 752mmHg

8.40 - 8.34

B.O.D. LABORATORY DETERMINATIONS

SOURCE OF SAMPLES WP 001-A TEMP 20C. LAB TECH Kevin Sunderlink
COLLECTION DATE 4-5-6 may 2023 5 DAY INCUBATION PERIOD 6 may 23 TO 11 may 23
TIME TESTING BEGAN 1ST DAY _____ TIME TESTING ENDED 1ST DAY 1000
TIME TESTING BEGAN 5TH DAY _____ TIME TESTING ENDED 5TH DAY 1335
PROCEDURE 5210B FROM STANDARD METHOD 19TH EDITION PAGE 5-2
METHOD USED: WINKLER TITRATION (CALIBRATION FOR ELECTRODE METHOD)

Duplicates are performed on each analysis and pH of samples are between 6.5 and 7.5, if not adjust w/ N-OH or Sulf.acid

Depletion=Initial D.O. – Final D.O. %Depletion=Depletion / Initial D.O. %Sample=ml of sample/300or depl/mgl BOD
MLS of Sample=%sample x 300 MG/L BOD= depl. / %sample (without seed) or depl. – SCF / %sample
Seed control factor=depl.(SC) x mls reseed / mls of sample (SC) Range>.6 & <1.0 with depl of 43% & 70%
Final DO must be > 1.0 Depletion must be > 2.0 Samples that Blank out: Use Range sheet at 100%

Bottles #1	Bottles #2	Sample Description	MLS Sample	Initial D.O.	Final D.O.	Depl <.2	% Depl.	% Sample	MG/L BOD	Remarks
1		Dill. H2O	300	8.4	8.0			100		
2		Seed Control	20	8.4	3.5	4.9	58	.07	23.5	6 (1.4)
3		"	25	8.3	2.4	5.9	71	.08	20.8	4 (0.94)
		"	30					.10		
Date 4		pH								
4		Reseed w/ 6 ml	294	10.4	6.9	3.5	34	.98	3.2	2.1
5		4 ml	296	10.6	7.2	3.9	37	.99	3.8	
6		Duplicate 4 ml	296	10.6	7.6	3.1	29	.99	3.2	
		ml								
		ml								% removal:
		RAW								
Date 5		pH								
7		Reseed w/ ml	294	10.1	6.5	3.6	36	.98	2.3	2.0
8		ml	296	10.2	7.6	2.6	25	.99	1.7	
9		ml	296	10.3	7.5	2.8	27	.99	1.9	
		ml								% removal:
		RAW								
Date 6		pH								
10		Reseed w/ ml	294	9.3	6.6	2.7	29	.98	1.4	1.4
11		ml	296	9.3	7.0	2.3	25	.99	2.3 1.4	
12		ml	296	9.3	6.9	2.4	26	.99	1.5	
		ml								% removal:
		RAW								
6 6A		4 Seed								
13		GGA reseed: 4 ml	3	8.5	3.4			.01		
14		Duplicate	3	8.5	3.2			.01		
15		Dill. H2O	300	8.5	7.9			100		

4may23 1515-2146 6may23 0015-0537
5may23 0715-1233

B.O.D. LABORATORY DETERMINATIONS

SOURCE OF SAMPLES WP 001-A TEMP 20C. LAB TECH Kevin Sundstrub
COLLECTION DATE 10-11-12 09:23 5 DAY INCUBATION PERIOD 12 09:23 TO 17 09:22
TIME TESTING BEGAN 1ST DAY _____ TIME TESTING ENDED 1ST DAY 1427
TIME TESTING BEGAN 5TH DAY _____ TIME TESTING ENDED 5TH DAY 1600h
PROCEDURE 5210B FROM STANDARD METHOD 19TH EDITION PAGE 5-2
METHOD USED: WINKLER TITRATION (CALIBRATION FOR ELECTRODE METHOD)

Duplicates are performed on each analysis and pH of samples are between 6.5 and 7.5, if not adjust w/ N-OH or Sulf.acid

Depletion=Initial D.O. – Final D.O. %Depletion=Depletion / Initial D.O. %Sample=ml of sample/300or depl/mgl BOD
MLS of Sample=%sample x 300 MG/L BOD= depl. / %sample (without seed) or depl. – SCF / %sample
Seed control factor=depl.(SC) x mls reseed / mls of sample (SC) Range>.6 & <3.0 with depl of 40% & 70%
Final DO must be > 1.0 Depletion must be > 2.0 Samples that Blank out: Use Range sheet at 100%

Bottles #1	Bottles #2	Sample Description	MLS Sample	Initial D.O.	Final D.O.	Depl < .2	% Depl.	% Sample	MG/L BOD	Remarks
		Dill. H2O	300	8.3	7.8			100		
					3.9					
2		Seed Control	20	8.3	4.0	4.4	53	.07	66	6(1.3)
3		"	25	8.3	2.9	30	64	.08	636	4(0.85)
		"	30		5.3			.10		
Date 10		pH								
4		Reseed w/ 6 ml	294	9.8	5.7	4.1	42	.98	2.9	
5		4 ml	296	9.8	6.1	3.7	38	.99	2.9	2.6
6		Duplicate 4 ml	296	9.9	6.1	3.8	38	.99	2.0	
		ml								
		ml								
		RAW								% removal:
Date 11		pH								
7		Reseed w/ 6 ml	294	9.7	6.7	3.0	31	.98	1.8	
8		4 ml	296	9.8	7.2	2.6	27	.99	1.8	1.8
9		4 ml	296	9.8	7.2	2.6	27	.99	1.8	
		ml								
		RAW								% removal:
Date 12		pH								
10		Reseed w/ 6 ml	294	9.2	6.6	2.6	28	.99	1.4	
11		4 ml	296	9.2	6.9	2.3	25	.99	1.5	1.5
12		4 ml	296	9.2	6.8	2.4	26	.99	1.6	
		ml								
		RAW								% removal:
		666A	4 Seed							
13		GGA reseed: 6 ml	3	8.4	3.5			.01		
14		Duplicate	3	8.4	3.8			.01		
15		Dill. H2O	300	8.4	7.8			100		

B.O.D. LABORATORY DETERMINATIONS

SOURCE OF SAMPLES WP 001-A TEMP.20C. LAB TECH Kevin Funderburk
COLLECTION DATE 18 1920 May 23 5 DAY INCUBATION PERIOD 20 May 23 TO 25 May 23
TIME TESTING BEGAN 1ST DAY _____ TIME TESTING ENDED 1ST DAY 1196
TIME TESTING BEGAN 5TH DAY _____ TIME TESTING ENDED 5TH DAY 0931
PROCEDURE 5210B FROM STANDARD METHOD 19TH EDITION PAGE 5-2
METHOD USED: WINKLER TITRATION (CALIBRATION FOR ELECTRODE METHOD)

Duplicates are performed on each analysis and pH of samples are between 6.5 and 7.5, if not adjust w/ N-OH or Sulf.acid

Depletion=Initial D.O. – Final D.O. %Depletion=Depletion / Initial D.O. %Sample=ml of sample/300or depl/mgl BOD
MLS of Sample=%sample x 300 MG/L BOD= depl. / %sample (without seed) or depl. – SCF / %sample
Seed control factor=depl.(SC) x mls reseed / mls of sample (SC) Range>.6 & <3.0 with depl of 43% & 70%
Final DO must be > 1.0 Depletion must be > 2.0 Samples that Blank out: Use Range sheet at 100%

Bottles #1	Bottles #2	Sample Description	MLS Sample	Initial D.O.	Final D.O.	Depl < .2	% Depl.	% Sample	MG/L BOD	Remarks
		Dil. H2O	300	8.4	8.3			100		
2		Seed Control	20	8.3	4.4	3.9	47	.07	585	6 (1.78)
3		"	25	8.3	3.4	4.9	59	.08	585	4 (0.78)
		"	30					.10		
Date 18		pH								
4		Reseed w/ 6 ml	294	9.3	5.4	3.9	42	.98	2.8	2.8
5		4 ml	296	9.4	5.9	3.5	37	.99	2.8	
6		Duplicate 4 ml	296	9.4	5.8	3.6	38	.99	2.9	
		ml								
		ml								
		RAW								% removal:
Date 19		pH								
7		Reseed w/ 6 ml	294	9.2	6.2	3.0	33	.98	1.3	
8		4 ml	296	9.2	6.8	2.4	26	.99	1.2	1.6
9		4 ml	296	9.3	6.7	2.6	28	.99	1.9	
		ml								
		RAW								% removal:
Date 20		pH								
10		Reseed w/ 6 ml	294	8.6	6.6	2.0	23	.98	0.86	
11		4 ml	296	8.6	6.8	1.8	21	.99	1.0	0.95
12		4 ml	296	8.6	6.8	1.8	21	.99	1.0	
		ml								
		RAW								% removal:
		6-6A 4-Seed								
13		GGA reseed: 4 ml	3	8.3	3.7			.01		
14		Duplicate	3	8.4	3.6			.01		
15		Dil. H2O	300	8.4	8-			100		

B.O.D. LABORATORY DETERMINATIONS

SOURCE OF SAMPLES WP 001-A TEMP 20C. LAB TECH Kevin Funderburk
COLLECTION DATE 25 & 22 May 2023 5 DAY INCUBATION PERIOD 27 May 23 TO 1 June 23
TIME TESTING BEGAN 1ST DAY _____ TIME TESTING ENDED 1ST DAY 1040
TIME TESTING BEGAN 5TH DAY _____ TIME TESTING ENDED 5TH DAY _____
PROCEDURE 5210B FROM STANDARD METHOD 19TH EDITION PAGE 5-2
METHOD USED: WINKLER TITRATION (CALIBRATION FOR ELECTRODE METHOD)

Duplicates are performed on each analysis and pH of samples are between 6.5 and 7.5, if not adjust w/ N-OH or Sulf.acid

Depletion=Initial D.O. – Final D.O. %Depletion=Depletion / Initial D.O. %Sample=ml of sample/300or depl/mgl BOD
MLS of Sample=%sample x 300 MG/L BOD= depl. / %sample (without seed) or depl. – SCF / %sample
Seed control factor=depl.(EC) x mls reseed / mls of sample (SC) Range>.6 & <1.0 with depl of 43% & 70%
Final DO must be > 1.0 Depletion must be > 2.0 Samples that Blank out: Use Range sheet at 100%

Bottles #1	Bottles #2	Sample Description	MLS Sample	Initial D.O.	Final D.O.	Depl <.2	% Depl.	% Sample	MG/L BOD	Remarks
1		Dill. H2O	300	8.3	8.0			100		
2		Seed Control	20	8.2	4.1	4.1	50	.07	61.5	6 (1.3)
3		"	25	8.3	2.7	5.6	67	.08	67.2	4 (0.90)
		"	30					.10		
Date 25		pH								
4		Reseed w/ 6 ml	294	9.3	4.9	4.4	47	.98	3.2	(3.2)
5		4 ml	296	9.3	5.4	3.9	42	.99	3.1	
6		Duplicate 4 ml	296	9.4	5.2	4.2	45	.99	3.4	
		ml								
		ml								
		RAW								% removal:
Date 26		pH								
7		Reseed w/ 6 ml	294	9.4	6.4	3.0	32	.98	1.8	(1.5)
8		4 ml	296	9.5	7.2	2.3	24	.99	1.4	
9		4 ml	296	9.5	7.2	2.3	24	.99	1.4	
		ml								
		RAW								% removal:
Date 27		pH								
10		Reseed w/ 6 ml	294	8.7	6.0	2.6	30	.98	1.4	(1.4)
11		4 ml	296	8.7	6.6	2.1	24	.99	1.3	
12		4 ml	296	8.7	6.3	2.4	28	.99	1.5	
		ml								
		RAW								% removal:
		6=66A 4 Seed								
13		GGA reseed: 4 ml		8.3	4.1			.01		
14		Duplicate		8.3	3.5			.01		
15		Dill. H20	300	8.3	7.9			100		

Log		Average	Geo Mean
	0.48		
	0.00		
	0.48	0.32	2.0800838230519
	1.00		
	0.48		
	0.70	0.73	5.3132928459131
	0.30		
	0.30		
	0.30	0.30	2.0000000000000
	1.79		
	0.70		
	0.60	1.03	3.08000000000000
#NUM!		#NUM!	#NUM!
#NUM!			
#NUM!			
	0.59		
3.92026385924890			

npw July 2023

Jul-23

TSS (three/week)

Day	Concentration (mg/l)	7-Day Average (mg/l)	Flow (MGD)	Loading (lbs/day)
4	2.30		0.688	13.20
5	4.00		0.921	30.72
6	4.50	3.60	0.831	31.19
12	1.50		1.150	14.39
13	3.50		0.767	22.39
14	4.30	3.10	0.586	21.02
17	2.00		0.912	15.21
18	2.00		0.753	12.56
19	2.00	2.00	1.650	27.52
27	6.80		1.900	107.75
28	6.30		1.350	70.93
29	4.80	5.97	0.382	15.29
29	0.00		0.000	0.00
30	0.00		0.000	0.00
31	0.00	0.00	0.000	0.00
Monthly Average	3.67			
	9.56			
				382.17
				31.847541

Jul-23

FCB (three/week)

Day	Count
3	3
4	1
5	3
12	10
13	3
14	5
17	2
18	2
19	2
23	61
24	5
29	4
28	0
29	0
30	0
Average	
Geo Mean	

July2023 Flow

Day	Flow MGD	Day		Day		Day		Day	
1	0.79	8	0.862	15	0.902	22	1.91	29	0.382
2	0.678	9	0.892	16	0.899	23	1.79	30	0.452
3	0.837	10	0.385	17	0.912	24	1.96	31	1.01
4	0.688	11	0.785	18	0.753	25	1.86		
5	0.921	12	1.15	19	1.65	26	1.94		
6	0.831	13	0.767	20	1.99	27	1.9		
7	1.08	14	0.586	21	1.92	28	1.35		
Total	5.825		5.427		9.026		12.71		1.844
7 DAY AVG.	0.8321429		0.7752857		9.026		1.8157		
Month Total	34.832								
Monthly Avage	1.1236129								

Amonia

Day	Results	Day	Results	Day	Results	Day	Results
4	0.244	12	0.001	17	0.001	27	0.014
5	0.251	13	0.001	18	0.001	28	0.126
6	0.188	14	0.001	19	0.001	29	0.459
Total	0.683		0.003		0.003		0.599
7 Day Avg.	0.2276667		0.001		0.001		0.1997
Monthly Total	0.4293333						
Monthly AVG	0.1073333						
lbs/Day							

4	0.244	0.688	8.34	1.4	17	0.001	0.912	8.34	0.0076
5	0.251	0.921	8.34	1.928	18	0.001	0.753	8.34	0.0063
6	0.188	0.831	8.34	1.303	19	0.001	1.65	8.34	0.0138
12	0.001	1.15	8.34	0.0096	27	0.014	1.9	8.34	0.2218
13	0.001	0.767	8.34	0.0064	28	0.126	1.35	8.34	1.4186
14	0.001	0.586	8.34	0.0049	29	0.459	0.382	8.34	1.4623
				4.6518					3.130444

DO

Day	Results	Day	Results	Day	Results	Day	Results
3	6.81	11	7.41	17	7.5	23	7.19
4	6.94	12	7.3	18	7.11	24	7.07
5	6.95	13	7.16	19	7.2	29	7.01
Maxium	7.5						
Minium	6.81						

7.7823	
0.6485	

PH

Day	Result	Day		Day		Day	Results
3	7.81	11	7.58	17	7.66	23	7.74
4	7.61	12	7.91	18	7.75	24	7.85
5	7.86	13	7.68	19	7.74	29	8.01
Maxium	7.91						
Minium	7.58						

BOD

Day	Results	Day	Results	Day	Results	Day	Results
4	2.5	12	1.5	19	1.8	26	2.1
5	2.4	13	1.2	20	1.7	27	2.1
6	1.6	14	0.81	21	1.8	28	1.9
Total	6.5		3.51		5.3		6.1
7 Day Avg.	2.1666667		1.17		1.7667		2.0333
Monthly Total	7.1366667						
Monthly AVG	1.7841667						
lbs/Day							

4	2.5	0.688	8.34	14.34	17	2.8	0.912	8.34	21.297
5	2.4	0.921	8.34	18.43	18	1.5	0.753	8.34	9.42
6	1.6	0.831	8.34	11.09	19	1.6	1.65	8.34	22.018
12	1.9	1.15	8.34	18.223	27	6	1.9	8.34	95.076
13	1.1	0.767	8.34	7.0365	28	2.3	1.35	8.34	25.896
14	0.93	0.586	8.34	4.5451	29	2.5	0.382	8.34	7.9647
				73.67289					181.6711

255.3439

21.27866

B.O.D. LABORATORY DETERMINATIONS

SOURCE OF SAMPLES WP 001-A TEMP 20C. LAB TECH Kevin Fundenburk
COLLECTION DATE 4-5-6 July 23 5 DAY INCUBATION PERIOD 6 July 23 TO 11 July 23
TIME TESTING BEGAN 1ST DAY _____ TIME TESTING ENDED 1ST DAY 1435
TIME TESTING BEGAN 5TH DAY _____ TIME TESTING ENDED 5TH DAY 1410
PROCEDURE 5210B FROM STANDARD METHOD 19TH EDITION PAGE 5-2
METHOD USED: WINKLER TITRATION (CALIBRATION FOR ELECTRODE METHOD)

Duplicates are performed on each analysis and pH of samples are between 6.5 and 7.5, if not adjust w/ N-OH or Sulf.acid

Depletion=Initial D.O. – Final D.O. %Depletion=Depletion / Initial D.O. %Sample=ml of sample/300or depl/mgl BOD
MLS of Sample=%sample x 300 MG/L BOD= depl. / %sample (without seed) or depl. – SCF / %sample
Seed control factor=depl.(SC) x mls reseed / mls of sample (SC) Range>.6 & <3.0 with depl of 43% & 70%
Final DO must be > 1.0 Depletion must be > 2.0 Samples that Blank out: Use Range sheet at 100%

Bottles #1	Bottles #2	Sample Description	MLS Sample	Initial D.O.	Final D.O.	Depl < .2	% Depl.	% Sample	MG/L BOD	Remarks
1		Dill. H2O	300	8.8	8.3			100		
2		Seed Control	20	8.7	4.9	3.8	43	.07	57.0	61.2
3		"	25	8.7	3.7	5.0	57	.08	60.0	40.8
		"	30					.10		
Date 4		pH								
4		Reseed w/ 6 ml	294	9.7	6.1	3.6	37	.98	2.5	
5		4 ml	296	9.8	6.6	3.2	33	.99	2.4	2.5
6		Duplicate 4 ml	296	9.8	6.5	3.3	34	.99	2.5	
		ml								
		ml								
		RAW								% removal:
Date 5		pH								
7		Reseed w/ ml	294	9.3	6.2	3.1	33	.98	2.0	
8		ml	296	9.5	6.6	2.9	30	.99	2.1	2.4
9		ml	296	9.5	5.8	3.7	39	.99	3.0	
		ml								
		RAW								% removal:
Date 6		pH								
10		Reseed w/ ml	294	8.7	6.0	2.7	31	.98	1.5	
11		ml	296	8.7	6.4	2.3	26	.99	1.5	1.6
12		ml	296	8.8	6.2	2.6	30	.99	1.8	
		ml								
		RAW								% removal:
		6 GGA								
13		GGA reseed: 4 ml	4	8.8	4.0			.01		
14		Duplicate	4	8.8	4.0			.01		
15		Dill. H20	300	8.8	8.1			100		

B.O.D. LABORATORY DETERMINATIONS

SOURCE OF SAMPLES WP 001-A TEMP 20C. LAB TECH Korin Sundaker
COLLECTION DATE 12-13-14 July 2023 5 DAY INCUBATION PERIOD 14 July 23 TO 19 July 23
TIME TESTING BEGAN 1ST DAY _____ TIME TESTING ENDED 1ST DAY 1412
TIME TESTING BEGAN 5TH DAY _____ TIME TESTING ENDED 5TH DAY 1308
PROCEDURE 5210B FROM STANDARD METHOD 19TH EDITION PAGE 5-2
METHOD USED: WINKLER TITRATION (CALIBRATION FOR ELECTRODE METHOD)

Duplicates are performed on each analysis and pH of samples are between 6.5 and 7.5, if not adjust w/ N-OH or Sulf.acid

Depletion=Initial D.O. – Final D.O. %Depletion=Depletion / Initial D.O. %Sample=ml of sample/300or depl/mgl BOD
MLS of Sample=%sample x 300 MG/L BOD= depl. / %sample (without seed) or depl. – SCF / %sample
Seed control factor=depl.(SC) x mls reseed / mls of sample (SC) Range>.6 & <3.0 with depl of 43% & 70%
Final DO must be > 1.0 Depletion must be > 2.0 Samples that Blank out: Use Range sheet at 100%

Bottles #1	Bottles #2	Sample Description	MLS Sample	Initial D.O.	Final D.O.	Depl < .2	% Depl.	% Sample	MG/L BOD	Remarks
1		Dill. H2O	300	8.6	8.5			100		
2		Seed Control	20	8.5	5.6	2.9	34	.07	43.5	6 0.94
3		"	25	8.5	4.6	3.9	45	.08	46.8	4 0.62
		"	30					.10		
Date 12		pH								
4		Reseed w/ 6 ml	294	9.8	6.9	2.9	30	.98	2.0	(1.9)
5		4 ml	296	10.0	7.6	2.4	24	.99	1.8	
6		Duplicate 4 ml	296	10.0	7.5	2.5	25	.99	1.9	
		ml								
		ml								% removal:
		RAW								
Date 13		pH							0.90	
7		Reseed w/ ml	294	9.2	7.0	1.8	19	.98	1.8	(1.1)
8		ml	296	9.2	7.5	1.7	18	.99	1.6	
9		ml	296	9.2	7.4	1.8	20	.99	1.2	
		ml								% removal:
		RAW								
Date 14		pH								
10		Reseed w/ ml	294	8.5	6.6	1.9	22	.98	1.0	(0.93)
11		ml	296	8.5	7.0	1.5	18	.99	0.90	
12		ml	296	8.5	7.0	1.5	18	.99	0.90	
		ml								% removal:
		RAW								
		6 GGA 4 Seed								
13		GGA reseed: 4 ml	3	8.5	4.1			.01		
14		Duplicate	3	8.5	4.6			.01		
15		Dill. H20	300	8.6	8.4			100		

B.O.D. LABORATORY DETERMINATIONS

SOURCE OF SAMPLES WP 001-A TEMP 20C. LAB TECH Kevin Funderburk
COLLECTION DATE 17-18-19 July 23 5 DAY INCUBATION PERIOD 19 July 23 TO 24 July 23
TIME TESTING BEGAN 1ST DAY _____ TIME TESTING ENDED 1ST DAY 1635
TIME TESTING BEGAN 5TH DAY _____ TIME TESTING ENDED 5TH DAY _____
PROCEDURE 5210B FROM STANDARD METHOD 19TH EDITION PAGE 5-2
METHOD USED: WINKLER TITRATION (CALIBRATION FOR ELECTRODE METHOD)

Duplicates are performed on each analysis and pH of samples are between 6.5 and 7.5, if not adjust w/ N-OH or Sulf.acid

Depletion=Initial D.O. – Final D.O. %Depletion=Depletion / Initial D.O. %Sample=ml of sample/300or depl/mgl BOD
MLS of Sample=%sample x 300 MG/L BOD= depl. / %sample (without seed) or depl. – SCF / %sample
Seed control factor=depl.(SC) x mls reseed / mls of sample (SC) Range>.6 & <3.0 with depl of 43% & 70%
Final DO must be > 1.0 Depletion must be > 2.0 Samples that Blank out: Use Range sheet at 100%

Bottles #1	Bottles #2	Sample Description	MLS Sample	Initial D.O.	Final D.O.	Depl < .2	% Depl.	% Sample	MG/L BOD	Remarks
1		Dill. H2O	300	8.7	8.4			100		
2			15	8.6	5.9					
3		Seed Control	20	8.6	4.9	3.7	43	.07	555	6096
4		"	25	8.6	4.6	4.0	47	.08	48	4064
5		"	30	8.6	4.4			.10		
Date	17	pH								
6		Reseed w/ 6 ml	294	9.4	5.8	3.6	38	.98	2.7	
7		4 ml	296	9.4	6.0	3.4	36	.99	2.8	2.8
8		Duplicate 4 ml	296	9.5	6.1	3.4	36	.99	2.8	
		ml								
		ml								
		RAW								% removal:
Date	18	pH								
9		Reseed w/ 6 ml	294	9.8	7.5	2.3	23	.98	1.4	
10		4 ml	296	9.9	7.6	2.3	23	.99	1.6	1.5
11		4 ml	296	9.9	7.7	2.2	22	.99	1.6	
		ml								
		RAW								% removal:
Date	19	pH								
12 10		Reseed w/ 6 ml	294	9.2	6.7	2.5	27	.98	1.6	
13 11		4 ml	296	9.1	6.9	2.2	24	.99	1.6	1.6
14 12		4 ml	296	9.1	6.8	2.3	25	.99	1.7	
		ml								
15		*RAW*								% removal:
		6 GGA	4 Seed							
15		GGA reseed: 6 ml	3	8.7	4.5			.01		
16		Duplicate	3	8.7	4.5			.01		
17		Dill. H2O	300	8.7	8.3			100		

B.O.D. LABORATORY DETERMINATIONS

SOURCE OF SAMPLES WP 001-A TEMP 20C. LAB TECH Kevin Funderburgh
COLLECTION DATE 27,28,29 July 2023 5 DAY INCUBATION PERIOD 25 July 23 TO 3 Aug 23
TIME TESTING BEGAN 1ST DAY TIME TESTING ENDED 1ST DAY 1226
TIME TESTING BEGAN 5TH DAY TIME TESTING ENDED 5TH DAY 1040
PROCEDURE 5210B FROM STANDARD METHOD 19TH EDITION PAGE 5-2
METHOD USED: WINKLER TITRATION (CALIBRATION FOR ELECTRODE METHOD)

Duplicates are performed on each analysis and pH of samples are between 6.5 and 7.5, if not adjust w/ N-OH or Sulf.acid
Depletion=Initial D.O. – Final D.O. %Depletion=Depletion / Initial D.O. %Sample=ml of sample/300or depl/mgl BOD
MLS of Sample=%sample x 300 MG/L BOD= depl. / %sample (without seed) or depl. – SCF / %sample
Seed control factor=depl.(SC) x mls reseed / mls of sample (SC) Range>.6 & <1.0 with depl of 43% & 70%
Final DO must be > 1.0 Depletion must be > 2.0 Samples that Blank out: Use Range sheet at 100%

Bottles #1	Bottles #2	Sample Description	MLS Sample	Initial D.O.	Final D.O.	Depl < .2	% Depl.	% Sample	MG/L BOD	Remarks
1		Dill. H2O	300	8.6	8.4			100		
2		Seed Control	20	8.5	5.0	3.5	41	.07		61.0
3		"	25	8.5	4.3	4.2	49	.08		4 0.6
		"	30					.10		
Date 27		pH								
4		Reseed w/ 6 ml	294	7.4	0.63	6.8	091	.98	5.9	
5		4 ml	296	7.5	1.1	6.4	85	.99	5.8	6.0
6		Duplicate 4 ml	296	7.4	0.64	6.8	91	.99	6.2	
		ml								
		ml								
		RAW								% removal:
Date 28		pH								
7		Reseed w/ ml	294	9.2	5.8	3.4	37	.98	2.5	
8		ml	296	9.3	6.4	2.9	31	.99	2.3	2.3
9		ml	296	9.3	6.6	2.7	29	.99	2.7	
		ml								
		RAW								% removal:
Date 29		pH								
10		Reseed w/ ml	294	8.8	5.4	3.4	39	.98	2.5	
11		ml	296	8.9	5.8	3.1	35	.99	2.5	2.5
12		ml	296	8.9	5.7	3.2	36	.99	2.6	
		ml								
		RAW								% removal:
		6 GGA								
13		GGA reseed: 6 ml	4	8.6	4.1			.01		
14		Duplicate	4	8.6	4.2			.01		
15		Dill. H2O	300	8.6	8.1			100		

WWT DAILY TESTSHEET

Monday

DATE: 3 July 23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT	80.2	7.01	3.17	115	16.11
FRONT OF POND #1	89.8	7.37	6.01	80	1.74
#1 WIER	89.2	7.14	4.48	70	0.38
FRONT OF POND #2					
#2 WIER					
EFFLUENT	84.9	7.81	6.81	80	0.06
TIME: 1306	DAILY FLOW:				

Pond 1: X X
Pond 2: X X

TESTED BY: Kori Sundstrom
Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Tuesday

DATE: 4 July 23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT					
EFFLUENT Duplicate	83.4	7.61	6.94	75	0.05
TIME: 940	DAILY FLOW:				

Pond 1: X X
Pond 2: X X

TESTED BY: Kori Sundstrom
Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Wednesday

DATE: 5 July 23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT	86.0	7.86	6.95	80	0.06
TIME: 1313	DAILY FLOW:				

Pond 1: X X
Pond 2: X X

TESTED BY: Kori Sundstrom
Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Thursday

Sample 1310

DATE:	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT					
TIME:	DAILY FLOW:				

Pond 1: X X
Pond 2: X X

TESTED BY:
Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Friday

DATE:	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT					
TIME:	DAILY FLOW:				

Pond 1: X X
Pond 2: X X

TESTED BY:
Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

WWT DAILY TESTSHEET

Monday

DATE:	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT					
TIME:	DAILY FLOW:				

Pond 1	Pond 2
X	X
X	X

TESTED BY:

Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Tuesday

STP 1300

DATE: 11July23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT	76.2	6.76	1.11	120	20.07
FRONT OF POND #1	79.8	7.44	2.68	80	2.43
#1 WIER	79.3	7.17	5.77	75	1.39
FRONT OF POND #2					
#2 WIER					
EFFLUENT	79.7	7.58	7.41	80	0.42
EFFLUENT Duplicate					
TIME: 1324	DAILY FLOW:				

Pond 1	Pond 2
X	X
X	X

TESTED BY: Kerri Sandoval

Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Wednesday

DATE: 12July23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER				65	
FRONT OF POND #2					
#2 WIER					
EFFLUENT 0900	79.5	7.91	7.36	75	0.04
TIME:	DAILY FLOW:				

Pond 1	Pond 2
X	X
X	X

TESTED BY: Kerri Sandoval

Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Thursday

DATE: 13July23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT	78.7	6.74	0.89	90	15.39
FRONT OF POND #1	84.7	7.42	6.62	90	2.07
#1 WIER	83.6	7.24	6.10	65	0.63
FRONT OF POND #2					
#2 WIER					
EFFLUENT	83.1	7.68	7.16	75	0.06
TIME: 1059	DAILY FLOW:				

Pond 1	Pond 2
X	X
X	X

TESTED BY: Kerri Sandoval

Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Friday

DATE: 14July23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT	82.4	7.72	7.08	75	0.03
TIME: 1005	DAILY FLOW:				

Pond 1	Pond 2
X	X
X	X

TESTED BY:

Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

WWT DAILY TESTSHEET

Monday

DATE: 15 July 23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT	82.0	7.04	0.83	225	21.42
FRONT OF POND #1	82.0	7.20	5.02	75	2.11
#1 WIER	85.4	7.16	6.54	80	0.45
FRONT OF POND #2					
#2 WIER					
EFFLUENT	84.2	7.66	7.50	70	0.04
TIME: 1351	DAILY FLOW:				

Pond 1: X X X
Pond 2: X X
TESTED BY: Kevin Sunderlan
Rain:
GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Tuesday

DATE: 18 July 23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT	77.4	7.09	3.12	115	16.15
FRONT OF POND #1	82.2	7.35	4.93	80	NA
#1 WIER	85.6	7.19	5.94	85	0.26
FRONT OF POND #2					
#2 WIER					
EFFLUENT	84.7	7.75	7.11	75	0.06
EFFLUENT Duplicate					
TIME: 1249	DAILY FLOW:				

Pond 1: X X X
Pond 2: X X
TESTED BY: Kevin Sunderlan
Rain:
GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Wednesday

DATE: 19 July 23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT	85.9	7.24	7.20	75	0.04
TIME: 1450	DAILY FLOW:				

Pond 1: X X X
Pond 2: X X
TESTED BY: Kevin Sunderlan
Rain:
GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Sample Sight 1440

Thursday

DATE:	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT					
TIME:	DAILY FLOW:				

Pond 1: X / X
Pond 2: X X
TESTED BY:
Rain:
GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Friday

DATE:	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT					
TIME:	DAILY FLOW:				

Pond 1: X X X
Pond 2: X X
TESTED BY:
Rain:
GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

WWT DAILY TESTSHEET

Monday

DATE: 23 July 23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT	85.6	7.74	7.19	65	007
TIME: 1507	DAILY FLOW:				

Pond 1: X X X
Pond 2: X X X

TESTED BY: Kerri Fredrickson
Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Tuesday

DATE: 24 July 23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT	85.1	7.85	7.07	90	0.06
EFFLUENT Duplicate					
TIME: 1400	DAILY FLOW:				

Pond 1: X X X
Pond 2: X X X

TESTED BY: Kerri Fredrickson
Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Wednesday

DATE: 25 July 23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT	85.7	8.01	7.01	70	0.08
TIME: 0956	DAILY FLOW:				

Pond 1: X X X
Pond 2: X X X

TESTED BY: Kerri Fredrickson
Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

(54)

Thursday

DATE:	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT					
TIME:	DAILY FLOW:				

Pond 1: X X X
Pond 2: X X X

TESTED BY:
Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Friday

DATE:	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT					
TIME:	DAILY FLOW:				

Pond 1: X X X
Pond 2: X X X

TESTED BY:
Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

TSS EPA METHOD 160.2

RESIDUE NONFILTERABLE

BENCH SHEET

PLANT EFTNA001

MONTH July 2023

In 1256
OUT 1445

TSS= INITIAL WT W/SAMPLE – CONSTANT FILTER WT/SAMPLE SIZE X 1,000,000

FINAL TSS = FINAL WT W/SAMPLE – CONSTANT FILTER WT/SAMPLE SIZE X 1,000,000

SAMPLE DATE	PAD #	SAMPLE SIZE	INITIAL WT	CONSTANT WT <.5	CONSTANT WT <.5	INITIAL W/SAMPLE	FINAL W/ SAMPLE	TSS	FINAL TSS	TIME/ INITIAL
45	1	200	0.1000			0.1000	0.1008		4.0	1445
	1	200	0.1000			0.1000	~~0.1005~~		~~0.5~~	KF
							0.1001		2.3	
							0.0999			
56	3	200	0.0994				~~0.10~~		2.5	1445
	9	200	0.0991				0.1002		~~0.5~~	KF
									4.0	
6	7	200	0.0986				0.1000		7.0	1445
	14	200	0.0994				0.0998		~~2.0~~	KF
									4.5	

TSS EPA METHOD 160.2

RESIDUE NONFILTERABLE

BENCH SHEET

PLANT Waterplant

MONTH July 2023

Sample Time 0820

PH 7.35

TSS= INITIAL WT W/SAMPLE – CONSTANT FILTER WT/SAMPLE SIZE X 1,000,000

FINAL TSS = FINAL WT W/SAMPLE – CONSTANT FILTER WT/SAMPLE SIZE X 1,000,000

SAMPLE DATE	PAD #	SAMPLE SIZE	INITIAL WT	CONSTANT WT <.5	CONSTANT WT <.5	INITIAL W/SAMPLE	FINAL W/ SAMPLE	TSS	FINAL TSS	TIME/ INITIAL
6	17	200	0.0996				0.1006		5.5	1445 KF
	17	200	0.0997				0.1008		~~5.5~~ 5.5	

TSS EPA METHOD 160.2 **BENCH SHEET** PLANT BEFNAM

RESIDUE NONFILTERABLE MONTH July 2023

On Time 1200

TSS= INITIAL WT W/SAMPLE – CONSTANT FILTER WT/SAMPLE SIZE X 1,000,000

FINAL TSS = FINAL WT W/SAMPLE – CONSTANT FILTER WT/SAMPLE SIZE X 1,000,000

SAMPLE DATE	PAD #	SAMPLE SIZE	INITIAL WT	CONSTANT WT <.5	CONSTANT WT <.5	INITIAL W/SAMPLE	FINAL W/ SAMPLE	TSS	FINAL TSS	TIME/ INITIAL
12	1	200	0.0969				0.0971		1.0	1416
	1	200	0.0972				0.0976		~~2.0~~ (1.5)	KF
13	3	200	0.1003				0.1009		3.0	1416
	9	200	0.0975				0.0983		~~4.0~~ (3.5)	KF
14	7	200	0.1002				0.1006		2.0	
	14	200	~~0.1007~~							
			~~0.1092~~							
			~~0.1001~~							1416
			0.0999				0.1002		~~6.5~~ (4.3)	KF

TSS EPA METHOD 160.2

RESIDUE NONFILTERABLE

BENCH SHEET

PLANT EFFNA001

MONTH July 2023

ontime 0740

TSS= INITIAL WT W/SAMPLE – CONSTANT FILTER WT/SAMPLE SIZE X 1,000,000

FINAL TSS = FINAL WT W/SAMPLE – CONSTANT FILTER WT/SAMPLE SIZE X 1,000,000

SAMPLE DATE	PAD #	SAMPLE SIZE	INITIAL WT	CONSTANT WT <.5	CONSTANT WT <.5	INITIAL W/SAMPLE	FINAL W/ SAMPLE	TSS	FINAL TSS	TIME/ INITIAL
17	1	200	0.0961				0.0968		3.5	0740
	1	200	0.0978				0.0977		0.5	KF
									2.0	
18	3	200	0.0959				0.0966		3.5	0740
	9	200	0.0972				0.0973		0.5	KF
									2.0	
19	7	200	0.0972				0.0976		2.0	0740
	14	200	0.0972				0.0972		0.0	KF
									2.0	
QA	17	200	0.0968				0.1048		40	0740
	17	200	0.0975				0.1058		41.5	KF
									40.8	

TSS EPA METHOD 160.2

RESIDUE NONFILTERABLE

BENCH SHEET

PLANT EFF/Aer

MONTH July 2023

Kevin Sundeke

on 1025

out 1227

TSS= INITIAL WT W/SAMPLE – CONSTANT FILTER WT/SAMPLE SIZE X 1,000,000

FINAL TSS = FINAL WT W/SAMPLE – CONSTANT FILTER WT/SAMPLE SIZE X 1,000,000

SAMPLE DATE	PAD #	SAMPLE SIZE	INITIAL WT	CONSTANT WT <.5	CONSTANT WT <.5	INITIAL W/SAMPLE	FINAL W/ SAMPLE	TSS	FINAL TSS	TIME/ INITIAL
27	1	200	0.0961				0.0973		6.0	1227
	1	200	0.0962				0.0977		7.5	KF
									6.8	
28	3	200	0.0965				0.0974		4.5	1227
	9	200	0.0987				0.1003		8.0	KF
									6.3	
29	7	200	0.0968				0.0979		5.5	1227
	14	200	0.0998				0.1006		4.0	KF
									4.8	

FECAL / THERMOTOLERANT COLIFORM BENCH SHEET

SAMPLE DAY: 23 July 2023		SAMPLE TIME: 1500	
DATE ON: 23 July 23	TEMP: 44.5	DATE OFF: 24 July 23	TEMP: 44.5
TIME ON: 1520	TECH: KF	TIME OFF: 1414	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
QA 48	104	81	109	
	104	43	36	61

SAMPLE DAY: 24 July 23		SAMPLE TIME: 1350	
DATE ON: ~~1400~~ ~~24 July 23~~	TEMP: 44.5	DATE OFF: 25 July 23	TEMP: 44.5
TIME ON: 1400 ~~1200~~	TECH: KF	TIME OFF: 1255	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	3	11	14	
	3	6	5	5

SAMPLE DAY: 29 July 2023		SAMPLE TIME: 0947	
DATE ON: 29 July 23	TEMP: 44.5	DATE OFF: 30 July 23	TEMP: 44.5
TIME ON: 1000	TECH: KF	TIME OFF: 0935	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	2	12	11	
	2	6	4	4

FECAL / THERMOTOLERANT COLIFORM BENCH SHEET

SAMPLE DAY: 3July2023		SAMPLE TIME: 1240	
DATE ON: 3July23	TEMP: 44.5	DATE OFF: 4July23	TEMP: 44.5
TIME ON: 1319	TECH: KF	TIME OFF: 0953	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	5	5	6	
	5	3	2	3

SAMPLE DAY: 4July 2023		SAMPLE TIME: 0930	
DATE ON: 4July23	TEMP: 44.5	DATE OFF: 5July23	TEMP: 44.5
TIME ON: 0953	TECH: KF	TIME OFF: 1000	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	1	0	5	
	1	0	2	1

SAMPLE DAY: 5July 2023		SAMPLE TIME: 1310	
DATE ON: 5July23	TEMP: 44.5	DATE OFF: 6July23	TEMP: 44.5
TIME ON: 1330	TECH: KF	TIME OFF: 1430	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	2	3	12	
	2	2	4	3

FECAL / THERMOTOLERANT COLIFORM BENCH SHEET

SAMPLE DAY: 12 July 2023		SAMPLE TIME: 0850	
DATE ON: 12 July 2023	TEMP: 44.5	DATE OFF: 13 July 2023	TEMP: 44.5
TIME ON: 0910	TECH: KF	TIME OFF: 1005	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	9	15	37	
	9	8	12	10

SAMPLE DAY: 13 July 2023		SAMPLE TIME: 1030	
DATE ON: 13 July 2023	TEMP: 44.5	DATE OFF: 14 July 23	TEMP: 44.5
TIME ON: 1115	TECH: KF	TIME OFF: 1020	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	3	5	10	
	3	3	3	3

SAMPLE DAY: 14 July 23		SAMPLE TIME: 0950	
DATE ON: 14 July 23	TEMP: 44.5	DATE OFF: 15 July 23	TEMP: 44.5
TIME ON: 1021	TECH: KF	TIME OFF: 0932	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	6	10	12	
	6	5	4	5

FECAL / THERMOTOLERANT COLIFORM BENCH SHEET

SAMPLE DAY: 17 July 2023		SAMPLE TIME: 1315	
DATE ON: 17July23	TEMP: 44.5	DATE OFF: 18July23	TEMP: 44.5
TIME ON: 1415	TECH: KF	TIME OFF: 1308	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	2	7	4	
	2	4	1	2

SAMPLE DAY: 18 July 2023		SAMPLE TIME: 1215	
DATE ON: 18July23	TEMP: 44.5	DATE OFF: 19July23	TEMP: 44.5
TIME ON: 1308	TECH: KF	TIME OFF: 1415	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	1	4	13	
	1	2	4	2

SAMPLE DAY: 19 July 2023		SAMPLE TIME: 1440	
DATE ON: 19July23	TEMP: 44.5	DATE OFF: 20July23	TEMP: 44.5
TIME ON: 1300	TECH: KF	TIME OFF: 1300	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	1	2	10	
	1	1	3	2

Lab Calibration Sheet:

Date: 17 July 2023

Time: 1252

PH

Slope: -57.00

Offset: -32.0mV

Voltage: 132.2

Temperature: 71.6

4.00 4.00 -4.05

7.00 7.01 -7.02

10.00 10.04 -10.07

DO

Slope: 100.5

Offset: 0.00

Temperature: 73.0

mmHg: 751 mmHg

Lab Calibration Sheet:

Date: 11 July 2023

Time: 1231

PH

Slope: -57.20 97%

Offset: -30.7mV

Voltage: 135.1mV

Temperature: 69.6

4.00 4.00 -4.03

7.00 7.01 -7.03

10.00 10.04 -10.03

DO

Slope: 86.4%

Offset: 0.00

Temperature: 69.8°F 8.40 - 8.38

mmHg: 750

Lab Calibration Sheet:

Date: 6 July 2023

Time: 0949

PH

Slope: -57.09 mV/pH (96%)

Offset: -30.6mV

Voltage: 139.2mV

Temperature: 73.1°C

4.00 4.00 - 4.04

7.00 7.01 - 7.03

10.00 10.04 - 10.03

DO

Slope: 88.28

Offset: 0.00mg/L

Temperature: 72.3°F 8:40-8:37

mmHg: 752mmHg

Kevin Sunderlark

TSS EPA METHOD 160.2 **BENCH SHEET** PLANT Waterpoint

RESIDUE NONFILTERABLE MONTH June 2023

Sample Time 1100 PH 7.22
On Time 1208 Off Time 1408

TSS= INITIAL WT W/SAMPLE – CONSTANT FILTER WT/SAMPLE SIZE X 1,000,000

FINAL TSS = FINAL WT W/SAMPLE – CONSTANT FILTER WT/SAMPLE SIZE X 1,000,000

SAMPLE DATE	PAD #	SAMPLE SIZE	INITIAL WT	CONSTANT WT <.5	CONSTANT WT <.5	INITIAL W/SAMPLE	FINAL W/ SAMPLE	TSS	FINAL TSS	TIME/ INITIAL
9	17	200	0.0988				0.1000		5.5	1408
	17	200	0.0990				0.1004		~~7.0~~	KF
									6.3	
									6.3	

TSS EPA METHOD 160.2

RESIDUE NONFILTERABLE

On 1237
Out 1436

BENCH SHEET

PLANT EFF NA001

MONTH June 2023
28, 29, 30, 2023

TSS= INITIAL WT W/SAMPLE – CONSTANT FILTER WT/SAMPLE SIZE X 1,000,000

FINAL TSS = FINAL WT W/SAMPLE – CONSTANT FILTER WT/SAMPLE SIZE X 1,000,000

SAMPLE DATE	PAD #	SAMPLE SIZE	INITIAL WT	CONSTANT WT <.5	CONSTANT WT <.5	INITIAL W/SAMPLE	FINAL W/ SAMPLE	TSS	FINAL TSS	TIME/ INITIAL
28	1	200	0.0996				0.1004		4.5	1436
	1	200	0.0993				0.1001		4.0	KF
									4.3	
29	3	200	0.0988				0.1007		9.5	
	9	200	0.0991				0.0999		4.0	1436
									6.8	KF
30	7	200	0.1001				0.1013		6.0	
	14	200	0.0985				0.0993		4.0	1436
									5.0	KF

TSS EPA METHOD 160.2

RESIDUE NONFILTERABLE

BENCH SHEET

PLANT EFRNAQU

MONTH June 2023

On Time 1020

TSS= INITIAL WT W/SAMPLE – CONSTANT FILTER WT/SAMPLE SIZE X 1,000,000

FINAL TSS = FINAL WT W/SAMPLE – CONSTANT FILTER WT/SAMPLE SIZE X 1,000,000

SAMPLE DATE	PAD #	SAMPLE SIZE	INITIAL WT	CONSTANT WT <.5	CONSTANT WT <.5	INITIAL W/SAMPLE	FINAL W/ SAMPLE	TSS	FINAL TSS	TIME/ INITIAL
1	1	200	0.0986				0.0995		4.5	1200 KF
	1	200	0.0985				0.0997		6.6	
									5.3	
2	3	200	0.0987				0.1000		6.5	1200 KF
	9	200	0.0978				0.0995		8.5	
									7.5	
3	7	200	0.0983				0.0987		2.0	1200 KF
	14	200	0.0983				0.0998		2.0	
							0.0987		2.0	

TSS EPA METHOD 160.2

RESIDUE NONFILTERABLE

BENCH SHEET

PLANT EFFNAOCI

MONTH June 2023

On Time 1208

TSS= INITIAL WT W/SAMPLE – CONSTANT FILTER WT/SAMPLE SIZE X 1,000,000

FINAL TSS = FINAL WT W/SAMPLE – CONSTANT FILTER WT/SAMPLE SIZE X 1,000,000

SAMPLE DATE	PAD #	SAMPLE SIZE	INITIAL WT	CONSTANT WT <.5	CONSTANT WT <.5	INITIAL W/SAMPLE	FINAL W/ SAMPLE	TSS	FINAL TSS	TIME/ INITIAL
7	1	200	0.0995				0.103		9.0	1408
	1	200	~~0.0989~~	0.0993			0.1010		~~8.5~~	KF
									8.5	
8	3	200	0.0992				0.1005		6.5	1408
	9	200	0.0992				0.1006		~~7.0~~	KF
									6.8	
9	7	200	0.0990				0.1002		6.0	1408
	14	200	0.0993				0.0997		~~2.0~~	KF
									4.0	

TSS EPA METHOD 160.2
RESIDUE NONFILTERABLE

BENCH SHEET

PLANT EFFNAOU1
MONTH June 2023

TSS= INITIAL WT W/SAMPLE – CONSTANT FILTER WT/SAMPLE SIZE X 1,000,000

FINAL TSS = FINAL WT W/SAMPLE – CONSTANT FILTER WT/SAMPLE SIZE X 1,000,000

	SAMPLE DATE	PAD #	SAMPLE SIZE	INITIAL WT	CONSTANT WT <.5	CONSTANT WT <.5	INITIAL W/SAMPLE	FINAL W/ SAMPLE	TSS	FINAL TSS	TIME/ INITIAL
1215	~~4-15~~	1	200	.0584		0.0584		0.1002		9.0	1435
		1	200	0.0958				0.1012		~~7.0~~ 8.0	KF
1215	15	3	200	0.0584				0.0988		2.0	1435
		9	200	0.0987				0.0998		~~5.5~~ 3.8	KF
1304	16	7	200	0.0962				0.0988		3.0	1435
		14	200	0.0988				0.0994		3.0 3.0	KF

TSS EPA METHOD 160.2

RESIDUE NONFILTERABLE

on 1200

BENCH SHEET

PLANT EFFNAOU

MONTH June

TSS= INITIAL WT W/SAMPLE – CONSTANT FILTER WT/SAMPLE SIZE X 1,000,000

FINAL TSS = FINAL WT W/SAMPLE – CONSTANT FILTER WT/SAMPLE SIZE X 1,000,000

SAMPLE DATE	PAD #	SAMPLE SIZE	INITIAL WT	CONSTANT WT <.5	CONSTANT WT <.5	INITIAL W/SAMPLE	FINAL W/ SAMPLE	TSS	FINAL TSS	TIME/ INITIAL
21	1	200	0.0990				0.1003		6.5	1430
	1	200	0.1006				0.1013		3.5	KF
									3.0	
22	3	200	0.0989				.102		11.5	1440
	9	200	0.0998				.1017		9.5	KF
									10.5	
23	7	200	0.0972				0.0983		5.5	1440
	14	200	0.0989				0.0993		2.0	KF
									3.75	

WWT DAILY TESTSHEET

Monday

STime 930

DATE:	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT					
TIME:	DAILY FLOW:				

Pond 1	Pond 2
X	X
X	X

TESTED BY:

Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Saturday ~~Tuesday~~

DATE:	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT	79.7	7.56	7.22	75	0.08
EFFLUENT Duplicate					
TIME: 0950	DAILY FLOW:				

Pond 1	Pond 2
X	X
X	X

TESTED BY:

Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Wednesday

STime 1220

DATE: 31May23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT	75.5	7.08	2.05	110	20.91
FRONT OF POND #1	83.10F	7.14	4.53	N/A	N/A
#1 WIER	82.6	7.02	6.29	80	1.60
FRONT OF POND #2					
#2 WIER					
EFFLUENT	79.1	7.42	7.14	80	0.15
TIME: 1220	DAILY FLOW:				

Pond 1	Pond 2
X	X
X	X

TESTED BY: Kevin Fundaburk

Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Thursday

STime 550A

DATE: 1Jun23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT	77.3	7.44	7.33	85	0.08
TIME: 0602	DAILY FLOW:				

Pond 1	Pond 2
X	X
X	X

TESTED BY: Kevin Fundaburk

Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Friday

STime 1300

DATE:	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT	75.7	7.16	0.67	150	17.85
FRONT OF POND #1	85.2	7.40	6.84	90	3.33
#1 WIER	82.1	6.97	3.50	90	N/A
FRONT OF POND #2					
#2 WIER					
EFFLUENT	79.9	7.67	7.21	85	0.08
TIME: 1327	DAILY FLOW:				

Pond 1	Pond 2
X	X
X	X

TESTED BY: Kevin Fundaburk

Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

WWT DAILY TESTSHEET

Monday

DATE:	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT					
TIME:	DAILY FLOW:				

Pond 1: X X
Pond 2: X X

TESTED BY:
Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Tuesday

5 Jun 9:20 0930

DATE: 6 June 23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT	73.2	6.96	4.40	80	N/A
FRONT OF POND #1	78.6	7.06	2.02	N/A	N/A
#1 WIER	78.8	6.92	3.06	N/A	N/A
FRONT OF POND #2					
#2 WIER					
EFFLUENT	79.3	7.47	7.46	75	0.06
EFFLUENT Duplicate					
TIME: 0945	DAILY FLOW:				

Pond 1: X X
Pond 2: X X

TESTED BY: Kevin Sudatus
Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Wednesday

1450

DATE: 7 June 23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT	81.5	7.63	7.13	85	0.20
TIME: 1450	DAILY FLOW:				

Pond 1: X X
Pond 2: X X

TESTED BY: Kevin Sudatus
Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Thursday

DATE: 8 June 23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT	81.3	7.81	7.18	85	0.09
TIME:	DAILY FLOW:				

Pond 1: X X
Pond 2: X X

TESTED BY: Kevin Sudatus
Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Friday

5 Jun 1130

DATE: 9 June 23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT	82.7	7.67	7.24	80	0.09
TIME: 1143	DAILY FLOW:				

Pond 1: X X
Pond 2: X X

TESTED BY: Kevin Sudatus
Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

WWT DAILY TESTSHEET

Monday

DATE:	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT					
TIME:	DAILY FLOW:				

X	X
X	X
Pond 1	Pond 2

TESTED BY:

Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Tuesday

DATE:	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT					
EFFLUENT Duplicate					
TIME:	DAILY FLOW:				

X	X
X	X
Pond 1	Pond 2

TESTED BY:

Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Wednesday

Start 1245

Test 1259

DATE: 14 June 23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER				85	
FRONT OF POND #2					
#2 WIER					
EFFLUENT	76.4	7.69	7.44	75	0.20
TIME: 1259	DAILY FLOW:				

X	X
X	X
Pond 1	Pond 2

TESTED BY: Kevin Sudeth

Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Thursday

Start time 1105

DATE: 15 June 23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT	75.9	6.65	4.85	110	3.87
FRONT OF POND #1	79.9	7.13	4.13	75	1.50
#1 WIER	79.9	7.06	5.64	85	1.30
FRONT OF POND #2					
#2 WIER					
EFFLUENT	78.3	7.55	7.58	75	0.06
TIME: 1120	DAILY FLOW:				

X	X
X	X
Pond 1	Pond 2

TESTED BY: Kevin Sudeth

Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Friday

1245

DATE: 16 June 23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT	79.7	7.92	7.49	70	0.29
TIME: 1300	DAILY FLOW:				

X	X
X	X
Pond 1	Pond 2

TESTED BY: Kevin Sudeth

Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

WWT DAILY TESTSHEET

Monday

DATE:	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT					
TIME:	DAILY FLOW:				

Pond 1	Pond 2
X	X
X	X

TESTED BY:

Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Tuesday

DATE:	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT					
EFFLUENT Duplicate					
TIME:	DAILY FLOW:				

Pond 1	Pond 2
X	X
X	X

TESTED BY:

Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Wednesday

DATE: 21 Jun 23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT	77.6	6.95	2.88	85	N/A
FRONT OF POND #1	84.9	7.24	4.94	100	1.80
#1 WIER	84.9	7.08	4.27	85	0.70
FRONT OF POND #2					
#2 WIER					
EFFLUENT	84.0	7.70	7.02	80	0.24
TIME: 1400	DAILY FLOW:				

Pond 1	Pond 2
X	X
X	X

TESTED BY: Kori Buckles

Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Thursday

DATE: 22 Jun 22	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT	82.6	7.88	6.98	70	0.80
TIME: 1417	DAILY FLOW:				

Pond 1	Pond 2
X	X
X	X

TESTED BY: Kori Buckles

Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Friday

DATE: 23 Jun 23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT	83.7	7.96	7.00	80	1.44
TIME: 1140	DAILY FLOW:				

Pond 1	Pond 2
X	X
X	X

TESTED BY: Kori Buckles

Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

WWT DAILY TESTSHEET

Monday

DATE:	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT					
TIME:	DAILY FLOW:				

Pond 1	Pond 2
X	X
X	X

TESTED BY:

Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Tuesday

1240

DATE: 27 Jun 23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT	77.7	6.80	2.39	120	7.02
FRONT OF POND #1	87.5	7.28	5.23	75	1.80
#1 WIER	85.4	7.06	4.09	85	0.28
FRONT OF POND #2					
#2 WIER					
EFFLUENT	84.8	7.61	7.01	65	0.08
EFFLUENT Duplicate					
TIME: 1246	DAILY FLOW:				

Pond 1	Pond 2
X	X
X	X

TESTED BY: Kevin Sundstrom

Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Wednesday

DATE: 28 Jun 23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT	83.3	7.60	6.79	75	0.20
TIME: 1135	DAILY FLOW:				

Pond 1	Pond 2
X	X
X	X

TESTED BY: Kevin Sundstrom

Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Thursday

DATE:	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT					
TIME:	DAILY FLOW:				

Pond 1	Pond 2
X	X
X	X

TESTED BY:

Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

Friday

DATE: 30 Jun 23	TEMP. °C	pH	DO mg/L	ALK mg/L	NH_3 mg/L
INFLUENT					
FRONT OF POND #1					
#1 WIER					
FRONT OF POND #2					
#2 WIER					
EFFLUENT	84.9	7.91	6.84	100	0.10
TIME: 1326	DAILY FLOW:				

Pond 1	Pond 2
X	X
X	X

TESTED BY:

Rain:

GREEN X: RAS / RED X: WEIR BLACK X: SAMPLE POINT

FECAL / THERMOTOLERANT COLIFORM BENCH SHEET

SAMPLE DAY:	27 June 2023		SAMPLE TIME:	1240	
DATE ON:	27 June 23	TEMP: 44.5	DATE OFF:	28 June 23	TEMP: 44.5
TIME ON:	1320	TECH: KF	TIME OFF:	1145	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	100	85	68	
	100	43	23	55

SAMPLE DAY:	28 June 2023		SAMPLE TIME:	1125	
DATE ON:	28 June 23	TEMP: 44.5	DATE OFF:	29 June 23	TEMP: 44.5
TIME ON:	1145	TECH: KF	TIME OFF:	1254	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	5	6	11	
	5	3	4	4

SAMPLE DAY:	30 June 2023		SAMPLE TIME:	1312	
DATE ON:	30 June 23	TEMP: 44.5	DATE OFF:	1 July 23	TEMP: 44.5
TIME ON:	1336	TECH: KF	TIME OFF:	0906	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	10	36	25	
	10	18	8	12

FECAL / THERMOTOLERANT COLIFORM BENCH SHEET

SAMPLE DAY: 31 May 2023		SAMPLE TIME: 1222	
DATE ON: 31May23	TEMP: 44.5	DATE OFF: 1June23	TEMP: 44.5
TIME ON: 1255	TECH: KF	TIME OFF: 0610	TECH: 44.5

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	14	40	58	
	14	20	19	18

SAMPLE DAY: 1 June 23		SAMPLE TIME: 0556	
DATE ON: 1June	TEMP: 44.5	DATE OFF: 2June23	TEMP: 44.5
TIME ON: 0611	TECH: KF	TIME OFF: 0907	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	1	3	4	
		2	1	1

SAMPLE DAY: 2 June 23		SAMPLE TIME: 1300	
DATE ON: 2June23	TEMP: 44.5	DATE OFF: 3June23	TEMP: 44.5
TIME ON: 1340	TECH: KF	TIME OFF: 1156	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	0	1	5	
		1	2	

FECAL / THERMOTOLERANT COLIFORM BENCH SHEET

SAMPLE DAY: 6 June 2023		SAMPLE TIME: 0920	
DATE ON: 6 June 23	TEMP: 44.5	DATE OFF: 7 June 23	TEMP: 44.5
TIME ON: 1005	TECH: KF	TIME OFF: 0900	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	7	5	9	
	7	3	3	4

SAMPLE DAY: 07 June 23		SAMPLE TIME: 1450	
DATE ON: 7 June 23	TEMP: 44.5	DATE OFF: 8 June 23	TEMP: 44.5
TIME ON: 1508	TECH: KF	TIME OFF: 1335	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	5	7	10	
	5	4	3	4

SAMPLE DAY: 8 June 2023		SAMPLE TIME: 1300	
DATE ON: 8 June 23	TEMP: 44.5	DATE OFF: 9 June 23	TEMP: 44.5
TIME ON: 1324	TECH: KF	TIME OFF: 1435	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	7	10	12	
	7	5	4	5

FECAL / THERMOTOLERANT COLIFORM BENCH SHEET

SAMPLE DAY: 14 June 2023		SAMPLE TIME: 1245	
DATE ON: 14 June 23	TEMP: 44.5	DATE OFF: 15 June 23	TEMP: 44.5
TIME ON: 1311	TECH: KF	TIME OFF: 1155	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	2	5	2	
	2	3	1	2

SAMPLE DAY: 15 June 23		SAMPLE TIME: 1105	
DATE ON: 15 June 23	TEMP: 44.5	DATE OFF: 16 June 23	TEMP: 44.5
TIME ON: 1155	TECH: KF	TIME OFF: 1311	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	2	4	1	
	2	2	1	2

SAMPLE DAY: 16 June 2023		SAMPLE TIME: 1245	
DATE ON: 16 June 23	TEMP: 445	DATE OFF: 17 June 23	TEMP: 44.5
TIME ON: 1311	TECH: KF	TIME OFF: 0916	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	3	3	4	
	3	2	1	2

FECAL / THERMOTOLERANT COLIFORM BENCH SHEET

SAMPLE DAY: 21 June 2023		SAMPLE TIME: 1325	
DATE ON: 21 June 23	TEMP: 44.5	DATE OFF: 22 June 23	TEMP: 44.5
TIME ON: 1406	TECH: KF	TIME OFF: 1430	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	4	6	13	
	4	3	4	4

SAMPLE DAY: 22 June 23		SAMPLE TIME: 1406	
DATE ON: 22 June 23	TEMP: 44.5	DATE OFF: 23 Jun 23	TEMP: 44.5
TIME ON: 1430	TECH: KF	TIME OFF: 1215	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	5	6	4	
	5	3	4	4

SAMPLE DAY: 23 ~~22~~ Jun 23		SAMPLE TIME: 1130	
DATE ON: 23 June 23	TEMP: 44.5	DATE OFF: 24 June	TEMP: 44.5
TIME ON: 1215	TECH: KF	TIME OFF: 0955	TECH: KF

COUNT ANYTHING BLUE ON THE MEMBRANE

BLANK 1	100 mL	200mL	300mL	BLANK 2
	8	9	4	
	8	5	1	5

B.O.D. LABORATORY DETERMINATIONS

SOURCE OF SAMPLES EFF NA001 UP 001-A TEMP 20C. LAB TECH(Kevin Funderburk
COLLECTION DATE 1-2-3 June 2023 5 DAY INCUBATION PERIOD 3 June 23 TO 8 June 23
TIME TESTING BEGAN 1ST DAY _____ TIME TESTING ENDED 1ST DAY 3 June 23 1152
TIME TESTING BEGAN 5TH DAY _____ TIME TESTING ENDED 5TH DAY 8 June 23 - 1416
PROCEDURE 5210B FROM STANDARD METHOD 19TH EDITION PAGE 5-2
METHOD USED: WINKLER TITRATION (CALIBRATION FOR ELECTRODE METHOD)

Duplicates are performed on each analysis and pH of samples are between 6.5 and 7.5, if not adjust w/ N-OH or Sulf.acid
Depletion=Initial D.O. – Final D.O. %Depletion=Depletion / Initial D.O. %Sample=ml of sample/300or depl/mgl BOD
MLS of Sample=%sample x 300 MG/L BOD= depl. / %sample (without seed) or depl. – SCF / %sample
Seed control factor=depl.(SC) x mls reseed / mls of sample (SC) Range>.6 & <1.0 with depl of 43% & 70%
Final DO must be > 1.0 Depletion must be > 2.0 Samples that Blank out Use Range sheet at 100%

Bottles #1	Bottles #2	Sample Description	MLS Sample	Initial D.O.	Final D.O.	Depl <.2	% Depl.	% Sample	MG/L BOD	Remarks
1		Dill. H2O	300	8.7	8.0			100		
2		Seed Control	20	8.7	3.7	5.0	57	.07	75	1.5
3		"	25	8.7	2.5	6.2	71	.08	44	0.99
		"	30					.10		
Date 1		pH								
4		Reseed w/ 6 ml	294	9.8	5.4	4.4	44	.98	30	3.1
5		4 ml	296	9.9	5.9	4.0		.99	3.1	
6		Duplicate 4 ml	296	9.9	5.9	4.0		.99	3.1	
		ml								
		ml								% removal:
		RAW								
Date 2		pH								
7		Reseed w/ 6 ml	294	9.7	5.8	3.9	40	.98	2.5	2.5
8		4 ml	296	9.8	6.3	3.5		.99	2.6	
9		4 ml	296	9.8	6.4	3.4		.99	2.5	
		ml								% removal:
		RAW								
Date 3		pH								
10		Reseed w/ 6 ml	294	9.0	5.6	3.4		.98	2.0	2.2
11		4 ml	296	9.0	6.0	3.0		.99	2.1	
12		4 ml	296	9.0	5.7	3.3		.99	2.4	
		ml								% removal:
		RAW								
		6.66A 4 Seed								
13		GGA reseed: 4 ml	3	8.8	3.5			.01		
14		Duplicate	3	8.8	3.5			.01		
15		Dill. H20	300	8.8	7.9			100		

B.O.D. LABORATORY DETERMINATIONS

SOURCE OF SAMPLES WP 001-A TEMP 20C. LAB TECH Kevin Funderbunk
COLLECTION DATE 7,8,9 June 2023 5 DAY INCUBATION PERIOD 9 June 23 TO 14 June 23
TIME TESTING BEGAN 1ST DAY TIME TESTING ENDED 1ST DAY 1430
TIME TESTING BEGAN 5TH DAY 14 June 23 TIME TESTING ENDED 5TH DAY 1549 KF
PROCEDURE 5210B FROM STANDARD METHOD 19TH EDITION PAGE 5-2
METHOD USED: WINKLER TITRATION (CALIBRATION FOR ELECTRODE METHOD)
Duplicates are performed on each analysis and pH of samples are between 6.5 and 7.5, if not adjust w/ N-OH or Sulf.acid
Depletion=Initial D.O. – Final D.O. %Depletion=Depletion / Initial D.O. %Sample=ml of sample/300or depl/mgl BOD
MLS of Sample=%sample x 300 MG/L BOD= depl. / %sample (without seed) or depl. – SCF / %sample
Seed control factor=depl.(SC) x mls reseed / mls of sample (SC) Range>.6 & <3.0 with depl of 43% & 70%
Final DO must be > 1.0 Depletion must be > 2.0 Samples that Blank out: Use Range sheet at 100%

Bottles #1	Bottles #2	Sample Description	MLS Sample	Initial D.O.	Final D.O.	Depl <.2	% Depl.	% Sample	MG/L BOD	Remarks
1		Dill. H2O	300	8.8	8.1			100		
2		Seed Control	20	8.7	4.5	4.2	48	.07	63	1.1
3		"	25	8.7	4.0	4.7	54	.08	66	0.75
		"	30					.10		
Date 7		pH								
4		Reseed w/ 6 ml	294	9.6	4.7	4.9	51	.98	39	4.0
5		4 ml	296	9.7	5.0	4.7	48	.99	4.0	
6		Duplicate 4 ml	296	9.8	5.1	4.7	48	.99	4.0	
		ml								
		ml								% removal:
		RAW								
Date 8		pH								
7		Reseed w/ 6 ml	294	9.7	6.2	3.5	36	.99	2.5	2.4
8		4 ml	296	9.7	6.7	3.0	31	.99	2.3	
9		4 ml	296	9.8	6.6	3.2		.99	2.5	
		ml								% removal:
		RAW								
Date 9		pH								
10		Reseed w/ 6 ml	294	9.2	6.6	2.6		.99	1.6	1.5
11		4 ml	296	9.3	6.9	2.4		.99	1.4	
12		4 ml	296	9.3	6.7	2.6		.99	1.6	
		ml								% removal:
		RAW								
		6 GGA	4 Seed							
13		GGA reseed: 4 ml	3	8.8	4.2			.01		
14		Duplicate	3	8.8	4.2			.01		
15		Dill. H2O	300	8.8	8.0			100		

B.O.D. LABORATORY DETERMINATIONS

SOURCE OF SAMPLES WP 001-A EFFNA001 TEMP 20C. LAB TECH Kevin Funderburk
COLLECTION DATE 14,15,16 June 2023 5 DAY INCUBATION PERIOD 16 June 23 TO 21 June 23
TIME TESTING BEGAN 1ST DAY _____ TIME TESTING ENDED 1ST DAY 1425
TIME TESTING BEGAN 5TH DAY _____ TIME TESTING ENDED 5TH DAY 1432
PROCEDURE 5210B FROM STANDARD METHOD 19TH EDITION PAGE 5-2
METHOD USED: WINKLER TITRATION (CALIBRATION FOR ELECTRODE METHOD)

Duplicates are performed on each analysis and pH of samples are between 6.5 and 7.5, if not adjust w/ N-OH or Sulf.acid

Depletion=Initial D.O. – Final D.O. %Depletion=Depletion / Initial D.O. %Sample=ml of sample/300or depl/mgl BOD
MLS of Sample=%sample x 300 MG/L BOD= depl. / %sample (without seed) or depl. – SCF / %sample
Seed control factor=depl.(SC) x mls reseed / mls of sample (SC) Range:>.6 & <1.0 with depl of 43% & 70%
Final DO must be > 1.0 Depletion must be > 2.0 Samples that Blank out: Use Range sheet at 100%

Bottles #1	Bottles #2	Sample Description	MLS Sample	Initial D.O.	Final D.O.	Depl < .2	% Depl.	% Sample	MG/L BOD	Remarks
1		Dill. H2O	300	8.5	8.4			100		
2		Seed Control	20	8.5	4.0	4.5	53	.07	62.5	1.3
3		"	25	8.4	2.8	5.6	67	.08	67.2	0.90
		"	30					.10		
Date 14		pH								
4		Reseed w/ 6 ml	294	9.8	6.3	3.5	36	.98	2.3	2.3
5		4 ml	296	10.0	6.8	3.2	32	.99	2.3	
6		Duplicate 4 ml	296	10.1	6.9	3.2	31	.99	2.3	
		ml								
		ml								% removal:
		RAW								
Date 15		pH								
7		Reseed w/ ml	294	9.8	6.9	2.9	30	.98	1.7	1.5
8		ml	296	9.9	7.6	2.3	23	.99	1.4	
9		ml	296	10.0	7.6	2.4	24	.99	1.5	
		ml								% removal:
		RAW								
Date 16		pH								
10		Reseed w/ ml	294	8.5	6.5	2.0	23	.98	2.0	1.1
11		ml	296	8.4	7.0	1.4	17	.99	0.51	
12		ml	296	8.5	6.8	1.7	20	.99	0.82	
		ml								% removal:
		RAW								
		6 GGA 4 Seed								
13		GGA reseed: 4 ml	1	8.5	3.7			.01		
14		Duplicate	1	8.6	3.4			.01		
15		Dill. H20	300	8.6	8.3			100		

B.O.D. LABORATORY DETERMINATIONS

SOURCE OF SAMPLES WP 001-A TEMP 20C. LAB TECH Kevin Buckelew
COLLECTION DATE 21 22 23 Jun 23 5 DAY INCUBATION PERIOD 23 Jun 23 TO 28 Jun 23
TIME TESTING BEGAN 1ST DAY TIME TESTING ENDED 1ST DAY 1430
TIME TESTING BEGAN 5TH DAY TIME TESTING ENDED 5TH DAY 1420
PROCEDURE 5210B FROM STANDARD METHOD 19TH EDITION PAGE 5-2
METHOD USED: WINKLER TITRATION (CALIBRATION FOR ELECTRODE METHOD)

Duplicates are performed on each analysis and pH of samples are between 6.5 and 7.5, if not adjust w/ N-OH or Sulf.acid

Depletion=Initial D.O. – Final D.O. %Depletion=Depletion / Initial D.O. %Sample=ml of sample/300or depl/mgl BOD
MLS of Sample=%sample x 300 MG/L BOD= depl. / %sample (without seed) or depl. – SCF / %sample
Seed control factor=depl.(SC) x mls reseed / mls of sample (SC) Range>.6 & <1.0 with depl of 43% & 70%
Final DO must be > 1.0 Depletion must be > 2.0 Samples that Blank out: Use Range sheet at 100%

Bottles #1	Bottles #2	Sample Description	MLS Sample	Initial D.O.	Final D.O.	Depl <.2	% Depl.	% Sample	MG/L BOD	Remarks
1		Dill. H2O	300	8.6	8.5			100		
2		Seed Control	20	8.5	4.1	4.4	52	.07	66	1.32
3		"	25	8.5	3.0	5.5	66	.08	66	0.88
		"	30					.10		
Date 21		pH								
4		Reseed w/ 6 ml	294	9.4	5.9	3.5	37	.98	2.3	2.3
5		4 ml	296	9.5	6.2	3.3	35	.99	2.5	
6		Duplicate 4 ml	296	9.5	6.5	3.0	32	.99	2.2	
		ml								
		ml								% removal:
		RAW								
Date 22		pH								
7		Reseed w/ 6 ml	294	10.0	5.4	4.6	46	.98	3.4	2.9
8		4 ml	296	10.1	7.1	3.0	29	.99	2.2	
9		4 ml	296	10.1	6.3	3.8		.99	3.8	
		ml								% removal:
		RAW								
Date 23		pH								
10		Reseed w/ 6 ml	294	8.9	6.4	2.5	28	.98	1.23	1.2
11		4 ml	296	9.0	7.1	1.9	21	.99	1.01	
12		4 ml	296	9.0	6.8	2.2		.99	1.3	
		ml								% removal:
		RAW								
13		GGA reseed: 6 ml	3	8.6	4.1			.01		
14		Duplicate	3	8.6	4.0			.01		
15		Dill. H2O	300	8.6	8.4			100		

B.O.D. LABORATORY DETERMINATIONS

SOURCE OF SAMPLES WP 001-A TEMP 20C. LAB TECH Kevin Sundelspink
COLLECTION DATE 28&29&30 June 23 5 DAY INCUBATION PERIOD 30 June 23 TO 5 July 23
TIME TESTING BEGAN 1ST DAY _____ TIME TESTING ENDED 1ST DAY 1424
TIME TESTING BEGAN 5TH DAY _____ TIME TESTING ENDED 5TH DAY 1356
PROCEDURE 5210B FROM STANDARD METHOD 19TH EDITION PAGE 5-2
METHOD USED: WINKLER TITRATION (CALIBRATION FOR ELECTRODE METHOD)
Duplicates are performed on each analysis and pH of samples are between 6.5 and 7.5, if not adjust w/ N-OH or Sulf.acid
Depletion=Initial D.O. – Final D.O. %Depletion=Depletion / Initial D.O. %Sample=ml of sample/300or depl/mgl BOD
MLS of Sample=%sample x 300 MG/L BOD= depl. / %sample (without seed) or depl. – SCF / %sample
Seed control factor=depl.(SC) x mls reseed / mls of sample (SC) Range>.6 & <1.0 with depl of 43% & 70%
Final DO must be > 1.0 Depletion must be > 2.0 Samples that Blank out: Use Range sheet at 100%

Bottles #1	Bottles #2	Sample Description	MLS Sample	Initial D.O.	Final D.O.	Depl <.2	% Depl.	% Sample	MG/L BOD	Remarks
1	1	Dill. H2O	300	8.8	8.4			100		
2	2	Seed Control	20	8.7	4.5	4.2	48	.07	63	1.1
3	3	"	25	8.7	4.0	4.7	54	.08	564	0.75
		"	30					.10		
Date 28		pH								
4		Reseed w/ 6 ml	294	9.0	4.3	4.7	52	.98	3.7	3.8
5		4 ml	296	9.0	4.7	4.3	47	.99	3.6	
6		Duplicate 4 ml	296	9.2	4.5	4.7	51	.99	4.0	
		ml								
		ml								% removal:
		RAW								
Date 29		pH								
7		Reseed w/ ml	294	9.6	3.7	5.9	61	.58	4.9	5.3
8		ml	296	9.6	4.0	5.6	58	.55	4.9	
9		ml	296	9.7	2.8	6.9	71	.55	6.2	
		ml								% removal:
		RAW								
Date 30		pH								
10		Reseed w/ ml	294	8.1	4.5	3.6	44	.58	2.6	2.5
11		ml	296	8.1	5.1	3.0	37	.55	2.3	
12		ml	296	8.2	4.8	3.4	41	.55	2.7	
		ml								% removal:
		RAW								
		666A 4 Seed								
13		666A reseed: 4 ml		8.7	3.6			.01		
14		Duplicate		8.8	3.7			.01		
15		Dill. H20	300	8.7	8.4			100		

June2023 Flow

Day	Flow MGD	Day		Day		Day		Day	
1	2.23	8	0.983	15	1.36	22	0.83	29	0.365
2	2.03	9	0.736	16	1.24	23	0.983	30	1.09
3	1.86	10	1.1	17	0.88	24	0.774	31	
4	2.09	11	0.901	18	1.66	25	0.867		
5	2.02	12	1.06	19	1.7	26	1.6		
6	2.1	13	1.61	20	1.13	27	1.86		
7	1.14	14	1.82	21	1.52	28	1.15		
Total	13.47		8.21		9.49		8.064		1.455
7 DAY AVG.	1.924286		1.1728571		9.49		1.152		
Month Total	40.689								
Monthly Avage	1.3563								

Amonia

Day	Results	Day	Results	Day	Results	Day	Results	
1	ND	7	0.019	14	ND	21	0.168	0.107
2	ND	8	0.032	15	0.014	22	0.624	0.298
3	ND	9	ND	16	0.176	23	1.36	0.232
Total	0		0.051		0.19		2.152	0.637
7 Day Avg.	0		0.017		0.0633		0.7173	0.2123
Monthly Total	1.01							
Monthly AVG lbs/Day	0.202							

1	0	2.23	8.34	0	14	0	1.82	8.34	0	21	0.168	1.52	8.34	2.1297
2	0	2.03	8.34	0	15	0.014	1.36	8.34	0.1588	22	0.624	0.83	8.34	4.3195
3	0	1.86	8.34	0	16	0.176	1.24	8.34	1.8201	23	1.36	0.983	8.34	11.15
7	0.019	1.14	8.34	0.1806	28	0.107	1.15	8.34	1.0262					
8	0.032	0.983	8.34	0.2623	29	0.298	0.365	8.34	0.9071					
9	0	0.736	8.34	0	30	0.232	1.09	8.34	2.109					
				0.443					6.021313					17.59873

DO

Day	Results	Day	Results	Day	Results	Day	Results	Day	Results
31	7.14	7	7.13	14	7.44	21	7.02	27	7.01
1	7.33	8	7.18	15	7.58	22	6.98	28	6.79
2	7.21	9	7.24	16	7.49	23	7	30	6.84
Maxium	7.58								
Minium	6.79								

24.063
1.6042

PH

Day	Result	Day		Day		Day	Results	Day	Results
31	7.42	7	7.63	14	7.69	21	7.7	27	7.61
1	7.44	8	7.81	15	7.55	22	7.88	28	7.6
2	7.67	9	7.67	16	7.92	23	7.96	30	7.91
Maxium	7.91								
Minium	7.42								

134.11

BOD

Day	Results	Day-	Results	Day	Results	Day	Results	
1	3.1	7	4	14	2.3	21	2.3	3.8
2	2.5	8	2.4	15	1.5	22	2.9	5.3
3	2.2	9	1.5	16	1.1	23	1.2	2.5
Total	7.8		7.9		4.9		6.4	11.6
7 Day Avg.	2.6		2.6333333		1.6333		2.1333	3.8667
Monthly Total	12.86667							
Monthly AVG lbs/Day	2.573333							

1	3.1	2.23	8.34	57.65	14	2.3	1.82	8.34	34.911											
2	2.5	2.03	8.34	42.33	15	1.5	1.36	8.34	17.014											
3	2.2	1.86	8.34	34.13	16	1.1	1.24	8.34	11.376											
7	4	1.14	8.34	38.03	21	2.3	1.52	8.34	29.157	28	3.8	1.15	8.34	36.446
8	2.4	0.983	8.34	19.676	22	2.9	0.83	8.34	20.074	29	5.3	0.365	8.34	16.134
9	1.5	0.736	8.34	9.2074	23	1.2	0.983	8.34	9.8379	30	2.5	1.09	8.34	22.727
				201.0207					122.3695					75.30603

633

66.90

398.7
26.58

55.1

npw June 2023

Jun-23

TSS (three/week)

Day	Concentration (mg/l)	7-Day Average (mg/l)	Flow (MGD)	Loading (lbs/day)
1	5.30		2.230	98.57
2	7.50		2.030	126.98
3	2.00	4.93	1.860	31.02
7	8.80		1.140	83.67
8	6.80		0.983	55.75
9	4.00	6.53	0.736	24.55
14	8.00		1.820	121.43
15	3.80		1.360	43.10
16	3.00	4.93	1.240	31.02
21	5.00		1.520	63.38
22	10.50		0.830	72.68
23	3.75	6.42	0.983	30.74
28	4.30		1.150	41.24
29	6.80		0.365	20.70
30	5.00	5.37	1.090	45.45
Monthly Average	5.70			
	9.56			
		28.18		
		5.636666667		890.30
				59.3533614

Jun-23

FCB (three/week)

Day	Count	Log	Average	Geo Mean
31	18	1.26		
1	1	0.00		
2	1	0.00	0.42	2.6207413942089
6	4	0.60		
7	4	0.60		
8	5	0.70	0.63	4.3088693800638
14	2	0.30		
15	2	0.30		
16	2	0.30	0.30	2.0000000000000
21	4	0.60		
22	4	0.60		
23	5	0.70	0.63	4.30886938006377
27	55	1.74	1.74	55.0000000000000
28	4	0.60		
30	12	1.08		
Average		0.63		
Geo Mean		4.22418658355252		

Lab Calibration Sheet:

Date: 6 June 2023

Time: 0905

PH

Slope: -56.57 96%

Offset: -24.5mV

Voltage: 143.0mV

Temperature: 69.6°F

4.00 4.00 -4.03

7.00 7.01 -7.03

10.00 10.05 -10.07

DO

Slope: 86.6%

Offset: 0.00

Temperature: 69.6

mmHg: 751.0mHg

8.40-8.42

Lab Calibration Sheet:

Date: 15 June 2023

Time: 1035

PH

Slope: -56.82

Offset: -264mV 968

Voltage: 142.0mV

Temperature: 70.7°F

4.00 4.00 - 4.05

7.00 7.01 - 7.05

10.00 10.04 - 10.04

DO

Slope: 87.08

Offset: 0.00

Temperature: 70.3°F 8.40-8.35

mmHg: 747mmHg

Lab Calibration Sheet:

Date: 16 June 2023

Time: 1251

PH

Slope:

Offset:

Voltage:

Temperature:

4.00 3.99

7.00 7.06

10.00 9.97

DO

Slope: 86.88

Offset: 0.00

Temperature: 70.3°F 8.40-8.37

mmHg: 748mmHg

21 June 2023

1413

Slope 87.48

Offset 0.00

Temperture

70.6 8.40-8.37

748mmHg

Lab Calibration Sheet:

Date: 21 June 2023

Time: 1257

PH

Slope: -57.03

Offset: -24.9mV

Voltage: 144.62V

Temperature: 69.2

4.00 4.00 - 4.02

7.00 7.01 - 7.05

10.00 10.04 - 10.03

DO

Slope: 85.18

Offset: 0.00

Temperature: 68.4°F 8.40-8.38

mmHg: 749mmHg

Lab Calibration Sheet:

Date: 27 June 2023

Time: 1215

PH

Slope: -56.91 96%

Offset: -28.4mV

Voltage: 139.8

Temperature: 67.9°F

4.00 4.00 - 4.01

7.00 7.02 - 6.97

10.00 10.05 - 10.05

DO

Slope: 86.0%

Offset: 0.00

Temperature: 69.6 8.40 - 8.37

mmHg: 750mmHg

INSTRUMENT & SUPPLY, INC.
CALIBRATION CERTIFICATION

TO: Nashville WWTP
426 N. Main St.
Nashville, AR 71852-2006
ATTN: Kevin Funderburk

Location of Job: Nashville WWTP

This is to certify that the following equipment was calibrated on: July 7, 2023,
by Paul Wofford.

Equipment Calibrated:

(1) Name:	ISCO Signature	Serial #:	214E02384	Function:	Effluent Flow
(2) Name:	18" Parshall Flume	Serial #:		Function:	
(3) Name:		Serial #:		Function:	
(4) Name:		Serial #:		Function:	
(5) Name:		Serial #:		Function:	
(6) Name:		Serial #:		Function:	

Calibration Equipment Used:

(1) Name:	Fluke Model 787	Serial #:	7704022
(2) Name:		Serial #:	
(3) Name:		Serial #:	

Formula Used:

% of Error = (Meter Flow - Calibration Flow) 100/Calibration Flow

+1.09% of Error = (1146.80 GPM - 1134.41 GPM) 100/1134.41 GPM

Totalizer: 550752854 Gal

Signal Strength: 91%

We certify that the above calibrated equipment is accurate within the manufacturers specified tolerances or as follows:

No adjustments required, meter accurate to +/-10% as required by ADEQ.

Signed:

Paul Wofford

Paul Wofford

July 7, 2023
Date