



NELAP Certificate No. E86006



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Ground Water Monitoring Report

RECEIVED
SEPT 9, 2022

Solid Waste Authority - Palm Beach County
Hydrogeologist
7501 North Jog Road
West Palm Beach, FL 33412

Date Received: 08/04/2022 16:00
Date Reported: 09/07/2022 14:13
Report Period: 2022Q3

Project Name: Central County Transfer Station MW's
Lab Work Order (COC): 22H0190

Laboratory Sample #

- 22H0190-01
- 22H0190-02
- 22H0190-03
- 22H0190-04
- 22H0190-05
- 22H0190-06
- 22H0190-07

Client Sample #

- CTMW-2S
- CTMW-2I
- CTSF Blank 080422
- CTMW-1S
- CTMW-1I
- Metal Trip Blank 8422A
- Metal Trip Blank 8422B



Central County Transfer Station MW's

Lab ID: 22H0190-01
Sheen: No
Color: Slight Yellow
Odor: No
Matrix: Groundwater

Diameter (in): 2
Depth to Water (ft): 14.49
Top of Casing (ft): 22.15
Total Depth (ft): 37.31

Parameter Monitoring Report

WACS Facility ID #: PBCC01 **Sampling Date/Time:** 08/04/22 08:45
WACS Test Site ID#: PBCC03 **Report Period:** 2022Q3
Well Name: CTMW-2S **Well Purge (Y/N):** Y
GW Classification: G-II **Well Type:** Background **Compliance (X)**
GW Elevation (NGVD): 7.66 Intermediate Other

Storet Code	Parameter	Sample Method Grab/Comp	Field Filter Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units		Dil Factor
							MDL	PQL	

Field Parameter (s) (See Notes and Definitions Page)

00402	Specific Conductance (field)	GRAB	N	FDEP SOP	08/04/2022 08:45	411 uS/cm @ 25°C		uS/cm @ 25°C	1
00406	pH (Field) at 25°C	GRAB	N	FDEP SOP	08/04/2022 08:45	7.58 S.U.		S.U.	1
	Temperature (field)	GRAB	N	FDEP SOP	08/04/2022 08:45	26.4 °C		°C	1
	Turbidity (Field)	GRAB	N	FDEP SOP	08/04/2022 08:45	3.51 NTU		NTU	1

Classical Chemistry Parameters

	TRPH	GRAB	N	EPA 1664	08/31/2022 14:00	<1.39 mg/L	1.39	4.18 mg/L	1
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Wet Chemistry

	Total Alkalinity	GRAB	N	EPA 310.2	08/11/2022 20:05	115 mg/L	2.49	7.46 mg/L	1
00151	Ammonia as N	GRAB	N	EPA 350.1	08/05/2022 15:32	0.0913 mg/L	0.00620	0.0200 mg/L	1
00940	Chloride	GRAB	N	EPA 300.0	08/05/2022 13:55	37.4 mg/L	0.126	0.500 mg/L	1
	Chemical Oxygen Demand	GRAB	N	EPA 410.4	08/08/2022 15:00	23.7 mg/L	2.54	10.0 mg/L	1
	Color	GRAB	N	SM 2120B	08/04/2022 18:00	45/7.17 CU	5.00	15.0 CU	1
	MBAS as LAS, mol wt. 340	GRAB	N	SM5540C	08/05/2022 17:20	0.0390 mg/L I	0.0220	0.100 mg/L	1
71851	Nitrate as N	GRAB	N	EPA 300.0	08/05/2022 13:55	<0.00720 mg/L	0.00720	0.0750 mg/L	1
	Odor at 60°C	GRAB	N	SM 2150B	08/04/2022 18:15	<1.00 T.O.N.	1.00	3.00 T.O.N.	1
00945	Sulfate	GRAB	N	EPA 300.0	08/05/2022 13:55	19.8 mg/L	0.0953	0.500 mg/L	1
00134	Total Dissolved Solids	GRAB	N	SM 2540C	08/12/2022 18:53	220 mg/L	20.0	60.0 mg/L	2
81393	Total Kjeldahl Nitrogen	GRAB	N	EPA 351.2	08/09/2022 12:36	0.327 mg/L I	0.184	0.552 mg/L	1

Total Recoverable Metals by EPA 200 Series Methods

01002	Arsenic	GRAB	N	EPA 200.8	08/05/2022 13:14	1.71 ug/L	0.115	0.500 ug/L	1
01042	Copper	GRAB	N	EPA 200.8	08/05/2022 13:14	<1.01 ug/L	1.01	4.00 ug/L	1
71900	Mercury	GRAB	N	EPA 200.8	08/11/2022 13:53	<0.0116 ug/L	0.0116	0.100 ug/L	1

Metals by EPA 6000/7000 Series Methods

01007	Barium	GRAB	N	EPA 6010/3010	08/05/2022 12:18	10.5 ug/L	0.0962	1.00 ug/L	1
01027	Cadmium	GRAB	N	EPA 6010/3010	08/05/2022 12:18	<0.217 ug/L	0.217	1.00 ug/L	1
01034	Chromium	GRAB	N	EPA 6010/3010	08/05/2022 12:18	1.20 ug/L I	0.513	5.00 ug/L	1
01045	Iron	GRAB	N	EPA 6010/3010	08/05/2022 15:49	1150 ug/L	8.45	50.0 ug/L	5
01051	Lead	GRAB	N	EPA 6010/3010	08/05/2022 12:18	<1.93 ug/L	1.93	10.0 ug/L	1
01147	Selenium	GRAB	N	EPA 6010/3010	08/05/2022 12:18	<4.39 ug/L	4.39	15.0 ug/L	1
00934	Sodium	GRAB	N	EPA 6010/3010	08/05/2022 12:18	22.8 mg/L	0.521	2.00 mg/L	1



Central County Transfer Station MW's

Lab ID: 22H0190-02

Diameter (in): 2
 Depth to Water (ft): 14.45
 Top of Casing (ft): 22.10
 Total Depth (ft): 72.65

Sheen: No
 Color: Clear
 Odor: No
 Matrix: Groundwater

Parameter Monitoring Report

WACS Facility ID #: PBCC01 Sampling Date/Time: 08/04/22 09:20
 WACS Test Site ID#: PBCC04 Report Period: 2022Q3
 Well Name: CTMW-2I Well Purge (Y/N): Y
 GW Classification: G-II Well Type: Background Compliance (X)
 GW Elevation (NGVD): 7.65 Intermediate Other

Storet Code	Parameter	Sample Method Grab/Comp	Field Filter Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units		Dil Factor
							MDL	PQL	

Field Parameter (s) (See Notes and Definitions Page)

00402	Specific Conductance (field)	GRAB	N	FDEP SOP	08/04/2022 09:20	417 uS/cm @ 25°C		uS/cm @ 25°C	1
00406	pH (Field) at 25°C	GRAB	N	FDEP SOP	08/04/2022 09:20	7.60 S.U.		S.U.	1
	Temperature (field)	GRAB	N	FDEP SOP	08/04/2022 09:20	26.2 °C		°C	1
	Turbidity (Field)	GRAB	N	FDEP SOP	08/04/2022 09:20	0.17 NTU		NTU	1

Classical Chemistry Parameters

	TRPH	GRAB	N	EPA 1664	08/31/2022 14:00	2.80 mg/L I	1.39	4.18 mg/L	1
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Wet Chemistry

	Total Alkalinity	GRAB	N	EPA 310.2	08/11/2022 20:05	170 mg/L	2.49	7.46 mg/L	1
00151	Ammonia as N	GRAB	N	EPA 350.1	08/05/2022 15:32	0.152 mg/L	0.00620	0.0200 mg/L	1
00940	Chloride	GRAB	N	EPA 300.0	08/05/2022 16:07	23.7 mg/L	0.126	0.500 mg/L	1
	Chemical Oxygen Demand	GRAB	N	EPA 410.4	08/08/2022 15:00	16.6 mg/L	2.54	10.0 mg/L	1
	Color	GRAB	N	SM 2120B	08/04/2022 18:00	35/7.45 CU	5.00	15.0 CU	1
	MBAS as LAS, mol wt. 340	GRAB	N	SM5540C	08/05/2022 17:20	<0.0220 mg/L	0.0220	0.100 mg/L	1
71851	Nitrate as N	GRAB	N	EPA 300.0	08/05/2022 16:07	<0.00720 mg/L	0.00720	0.0750 mg/L	1
	Odor at 60°C	GRAB	N	SM 2150B	08/04/2022 18:15	<1.00 T.O.N.	1.00	3.00 T.O.N.	1
00945	Sulfate	GRAB	N	EPA 300.0	08/05/2022 16:07	5.04 mg/L	0.0953	0.500 mg/L	1
00134	Total Dissolved Solids	GRAB	N	SM 2540C	08/12/2022 18:53	214 mg/L	20.0	60.0 mg/L	2
81393	Total Kjeldahl Nitrogen	GRAB	N	EPA 351.2	08/09/2022 12:36	0.279 mg/L I	0.184	0.552 mg/L	1

Total Recoverable Metals by EPA 200 Series Methods

01002	Arsenic	GRAB	N	EPA 200.8	08/05/2022 13:18	0.251 ug/L I	0.115	0.500 ug/L	1
01042	Copper	GRAB	N	EPA 200.8	08/05/2022 13:18	<1.01 ug/L	1.01	4.00 ug/L	1
71900	Mercury	GRAB	N	EPA 200.8	08/11/2022 13:55	<0.0116 ug/L	0.0116	0.100 ug/L	1

Metals by EPA 6000/7000 Series Methods

01007	Barium	GRAB	N	EPA 6010/3010	08/05/2022 12:20	10.1 ug/L	0.0962	1.00 ug/L	1
01027	Cadmium	GRAB	N	EPA 6010/3010	08/05/2022 12:20	<0.217 ug/L	0.217	1.00 ug/L	1
01034	Chromium	GRAB	N	EPA 6010/3010	08/05/2022 12:20	<0.513 ug/L	0.513	5.00 ug/L	1
01045	Iron	GRAB	N	EPA 6010/3010	08/05/2022 12:20	738 ug/L	1.69	10.0 ug/L	1
01051	Lead	GRAB	N	EPA 6010/3010	08/05/2022 12:20	<1.93 ug/L	1.93	10.0 ug/L	1
01147	Selenium	GRAB	N	EPA 6010/3010	08/05/2022 12:20	<4.39 ug/L	4.39	15.0 ug/L	1
00934	Sodium	GRAB	N	EPA 6010/3010	08/05/2022 12:20	12.8 mg/L	0.521	2.00 mg/L	1



Central County Transfer Station MW's

Lab ID: 22H0190-03

Diameter (in):

Sheen: No

Depth to Water (ft):

Color: Clear

Top of Casing (ft):

Odor: No

Total Depth (ft):

Matrix: DI Water

Parameter Monitoring Report

WACS Facility ID #: PBCC01

Sampling Date/Time: 08/04/22 09:40

WACS Test Site ID#: N/A

Report Period: 2022Q3

Well Name: CTSF Blank 080422

Well Purge (Y/N):

GW Classification: N/A

Well Type:

Background
Intermediate

Compliance
Other (x)

GW Elevation (NGVD):

Storet Code	Parameter	Sample Method Grab/Comp	Field Filter Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units MDL	PQL	Dil Factor
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Field Parameter (s) (See Notes and Definitions Page)

00402	Specific Conductance (field)	GRAB	N	FDEP SOP	08/04/2022 09:40	1.170 uS/cm @ 25°C	uS/cm @ 25°C		1
00406	pH (Field) at 25°C	GRAB	N	FDEP SOP	08/04/2022 09:40	6.41 S.U.	S.U.		1
	Temperature (field)	GRAB	N	FDEP SOP	08/04/2022 09:40	25.0 °C	°C		1
	Turbidity (Field)	GRAB	N	FDEP SOP	08/04/2022 09:40	0.09 NTU	NTU		1

Classical Chemistry Parameters

	TRPH	GRAB	N	EPA 1664	08/31/2022 14:00	<1.39 mg/L	1.39	4.18 mg/L	1
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Wet Chemistry

	Total Alkalinity	GRAB	N	EPA 310.2	08/11/2022 20:05	<2.49 mg/L	2.49	7.46 mg/L	1
00151	Ammonia as N	GRAB	N	EPA 350.1	08/05/2022 15:32	<0.00620 mg/L	0.00620	0.0200 mg/L	1
00940	Chloride	GRAB	N	EPA 300.0	08/05/2022 16:24	<0.126 mg/L	0.126	0.500 mg/L	1
	Chemical Oxygen Demand	GRAB	N	EPA 410.4	08/08/2022 15:00	<2.54 mg/L	2.54	10.0 mg/L	1
	Color	GRAB	N	SM 2120B	08/04/2022 18:00	5/7.69 CU	5.00	15.0 CU	1
	MBAS as LAS, mol wt. 340	GRAB	N	SM5540C	08/05/2022 17:20	<0.0220 mg/L	0.0220	0.100 mg/L	1
71851	Nitrate as N	GRAB	N	EPA 300.0	08/05/2022 16:24	<0.00720 mg/L	0.00720	0.0750 mg/L	1
	Odor at 60°C	GRAB	N	SM 2150B	08/04/2022 18:15	<1.00 T.O.N.	1.00	3.00 T.O.N.	1
00945	Sulfate	GRAB	N	EPA 300.0	08/05/2022 16:24	<0.0953 mg/L	0.0953	0.500 mg/L	1
00134	Total Dissolved Solids	GRAB	N	SM 2540C	08/12/2022 18:53	<10.0 mg/L	10.0	30.0 mg/L	1
81393	Total Kjeldahl Nitrogen	GRAB	N	EPA 351.2	08/09/2022 12:36	<0.184 mg/L	0.184	0.552 mg/L	1

Total Recoverable Metals by EPA 200 Series Methods

01002	Arsenic	GRAB	N	EPA 200.8	08/05/2022 13:23	<0.115 ug/L	0.115	0.500 ug/L	1
01042	Copper	GRAB	N	EPA 200.8	08/05/2022 13:23	<1.01 ug/L	1.01	4.00 ug/L	1
71900	Mercury	GRAB	N	EPA 200.8	08/11/2022 13:57	<0.0116 ug/L	0.0116	0.100 ug/L	1

Metals by EPA 6000/7000 Series Methods

01007	Barium	GRAB	N	EPA 6010/3010	08/05/2022 12:23	<0.0962 ug/L	0.0962	1.00 ug/L	1
01027	Cadmium	GRAB	N	EPA 6010/3010	08/05/2022 12:23	<0.217 ug/L	0.217	1.00 ug/L	1
01034	Chromium	GRAB	N	EPA 6010/3010	08/05/2022 12:23	<0.513 ug/L	0.513	5.00 ug/L	1
01045	Iron	GRAB	N	EPA 6010/3010	08/05/2022 12:23	<1.69 ug/L	1.69	10.0 ug/L	1
01051	Lead	GRAB	N	EPA 6010/3010	08/05/2022 12:23	<1.93 ug/L	1.93	10.0 ug/L	1
01147	Selenium	GRAB	N	EPA 6010/3010	08/05/2022 12:23	<4.39 ug/L	4.39	15.0 ug/L	1
00934	Sodium	GRAB	N	EPA 6010/3010	08/05/2022 12:23	<0.521 mg/L	0.521	2.00 mg/L	1



Central County Transfer Station MW's

Lab ID: 22H0190-04

Diameter (in): 2
 Depth to Water (ft): 14.69
 Top of Casing (ft): 22.27
 Total Depth (ft): 36.60

Sheen: No
 Color: Clear
 Odor: No
 Matrix: Groundwater

Parameter Monitoring Report

WACS Facility ID #: PBCC01 Sampling Date/Time: 08/04/22 10:00
 WACS Test Site ID#: PBCC01 Report Period: 2022Q3
 Well Name: CTMW-1S Well Purge (Y/N): Y
 GW Classification: G-II Well Type: Background Compliance (X)
 GW Elevation (NGVD): 7.58 Intermediate Other

Storet Code	Parameter	Sample Method Grab/Comp	Field Filter Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units		Dil Factor
							MDL	PQL	

Field Parameter (s) (See Notes and Definitions Page)

00402	Specific Conductance (field)	GRAB	N	FDEP SOP	08/04/2022 10:00	298 uS/cm @ 25°C		uS/cm @ 25°C	1
00406	pH (Field) at 25°C	GRAB	N	FDEP SOP	08/04/2022 10:00	7.65 S.U.		S.U.	1
	Temperature (field)	GRAB	N	FDEP SOP	08/04/2022 10:00	27.3 °C		°C	1
	Turbidity (Field)	GRAB	N	FDEP SOP	08/04/2022 10:00	0.38 NTU		NTU	1

Classical Chemistry Parameters

	TRPH	GRAB	N	EPA 1664	08/31/2022 14:00	<1.39 mg/L	1.39	4.18 mg/L	1
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Wet Chemistry

	Total Alkalinity	GRAB	N	EPA 310.2	08/11/2022 20:05	98.8 mg/L	2.49	7.46 mg/L	1
00151	Ammonia as N	GRAB	N	EPA 350.1	08/05/2022 15:32	0.0422 mg/L	0.00620	0.0200 mg/L	1
00940	Chloride	GRAB	N	EPA 300.0	08/05/2022 16:57	16.7 mg/L	0.126	0.500 mg/L	1
	Chemical Oxygen Demand	GRAB	N	EPA 410.4	08/08/2022 15:00	7.10 mg/L I	2.54	10.0 mg/L	1
	Color	GRAB	N	SM 2120B	08/04/2022 18:00	20/7.47 CU	5.00	15.0 CU	1
	MBAS as LAS, mol wt. 340	GRAB	N	SM5540C	08/05/2022 17:20	0.0890 mg/L I	0.0220	0.100 mg/L	1
71851	Nitrate as N	GRAB	N	EPA 300.0	08/05/2022 16:57	<0.00720 mg/L	0.00720	0.0750 mg/L	1
	Odor at 60°C	GRAB	N	SM 2150B	08/04/2022 18:15	<1.00 T.O.N.	1.00	3.00 T.O.N.	1
00945	Sulfate	GRAB	N	EPA 300.0	08/05/2022 16:57	9.17 mg/L	0.0953	0.500 mg/L	1
00134	Total Dissolved Solids	GRAB	N	SM 2540C	08/12/2022 18:53	160 mg/L	20.0	60.0 mg/L	2
81393	Total Kjeldahl Nitrogen	GRAB	N	EPA 351.2	08/09/2022 12:36	<0.184 mg/L	0.184	0.552 mg/L	1

Total Recoverable Metals by EPA 200 Series Methods

01002	Arsenic	GRAB	N	EPA 200.8	08/05/2022 13:27	2.89 ug/L	0.115	0.500 ug/L	1
01042	Copper	GRAB	N	EPA 200.8	08/05/2022 13:27	<1.01 ug/L	1.01	4.00 ug/L	1
71900	Mercury	GRAB	N	EPA 200.8	08/11/2022 13:59	<0.0116 ug/L	0.0116	0.100 ug/L	1

Metals by EPA 6000/7000 Series Methods

01007	Barium	GRAB	N	EPA 6010/3010	08/05/2022 12:25	7.70 ug/L	0.0962	1.00 ug/L	1
01027	Cadmium	GRAB	N	EPA 6010/3010	08/05/2022 12:25	<0.217 ug/L	0.217	1.00 ug/L	1
01034	Chromium	GRAB	N	EPA 6010/3010	08/05/2022 12:25	<0.513 ug/L	0.513	5.00 ug/L	1
01045	Iron	GRAB	N	EPA 6010/3010	08/05/2022 12:25	711 ug/L	1.69	10.0 ug/L	1
01051	Lead	GRAB	N	EPA 6010/3010	08/05/2022 12:25	<1.93 ug/L	1.93	10.0 ug/L	1
01147	Selenium	GRAB	N	EPA 6010/3010	08/05/2022 12:25	<4.39 ug/L	4.39	15.0 ug/L	1
00934	Sodium	GRAB	N	EPA 6010/3010	08/05/2022 12:25	7.90 mg/L	0.521	2.00 mg/L	1



Central County Transfer Station MW's

Lab ID: 22H0190-05

Diameter (in): 2
 Depth to Water (ft): 14.75
 Top of Casing (ft): 22.31
 Total Depth (ft): 69.30

Sheen: No
 Color: Slight Yellow
 Odor: No
 Matrix: Groundwater

Parameter Monitoring Report

WACS Facility ID #: PBCC01 Sampling Date/Time: 08/04/22 10:40
 WACS Test Site ID#: PBCC02 Report Period: 2022Q3
 Well Name: CTMW-11 Well Purge (Y/N): Y
 GW Classification: G-II Well Type: Background Compliance (X)
 GW Elevation (NGVD): 7.56 Intermediate Other

Storet Code	Parameter	Sample Method Grab/Comp	Field Filter Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units		Dil Factor
							MDL	PQL	

Field Parameter (s) (See Notes and Definitions Page)

00402	Specific Conductance (field)	GRAB	N	FDEP SOP	08/04/2022 10:40	511 uS/cm @ 25°C		uS/cm @ 25°C	1
00406	pH (Field) at 25°C	GRAB	N	FDEP SOP	08/04/2022 10:40	7.32 S.U.		S.U.	1
	Temperature (field)	GRAB	N	FDEP SOP	08/04/2022 10:40	27.7 °C		°C	1
	Turbidity (Field)	GRAB	N	FDEP SOP	08/04/2022 10:40	0.88 NTU		NTU	1

Classical Chemistry Parameters

	TRPH	GRAB	N	EPA 1664	08/31/2022 14:00	<1.39 mg/L	1.39	4.18 mg/L	1
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Wet Chemistry

	Total Alkalinity	GRAB	N	EPA 310.2	08/11/2022 20:05	205 mg/L	2.49	7.46 mg/L	1
00151	Ammonia as N	GRAB	N	EPA 350.1	08/05/2022 15:32	0.206 mg/L	0.00620	0.0200 mg/L	1
00940	Chloride	GRAB	N	EPA 300.0	08/05/2022 17:13	25.6 mg/L	0.126	0.500 mg/L	1
	Chemical Oxygen Demand	GRAB	N	EPA 410.4	08/08/2022 15:00	30.9 mg/L	2.54	10.0 mg/L	1
	Color	GRAB	N	SM 2120B	08/04/2022 18:00	70/7.28 CU	5.00	15.0 CU	1
	MBAS as LAS, mol wt. 340	GRAB	N	SM5540C	08/05/2022 17:20	0.0340 mg/L I	0.0220	0.100 mg/L	1
71851	Nitrate as N	GRAB	N	EPA 300.0	08/05/2022 17:13	<0.00720 mg/L	0.00720	0.0750 mg/L	1
	Odor at 60°C	GRAB	N	SM 2150B	08/04/2022 18:15	<1.00 T.O.N.	1.00	3.00 T.O.N.	1
00945	Sulfate	GRAB	N	EPA 300.0	08/05/2022 17:13	19.6 mg/L	0.0953	0.500 mg/L	1
00134	Total Dissolved Solids	GRAB	N	SM 2540C	08/12/2022 18:53	306 mg/L	20.0	60.0 mg/L	2
81393	Total Kjeldahl Nitrogen	GRAB	N	EPA 351.2	08/09/2022 12:36	0.515 mg/L I	0.184	0.552 mg/L	1

Total Recoverable Metals by EPA 200 Series Methods

01002	Arsenic	GRAB	N	EPA 200.8	08/05/2022 13:32	0.525 ug/L	0.115	0.500 ug/L	1
01042	Copper	GRAB	N	EPA 200.8	08/05/2022 13:32	<1.01 ug/L	1.01	4.00 ug/L	1
71900	Mercury	GRAB	N	EPA 200.8	08/11/2022 14:02	<0.0116 ug/L	0.0116	0.100 ug/L	1

Metals by EPA 6000/7000 Series Methods

01007	Barium	GRAB	N	EPA 6010/3010	08/05/2022 12:28	14.4 ug/L	0.0962	1.00 ug/L	1
01027	Cadmium	GRAB	N	EPA 6010/3010	08/05/2022 12:28	<0.217 ug/L	0.217	1.00 ug/L	1
01034	Chromium	GRAB	N	EPA 6010/3010	08/05/2022 12:28	1.80 ug/L I	0.513	5.00 ug/L	1
01045	Iron	GRAB	N	EPA 6010/3010	08/05/2022 15:51	1030 ug/L	8.45	50.0 ug/L	5
01051	Lead	GRAB	N	EPA 6010/3010	08/05/2022 12:28	<1.93 ug/L	1.93	10.0 ug/L	1
01147	Selenium	GRAB	N	EPA 6010/3010	08/05/2022 12:28	<4.39 ug/L	4.39	15.0 ug/L	1
00934	Sodium	GRAB	N	EPA 6010/3010	08/05/2022 12:28	15.5 mg/L	0.521	2.00 mg/L	1



Central County Transfer Station MW's

Lab ID: 22H0190-06

Diameter (in):

Sheen:

Depth to Water (ft):

Color:

Top of Casing (ft):

Odor:

Total Depth (ft):

Matrix: DI Water

Parameter Monitoring Report

WACS Facility ID #:

Sampling Date/Time: 08/04/22 08:45

WACS Test Site ID#:

Report Period: 2022Q3

Well Name: Metal Trip Blank 8422A

Well Purge (Y/N):

GW Classification:

Well Type: Background

Compliance

GW Elevation (NGVD):

Intermediate

Other (x)

Storet Code	Parameter	Sample Method Grab/Comp	Field Filter Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units		Dil Factor
							MDL	PQL	

Total Recoverable Metals by EPA 200 Series Methods

01002	Arsenic	GRAB		EPA 200.8	08/05/2022 13:36	<0.115 ug/L	0.115	0.500 ug/L	1
01042	Copper	GRAB		EPA 200.8	08/05/2022 13:36	<1.01 ug/L	1.01	4.00 ug/L	1
71900	Mercury	GRAB		EPA 200.8	08/11/2022 14:04	<0.0116 ug/L	0.0116	0.100 ug/L	1

Metals by EPA 6000/7000 Series Methods

01007	Barium	GRAB		EPA 6010/3010	08/05/2022 12:32	<0.0962 ug/L	0.0962	1.00 ug/L	1
01027	Cadmium	GRAB		EPA 6010/3010	08/05/2022 12:32	<0.217 ug/L	0.217	1.00 ug/L	1
01034	Chromium	GRAB		EPA 6010/3010	08/05/2022 12:32	<0.513 ug/L	0.513	5.00 ug/L	1
01045	Iron	GRAB		EPA 6010/3010	08/05/2022 12:32	<1.69 ug/L	1.69	10.0 ug/L	1
01051	Lead	GRAB		EPA 6010/3010	08/05/2022 12:32	<1.93 ug/L	1.93	10.0 ug/L	1
01147	Selenium	GRAB		EPA 6010/3010	08/05/2022 12:32	<4.39 ug/L	4.39	15.0 ug/L	1
00934	Sodium	GRAB		EPA 6010/3010	08/05/2022 12:32	<0.521 mg/L	0.521	2.00 mg/L	1



Central County Transfer Station MW's

Lab ID: 22H0190-07

Diameter (in):

Sheen:

Depth to Water (ft):

Color:

Top of Casing (ft):

Odor:

Total Depth (ft):

Matrix: DI Water

Parameter Monitoring Report

WACS Facility ID #:

Sampling Date/Time: 08/04/22 10:00

WACS Test Site ID#:

Report Period: 2022Q3

Well Name: Metal Trip Blank 8422B

Well Purge (Y/N):

GW Classification:

Well Type: Background

Compliance

GW Elevation (NGVD):

Intermediate

Other (x)

Storet Code	Parameter	Sample Method Grab/Comp	Field Filter Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units		Dil Factor
							MDL	PQL	

Total Recoverable Metals by EPA 200 Series Methods

01002	Arsenic	GRAB		EPA 200.8	08/05/2022 13:41	<0.115 ug/L	0.115	0.500 ug/L	1
01042	Copper	GRAB		EPA 200.8	08/05/2022 13:41	<1.01 ug/L	1.01	4.00 ug/L	1
71900	Mercury	GRAB		EPA 200.8	08/11/2022 14:06	<0.0116 ug/L	0.0116	0.100 ug/L	1

Metals by EPA 6000/7000 Series Methods

01007	Barium	GRAB		EPA 6010/3010	08/05/2022 12:30	<0.0962 ug/L	0.0962	1.00 ug/L	1
01027	Cadmium	GRAB		EPA 6010/3010	08/05/2022 12:30	<0.217 ug/L	0.217	1.00 ug/L	1
01034	Chromium	GRAB		EPA 6010/3010	08/05/2022 12:30	<0.513 ug/L	0.513	5.00 ug/L	1
01045	Iron	GRAB		EPA 6010/3010	08/05/2022 12:30	<1.69 ug/L	1.69	10.0 ug/L	1
01051	Lead	GRAB		EPA 6010/3010	08/05/2022 12:30	<1.93 ug/L	1.93	10.0 ug/L	1
01147	Selenium	GRAB		EPA 6010/3010	08/05/2022 12:30	<4.39 ug/L	4.39	15.0 ug/L	1
00934	Sodium	GRAB		EPA 6010/3010	08/05/2022 12:30	<0.521 mg/L	0.521	2.00 mg/L	1

Notes and Definitions

U	Indicated that the compound was analyzed for but not detected. This shall be used to indicate that the specific component was not detected. The value associated with the qualifier shall be the laboratory method detection limit.
Q	Sample held beyond accepted holding time.
J3	The matrix spike recovery outside method acceptance limits indicating matrix interference.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the detection limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
N.O.O.	No Odor Observed
REP	Field parameter measured by client
V	Indicated that the analyte was detected in both the sample and the associated method blank.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
Z	Too many colonies were present for accurate counting.
SUB	Work performed by outside (subcontracted) labs denoted by SUB in analyst field.

QC=Qualifier Codes as defined by DEP 62-160

Unless indicated, soil results are reported on actual (wet) weight basis.

The Color SM2120B method is reported as (Color / pH)

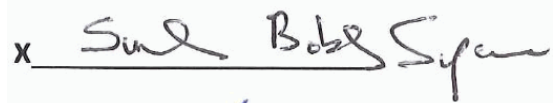
Legionella analyzed under CDC accreditation program

Dilution factors ≥ 1000 are abbreviated using k=1000 and M=1000000

Field parameters are not NELAP accredited.

Results relate only to this sample.

Suresh (Bobby) Supan - CSM



Authorized CSM Signature (954) 978-6400
Florida-Spectrum Environmental Services, Inc.
Certification# E86006

All NELAP certified analysis are performed in accordance with Chapter 64E-1 Florida Administrative code, which has been determined to be equivalent to NELAC standards. Analysis certified by programs other than NELAP are designated with a "-".

CENTRAL COUNTY TRANSFER STATION - MONITORING WELLS

SWA PERMIT # C.O.A.F.5.E I & II

8 Monitoring Wells: CTMW-1S, CTMW-1I, CTMW-2S, CTMW-2I,
 CTMW-3S, CTMW-3I, CTMW-4S, CTMW-4I

1 Field Duplicate (CTSFD)

1 Field Blank (CTSFB)

Parameters (Matrix: Ground Water)

A. Metals

Arsenic	Chromium	Lead	Sodium
Barium	Copper	Mercury	Selenium
Cadmium	Iron		

B. Indicator Parameters

Total Ammonia	Foaming Agents (MBAS)	Nitrate
Total Alkalinity	Sulfide	Odor
COD	TKN	Sulfate
Color	TDS	
Chloride	TRPH (Total Recoverable Petroleum Hydrocarbons)	

C. Field Parameters

Conductivity (field)	pH (field)
Temperature (field)	Turbidity (field)

D. Well Information (field)

Well Diameter	Well Depth
Well Casing Elevation	Depth to Water
Water Table Elevation	Volume Evacuated

Page 2 of 2
COC # 08315
Dated: 08/04/22

Solid Waste Authority of Palm Beach County GROUNDWATER SAMPLING LOG

SITE NAME: Central County Transfer Station		WACS Facility ID: PBCC01 WACS Test Site ID: PBCC03	DATE: 08/04/2022
WELL NO: CTMW- 2S	Well Type: Compliance	Well Location: West of retention Pond	SITE 1810 Lantana Road, LOCATION: Lantana, FI

PURGING DATA

Top of Casing Elevation(ft): 22.15	Static Depth To Water (ft): 14.49	Water Table Elevation NGVD (ft): 7.66	Column Height (ft): 22.82	Total Well Depth (ft): 37.31'
WELLDIAMETER (in): 2" PVC	1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 3 x 4			
WELL CAPACITY (gal/ft): 0.16	= (37.31 - 14.49 = 22.82) X 0.16 = 3.65 GALLONS 4			

PURGE METHOD: Redi-flo	PURGE INITIATED AT: 8:25	PURGE ENDED AT: 8:37	TOTAL VOL. PURGED (gal): 12
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WELL VOLS. Purged	Volume Purged (gal)	CUMUL. VOL. Purged (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
1	4	4	1.0	14.60	7.52	26.4	408	0.31	6.35
1	4	8		14.60	7.57	26.4	411	0.29	5.49
1	4	12		14.60	7.58	26.4	411	0.25	3.51

FINAL FIELD VALUES →	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
	7.58	26.4	411	NOT REQUIRED	3.51

Color: Slight yellow	Odor: NO	Sheen: NO	Comments: Metal Trip Blank 8422A	Cooler # 027
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WELL CAPACITY (Gallons per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLING METHOD(S): Redi-flo Pump	SAMPLING INITIATED AT: 8:45	SAMPLING ENDED AT: 8:50	Weather: Sunny + Hot
FIELD DECONTAMINATION: No	FIELD-FILTERED: No	DUPLICATE: Y (N)	
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	
NO.	MATERIAL CODE	VOLUME	INTENDED ANALYSIS AND/OR METHOD
1	HDPE		Metals
2	HDPE		Ammonia
3	HDPE		Sulfide
	AG		TRPH, OIL AND GREASE

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)	
SAMPLED BY (PRINT) Antonio Richards	SAMPLER(S) SIGNATURE(S) <i>Manny Alvarez</i>

Solid Waste Authority of Palm Beach County GROUNDWATER SAMPLING LOG

SITE NAME: Central County Transfer Station		WACS Facility ID: PBCC01 WACS Test Site ID: PBCC04	DATE: 08/04/2022
WELL NO: CTMW-2I	Well Type: Compliance	Well Location: West of retention Pond	SITE LOCATION: 1810 Lantana Road, Lantana, FI

PURGING DATA

Top of Casing Elevation(ft): 22.10	Static Depth To Water (ft): 14.45	Water Table Elevation NGVD (ft): 7.65	Column Height (ft): 58.2	Total Well Depth (ft): 72.65'
WELLDIAMETER (in): 2" PVC	1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 3 X 10			
WELL CAPACITY (gal/ft): 0.16	= (72.65 - 14.45 = 58.2) X 0.16 = 9.31 GALLONS 10			

PURGE METHOD: Redi-flo	PURGE INITIATED AT: 8:55	PURGE ENDED AT: 9:16	TOTAL VOL. PURGED (gal): 30
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WELL VOLS. Purged	Volume Purged (gal)	CUMUL. VOL. Purged (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
1	10	10	1.15	14.70	7.60	26.2	415	0.23	0.37
1	10	20		14.70	7.60	26.2	417	0.09	0.15
1	10	30		14.70	7.60	26.2	417	0.15	0.17

FINAL FIELD VALUES →	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
	7.60	26.2	417	NOT REQUIRED	0.17

Color: Clear	Odor: NO	Sheen: NO	Comments: Metal Trip Blank 8422A	Cooler # 027
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WELL CAPACITY (Gallons per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLING METHOD(S): Redi-flo Pump	SAMPLING INITIATED AT: 9:20	SAMPLING ENDED AT: 9:25	Weather: Sunny + HOT			
FIELD DECONTAMINATION: No	FIELD-FILTERED: No	DUPLICATE: Y (N)				
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD		
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED		TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH
1	HDPE		HNO3	None	22.0	Metals
2	HDPE		H2SO4	None	22.0	Ammonia
3	HDPE		ZN ACETATE	None	79.0	Sulfide
4	AG		H2SO4	None	22.0	TRPH, OIL AND GREASE

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

SAMPLED BY (PRINT) Antonio Richards	SAMPLER(S) SIGNATURE(S) Manny Alvarez
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Solid Waste Authority of Palm Beach County Field Blank Data Sheet

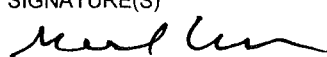

SITE NAME: Central County Transfer Station	WACS Facility ID: PBCC01	DATE: 08/04/2022
Sample name: CTSF Blank 080422	WACS Test Site ID: N/A	SAMPLE TIME: 9:40
Matrix: DI Water	Site Location: 1810 Lantana Road - Lantana, Fl	

Description: Field blanks monitor the on-site sampling environment, sample container cleaning, the suitability of sample preservatives and analyte-free water, and sample transport and storage conditions for water samples. Field Blanks are collected in the field during the middle to end of a sampling event or if any unusual activities are observed that may affect sampling activities. Field blanks are prepared by pouring analyte-free water into sample containers for each parameter set to be collected.		
Classification of Ground Water: N/A	Weather Conditions: Sunny + Hot	
Sample Method: GRAB	Stainless Steel Submersible pump #: 	DI Water Lot # 4/11/22

Field Blank - Field Data

FIELD VALUES →	Other	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L) NOT REQUIRED	TURBIDITY (NTUs)
		6.41	25.0	1.170		0.09
Color: Clear	Odor: NO	Sheen: NO	Comments: Metal Trip Blank 8422B			Cooler # 029

SAMPLING DATA

FIELD DECONTAMINATION: No			FIELD-FILTERED: No			DUPLICATE: Y <input checked="" type="radio"/> N	
SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH		
1	HDPE	1- LITER	HNO3	None	2.0	Metals	
2	HDPE		H2SO4	None	2.0	Ammonia	
3	AG	1- LITER	H2SO4	None	2.0	TRPH & O/G	
4	HDPE		ZN ACETATE	None	7.0	Sulfide	
MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)							
SAMPLED BY (PRINT) ANTONIO RICHARD				SAMPLER(S) SIGNATURE(S) 			
							

Solid Waste Authority of Palm Beach County GROUNDWATER SAMPLING LOG

SITE NAME: Central County Transfer Station		WACS Facility ID: PBCC01 WACS Test Site ID: PBCC01	DATE: 08/04/2022
WELL NO: CTMW-1S	Well Type: Compliance	Well Location: North of retention Pond	SITE 1810 Lantana Road, LOCATION: Lantana, FL

PURGING DATA

Top of Casing Elevation(ft): 22.27	Static Depth To Water (ft): 14.69	Water Table Elevation NGVD (ft): 7.58	Column Height (ft): 21.91	Total Well Depth (ft): 36.60'					
WELLDIAMETER (in): 2" PVC	1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 3 x 4								
WELL CAPACITY (gal/ft): 0.16	= (36.60 - 14.69 = 21.91) X 0.16 = 3.50 GALLONS 4								
PURGE METHOD: Redi-flo		PURGE INITIATED AT: 8:45	PURGE ENDED AT: 9:57	TOTAL VOL. PURGED (gal): 12					
WELL VOLS. Purged	Volume Purged (gal)	CUMUL. VOL. Purged (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
1	4	4	1.0	14.81	7.56	27.2	277	0.80	0.48
1	4	8		14.85	7.62	27.3	296	0.24	0.51
1	4	12		14.80	7.65	27.3	298	0.18	0.38
FINAL FIELD VALUES →					pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
					7.65	27.3	298	NOT REQUIRED	0.38
Color: clear	Odor: NO	Sheen: NO	Comments: Metal Trip Blank 8422B			Cooler #: 029			

WELL CAPACITY (Gallons per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLING METHOD(S): Redi-flo Pump	SAMPLING INITIATED AT: 10:00	SAMPLING ENDED AT: 10:05	Weather: Sunny + Hot			
FIELD DECONTAMINATION: No	FIELD-FILTERED: No	DUPLICATE: Y <input checked="" type="radio"/> N				
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD		
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED		TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH
1	HDPE		HNO3	None	22.0	Metals
2	HDPE		H2SO4	None	22.0	Ammonia
3	HDPE		ZN ACETATE	None	79.0	Sulfide
4	AG		H2SO4	None	22.0	TRPH, OIL AND GREASE
MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)						
SAMPLED BY (PRINT) Antonio Richards			SAMPLER(S) SIGNATURE(S)			
Manny Alvarez			<i>[Signature]</i>			

Solid Waste Authority of Palm Beach County GROUNDWATER SAMPLING LOG

SITE NAME: Central County Transfer Station		WACS Facility ID: PBCC01 WACS Test Site ID: PBCC02	DATE: 08/04/2022
WELL NO: CTMW-1I	Well Type: Compliance	Well Location: North of retention Pond	SITE 1810 Lantana Road, LOCATION: Lantana, FI

PURGING DATA

Top of Casing Elevation(ft): 22.31	Static Depth To Water (ft): 14.75	Water Table Elevation NGVD (ft): 7.56	Column Height (ft): 54.55	Total Well Depth (ft): 69.30'
WELLDIAMETER (in): 2" PVC	1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 3 X 9			
WELL CAPACITY (gal/ft): 0.16	= (69.30 - 14.75 = 54.55) X 0.16 = 8.72 GALLONS 9			

PURGE METHOD: Redi-flo	PURGE INITIATED AT: 10:15	PURGE ENDED AT: 10:36	TOTAL VOL. PURGED (gal): 27
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WELL VOLS. Purged	Volume Purged (gal)	CUMUL. VOL. Purged (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
1	9	9	1.28	15.08	7.28	27.8	515	0.49	2.76
1	9	18		15.08	7.32	27.7	511	0.20	1.69
1	9	27		15.08	7.32	27.7	511	0.17	0.88

FINAL FIELD VALUES →	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
	7.32	27.7	511	NOT REQUIRED	0.88

Color: Slight Yellow	Odor: NO	Sheen: NO	Comments: Metal Trip Blank 8422B	Cooler #: 029
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WELL CAPACITY (Gallons per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLING METHOD(S): Redi-flo Pump	SAMPLING INITIATED AT: 10:40	SAMPLING ENDED AT: 10:45	Weather: Sunny + Hot
FIELD DECONTAMINATION: No	FIELD-FILTERED: No	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	
1	HDPE		HNO3	None	7.0	Metals
2	HDPE		H2SO4	None	7.0	Ammonia
3	HDPE		ZN ACETATE	None	7.0	Sulfide
	AG		H2SO4	None	7.0	TRPH, OIL AND GREASE

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

SAMPLED BY (PRINT) ANTONIO RICHARDS Manny Alvarez	SAMPLER(S) SIGNATURE(S) [Signature]
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