

Pasco County Utilities Services Branch Environmental Laboratory 8864 Government Dr. New Port Richey, FI 34654

20 January 2021

Waste Management Section Florida Department of Environmental Protection 13051 N. Telecom Pkwy. Temple Terrace, FL 33637

RE: Pasco County Resource Recovery WACs FAC ID: 45799 Semester II, 2020 – Resample Results

To Whom It May Concern:

This submittal contains the analytical results of nitrate analysis for resamples taken at the Pasco County Resource Recovery site. These resamples were taken as a result of samples being analyzed out of hold time for nitrates as defined in the submittal for the October, 2020 sampling event.

Phone: (727) 847-8902

Fax: (727) 847-8112

DHRS No: E44123

If you have any questions please feel free to contact me.

Sincerely,

Candia E. Mulhern Laboratory Manager

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cc: Charles Cullen, PI Engineering Director Justin Roessler, Solid Waste Assistant Director



Florida Department of Environmental Protection

Bob Martinez Center 2600 Blair Stone Road Tallahassee, Florida 32399-2400 DEP Form #: 62-701.900(31), F.A.C

Form Title: Water Quality Monitoring Certification

Effective Date: January 6, 2010

Incorporated in Rule 62-701.510(9), F.A.C.

WATER QUALITY MONITORING CERTIFICATION

PA	RT I GENERAL INFORMATION		
(1)	Facility Name PASCO COUNTY RESOURCE RECOVERY	/	
	Address14230 HAYS RD.		
	City SPRING HILL	Zip <u>34610</u>	County PASCO
	Telephone Number (727) 856-0119		
(2)	WACS Facility ID 45799		
(3)	DEP Permit Number		
(4)	Authorized Representative's Name Candia E. Mulhern	Title	Laboratory Manager
	Address 8864 Government Dr.		
	City New Port Richey	Zip _34654	County PASCO
	Telephone Number (727) 847-8902		
	Email address (if available) _cmulhern@pascocountyfl.net		
	CERTIFICAT	ΓΙΟΝ	
the	ertify under penalty of law that I have personally examined ument and all attachments and that, based on my inquiry of information, I believe that the information is true, accurate alties for submission of false information including the possibile.	f those individuals immed , and complete. I am a	diately responsible for obtaining ware that there are significant
01/2	Candia E. Mulhern	Digitally signed I	oy Candia E. Mulhern 0 09:42:07 -05'00'
	(Date) (Owner or Aut	horized Representative's	
PAR	RT II QUALITY ASSURANCE REQUIREMENTS		
Sam	npling Organization Pasco County Utilities Environmental I	_aboratory	
Anal	lytical Lab NELAC / HRS Certification # E44123		
Lab	Name Pasco County Utilities Environmental Laboratory		
Addı	ress 8864 Government Dr.		
Pho	ne Number (727) 847-8902		
Ema	ail address (if available) <u>cchildress@pascocountyfl.net</u>		



20 January 2021

Pasco County Utilities Services Branch Environmental Laboratory 8864 Government Dr. New Port Richey, FI 34654 Office (727) 847-8902 Fax (727) 847-8112

DHRS #E44123

Case Narrative

CLIENT: Pasco County Solid Waste

Pasco County Resource Recovery

Facility #: 45799

Date Sampled: 09 December 2020

I. SAMPLING

Laboratory field staff began sampling the groundwater monitoring wells at the Pasco County Resource Recovery Facility for nitrate analysis on December 9th, 2020. These wells were resampled due to exceeded hold times for nitrate analysis in the October, 2020 sampling event. No unusual environmental conditions were noted during this sampling period.

II. SAMPLE RECEIVING/CUSTODY

The samples were delivered by laboratory field personnel to the Pasco County Environmental Laboratory, received on wet ice, and the temperature of the samples maintained at \leq 6°C. Samples were processed by the Sample Custody section of the laboratory. The nitrate samples were retained at the Pasco County Environmental Laboratory for analysis. There were no significant logistics or quality problems unless noted below.

III. ANALYTICAL DATA

Nitrate was determined at the Pasco County Environmental Laboratory . No analytical anomalies were noted during analysis.

IV. QUALITY CONTROL

There were no significant quality control problems unless noted in the attached QC reports. The stabilization parameters and sampling logs have been updated to ensure that the appropriate information is included in the logs.

V. CONCLUSIONS AND RECOMMENDATIONS

The resampled wells all had Nitrate values <1.0 mg/L and were analyzed within hold time. This is consistent with historical data for this site. No additional sampling or analysis is required at this time.

Candia E. Mulhern
Laboratory Manager
cmulhern@pascocountyfl.net



PASCO COUNTY RESOURCE RECOVERY EXCEEDED ANALYTES Semester II, 2020 - Resamples

WELL#	SAMPLE DATE	ANALYTE	RESULT	UNITS	REANALYZED	RESULT	UNITS
4MW-6	11-Dec-20	DO	6.08	mg/L	No		



8864 Government Drive

New Port Richey, FL 34654

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Contacts: Annamarie Cangialosi, Administrative Secretary

Chris Childress, QA/QC Officer

CLIENT/SAMPLE INFORMATION

Hours: Mon-Fri 8am-5pm

Report Date: 12/21/2020

Resource Recovery

Class I Landfill

Hays Road

Shady Hills, Fl

John Power

Sample Number:

AD03237

Sample Method:

SP

12/17/2020

Date Sampled: Time Sampled:

16:16

Sampled By:

GTORREY

Sample ID:

4MW27D @ RESREC

Sample Matrix:

AQUEOUS-Groundwater

Date Received:

12/17/2020

Time Received:

16:45

Received By:

TS

Delivered By:

GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Nitrate (N)	EPA 300.0	12/18/2020	11:21	EC	0.008	I,J	mg/L	0.002
Color by Observation	Observation	12/17/2020	16:16	GST	CLEAR	Ď	ObsColor	. 0
Turbidity Field	FDEP FT 1600	12/17/2020	16:16	GST	13.2	D	NTU	0.00
Dissolved Oxygen Field	FDEP FT 1500	12/17/2020	16:16	GST	8.03	D	mg/L	0.01
Conductivity Field	FDEP FT 1200	12/17/2020	16:16	GST	276	D	umhos/cr	n 1
Temperature Field	FDEP FT 1400	12/17/2020	16:16	GST	22.75	D	Deg C	0.00
pH Field	FDEP FT 1100	12/17/2020	16:16	GST	7.44	D	Std Units	0.10
Water Level (NGVD)	DEP-SOP	12/17/2020	16:16	GST	32.43	D	Ft.	0

Analysis Comments

NO3IC: J - Sample DUP RPD >10%.

U = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

Candia E. Mulhern, Laboratory Manager

Cantro E. Mulher

This Document Meets All the Requirements of the 2016 TNI Standards

State Laboratory ID: E44123 EPA Lab Code: FL00137

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New Port Richey, FL 34654

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Chris Childress, QA/QC Officer

CLIENT/SAMPLE INFORMATION

Hours: Mon-Fri 8am-5pm

Report Date: 12/29/2020

West Pasco Landfill

Hays Road Shady Hills, Fl

John Power

Sample Number:

AD03351

Sample Method:

SP

Date Sampled: Time Sampled:

12/21/2020

13:42

Sampled By:

GTORREY

Sample ID:

Cample Matrix:

4MW22

Sample Matrix:

AQUEOUS-Groundwater 12/21/2020

Date Received: Time Received:

14:42

Received By:

TA

Delivered By:

GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
pH Field	FDEP FT 1100	12/21/2020	13:42	GST	6.99	D	Std Units	0.10
Nitrate (N)	EPA 300.0	12/22/2020	16:28	EC	0.05		mg/L	0.002
Color by Observation	Observation	12/21/2020	13:42	GST	CLEAR	D	ObsColor	. 0
Turbidity Field	FDEP FT 1600	12/21/2020	13:42	GST	10.1	D	NTU	0.00
Dissolved Oxygen Field	FDEP FT 1500	12/21/2020	13:42	GST	2.93	D	mg/L	0.01
Temperature Field	FDEP FT 1400	12/21/2020	13:42	GST	28.59	D	Deg C	0.00
Water Level (NGVD)	DEP-SOP	12/21/2020	13:42	GST	28.98	D	Ft.	0
Conductivity Field	FDEP FT 1200	12/21/2020	13:42	GST	463	D	umhos/cr	n 1

Analysis Comments

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Candia E. Mulhern, Laboratory Manager

Candia E. Mulher

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Chris Childress, QA/QC Officer

CLIENT/SAMPLE INFORMATION

Hours: Mon-Fri 8am-5pm

Report Date: 12/29/2020

Resource Recovery

Class I Landfill

Hays Road

Shady Hills, FI

John Power

Sample Number:

AD03378

Sample Method:

SP

Date Sampled:

12/22/2020

Time Sampled:

08:30

Sampled By:

GTORREY

Sample ID:

:

2MW27D @ RESREC

Sample Matrix:

AQUEOUS-Groundwater

Date Received: Time Received:

12/22/2020

Received By:

12:30 TA

Delivered By:

GT

REPORT OF ANALYSES

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Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Water Level (NGVD)	DEP-SOP	12/22/2020	08:30	GST	32.21	D	Ft.	0
Dissolved Oxygen Field	FDEP FT 1500	12/22/2020	08:30	GST	2.69	D	mg/L	0.01
pH Field	FDEP FT 1100	12/22/2020	08:30	GST	7.12	D	Std Units	0.10
Nitrate (N)	EPA 300.0	12/22/2020	16:28	EC	1.56		mg/L	0.02
Turbidity Field	FDEP FT 1600	12/22/2020	08:30	GST	11.9	D	NTU	0.00
Color by Observation	Observation	12/22/2020	08:30	GST	CLEAR	D	ObsColo	r 0
Temperature Field	FDEP FT 1400	12/22/2020	08:30	GST	23.75	D	Deg C	0.00
Conductivity Field	FDEP FT 1200	12/22/2020	08:30	GST	689	D	umhos/cr	m 1

Analysis Comments

Candia E. Mulhern, Laboratory Manager

Candio E. Mulher

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8864 Government Drive

New Port Richev, FL 34654 Phone: (727) 847-8902 Fax: (727) 847-8112

Contacts: Annamarie Cangialosi, Administrative Secretary

Chris Childress, QA/QC Officer

CLIENT/SAMPLE INFORMATION

Hours: Mon-Fri 8am-5pm

2MW-24S @ RESREC

AQUEOUS-Groundwater

Resource Recovery Report Date: 12/29/2020

Class I Landfill

Hays Road

Shady Hills, FI

John Power

Sample Number:

AD03379

SP

Sample Method:

12/22/2020

Date Sampled: Time Sampled:

09:03

Sampled By:

GTORREY

Sample ID:

Sample Matrix:

Date Received:

12/22/2020 12:30

Time Received:

Received By:

TA

Delivered By: GT

REPORT OF ANALYSES

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Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Temperature Field	FDEP FT 1400	12/22/2020	09:03	GST	23.96	D	Deg C	0.00
pH Field	FDEP FT 1100	12/22/2020	09:03	GST	6.36	D	Std Units	0.10
Conductivity Field	FDEP FT 1200	12/22/2020	09:03	GST	372	D	umhos/cr	n 1
Dissolved Oxygen Field	FDEP FT 1500	12/22/2020	09:03	GST	4.82	D	mg/L	0.01
Turbidity Field	FDEP FT 1600	12/22/2020	09:03	GST	40.2	D	NTU	0.00
Color by Observation	Observation	12/22/2020	09:03	GST	CLOUDY	D	ObsColor	. 0
Nitrate (N)	EPA 300.0	12/22/2020	16:28	EC	2.50		mg/L	0.02
Water Level (NGVD)	DEP-SOP	12/22/2020	09:03	GST	28.06	D	Ft.	0

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CLIENT/SAMPLE INFORMATION

Hours: Mon-Fri 8am-5pm

2MW-24D @ RESREC

AQUEOUS-Groundwater

Resource Recovery

Class I Landfill

Hays Road

Shady Hills, FI

Report Date: 12/29/2020

John Power

Sample Number:

AD03380

SP

Sample Method: Date Sampled:

REPORT OF ANALYSES

12/22/2020

Time Sampled: Sampled By:

09:45 **GTORREY** Sample ID:

Sample Matrix:

Date Received:

Time Received:

Received By:

12/22/2020 12:30

TA

Delivered By: GT

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Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Water Level (NGVD)	DEP-SOP	12/22/2020	09:45	GST	30.01	Ð	Ft.	0
Nitrate (N)	EPA 300.0	12/22/2020	16:28	EC	1.29		mg/L	0.02
Color by Observation	Observation	12/22/2020	09:45	GST	CLEAR	D	ObsColo	r 0
Turbidity Field	FDEP FT 1600	12/22/2020	09:45	GST	6.6	D	NTU	0.00
Dissolved Oxygen Field	FDEP FT 1500	12/22/2020	09:45	GST	2.73	D	mg/L	0.01
Conductivity Field	FDEP FT 1200	12/22/2020	09:45	GST	522	D	umhos/cr	n 1
Temperature Field	FDEP FT 1400	12/22/2020	09:45	GST	24.40	D	Deg C	0.00
pH Field	FDEP FT 1100	12/22/2020	09:45	GST	7.15	D	Std Units	0.10

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Chris Childress, QA/QC Officer

CLIENT/SAMPLE INFORMATION

West Pasco Landfill

Hays Road Shady Hills, FI Hours: Mon-Fri 8am-5pm

Report Date: 12/29/2020

John Power

Sample Number: Sample Method:

AD03350

SP

Date Sampled:

12/21/2020

Time Sampled: Sampled By:

13:01 GTORREY Sample ID:

Sample ID. Sample Matriv

Sample Matrix:

Date Received: Time Received:

Received By:

Delivered By:

4MW21 @ RES REC

AQUEOUS-Groundwater

12/21/2020 14:42

TA

GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit I	Detection Limit
Color by Observation	Observation	12/21/2020	13:01	GST	CLEAR	D	ObsColor	0
Turbidity Field	FDEP FT 1600	12/21/2020	13:01	GST	11.8	Ð	NTU	0.00
Dissolved Oxygen Field	FDEP FT 1500	12/21/2020	13:01	GST	6.55	D	mg/L	0.01
Conductivity Field	FDEP FT 1200	12/21/2020	13:01	GST	144	D	umhos/cm	n 1
Temperature Field	FDEP FT 1400	12/21/2020	13:01	GST	24.84	D	Deg C	0.00
pH Field	FDEP FT 1100	12/21/2020	13:01	GST	5.43	D	Std Units	0.10
Water Level (NGVD)	DEP-SOP	12/21/2020	13:01	GST	30.31	D	Ft.	0
Nitrate (N)	EPA 300.0	12/22/2020	16:28	EC	6.24		mg/L	0.05

Analysis Comments

Candio E. Muhe-

Candia E. Mulhern, Laboratory Manager

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Contacts: Annamarie Cangialosi, Administrative Secretary

Chris Childress, QA/QC Officer

CLIENT/SAMPLE INFORMATION

Hours: Mon-Fri 8am-5pm

Report Date: 12/29/2020

Resource Recovery

Class I Landfill

Hays Road

Shady Hills, FI

John Power

Sample Number:

AD03348

Sample Method:

SP

Date Sampled:

12/21/2020

Time Sampled: Sampled By:

11:02 **GTORREY** Sample ID:

Sample Matrix:

4MW2 @ RESREC

AQUEOUS-Groundwater

Date Received:

12/21/2020

Time Received:

14:42 TA

Received By: Delivered By:

GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Dissolved Oxygen Field	FDEP FT 1500	12/21/2020	11:02	GST	3.13	D	mg/L	0.01
Water Level (NGVD)	DEP-SOP	12/21/2020	11:02	GST	34.56	D	Ft.	0
pH Field	FDEP FT 1100	12/21/2020	11:02	GST	7.56	D	Std Units	0.10
Conductivity Field	FDEP FT 1200	12/21/2020	11:02	GST	217	D	umhos/cr	n 1
Turbidity Field	FDEP FT 1600	12/21/2020	11:02	GST	5.6	D	NTU	0.00
Color by Observation	Observation	12/21/2020	11:02	GST	CLEAR	D	ObsColor	. 0
Nitrate (N)	EPA 300.0	12/22/2020	16:28	EC	0.99		mg/L	0.01
Temperature Field	FDEP FT 1400	12/21/2020	11:02	GST	22.19	D	Deg C	0.00

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Candia E. Mulhern, Laboratory Manager

Candia Z. Mulhe

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CLIENT/SAMPLE INFORMATION

West Pasco Landfill

Hays Road

Shady Hills, FI

Hours: Mon-Fri 8am-5pm

Report Date: 12/29/2020

John Power

Sample Number:

AD03349

Sample Method:

SP

Date Sampled:

12/21/2020

Time Sampled:

12:26

Sampled By:

GTORREY

Sample ID:

4MW23 @ RES REC

Sample Matrix:

AQUEOUS-Groundwater

Date Received:

12/21/2020 14:42

Time Received: Received By:

TA

Delivered By:

GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Turbidity Field	FDEP FT 1600	12/21/2020	12:26	GST	12.9	D	NTU	0.00
Color by Observation	Observation	12/21/2020	12:26	GST	CLEAR	D	ObsColor	. 0
Water Level (NGVD)	DEP-SOP	12/21/2020	12:26	GST	28.37	D	Ft.	0
Dissolved Oxygen Field	FDEP FT 1500	12/21/2020	12:26	GST	2.76	D	mg/L	0.01
Nitrate (N)	EPA 300.0	12/22/2020	16:28	EC	0.013	1	mg/L	0.002
Conductivity Field	FDEP FT 1200	12/21/2020	12:26	GST	550	D	umhos/cr	n 1
Temperature Field	FDEP FT 1400	12/21/2020	12:26	GST	23.28	D	Deg C	0.00
pH Field	FDEP FT 1100	12/21/2020	12:26	GST	7.27	D	Std Units	0.10

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Candia E. Mulhern, Laboratory Manager

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State Laboratory ID: E44123 EPA Lab Code: FL00137

2020 QTR IV REDO NO3ic.xlsx

		Well Dat	ta					Fi	eld Analysis				Labworks Lab Analysis							
WELL I.D.	DATE	SAMPLE TIME 24hr.	T.O.P. ELEV. (ft)	STATIC WATER LEVEL (ft)	N.G.V.D (ft)	pH (S.U.)	TEMP (°C)	COND (µS/cm)	D.O. (mg/L)	TURB (NTU)	Color (Observed)	Analyst	LIMS ID	CL⁻(mg/L)	TDS (mg/L)	NH3-N (mg/L)	NO3 (mg/L)	Fe (μg/L)	Hg (μg/L)	Na+ (μg/L)
2MW1			49.95									GT								
2MW2			56.41									GT								
2MW3A			50.01									GT								
2MW4			54.77									GT								
2MW5			49.17									GT								
2MW6			56.11									GT								
2MW7			52.75									GT		/		/				
2MW8			51.97									GT		\backslash		/		/		
2MW9			52.29									GT		/				/		
2MW10			52.63									GT								
2MW13D			52.39									GT								
2MW15AD	16-Dec	956	54.71	21.14	22.86	7.30	24.30	298	3.04	11.3	clear	GT	ad03202							
2MW17S			53.42									GT								
2MW18D	16-Dec	1035	52.75	25.5	27.29	7.02	24.07	465	2.25	2.8	clear	GT	ad03203					/		
2MW19D	16-Dec	1122	52.25	24.27	27.98	7.06	24.87	438	1.97	6.2	clear	GT	ad03204							
2MW24D	22-Dec	945	50.55	20.54	30.01	7.15	24.40	2.73	6.60	6.6	clear	GT	3380							
2MW24S	12//22/2	903	50.37	22.31	28.06	6.36	23.96	372	4.82	40.2	cloudy	GT	3379							
2MW25D			47.87									GT								
2MW25S			47.84									GT								
2MW26D			54.13									GT								
2MW26S			54.16									GT		//				//		
2MW27D	22-Dec	830	50.32	18.11	32.21	7.12	23.75	689	2.69	11.9	clear	GT	3378	//				//		
2MW27S			50.44									GT						//		
4MW1			50.34									GT				//		//		
	21-Dec				34.56	7.56	22.19	217	3.13	5.6	clear	GT	3350							
4MW3A	10-Dec			24.18		7.21	23.32	440	2.33	2.6	clear	GT	2958			//				
4MW4	9-Dec	1014	50.81		27.41	7.17	24.17	438	3.32	5.7	clear	GT	2894			//		//		
4MW5			49.06									GT				//,		//		
4MW6	11-Dec		55.93		32.15	7.85	24.22	155	6.08	1.7	clear	GT	3009			/				
4MW7	10-Dec	950	52.62	21.85	30.77	7.23	23.13	366	2.05	1.9	clear	GT	2956							

2020 QTR IV REDO NO3ic.xlsx

		Well Dat	a					Fi	ield Analysis				Labworks				Lab Analysis			
WELL I.D.	DATE	SAMPLE	FLEV	STATIC WATER LEVEL (ft)	N.G.V.D (ft)	pH (S.U.)	TEMP (°C)	COND (µS/cm)	D.O. (mg/L)	TURB (NTU)	Color (Observed)	Analyst	LIMS ID	CL⁻(mg/L)	TDS (mg/L)	NH3-N (mg/L)	NO3 (mg/L)	Fe (μg/L)	Hg (μg/L)	Na+ (μg/L)
4MW8	9-Dec	1435	51.87	21.08	30.78	7.20	22.56	392	2.30	1.5	clear	GT	2896							
4MW9	9-Dec	1304	52.78	23.47	29.31	7.16	22.92	452	2.26	7.20	clear	GT	2895							
4MW11D	10-Dec	1131	65.00	33.55	31.45	7.37	24.48	377	3.34	2.30	clear	GT	2957	\setminus		\setminus				
4MW12D	16-Dec	1211	55.03	24.77	30.26	7.18	24.98	319	3.47	1.2	clear	GT	3205	\setminus		\setminus				
4MW13D												GT								
4MW14D	16-Dec	1340	52.00	21.35	30.65	7.20	26.49	373	2.46	5.80	clear	GT	3206							
4MW21	21-Dec	1301	51.46	21.15	30.31	5.43	24.84	144	6.55	11.8	clear	GT	3350							
4MW22	21-Dec	1342	53.44	24.46	28.98	6.99	23.59	463	2.93	10.1	clear	10.1	3351							
4MW23	112/21/2	1226	53.69	26.32	28.37	7.27	23.28	550	2.76	12.90	clear	GT	3349							
4MW27			49.60									GT								
4MW27D	17-Dec	1616	49.28	16.85	32.43	7.44	22.75	276	8.03	13.2	clear	GT	3237							

BILLI	NG DATE:		SAMPL	E TIME:		MILEA	GE:		
AMBIENT	FIELD CO	NDITIONS							
METER:		CAL	IBRATION	DATE:					
PRESER	/ATIVES	PURGING EQL	JIPMENT:	Bladder pump and	d Micro Pur	ge MP-50 QED co	mpressor		
TYPE	LOT#								

	DEP Form FD 9000-24: Groundwater Sampling Log GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB										
	GROUNDW	ATER SA	MPLING D	DATA SHEE	T - PAS	CO COU	NTY UTILI	TIES ENVI	IRONMEN	TAL LAB	
SITE NAME:	RESOUR	CE REC	OVERY	SITE LOCATION:	Hays R	d.					
WELL NO.	,	19766		SAMPLE ID:	2MW-	15DA	SAMPLE DATE:	De	cembe	ember 16, 20 1 (NGVD) PUMP TYPE 1 E PACITY ME(gals)= 3. 1 EQ. VOL. PURGE: TOTAL VOLUME PI (GALLONS): 12.00 TURB. (OLOR (describe)) 12.5 Clear 29.9 Clear 16.3 Clear 11.3 Clear =5.88 ; 5/8"=0.016	
					PURGING	DATA					
WELL DIAME	ETER(INCHES)	TUBING DIA	AM (INCHES)	WELL SC	REEN INTE	RVAL DEP	TH: ft to ft	TOP Elevati	ion (NGVD)	PUMP TYPE	OR BAILER:
	2	1/	/ ₂ "		34.0 to	44.0		54.	71	В	Р
			UME PURGE	: 1 WELL VOL			TH TO WATE	R) X WELL C	APACITY		
TWD(ft):	44.00	STATIC WATER:	21	.14	GALLONS / FOOT:).16	1 WELL VOL	.UME(gals)=	3.0	65
			EQU	PMENT VOLU							
PUMP V	OL (GAL):	0.	.26	TUBING CAP.(G/ft)		TUBING LENGTH ft		FLOW CELLVOL.	N/A		
	MP OR TUBING WELL (FEET):	DEPTH IN		OR TUBING VELL (FEET):	PUR(INITIAT		PURGING I	ENDED AT:	TOTAL	VOLUME PU (GALLONS):	JRGED
TIME (0.4.1.)	\/Q! !!\ #E	01.11.11.11		0.3	09		09		TUDE		00.00
TIME (24 hr)	VOLUME PURGED (gallons)	VOLUME RATE WATER (C°) (umhos/cm) (NTUs) PURGED (GPM) (FEET)							ODOR (describe)		
0930	0.00	0.00	0.00	21.14	7.43	21.87	338	3.84		clear	bad
0938	4.00	4.00	0.50	21.14	7.30	23.75	298	2.82			bad
0946 0954	4.00 4.00	8.00 12.00	0.50 0.50	21.13 21.14	7.32 7.30	24.20 24.30	297 298	2.87 3.04			bad bad
0734	4.00	12.00	0.30	21.14	7.30	24.30	270	3.04	11.3	Cledi	baa
					R LEVEL IS BE						
	CITY (Gallons F									6	
TOBINO INOI	DE DIA. OAI AC	711 (Gai./i t.	j. 17 0 –0.0000	5, 3/10 -0.001-	SAMPLING		0.00 4 , 0/0 –0.0	500, 11 2 -0.0	10, 3/0 -0.01	<u> </u>	
SAMPLED B	Y/AFFILIATION		REY - Pasc nmental La	•	SAMPLER SI	GNATURE:		SAMPLING INITIATED AT:	956	SAMPLING ENDED AT:	958
Pump or tubin	ng depth in well			RATE	(ML/MIN.):			Τl	JBING MATE	RIAL CODE:	PE/T
DECO	NTAMINATION:				FILTERED:	NO	FILTE	R SIZE (UM):			NO
0 1 10	SAMPLE CON					EINIAL BU	INTENDED				EQUIP. CODE:
Sample ID;	# of Conts.	Material Code HDPE	Volume 1 Liter	Preservative Wet Ice	mls Added None	FINAL PH	and/or M SM2540				BP
	1	HDPE					Chlo				ВР
	2	HDPE	250 mls 250 mls	Wet Ice H2SO4	2.0 1:1	<2	Ammoni				ВР
	_		250 mls				App I Metals				ВР
	1	HDPE		HNO3	2.5/1:4			. 0.			
	3	CG	40 mls	HCI	.25/1:1	<2	App I				BP
	3	CG	40 mls	Wet Ice	None		8011-ED	D, DRCP	Eurofin	s Bottle	BP
NGVD:	22.86	LAB SA	MPLE ID #:ac	103202	1		1		1		1
	ODES: AG=AM										HER
	ING/PURGING MENT CODES:										

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.

2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)

	DEP Form FD 9000-24: Groundwater Sampling Log GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB										
	GROUNDW	ATER SAI	MPLING D	ATA SHEE	T - PASC	:O COUI	NTY UTILI1	TIES ENV	IRONME	NTAL LAB	
SITE NAME:	RESOU	RCE REC	OVERY	SITE LOCATION:	Hays R	d.					
WELL NO.		19759		SAMPLE ID:	2MW	/18D	SAMPLE DATE:	De	cembe	er 16, 2	020
					PURGING	DATA				,	
DIAMETER	R(INCHES)	TUBING DIA	M (INCHES)		REEN INTE		TH: ft to ft	TOP Elevat	ion (NGVD)	PUMP TYPE	OR BAILER:
4	2	1/2	' !! 2		25.0 to	40.0		52	.75	В	P
		WELL VOLU	JME PURGE:	1 WELL VOL.	= (TWD-ST	ATIC DEPT	H TO WATER) X WELL C	APACITY	I	
T14/D (5)	40.00	STATIC			GALLONS		16		ELL	0	20
TWD(ft):	40.00	WATER:		5.5 PMENT VOLUM	/ FOOT: ME PURGE).16 ut if applicabl	VOLUM e)	E(gals)=	۷.۰	32
						TUBING		FLOW		4.50.1/01	
PUMP V	OL (GAL):	0.:	26	TUBING CAP.(G/ft)	0.010	LENGTH ft	34	CELLVOL.	N/A	1 EQ. VOL. PURGE:	
	MP OR TUBINO WELL (FEET):	-		P OR TUBING VELL (FEET):	PUR(INITIAT		PURGING E	NDED AT:	ТОТА	L VOLUME PI (GALLONS):	
	34			34	10	21	103	33		6.00	
TIME (24 hr)	VOLUME PURGED	CUMUL.	PURGE	DEPTH TO	Ph (S.U.)	TEMP.	COND.	D.O.	TURB.	COLOR	ODOR
	(gallons)			WATER (FEET)		(C°)	(umhos/cm)	(mg/L)	(NTUs)	(describe)	(describe)
1021	0.00	0.00	0.00	25.50	6.95	23.39	464	2.66	3.9	clear	bad
1025	2.00	2.00	0.50	25.60	6.95	23.97	468	2.49	4.6	clear	bad
1029	2.00	4.00	0.50	25.60	7.01	24.12	462	2.75	2.8	clear	bad
1033	2.00	6.00	0.50	25.60	7.02	24.07	465	2.25	2.8	clear	bad
WELL CADA	CITY / Collons	Dor Footh 0.7	ZE"-0 00: 4"-(0.04; 1.25" =0.0	6. 2"- 0 16.	2"-0 27. 4	"-0 65. 5 "-1 0	0. 6"-1 47.	40"-E 00		
	•	,		6; 3/16" =0.001						.016	
					SAMPLING D						
		GTORE	REY - Pasco	County	SAMPLER SI	GNATURE:		SAMPLIN G		SAMPLING ENDED AT:	
SAMPLED BY	/AFFILIATION		nmental Lat	•		1		INITIATED		LINDLD AT.	
					,			AT:	1035		1036
Pump or tubir			4		(ML/MIN.):		I			1	PE/T
DECONT	FAMINATION:	NO	OLETON		FILTERED:	NO		SIZE (UM):		DUPLICATE	NO EQUIP.
Sample ID;	# of Conts.	Material Code	Volume	AND PRESER Preservative	mls Added	FINIAL DH	INTENDED and/or Mi		DATE	SERIES	CODE:
Sample 15,	1 To Contain	HDPE	1 Liter	Wet Ice	None	TIVALITI	SM25400			ns Bottle	BP
	ı	TIDI L	1 LIICI	WOLLCO	140110		ONIZOTO	7 100	LOIOIII	13 DOTTIC	ы
	1	HDPE	250 mls	Wet Ice	None		Chlor	ides	Eurofir	ns Bottle	BP
	2	HDPE	250 mls	H2SO4	2.0 1:1	<2	Ammonia	a/; NO3	Eurofir	ns Bottle	BP
	1	HDPE	250 mls	HNO3	2.5/1:4	<2	App I Metals	Fe, Hg, Na	Eurofir	ns Bottle	BP
	3	CG	40 mls	HCI	.25/1:1	<2	App I \	/OCs	Eurofir	ns Bottle	BP
	3	CG	40 mls	Wet Ice	None		8011-EDE	B, DBCP	Eurofir	ns Bottle	BP
NGVD:	27.29	LAB SAM	PLE ID #:003	203			<u> </u>				
		5: 4		-							

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; PP=POLYPROPYLENE; S=SILICONE; T=TEFLON; O=OTHER

SAMPLING/PURGING **APP**=After Peristalic Pump; **B=**Bailer; **BP=**Bladder Pump; **ESP=**Electric Submersible Pump; **PP=**Peristalic Pump EQUIPMENT CODES: **RFPP=**Reverse Flow Peristalic Pump; **SM=**Straw Method(Tube Gravity Drain); **VT=**Vacuum Trap; **O=**Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.

2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)

	DEP Form FD 9000-24: Groundwater Sampling Log													
							<u> </u>							
	GROUNDW	<u> /ATER SA</u>	MPLING D	ATA SHEE	<u> </u>	<u>:0 COUI</u>	<u>nty utilit</u>	<u> </u>	<u>ronmen</u>	TAL LAB				
SITE NAME:	RESOUR	RCE REC	OVERY	SITE LOCATION:	Hays R	d.								
WELL NO.		19764		SAMPLE ID:	2MW	/19D	SAMPLE DATE:	Dec	cembe	r 16, 20	020			
				ı	PURGING	DATA								
WELL DIAME	WELL DIAMETER(INCHES) TUBING DIAM (INCHES) WELL SCREEN INTERVAL DEPTH: ft to ft TOP Elevation (NGVD) PUMP TYPE OR BAILER:													
	2	1/	/ !! 2		45.0 to	55.0		52.	25	В	Р			
WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY														
TWD(ft): 55.00 STATIC WATER: GALLONS / FOOT: 0.16 1 WELL VOLUME(gals)= 4.9									.9					
	EQUIPMENT VOLUME PURGE (only fill out if applicable)													
PUMP V	OL (GAL):	0.	26	TUBING CAP.(G/ft)		TUBING LENGTH ft	30.6	FLOW CELLVOL.	N/A	1 EQ. VOL. PURGE:				
	MP OR TUBING WELL (FEET):	DEPTH IN		OR TUBING /ELL (FEET):	PUR INITIAT		PURGING I	ENDED AT:	TOTA	L VOLUME PU (GALLONS):				
	30.6		30).6		50		20		15.00				
TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)			
1050	1050 0.00 0.00 0.00				7.40	21.95	286	6.72	9.4	cloudy	bad			
1100	5.00	5.00	0.50	24.26	7.24	24.70	437	2.40	4.5	clear	bad			
1110	5.00	10.00	0.50	24.25	7.06	24.74	440	2.64	1.5	clear	bad			
1120	5.00	15.00	0.50	24.21	7.06	24.87	438	1.97	6.2	clear	bad			
WELL CAPAC	CITY (Gallons F	Per Foot): 0.75	"=0.02; 1 "=0.0	04; 1.25" =0.06;	2" =0.16; 3 '	"=0.37; 4" =	0.65; 5" =1.02	6"=1.47; 12 "	=5.88					

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 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

	SAMPLING DAIA SAMPLER SIGNATURE: SAMPLING SAMPLING												
SAMPLED B	Y/AFFILIATION		REY - Pasco nmental Lab	,	SAMPLER S	IGNATURE:		SAMPLING INITIATED AT:	1122	SAMPLING ENDED AT:	1124		
Pump or tubir	ng depth in well	30).6	RATE	(ML/MIN.):				1122	1124	PE/T		
	NTAMINATION:	NO			FILTERED:	NO	FILTE	R SIZE (UM):		DUPLICATE	NO		
	SAMPLE CON	ITAINER SPE	CIFICATION A	ND PRESER	/ATION		INTENDED	ANAYSIS	ВО	TTLE	EQUIP.		
Sample ID;	# of Conts.	Material Code	Volume	Preservative	mls Added	FINAL PH	and/or M	IETHOD	DATE	SERIES	CODE:		
	1 HDPE 1 Liter V				None		SM2540	C - TDS	Eurofins Bottle		BP		
	1	HDPE	250 mls	Wet Ice	None		Chlo	rides	Eurofir	ns Bottle	BP		
	2	HDPE	250 mls	H2SO4	2.0 1:1	<2	Ammonia/; NO3		Eurofir	ns Bottle	BP		
	1	HDPE	250 mls	HNO3	2.5/1:4	<2	App I Metals	s Fe, Hg, Na	Eurofir	ns Bottle	BP		
	3	CG	40 mls	HCI	.25/1:1	<2	Арр І	VOCs	Eurofir	ns Bottle	ВР		
	3	CG	40 mls	Wet Ice	None		8011-ED	B, DBCP	Eurofir	ns Bottle	BP		
NGVD:	GVD: 27.98 LAB SAMPLE ID #:03204												

SAMPLING DATA

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; PP=POLYPROPYLENE; S=SILICONE; T=TEFLON; O=OTHER

SAMPLING/PURGING **APP**=After Peristalic Pump; **B=**Bailer; **BP=**Bladder Pump; **ESP=**Electric Submersible Pump; **PP=**Peristalic Pump EQUIPMENT CODES: **RFPP=**Reverse Flow Peristalic Pump; **SM=**Straw Method(Tube Gravity Drain); **VT=**Vacuum Trap; **O=**Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.

2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)

	DEP Form FD 9000-24: Groundwater Sampling Log GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB												
					:1 - PAS	<u> </u>	INIY UIILI	IIIE2 ENVI	KUNMEN	IIAL LAB			
SITE NAME:	RESOU	RCE REC	OVERY	SITE LOCATION:	Hays R	d.							
WELL NO.		19670		SAMPLE ID:	4MV	V-3A	SAMPLE DATE:	Dec	embe	r 10, 20)20		
					PURGING	DATA							
DIAMETER	R(INCHES)	TUBING DIA	,	WELL SC	REEN INTE	RVAL DEP	TH: ft to ft	TOP Elevation	,		OR BAILER:		
4	4	1/2			22.0 to			52.9		В	Р		
		WELL VOL		: 1 WELL VOI	= (TWD-S		TH TO WATE	R) X WELL CA					
TWD(ft):	50.00	WATER:		.18	/ FOOT:).16	1 WELL VOLU	JME(gals)=	4.:	29		
			EQU	IPMENT VOLU	ME PURGI	(only fill	out if applicat	•					
PUMP VO	OL (GAL):	0.:	26	TUBING CAP.(G/ft)	0.010	TUBING LENGTH ft		FLOW CELLVOL.	N/A	1 EQ. VOL. PURGE:			
	MP OR TUBINO WELL (FEET):			P OR TUBING VELL (FEET):	PUR INITIAT		PURGING	PURGING ENDED AT:		L VOLUME PI (GALLONS):			
	33.4			3.4		48	_	312		12.00			
TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)		
1248	0.00	0.00	0.00	24.18	7.46	22.62	443	3.84	1.1	cloudy			
1256	4.00	4.00	0.50	24.17	7.25	23.39	445	2.05	3.8	cloudy			
1304	4.00	8.00	0.50	24.17	7.21	23.64	440	2.24	2.7	clear			
1312	4.00	12.00	0.50	24.18	7.21	23.32	440	2.33	2.6	clear			
					SAMPLING	ΠΔΤΔ							
SAMPLED BY	//AFFILIATION		REY - Pasconmental Lal	•	SAMPLER SI			SAMPLING INITIATED AT:	1314	SAMPLING ENDED AT:	1316		
Pump or tubin	ng depth in wel	33	3.4	RATE	(ML/MIN.):			TU		RIAL CODE:	PE/T		
	FAMINATION:	NO			FILTERED:	NO	FILTE	R SIZE (UM):		DUPLICATE	NO		
	SAMPLE CO	NTAINER SPE	CIFICATION	AND PRESER	VATION		INTENDE) ANAYSIS		TTLE	EQUIP.		
Sample ID;	# of Conts.	Material Code	Volume	Preservative	mls Added	FINAL PH		METHOD	DATE	SERIES	CODE:		
	1	HDPE	1 Liter	Wet Ice	None		SM2540	C - TDS	Eurofir	ns Bottle	BP		
	1	HDPE	250 mls	Wet Ice	None		Chlo	rides	Eurofir	ns Bottle	BP		
	2	HDPE	250 mls	H2SO4	2.0 1:1	<2	Ammon	ia/; NO3	Eurofir	ns Bottle	BP		
	1 HDPE 250 mls			HNO3	2.5/1:4	<2	App I Metal	s Fe, Hg, Na	Eurofir	ns Bottle	BP		
	3 CG 40 mls			HCI	.25/1:1	<2	Арр І	VOCs	Eurofir	ns Bottle	BP		
	3 CG 40 mls				None		8011-ED	B, DBCP	Eurofir	ns Bottle	BP		
NGVD:	28.74		00 01545	01.400.85.5	01.7571.87	ENE DD (ENE: S =SILIC	ONE T TE	TION O OTI	IED		

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; PP=POLYPROPYLENE; S=SILICONE; T=TEFLON; O=OTHER

SAMPLING/PURGING **APP**=After Peristalic Pump; **B=**Bailer; **BP=**Bladder Pump; **ESP=**Electric Submersible Pump; **PP=**Peristalic Pump EQUIPMENT CODES: **RFPP=**Reverse Flow Peristalic Pump; **SM=**Straw Method(Tube Gravity Drain); **VT=**Vacuum Trap; **O=**Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.

2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)

				DEP Form FD 90	00-24: Gro	undwater Sa	ampling Log				
	GROUNDV	VATER SA	MPLING D	ATA SHEE	T - PASI	CO COUI	NTY UTILI	TIES ENVII	RONMEN	TAL LAB	
SITE NAME:	RESOUR	RCE REC	OVERY	SITE LOCATION:	Hays R	ld.					
WELL NO.		2388		SAMPLE ID:	4M'	W-4	SAMPLE DATE:	De	cembe	er 9, 20	20
					PURGING	DATA					
WELL DIAME	TER(INCHES)	TUBING DIA	M (INCHES)	WELL SC	REEN INTE	RVAL DEP	TH: ft to ft	TOP Elevation	on (NGVD)	PUMP TYPE	OR BAILER:
	4	1/:	' !! 2		22.0 t	o 50.0		50.	81	В	P
		WELL VOL	JME PURGE:	1 WELL VOL	= (TWD-ST	ATIC DEPT	H TO WATER	X) X WELL CA	PACITY		
TWD(ft):	50.00	STATIC WATER:	2:	3.4	GALLONS / FOOT:).65	1 WELL VOL	UME(gals)=	17.	.29
			EQUI	PMENT VOLUI	ME PURGE	(only fill o	ut if applicab	•			
PUMP V	OL (GAL):	0.2	26	TUBING CAP.(G/ft)	0.010	TUBING LENGTH		FLOW CELLVOL.	N/A	1 EQ. VOL. PURGE:	
INITIAL PU	MP OR TUBINO WELL (FEET):	G DEPTH IN		OR TUBING VELL (FEET):		GING ED AT:	PURGING	ENDED AT:	TOTA	L VOLUME PI (GALLONS):	
	38.9			8.9	30	30	10	12		51.00	
TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
0830	0.00	0.00	0.00	23.40	7.28	22.07	427	5.25	7.8	clear	mild
0904	17.00	17.00	0.50	23.40	7.14	23.10	435	3.34	12.9	clear	mild
0938	17.00	34.00	0.50	23.40	7.14	23.59	439	2.82	9.2	clear	mild
1012	17.00	51.00	0.50	23.40	7.17	24.17	438	3.32	5.7	clear	mild
WELL CAPA	CITY(Gallons f	Per Foot): 0 75	"=0 02· 1" =0	<u> </u> 04· 1 25" =0 06	 : 2" =0 16: 3	<u> </u> 3"=0 37: 4 "=	 :0 65: 5" =1 02	· 6"=1 47· 12"	=5.88		
	DE DIA. CAPA				1/4"=0.002	26; 5/16" =0.				3	
		T			SAMPLING						
SAMPLED BY	Y/AFFILIATION		REY - Pasco nmental Lal	•	SAMPLER S	IGNATURE:		SAMPLING INITIATED AT:	1014	SAMPLING ENDED AT:	1016
Pump or tubin	ng depth in well	38	3.9	RATE	(ML/MIN.):			TU	IBING MATE	RIAL CODE:	PE/T
DECON	NTAMINATION:	NO		FIELD	FILTERED:	NO	FILTE	R SIZE (UM):		DUPLICATE	NO
				AND PRESER\	1			ANAYSIS	_	TTLE	EQUIP. CODE:
Sample ID;	# of Conts.	Material Code	Volume	Preservative	mls Added	FINAL PH	and/or M	METHOD	DATE	SERIES	0052.
	1	HDPE	1 Liter	Wet Ice	None		SM2540	C - TDS	Eurofin	s Bottle	BP
	1	HDPE	250 mls	Wet Ice	None		Chlo	rides	Eurofin	s Bottle	BP
	2	HDPE	250 mls	H2SO4	2.0 1:1	<2	Ammon	ia/; NO3	Eurofin	s Bottle	BP
	1 HDPE 250 mls			HNO3	2.5/1:4	<2	App I Metals	s Fe, Hg, Na	Eurofin	s Bottle	BP
	3	CG	40 mls	HCI	.25/1:1	<2	Арр І	VOCs	Eurofin	s Bottle	BP
	3	CG	40 mls	Wet Ice	None		8011-ED	B, DBCP	Eurofin	s Bottle	BP
110777				<u> </u>							
NGVD:	27.41		PLE ID #:028		N VETUS	NE. DD 54		NE. 0- 011 100	NE. T TEE	I ON: C OT!	
MATERIAL C	ODES: AG=AM	IBER GLASS;	CG=CLEAR (SLASS; PE =PC	DLYETHYLE	:NE; PP =P(JLYPROPYLE	:NE; S =SILICO	DNE; T=TEF	LON; 0 =01H	EK

SAMPLING/PURGING **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump EQUIPMENT CODES: **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.

^{2.} Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)

	DEP Form FD 9000-24: Groundwater Sampling Log GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB												
	RESOURCE RECOVERY SITE LOCATION: Hays Rd. VELL NO. 2390 SAMPLE ID: 4MW-6 DATE: December 11, 2020												
SITE NAME:	RESOUR	RCE REC	OVERY		Hays R	d.							
WELL NO.		2390		SAMPLE ID:	4M\	W-6		Dec	cembe	r 11, 20)20		
					PURGING	DATA							
	TER(INCHES)		M (INCHES)	WELL SC	REEN INTE		TH: ft to ft	TOP Elevati			OR BAILER:		
	4		2"		73.0 -			55.		В	P		
		STATIC	UME PURGE:	1 WELL VOL.	= (TWD-ST GALLONS		TH TO WATER						
TWD(ft):	100.00	WATER:		.80	/ FOOT:	(0.65	1 WELL VOL	UME(gals)=	49	.5		
		1	EQUII	PMENT VOLUI	ME PURGE I	(only fill o	out if applicab	le) FLOW					
PUMP V	OL (GAL):	0.:	26	TUBING CAP.(G/ft)	0.010	LENGTH ft		CELLVOL.	N/A	1 EQ. VOL. PURGE:			
_	MP OR TUBING WELL (FEET):	_		OR TUBING VELL (FEET):	: INITIATED AT: PORGING			ENDED AT:	TOTA	AL VOLUME PURGED (GALLONS):			
	77		7	77		00		300		150.00			
TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)		
0800	0.00	0.00	0.00	23.80	7.77	22.23	160	7.02	5.8	clear	mild		
0940	50.00	50.00	0.50	23.80	7.99	23,32	156	6.04	8.9	clear	mild		
1120 1300	50.00 50.00	100.00 150.00	0.50 0.50	23.90 23.90	7.84 7.85	23.80 24.22	155 155	5.83 6.08	2.6	clear clear	mild nild		
1300	30.00	130.00	0.50	20.70	7.00	24,22	100	0.00	1.7	Cicai	Tilla		
	CITY (Gallons I DE DIA. CAPA									8			
TODING ING	DE DIA. CAFA	CITT (Oai./i t.)	. 17 0 –0.0000,	3/10 -0.0014	SAMPLING I			00, 1/2 -0.010	<u> </u>	<u> </u>			
SAMPLED BY	//AFFILIATION		REY - Pasco	•	SAMPLER SI	IGNATURE:	i	SAMPLING INITIATED		SAMPLING ENDED AT:			
C, WIII EED D	.,,	Enviro	nmental Lat	oratory		8		AT:	1300		1304		
	ng depth in well		7		(ML/MIN.):					RIAL CODE:	PE/T		
DECON	SAMPLE COL		CIFICATION	FIELD AND PRESER\	FILTERED: /ATION	NO		R SIZE (UM):		DUPLICATE TTLE	NO EQUIP.		
Sample ID;	# of Conts.	Material Code	Volume			FINAL PH		O ANAYSIS METHOD	DATE	SERIES	CODE:		
	1	HDPE	1 Liter	Wet Ice	None		SM2540	C - TDS	Eurofin	ns Bottle	BP		
	1	HDPE	250 mls	Wet Ice	None		Chlo	rides	Eurofir	ns Bottle	BP		
	2	H2SO4	2.0 1:1	<2	Ammon	ia/; NO3	Eurofir	ns Bottle	BP				
	1	HNO3	2.5/1:4	<2	App I Metals	s Fe, Hg, Na	Eurofir	ns Bottle	BP				
	3	CG	40 mls	HCI	.25/1:1	<2	App I	VOCs	Eurofir	ns Bottle	ВР		
	3	CG	40 mls	Wet Ice	None		8011-ED	B, DBCP	Eurofir	ns Bottle	BP		
NGVD:	20.45	LADCAM	IDI E ID #.020	00			<u> </u>						
NGVD: MATERIAL C	32.15 ODES: AG=AM		CG=CLEAR (DLYETHYL F	ENE: PP =P	OLYPROPYI F	ENE; S =SILICO	ONE: T =TFF	LON; 0 =OTH	ER		
				B =Bailer; BP =									

SAMPLING/PURGING APP=After Peristalic Pump; B=Bailer; BP=Bladder Pump; ESP=Electric Submersible Pump; PP=Peristalic Pump $\textbf{EQUIPMENT CODES: \textbf{RFPP}} = \textbf{Reverse Flow Peristalic Pump; \textbf{SM}} = \textbf{Straw Method} \\ (\textbf{Tube Gravity Drain}); \textbf{VT} = \textbf{Vacuum Trap; \textbf{O}} = \textbf{Other} \\ (\textbf{Specify}) = \textbf$

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.

2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)

pH: +/- 0.2 units Temperature: +/- 0.2 C Specific Conductance: +/-5% Dissolved Oxygen: all readings </= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

	DEP Form FD 9000-24: Groundwater Sampling Log GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB										
	GROUNDW	ATER SA	MPLING D	DATA SHEE	T - PAS	CO COU	NTY UTILI	TIES ENVI	RONMEN	TAL LAB	
SITE NAME:	RESOUR	CE REC	OVERY	SITE LOCATION:	Hays R	d.					
WELL NO.	4	MW-7	,	SAMPLE ID:	4M\	N-7	SAMPLE DATE:	Dec	ecember 10, 2 vation (NGVD) PUMP TY 52.62 CAPACITY OLUME(gals)= TOTAL VOLUME (GALLON 54.00 (L) TURB. COLOR (NTUs) (describe 8.2 clear 11.1 clear 4.3 clear 1.9 clear 1.9 clear TUBING MATERIAL COD M): DUPLICA BOTTLE DATE SERIES Eurofins Bottle Eurofins Bottle Eurofins Bottle)20
					PURGING	DATA					
WELL DIAME	ETER(INCHES)	TUBING DIA	AM (INCHES)	WELL SCI	REEN INTE	RVAL DEP	TH: ft to ft	TOP Elevation	on (NGVD)	PUMP TYPE	OR BAILER:
	4	1/	/ ₂ "		22.0 -	47.0		52.6	62	В	Р
			UME PURGE	: 1 WELL VOL			TH TO WATE	R) X WELL CA	PACITY		
TWD(ft):	50.00	STATIC WATER:	21	.85	GALLONS / FOOT:		0.65	1 WELL VOL	JME(gals)=	18	2
T W B (It).	00.00	*****		PMENT VOLU				ole)			·- <u>-</u>
PUMP V	OL (GAL):	0.	.26	TUBING CAP.(G/ft)	0.010	TUBING LENGTH ft		FLOW CELLVOL.	N/A	1 EQ. VOL. PURGE:	
	MP OR TUBING WELL (FEET):	DEPTH IN		OR TUBING VELL (FEET):	PUR(INITIAT		PURGING I	ENDED AT:	TOTA	VOLUME PU (GALLONS):	
	42.1			2.1		00	09			54.00	
TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)		COLOR (describe)	ODOR (describe)
0800	0.00	0.00	21.85	21.85	7.34	20.96	368	2.99	8.2	clear	mild
0836	18.00	0.50	21.85	21.85	7.22	23.27	356	2.49			mild
0912	18.00	0.50	21.85	21.85	7.21	23.15	364	2.11			mild
0948	18.00	0.50	21.85	21.85	7.23	23.13	366	2.05	1.9	clear	mild
				***WATFR	R LEVEL IS BE	I I NW TNP NF	PIIMP.				
	CITY (Gallons F			0.04; 1.25" =0.0	6; 2" =0.16;	3"= 0.37; 4'	' =0.65; 5'' =1.0			6	
		,			SAMPLING		,	•			
SAMPLED B	Y/AFFILIATION		REY - Pasc nmental La	•	SAMPLER SI	IGNATURE:		SAMPLING INITIATED AT:	950	SAMPLING ENDED AT:	952
Pump or tubir	ng depth in well	4:	2.1	RATE	(ML/MIN.):			TU		RIAL CODE:	PE/T
DECO	NTAMINATION:	NO		FIELD I	FILTERED:	NO	FILTE	R SIZE (UM):		DUPLICATE	NO
	SAMPLE CON				T T		INTENDED				EQUIP. CODE:
Sample ID;	# of Conts.	Material Code	Volume	Preservative	mls Added	FINAL PH	and/or M	METHOD			CODE.
	1	HDPE	1 Liter	Wet Ice	None		SM2540	C - TDS	Eurofin	s Bottle	BP
	1	1 HDPE 250 mls Wet to			None		Chlo	rides	Eurofin	s Bottle	ВР
	2	2 HDPE 250 mls H2SC			2.0 1:1	<2	Ammon	ia/; NO3	Eurofin	s Bottle	ВР
	1 HDPE 250 mls HNC			HNO3	2.5/1:4	<2	App I Metals	s Fe, Hg, Na	Eurofin	s Bottle	BP
	3			HCI	.25/1:1	<2	Арр І	VOCs	Eurofin	s Bottle	BP
	3	CG	40 mls	Wet Ice	None		8011-ED	B, DBCP	Eurofin	s Bottle	BP
NGVD:	30.77		MPLE ID #:02								
MATERIAL C	ODES: AG=AM	BER GLASS	CG=CLEAR	GLASS: PF=P	OI YETHYI	FNF PP=F	POLYPROPYL	FNF: S=SILIC	ONF T=TFF	I ON: O=OTH	IFR

SAMPLING/PURGING APP=After Peristalic Pump; B=Bailer; BP=Bladder Pump; ESP=Electric Submersible Pump; PP=Peristalic Pump $\textbf{EQUIPMENT CODES: \textbf{RFPP}} = \textbf{Reverse Flow Peristalic Pump; \textbf{SM}} = \textbf{Straw Method} \\ (\textbf{Tube Gravity Drain}); \textbf{VT} = \textbf{Vacuum Trap; \textbf{O}} = \textbf{Other} \\ (\textbf{Specify}) = \textbf$

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.

2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)

-														
	DEP Form FD 9000-24: Groundwater Sampling Log GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB													
				SITE			NIT UIILI	I IEO EIVVII	VOIMMEN	IAL LAD				
SITE NAME:	KE500F	RCE REC	OVERY	LOCATION:	Hays R	d.		T						
WELL NO.		2341		SAMPLE ID:	4M\	W-8	SAMPLE DATE:	De	cembe	er 9, 20	20			
					PURGING	DATA								
WELL DIAME	TER(INCHES)	TUBING DIA	M (INCHES)	WELL SCI	REEN INTE	RVAL DEP	TH: ft to ft	TOP Elevation	on (NGVD)	PUMP TYPE	OR BAILER:			
	4	1/2	/ " 2		32.0 -	- 65.0		51.	87	В	Р			
				1 WELL VOL.			TH TO WATER) X WELL CA	PACITY					
TWD(ft):	65.00	STATIC WATER:		.08	GALLONS / FOOT:).65	1 WELL VOL	UME(gals)=	12.	91			
` '			EQUIF	PMENT VOLUM	ME PURGE	(only fill o	ut if applicabl	e)						
PUMP V	OL (GAL):	0.	26	TUBING CAP.(G/ft)	0.010	TUBING LENGTH ft		FLOW CELLVOL.	N/A	1 EQ. VOL. PURGE:				
INITIAL PU	MP OR TUBING WELL (FEET):	DEPTH IN		OR TUBING VELL (FEET):	PURGING INITIATED AT:		PURGING I	ENDED AT:	TOTAL VOLUME I (GALLONS					
	31			31	0013 14					39.00				
TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)			
1315	0.00	0.00	0.00	21.08	7.63	22.32	330	6.24	8.9	clear	mild			
1341	13.00	13.00	0.50	21.08	7.32	22.44	392	2.34	5.6	clear	mild			
1407	13.00	26.00	0.50	21.08	7.21	22.31	394	2.99	5.9	clear	mild			
1433	13.00	39.00	0.50	21.08	7.20	22.56	392	2.30	1.5	clear	mild			
				***WATER	LEVEL IS BEI	LOW TOP OF I	L Pump.							
	CITY (Gallons F DE DIA. CAPAC	,		04; 1.25" =0.06	; 2" =0.16; 3	"= 0.37; 4" =	0.65; 5" =1.02			3				
SAMPLED BY	//AFFILIATION		REY - Pasco nmental Lab	•	SAMPLER S	IGNATURE:		SAMPLING INITIATED AT:	1435	SAMPLING ENDED AT:	1437			
Pump or tubir	g depth in well		1	RATE	(ML/MIN.):			TL	IBING MATE	RIAL CODE:	PE/T			
DECO	NTAMINATION:	NO			FILTERED:	NO	FILTE	R SIZE (UM):		DUPLICATE	NO			
	SAMPLE CONTAINER SPECIFICATION A					I = 1	INTENDED			TTLE	EQUIP. CODE:			
Sample ID;	# of Conts.	Material Code	Volume	Preservative	mls Added	FINAL PH	and/or M	IETHOD	DATE	SERIES				
	1	HDPE	1 Liter	Wet Ice	None		SM2540	SM2540C - TDS Eurofins Bottle		BP				
	1	HDPE	250 mls	Wet Ice	None	Ione Chlorides Eurofins Bottle		s Bottle	ВР					

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; PP=POLYPROPYLENE; S=SILICONE; T=TEFLON; O=OTHER

2.0 1:1

2.5/1:4

.25/1:1

None

<2

<2

<2

Ammonia/; NO3

App I Metals Fe, Hg, Na

App I VOCs

8011-EDB, DBCP

ΒP

BP

ΒP

BP

Eurofins Bottle

Eurofins Bottle

Eurofins Bottle

Eurofins Bottle

SAMPLING/PURGING **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump EQUIPMENT CODES: **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

H2SO4

HNO3

HCI

Wet Ice

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.

250 mls

250 mls

40 mls

40 mls

LAB SAMPLE ID #:02896

2

1

3

3

30.78

NGVD:

HDPE

HDPE

CG

CG

2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)

	DEP Form FD 9000-24: Groundwater Sampling Log GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB												
	RESOUR			SITE			MII UIILI	III TIIAII	NUMMEN	IIAL LAU			
SITE NAME:	KLOOOK		OVERT	LOCATION:	Hays R		SAMPLE						
WELL NO.		2342		SAMPLE ID:	4M\	<u>N-9</u>	DATE:	De	cembe	er 9, 20	20		
					PURGING	DATA							
	ETER(INCHES)		AM (INCHES)	WELL SC	REEN INTE		TH: ft to ft	TOP Elevation	,		OR BAILER:		
	4	-	<u>/2"</u>	4 14/51 1 1/01	30.0 -		TIL TO WATE	52.7		В	Р		
		STATIC		: 1 WELL VOL	GALLONS	IATIC DEP	IH IO WAIE						
TWD(ft):	60.00	WATER:		3.47	/ FOOT:).65	1 WELL VOLU	JME(gals)=	17	.80		
			EQU	PMENT VOLU	ME PURGE		out if applicat I	ole)					
PUMP V	OL (GAL):	0	.26	TUBING CAP.(G/ft)	0.010	TUBING LENGTH ft		FLOW CELLVOL.	N/A	1 EQ. VOL. PURGE:			
	MP OR TUBING WELL (FEET):	DEPTH IN		P OR TUBING VELL (FEET):			PURGING ENDED AT:		TOTA	L VOLUME PI (GALLONS):			
29 29 1114 1302 54,00 TIME (24 hr) VOLUME CUMUL. PURGE DEPTH TO Ph (S.U.) TEMP. COND. D.O. (mg/L) TURB. COLOR O													
TIME (24 hr)	PURGED VOLUME RATE (gallons) PURGED (GPM			WATER	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	(describe)	ODOR (describe)		
		(gallons)	(GPM)	(FEET)									
1114	0.00	0.00	0.00	23.47	7.31	22.46	451	4.54	7.6	clear	mild		
1150	18.00	18.00	0.50	23.45	7.19	22.93	453	1.97	7.7	clear	mild		
1226	18.00	36.00	0.50	23.47	7.17	23.03	448	1.87	6.6	clear	mild		
1302	18.00	54.00	0.50	23.47	7.16	22.92	452	2.26	7.2	clear	mild		
					SAMPLING	DATA							
SAMPLED BY	Y/AFFILIATION		REY - Pasc	•	SAMPLER SI	GNATURE:	i	SAMPLING INITIATED		SAMPLING ENDED AT:			
		Enviro	nmental La	boratory		0		AT:	1304		1306		
	ng depth in well		29		(ML/MIN.):	110			BING MATE	RIAL CODE:	PE/T		
DECON	SAMPLE CON	NO TAINED CDE	CIFICATION		FILTERED:	NO		R SIZE (UM):	D.C	DUPLICATE TTLE	NO EQUIP.		
Sample ID;	# of Conts.	Material Code	1	Preservative	mls Added	FINAL PH		O ANAYSIS METHOD	DATE	SERIES	CODE:		
,	1	HDPE	1 Liter	Wet Ice	None			C - TDS		ns Bottle	BP		
	1	HDPE	250 mls	Wet Ice	None		Chlo	rides	Eurofir	ns Bottle	BP		
	2	HDPE	250 mls	H2SO4	2.0 1:1	<2	Ammon	ia/; NO3	Eurofir	ns Bottle	BP		
	1	HDPE	250 mls	HNO3	2.5/1:4	<2	App I Metal	s Fe, Hg, Na	Eurofir	ns Bottle	BP		
	3 CG 40 mls			HCI	.25/1:1	<2	App I	VOCs	Eurofir	ns Bottle	BP		
	3	CG	40 mls	Wet Ice	None		8011-ED	B, DBCP	Eurofir	ns Bottle	BP		
NGVD:	29.31		MPLE ID #:02										
MATERIAL C	ODES: AG=AM	BER GLASS	; CG =CLEAR	GLASS; PE=P	OLYETHYL	ENE; PP =F	POLYPROPYL	ENE; S=SILIC	ONE; T =TEI	FLON; O =OTH	IER		

SAMPLING/PURGING APP=After Peristalic Pump; B=Bailer; BP=Bladder Pump; ESP=Electric Submersible Pump; PP=Peristalic Pump EQUIPMENT CODES: RFPP=Reverse Flow Peristalic Pump; SM=Straw Method(Tube Gravity Drain); VT=Vacuum Trap; O=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.

^{2.} Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)

	GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB SITE NAME. RESOURCE RECOVERY SITE LOCATION. HOVE Rd												
				SITE				TILO LIVI	KUMILI	IIAL LAB			
SITE NAME:				LOCATION:			SAMPLE			40.00	200		
WELL NO.		<u>2510</u>		SAMPLE ID:	4MW		DATE:	Dec	cembe	r 10, 20)20		
			(1) (2) (5)		PURGING				#10\ /D\				
	2		AM (INCHES)	WELL SC	27.0 -		TH: ft to ft	TOP Elevation 65.		PUMP TYPE B	OR BAILER:		
	2	,		<u> </u> : 1 WELL VOL			TH TO WATE			D	Г		
TWD(ft):	52.00	STATIC WATER:		5.55	GALLONS / FOOT:		0.16	1 WELL VOL		11	9		
TVVD(It).	02.00			PMENT VOLU			-	le)			.0		
PUMP V	OL (GAL):	0	.26	TUBING CAP.(G/ft)	0.010	TUBING LENGTH ft		FLOW CELLVOL.	N/A	1 EQ. VOL. PURGE:			
	MP OR TUBING WELL (FEET):	DEPTH IN		OR TUBING VELL (FEET):	PUR(INITIAT			ENDED AT:	TOTA	L VOLUME PI (GALLONS):			
TIME (04 kg)	44.5 VOLUME	CUMUL.	4. PURGE	4.5 DEPTH TO	10		COND.	29	TUDD	36.00	ODOD		
TIME (24 hr)	PURGED (gallons) VOLUME PURGED (GPM) (gallons) 0.00 0.00				Ph (S.U.)	TEMP. (C°)	(umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)		
1005				33.55	7.35	22.75	381	5.38	3.6	clear	bad		
1029	12.00	12.00	0.50	33.57	7.31	23.98	380	3.96	5.1	clear	bad		
1053 1129	12.00 12.00	24.00 36.00	0.50 0.50	33.57 33.57	7.35 7.37	24.15 24.48	376 377	3.62 3.34	2.9	clear clear	bad bad		
1127	12.00	00.00	0.00	00.07	7.07	24.40	0//	0.04	2.0	Cicai	Dad		
	CITY (Gallons P DE DIA. CAPAC									16			
TODING INC.		711 (Odi./) t.	<u>,. 110 0.0000</u>	5, 6.10 0.001	SAMPLING		o.oo 1, o.o	0.01	o, e /e				
SAMDLED D	Y/AFFILIATION	GTOR	REY - Pasc	SAMPLER SIGNATIVES:			i	SAMPLING INITIATED		SAMPLING ENDED AT:			
SAMPLED	TAFFILIATION	Enviro	nmental La	boratory		0		AT:	1131		1133		
Pump or tubir	ng depth in well	4	4.5	RATE	(ML/MIN.):			TU	BING MATE	RIAL CODE:	PE/T		
DECO	NTAMINATION:	NO			FILTERED:	NO	FILTE	R SIZE (UM):		DUPLICATE	NO EQUIP.		
Sample ID;	# of Conts.	TAINER SPE	Volume			FINAL PH		ANAYSIS METHOD	DATE	TTLE SERIES	CODE:		
Sample ID,	# Of Contis.					TINALTII							
	1 HDPE 1 Liter \				None		SM2540	C - TDS	Eurofir	ns Bottle	BP		
	1	HDPE	250 mls	Wet Ice	None		Chlo	rides	Eurofir	ns Bottle	BP		
	2	HDPE	250 mls	H2SO4	2.0 1:1	<2	Ammon	ia/; NO3	Eurofir	ns Bottle	ВР		
	1 HDPE 250 mls HN			HNO3	2.5/1:4	<2	App I Metals	s Fe, Hg, Na	Eurofir	ns Bottle	BP		
	3	CG	40 mls	HCI	.25/1:1	<2	Арр І	VOCs	Eurofir	ns Bottle	BP		
	3	CG	40 mls	Wet Ice	None		8011-ED	B, DBCP	Eurofir	ns Bottle	BP		
NGVD:	31.45	LAB SA	MPLE ID #:02	957							21 45		

31.45

SAMPLING/PURGING **APP**=After Peristalic Pump; **B=**Bailer; **BP=**Bladder Pump; **ESP=**Electric Submersible Pump; **PP=**Peristalic Pump EQUIPMENT CODES: **RFPP=**Reverse Flow Peristalic Pump; **SM=**Straw Method(Tube Gravity Drain); **VT=**Vacuum Trap; **O=**Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.

2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)

DEP Form FD 9000-24: Groundwater Sampling Log												
GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB												
SITE NAME:	RESOURCE RECOVERY			SITE LOCATION:	HAYS I	ROAD						
WELL NO.	2511			SAMPLE ID:	4MW	'-12D	SAMPLE DATE:	Dec	December 26, 2020			
PURGING DATA												
WELL DIAME	ETER(INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft				TOP Elevation	OR BAILER:					
WELL DIAMETER(INCHES) TUBING I		1/2	/ II 2	30.0 - 55.0		55.0		03 B		P		
WELL VOLUME PURGE:				1 WELL VOL.= (TWD-STATIC DEPTH TO WA				X WELL CA				
		STATIC WATER:		.77	GALLONS / FOOT: 0.16).16	1 WELL VOLUME(gals)=		4.	83	
EQUIPMENT VOLUME PURGE (only fill out if applicable)												
PUMP VOL (GAL):		0.	26	TUBING CAP.(G/ft)	0.010	TUBING LENGTH ft		FLOW CELLVOL.	N/A	1 EQ. VOL. PURGE:		
INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):				OR TUBING VELL (FEET):	PURGING INITIATED AT:		PURGING ENDED AT:		TOTAL VOLUME PI (GALLONS):			
TIME (2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	30	0	30		1140		1210		15.00		00.55	
TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)	
1140	0.00	0.00	0.00	24.77	7.09	24.40	392	4.30	1.6	clear	mild	
1150	5.00	5.00	0.50	24.77	7.13	24.97	383	2.97	1.8	clear	mild	
1200 1210	5.00	10.00 15.00	0.50 0.50	24.70	7.17	25.04 24.98	378 379	2.55 3.47	1.9	clear	mild mild	
1210	5.00	13.00	0.50	24.83	7.18	24.90	3/9	3.4/	1,2	clear	mild	
					SAMPLING D	ΔΤΔ						
SAMPLED BY/AFFILIATION GTORREY - P Environmenta				o County SAMPLER SIGNATURE:				SAMPLING INITIATED AT:	1211	SAMPLING ENDED AT:	1215	
Pump or tubing depth in well		3	30 RA		E (ML/MIN.):		TU		JBING MATERIAL CODE:		PE/T	
DECO	DECONTAMINATION:		NO		FIELD FILTERED: NO		FILTE	ER SIZE (UM):		DUPLICATE	NO	
	SAMPLE CON	TAINER SPECIFICATION A		AND PRESERVATION					BOTTLE		EQUIP. CODE:	
Sample ID;	# of Conts.	Material Code	Volume	Preservative	mls Added	FINAL PH	INTENDED ANAYSIS and/or METHOD		DATE	SERIES	0052.	
	1	HDPE	1 Liter	Wet Ice	None		SM2540C - TDS		Eurofins Bottle		BP	
	1	HDPE	250 mls	Wet Ice	None		Chlorides		Eurofins Bottle		BP	
	2	HDPE	250 mls	H2SO4	2.0 1:1	<2	Ammonia/; NO3		Eurofins Bottle		BP	
	1	HDPE	250 mls	HNO3	2.5/1:4	<2	App I Metals Fe, Hg, Na		Eurofins Bottle		BP	
	3	CG	40 mls	HCI	.25/1:1	<2	App I VOCs		Eurofins Bottle		BP	
	3	CG	40 mls	Wet Ice	None		8011-EDB, DBCP		Eurofins Bottle		BP	
NGVD: 30.26 LAB SAMPLE ID #:03205												
MATERIAL C	ODES: AG=AME	BER GLASS (CG=CLEAR G	LASS PF=PO	I YETHYI F	NF PP=PC) YPROPYLE	NF S=SILICC	NF T=TFF	I ON: O=OTH	=R	

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; PP=POLYPROPYLENE; S=SILICONE; T=TEFLON; O=OTHER

SAMPLING/PURGING APP=After Peristalic Pump; B=Bailer; BP=Bladder Pump; ESP=Electric Submersible Pump; PP=Peristalic Pump EQUIPMENT CODES: RFPP=Reverse Flow Peristalic Pump; SM=Straw Method(Tube Gravity Drain); VT=Vacuum Trap; O=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.

^{2.} Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)

DEP Form FD 9000-24: Groundwater Sampling Log												
GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB												
SITE NAME: RESOURCE RECOVERY				SITE LOCATION:	Hays R	ld.						
WELL NO.	WELL NO. 2512			SAMPLE ID: 4MW-14D			SAMPLE DATE:	Dec	cember 16, 2020			
PURGING DATA												
WELL DIAMETER(INCHES) TUBING DIAM (INCHES)			WELL SCREEN INTERVAL DEPTH: ft to 1				ft TOP Elevation (NGVD)			PUMP TYPE OR BAILER:		
2		1/2"		25.0 to 50.0		52.		.00		Р		
WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY												
TWD(ft): 50.00 STATIC WATER:		21	GALLONS / FOOT: 0.7			1 WELL VOLUME(gals)=			12.5			
EQUIPMENT VOLUME PURGE (only fill out if applicable)												
PUMP VOL (GAL):		0.:	26	TUBING CAP.(G/ft)	0.010	TUBING LENGTH ft		FLOW CELLVOL.	N/A	1 EQ. VOL. PURGE:		
INITIAL PUMP OR TUBING D WELL (FEET):		DEPTH IN	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):		PURGING INITIATED AT:		PURGING ENDED AT:		TOTAL VOLUME PU (GALLONS):			
40.2			40.2		1244		1339		39.00			
TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)	
1244	0.00	0.00	0.00	21.35	7.24	26.07	380	3.44	5.4	clear	bad	
1300	13.00	13.00	0.50	21.39	7.21	26.52	379	3.15	4.6	clear	mild	
1326	13.00	26.00	0.50	21.38	7.17	26.50	378	2.41	5.8	clear	mild	
1339	13.00	39.00	0.50	21.38	7.20	26.49	373	2.46	5.8	clear	mild	
					SAMPLING D			CAMPLING		SAMPLING		
SAMPLED BY/AFFILIATION		GTORREY - Pasco		County they		IGNATORE:		SAMPLING INITIATED		ENDED AT:		
			Environmental Lab		oratory			AT: 1340			1342	
Pump or tubing depth in well					(ML/MIN.):			TUBING MATE			PE/T	
DECONTAMINATION:					ATION		R SIZE (UM):		DUPLICATE	NO EQUIP.		
			e Volume Preservative		MIS Added FINAL PH		INTENDED ANAYSIS and/or METHOD		BOTTLE DATE SERIES		CODE:	
Sample ID,	# OI COINS.	Material Code	Volume	Preservative	mis Added	FINAL PH	and/or iv	IETHOD	DAIL	SENILS		
	1	HDPE	1 Liter	Wet Ice	None		SM2540C - TDS		Eurofins Bottle		BP	
	1	HDPE	250 mls	Wet Ice	None		Chlorides		Eurofins Bottle		ВР	
	2	HDPE	250 mls	H2SO4	2.0 1:1	<2	Ammonia/; NO3		Eurofins Bottle		BP	
	1	HDPE	250 mls	ни03	2.5/1:4	<2	App I Metals Fe, Hg, Na		Eurofins Bottle		BP	
	3	CG	40 mls	HCI	.25/1:1	<2	App I VOCs		Eurofins Bottle		BP	
	3	CG	40 mls	Wet Ice	None		8011-EDB, DBCP Eurofins Bottle		ns Bottle	BP		
NGVD:	NGVD: 30.65 LAB SAMPLE ID #:03206											
MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; PP=POLYPROPYLENE; S=SILICONE; T=TEFLON; O=OTHER												

SAMPLING/PURGING **APP**=After Peristalic Pump; **B=**Bailer; **BP=**Bladder Pump; **ESP=**Electric Submersible Pump; **PP=**Peristalic Pump EQUIPMENT CODES: **RFPP=**Reverse Flow Peristalic Pump; **SM=**Straw Method(Tube Gravity Drain); **VT=**Vacuum Trap; **O=**Other(Specify)

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