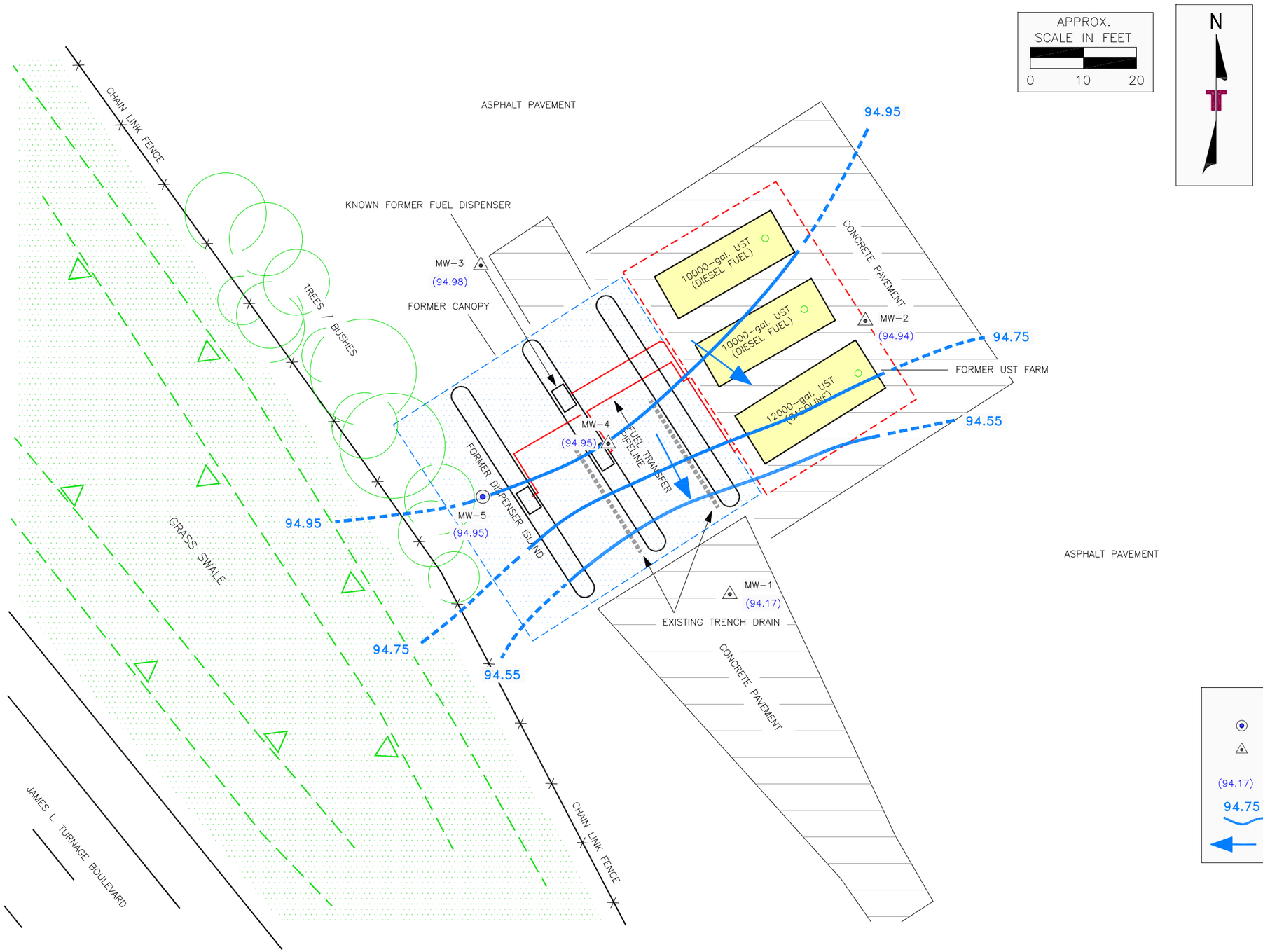


LEGEND

- EXISTING MONITORING WELL
- NEW TERRACON MONITORING WELL
- (94.17) RELATIVE GROUNDWATER ELEVATION AT WELL (feet)
- 94.75 RELATIVE GROUNDWATER ELEVATION CONTOUR (feet)
- INFERRED DIRECTION OF SHALLOW GROUNDWATER FLOW

Project Mngr:	AP
Drawn By:	SW
Checked By:	AP
Approved By:	EK

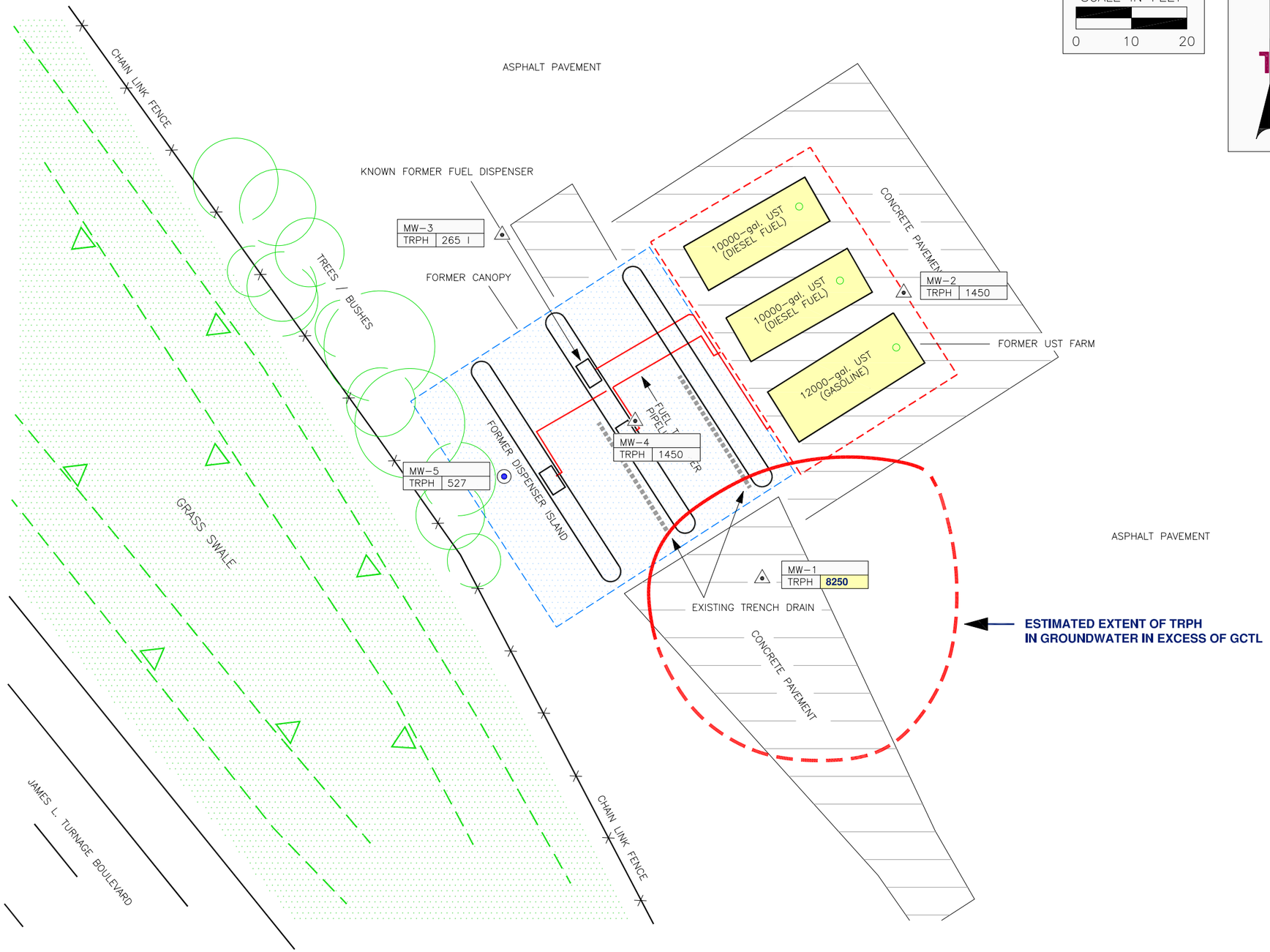
Project No.	HD157021
Scale:	AS SHOWN
File No.	HD157021-4
Date:	11-9-15

Terracon
Consulting Engineers and Scientists
1225 OMAR ROAD WEST PALM BEACH, FLORIDA 33405
PH. (561) 689-4299 FAX. (561) 689-5955

GROUNDWATER ELEVATION DIAGRAM (10-15-2015)

LOW-SCORED SITE INITIATIVE ASSESSMENT REPORT
FORMER PALM TRAN FACILITY
PALM BEACH INTERNATIONAL AIRPORT (PBIA) - BLDG. S-1440
WEST PALM BEACH, PALM BEACH COUNTY, FLORIDA
FDEP FACILITY ID No. 50 / 8514018

EXHIBIT 4



LEGEND

- EXISTING MONITORING WELL
- NEW TERRACON MONITORING WELL

SCREENING CRITERIA (ug/L micrograms/LITER)		
PARAMETER	GCTL	NADC
TRPH	5000	50000

NOTES:

1. GCTL = GROUNDWATER CLEANUP TARGET LEVEL, CHAPTER 62-777, FLORIDA ADMINISTRATIVE CODE (F.A.C.)
2. NADC = NATURAL ATTENUATION DEFAULT CONCENTRATION, CHAPTER 62-777, FLORIDA ADMINISTRATIVE CODE (F.A.C.)

8250 CONCENTRATIONS GREATER THAN GCTL (BOLD TEXT/YELLOW)

3. I = REPORTED VALUES ARE BETWEEN METHOD DETECTION LIMIT (MDL) AND PRACTICAL QUANTITATION LIMIT.
4. U = ANALYTE WAS NOT DETECTED. REPORTED VALUES ARE BELOW MDL.

ESTIMATED EXTENT OF GROUNDWATER CONCENTRATIONS EXCEEDING GCTL'S (ug/L) RED (INFERRED WHERE DASHED)

Project Mngr:	AP
Drawn By:	SW
Checked By:	AP
Approved By:	EK

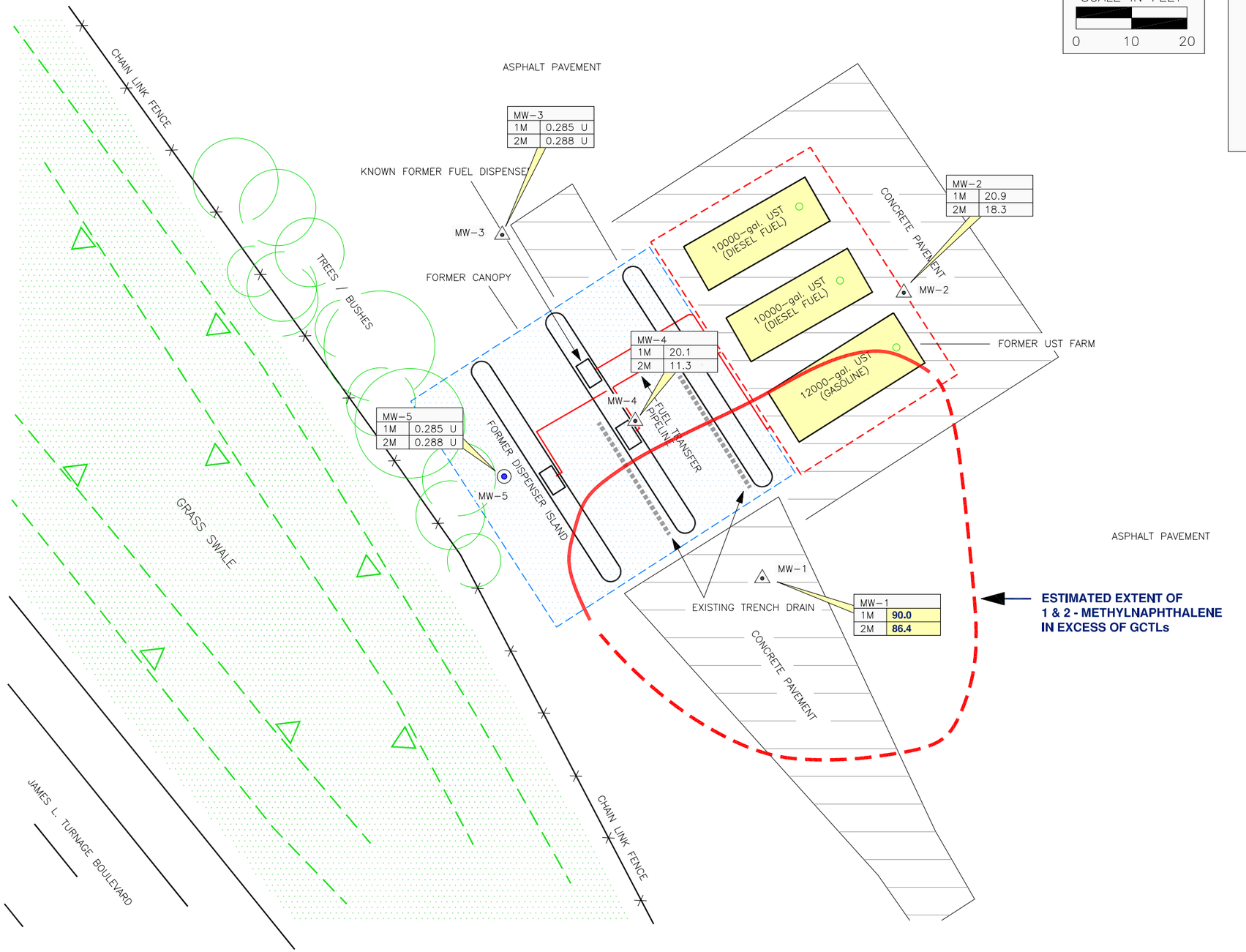
Project No.	HD157021
Scale:	AS SHOWN
File No.	HD157021-5
Date:	11-9-15

Terracon
Consulting Engineers and Scientists
1225 OMAR ROAD WEST PALM BEACH, FLORIDA 33405
PH. (561) 689-4299 FAX. (561) 689-5955

TRPH IN GROUNDWATER (10-15-2015)

LOW-SCORED SITE INITIATIVE ASSESSMENT REPORT
FORMER PALM TRAN FACILITY
PALM BEACH INTERNATIONAL AIRPORT (PBIA) - BLDG. S-1440
WEST PALM BEACH, PALM BEACH COUNTY, FLORIDA
FDEP FACILITY ID No. 50 / 8514018

EXHIBIT 5



LEGEND

- EXISTING MONITORING WELL
- NEW TERRACON MONITORING WELL

SCREENING CRITERIA (ug/L micrograms/LITER)		
PARAMETER	GCTL	NADC
1M – 1–METHYLNAPHTHALENE (ug/L)	28	280
2M – 2–METHYLNAPHTHALENE (ug/L)	28	280

NOTES:

1. GCTL = GROUNDWATER CLEANUP TARGET LEVEL, CHAPTER 62–777, FLORIDA ADMINISTRATIVE CODE (F.A.C.)
2. NADC = NATURAL ATTENUATION DEFAULT CONCENTRATION, CHAPTER 62–777, FLORIDA ADMINISTRATIVE CODE (F.A.C.)

30 CONCENTRATIONS GREATER THAN GCTL (BOLD TEXT/YELLOW)

3. I = REPORTED VALUES ARE BETWEEN METHOD DETECTION LIMIT (MDL) AND PRACTICAL QUANTITATION LIMIT.
4. U = ANALYTE WAS NOT DETECTED. REPORTED VALUES ARE BELOW MDL.

ESTIMATED EXTENT OF GROUNDWATER CONCENTRATIONS EXCEEDING GCTL'S (ug/L) RED (INFERRED WHERE DASHED)

Project Mngr:	AP
Drawn By:	SW
Checked By:	AP
Approved By:	EK

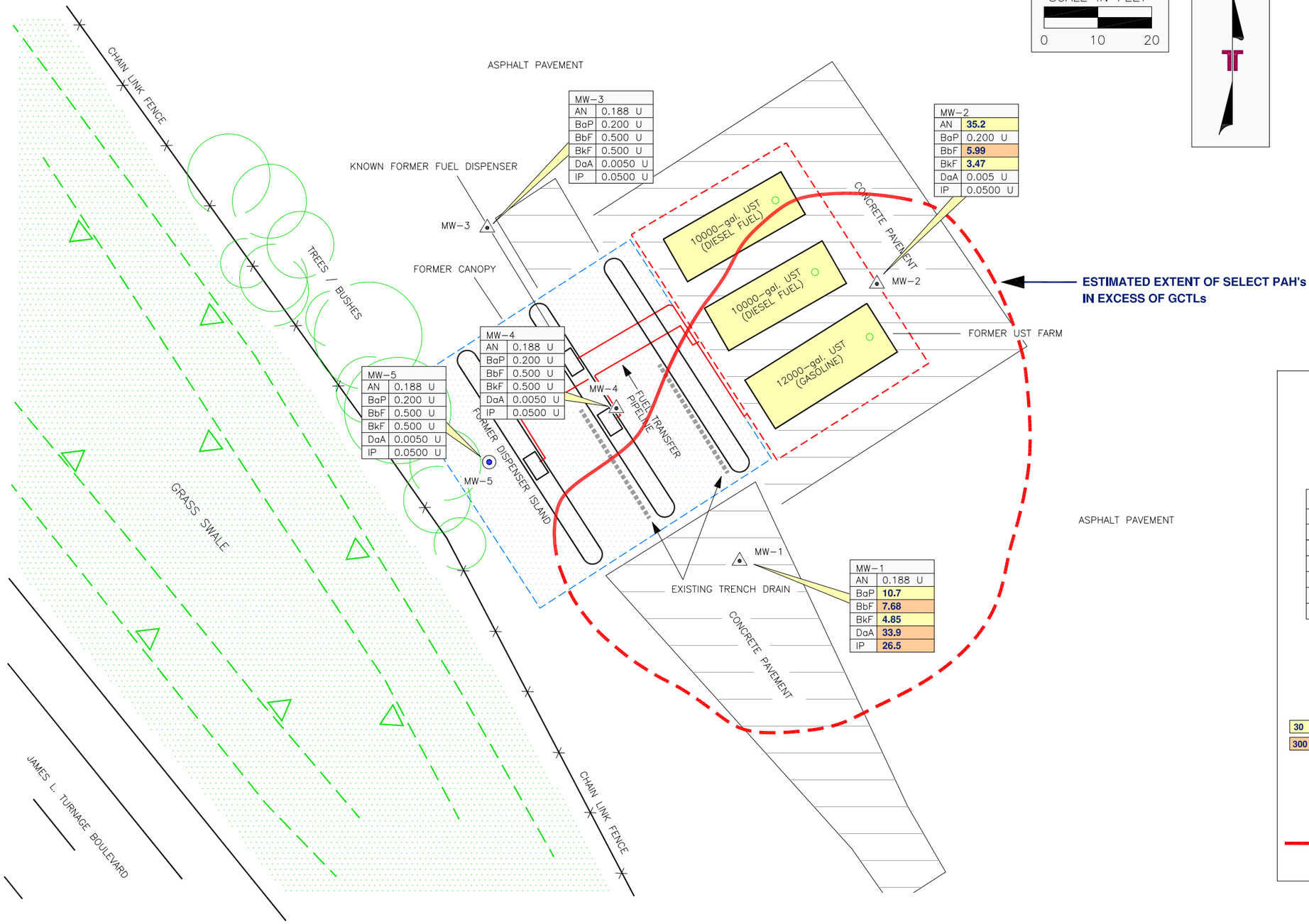
Project No.	HD157021
Scale:	AS SHOWN
File No.	HD157021-6
Date:	11-9-15

Terracon
Consulting Engineers and Scientists
1225 OMAR ROAD WEST PALM BEACH, FLORIDA 33405
PH. (561) 689-4299 FAX. (561) 689-5955

1 & 2 - METHYLNAPHTHALENE IN GROUNDWATER (10-15-2015)

LOW-SCORED SITE INITIATIVE ASSESSMENT REPORT
FORMER PALM TRAN FACILITY
PALM BEACH INTERNATIONAL AIRPORT (PBIA) - BLDG. S-1440
WEST PALM BEACH, PALM BEACH COUNTY, FLORIDA
FDEP FACILITY ID No. 50 / 8514018

EXHIBIT 6



LEGEND

- EXISTING MONITORING WELL
- NEW TERRACON MONITORING WELL

SCREENING CRITERIA (ug/L micrograms/LITER)		
PARAMETER (PAH)	GCTL	NADC
AN – ACENAPHTHENE (ug/L)	20	200
BaP – BENZO(a)PYRENE (ug/L)	0.2	20
BbF – BENZO(b)FLUORANTHENE (ug/L)	0.05	5
BkF – BENZO(k)FLUORANTHENE (ug/L)	0.05	5
DaA – DIBENZ(a,h)ANTHRACENE (ug/L)	0.005	0.5
IP – IDENO(1,2,3–cd)PYRENE (ug/L)	0.05	5

NOTES:

1. GCTL = GROUNDWATER CLEANUP TARGET LEVEL, CHAPTER 62–777, FLORIDA ADMINISTRATIVE CODE (F.A.C.)
2. NADC = NATURAL ATTENUATION DEFAULT CONCENTRATION, CHAPTER 62–777, FLORIDA ADMINISTRATIVE CODE (F.A.C.)

30 CONCENTRATIONS GREATER THAN GCTL (BOLD TEXT/YELLOW)

300 CONCENTRATIONS GREATER THAN NADC (BOLD TEXT/ORANGE)

3. I = REPORTED VALUES ARE BETWEEN METHOD DETECTION LIMIT (MDL) AND PRACTICAL QUANTITATION LIMIT.
4. U = ANALYTE WAS NOT DETECTED. REPORTED VALUES ARE BELOW MDL.

ESTIMATED EXTENT OF GROUNDWATER CONCENTRATIONS EXCEEDING GCTL'S (ug/L) RED (INFERRED WHERE DASHED)

Project Mngr:	AP
Drawn By:	SW
Checked By:	AP
Approved By:	EK

Project No.	HD157021
Scale:	AS SHOWN
File No.	HD157021-7
Date:	11-9-15

Terracon
Consulting Engineers and Scientists
1225 OMAR ROAD WEST PALM BEACH, FLORIDA 33405
PH. (561) 689-4299 FAX. (561) 689-5955

SELECT PAHs IN GROUNDWATER (10-15-2015)

LOW-SCORED SITE INITIATIVE ASSESSMENT REPORT
FORMER PALM TRAN FACILITY
PALM BEACH INTERNATIONAL AIRPORT (PBIA) - BLDG. S-1440
WEST PALM BEACH, PALM BEACH COUNTY, FLORIDA
FDEP FACILITY ID No. 50 / 8514018

EXHIBIT 7

Appendix C - Field Logs and Well Completion Report

BORING LOG

Boring/Well Number: SB-1	Permit Number: N/A	FDEP Facility Identification Number: 50/8514018
Site Name: Former Palm Tran Site	Borehole Start Date: 10/12/15 End Date: 10/12/15	Borehole Start Time: 09:10 ☑ AM ☐ PM End Time: 09:20 ☑ AM ☐ PM
Environmental Contractor: Terracon Consultants, Inc.	Geologist's Name: Andrew Petric, P.G.	Environmental Technician's Name: Randall Murphy
Drilling Company: Wombat Environmental, LLC	Pavement Thickness (inches): 2	Borehole Diameter (inches): 2 / Borehole Depth (feet): 8
Drilling Method(s): Direct-Push (DP)	Apparent Borehole DTW (in feet from soil moisture content): 5.3	Measured Well DTW (in feet after water recharges in well): NM
OVA (list model and check type): MiniRae 2000 ☐ FID ☑ PID		

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	0	1	Asphalt pavement (2-in thick), Tan lime rock base course (0.2-1 ft)	GP	D	
DP	1-2		--	--	--	3.0	2	Gray fine grained sand with some shell fragments from 2-3 ft (1-8 ft)	SP	D	
DP	2-3		--	--	--	60.3	3	Slight petroleum odor at 3 ft	SP	D	
DP	3-4		--	--	--	9999+	4	Strong petroleum odor at 4-8 ft	SP	D	
DP	4-6		--	--	--	9999+	5		SP	M/W	
DP							6		SP	S	
DP	6-8		--	--	--	9999+	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-2	N/A	50/8514018

Site Name:	Borehole Start Date: 10/12/15	Borehole Start Time: 09:22 ☑ AM ☐ PM
Former Palm Tran Site	End Date: 10/12/15	End Time: 09:35 ☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	5.3	NM	MiniRae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	48.4	1	Concrete pavement (5-in thick), brown fine grained sand (0.4-3 ft)	SP	D	
DP	1-2		--	--	--	528	2	Petroleum odor at 1-8 ft	SP	D	SB-2(1-2) - Lab ID 13883-05
DP	2-3		--	--	--	9999+	3		SP	D	
DP	3-4		--	--	--	9999+	4	Gray fine grained sand (3-4 ft)	SP	D	SB-2(3-4) - Lab ID 13883-04
DP	4-6		--	--	--	9999+	5	Reddish-brown fine grained sand (4-5 ft), 1-inch layer of concrete observed at 5 ft	SP	M/W	
DP							6	Gray fine grained sand (5-8 ft)	SP	S	
DP	6-8		--	--	--	9999+	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-3	N/A	50/8514018

Site Name:	Borehole Start Date: 10/12/15	Borehole Start Time: 09:40 ☑ AM ☐ PM
Former Palm Tran Site	End Date: 10/12/15	End Time: 09:46 ☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	5.3	NM	MiniRae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	0	1	Asphalt pavement (2-in thick), gray fine grained sand with lime rock gravel (0.2-2 ft)	SP	D	
DP	1-2		--	--	--	252	2		SP	D	
DP	2-3		--	--	--	471	3	Brown fine grained sand (2-3 ft)	SP	D	
DP	3-4		--	--	--	9999+	4	Gray fine grained sand (3-4.5 ft)	SP	D	
DP	4-6		--	--	--	9999+	5	Brown fine grained sand (4.5-5 ft)	SP	M/W	
DP							6	Gray fine grained sand (5-8 ft), petroleum odor at 1-8 ft	SP	S	
DP	6-8		--	--	--	9999+	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-4	N/A	50/8514018

Site Name:	Borehole Start Date: 10/12/15	Borehole Start Time: 09:48 ☑ AM ☐ PM
Former Palm Tran Site	End Date: 10/12/15	End Time: 10:13 ☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	5.3	NM	MiniRae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	3.5	1	Asphalt pavement (2-in thick), tan lime rock base course (0.2-0.7 ft)	GP/SP	D	
DP	1-2		--	--	--	5.6	2	Gray to red-brown fine grained sand (0.7-2 ft)	SP	D	
DP	2-3		--	--	--	3712	3	Very dark gray fine grained sand, petroleum staining (2-4 ft)	SP	D	SB-4(2-3) - Lab ID 13883-03
DP	3-4		--	--	--	9999+	4	Petroleum odor at 3-8 ft	SP	D	
DP	4-6		--	--	--	9999+	5	Brown fine grained sand (4-4.5 ft)	SP	M/W	
DP							6	Gray fine grained sand (4.5-8 ft)	SP	S	
DP	6-8		--	--	--	9999+	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-5	N/A	50/8514018

Site Name:	Borehole Start Date: 10/12/15	Borehole Start Time: 10:16 ☑ AM ☐ PM
Former Palm Tran Site	End Date: 10/12/15	End Time: 10:38 ☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	5.3	NM	MiniRae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	3514	1	Concrete pavement (5-in thick), light brown fine grained sand (0.4-2 ft)	SP	D	
DP	1-2		--	--	--	9999+	2	Petroleum odor at 0.5-8 ft	SP	D	
DP	2-3		--	--	--	9999+	3	Gray fine grained sand (2-8 ft)	SP	D	
DP	3-4		--	--	--	9999+	4		SP	D	
DP	4-6		--	--	--	9999+	5		SP	M/W	
DP							6		SP	S	
DP	6-8		--	--	--	9999+	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-6	N/A	50/8514018

Site Name:	Borehole Start Date: 10/12/15	Borehole Start Time: 10:49 ☑ AM ☐ PM
Former Palm Tran Site	End Date: 10/12/15	End Time: 11:01 ☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	5.3	NM	MiniRae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	2.4	1	Concrete pavement (4-in thick), light brown fine grained sand (0.3-8 ft)	SP	D	
DP	1-2		--	--	--	41.5	2		SP	D	
DP	2-3		--	--	--	165	3		SP	D	
DP	3-4		--	--	--	139	4		SP	D	
DP	4-6		--	--	--	0	5		SP	M/W	
DP							6		SP	S	
DP	6-8		--	--	--	0	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number: SB-7	Permit Number: N/A		FDEP Facility Identification Number: 50/8514018
Site Name: Former Palm Tran Site	Borehole Start Date: 10/12/15 End Date: 10/12/15	Borehole Start Time: 11:06 ☑ AM ☐ PM End Time: 11:15 ☑ AM ☐ PM	
Environmental Contractor: Terracon Consultants, Inc.	Geologist's Name: Andrew Petric, P.G.		Environmental Technician's Name: Randall Murphy
Drilling Company: Wombat Environmental, LLC	Pavement Thickness (inches): 2	Borehole Diameter (inches): 2	Borehole Depth (feet): 8
Drilling Method(s): Direct-Push (DP)	Apparent Borehole DTW (in feet from soil moisture content): 5.3	Measured Well DTW (in feet after water recharges in well): NM	OVA (list model and check type): MiniRae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	0	1	Asphlat pavement (2-in thick), tan lime rock base course (0.2-0.5 ft)	GP/SP	D	
DP	1-2		--	--	--	0	2	Light brown fine grained sand (0.5-8 ft)	SP	D	
DP	2-3		--	--	--	0	3		SP	D	
DP	3-4		--	--	--	0	4		SP	D	
DP	4-6		--	--	--	0	5		SP	M/W	
DP							6		SP	S	
DP	6-8		--	--	--	0	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-8	N/A	50/8514018

Site Name:	Borehole Start Date: 10/12/15	Borehole Start Time: 11:35 ☑ AM ☐ PM
Former Palm Tran Site	End Date: 10/12/15	End Time: 11:42 ☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	5.3	NM	MiniRae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	411	1	Asphlat pavement (2-in thick), tan lime rock base course (0.2-0.6 ft), slight petroleum odor at 0-1 ft	GP/SP	D	
DP	1-2		--	--	--	0	2	Brown fine grained sand (0.6-5 ft)	SP	D	
DP	2-3		--	--	--	1.2	3		SP	D	
DP	3-4		--	--	--	0	4		SP	D	
DP	4-6		--	--	--	1.4	5		SP	M/W	
DP							6	Light brown fine grained sand (5-8 ft)	SP	S	
DP	6-8		--	--	--	10.3	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-9	N/A	50/8514018

Site Name:	Borehole Start Date: 10/12/15	Borehole Start Time: 11:45 ☑ AM ☐ PM
Former Palm Tran Site	End Date: 10/12/15	End Time: 11:54 ☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	5.3	NM	MiniRae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	0	1	Asphlat pavement (2-in thick), tan lime rock base course (0.2-0.6 ft)	GP/SP	D	
DP	1-2		--	--	--	1.2	2	Brown fine grained sand (0.6-2.5 ft)	SP	D	
DP	2-3		--	--	--	31.1	3	Gray fine grained sand (2.5-8 ft)	SP	D	
DP	3-4		--	--	--	5437	4	Strong petroleum odor at 3-8 ft	SP	D	SB-9(3-4) - Lab ID 13883-02
DP	4-6		--	--	--	9999+	5		SP	M/W	
DP							6		SP	S	
DP	6-8		--	--	--	9999+	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-10	N/A	50/8514018

Site Name:	Borehole Start Date: 10/12/15	Borehole Start Time: 11:57 ☑ AM ☐ PM
Former Palm Tran Site	End Date: 10/12/15	End Time: 12:04 ☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	5.3	NM	MiniRae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	0	1	Asphlat pavement (2-in thick), tan lime rock base course (0.2-0.6 ft)	GP/SP	D	
DP	1-2		--	--	--	0	2	Light brown fine grained sand (0.6-8 ft)	SP	D	
DP	2-3		--	--	--	0	3		SP	D	
DP	3-4		--	--	--	224	4	Petroleum odor at 3-8 ft	SP	D	
DP	4-6		--	--	--	1472	5		SP	M/W	
DP							6		SP	S	
DP	6-8		--	--	--	970	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-11	N/A	50/8514018

Site Name:	Borehole Start Date: 10/12/15	Borehole Start Time: 12:06 ☐ AM ☑ PM
Former Palm Tran Site	End Date: 10/12/15	End Time: 12:23 ☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	5.3	NM	MiniRae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	0	1	Concrete pavement (4-in thick), light brown fine grained sand (0.3-8 ft)	SP	D	
DP	1-2		--	--	--	0	2		SP	D	
DP	2-3		--	--	--	0	3		SP	D	
DP	3-4		--	--	--	0	4		SP	D	
DP	4-6		--	--	--	5.5	5		SP	M/W	
DP							6		SP	S	
DP	6-8		--	--	--	63.5	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-12	N/A	50/8514018

Site Name:	Borehole Start Date: 10/12/15	Borehole Start Time: 12:24 ☐ AM ☑ PM
Former Palm Tran Site	End Date: 10/12/15	End Time: 12:36 ☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	5.3	NM	MiniRae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	0	1	Concrete pavement (4-in thick), light brown fine grained sand (0.3-8 ft), gravel in upper 1 ft	SP	D	
DP	1-2		--	--	--	0	2		SP	D	
DP	2-3		--	--	--	0	3		SP	D	
DP	3-4		--	--	--	0	4		SP	D	
DP	4-6		--	--	--	0	5		SP	M/W	
DP							6		SP	S	
DP	6-8		--	--	--	2.1	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-13	N/A	50/8514018

Site Name:	Borehole Start Date: 10/12/15	Borehole Start Time: 12:39 ☐ AM ☑ PM
Former Palm Tran Site	End Date: 10/12/15	End Time: 12:49 ☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	5.3	NM	MiniRae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	0	1	Concrete pavement (4-in thick), tan limerock fill (0.3-4 ft)	GP	D	
DP	1-2		--	--	--	0	2		GP	D	
DP	2-3		--	--	--	0	3		GP	D	
DP	3-4		--	--	--	21.1	4		GP	D	
DP	4-6		--	--	--	386	5	Brown fine grained sand (4-8 ft), slight petroleum odor from 4-8 ft	SP	M/W	
DP							6		SP	S	
DP	6-8		--	--	--	311	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-14	N/A	50/8514018

Site Name:	Borehole Start Date: 10/12/15	Borehole Start Time: 12:51 ☐ AM ☑ PM
Former Palm Tran Site	End Date: 10/12/15	End Time: 13:01 ☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	5.3	NM	MiniRae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	0	1	Concrete pavement (4-in thick), tan limerock fill (0.3-1 ft)	GP	D	
DP	1-2		--	--	--	0	2	Brown fine grained sand with shell fragments (1-4 ft)	SP	D	
DP	2-3		--	--	--	0	3		SP	D	
DP	3-4		--	--	--	0	4		SP	D	
DP	4-6		--	--	--	8.5	5	Brown fine grained sand (4-8 ft)	SP	M/W	
DP							6		SP	S	
DP	6-8		--	--	--	9.1	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-15	N/A	50/8514018

Site Name:	Borehole Start Date: 10/12/15	Borehole Start Time: 13:03 ☐ AM ☑ PM
Former Palm Tran Site	End Date: 10/12/15	End Time: 13:20 ☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	5.3	NM	MiniRae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	0	1	Concrete pavement (4-in thick), tan to brown limerock fill (0.3-2 ft)	GP	D	
DP	1-2		--	--	--	209	2		GP	D	
DP	2-3		--	--	--	1.2	3	Brown fine grained sand (2-8 ft)	SP	D	
DP	3-4		--	--	--	0	4		SP	D	
DP	4-6		--	--	--	0	5		SP	M/W	
DP							6		SP	S	
DP	6-8		--	--	--	0	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-16	N/A	50/8514018

Site Name:	Borehole Start Date: 10/12/15	Borehole Start Time: 12:32 ☐ AM ☑ PM
Former Palm Tran Site	End Date: 10/12/15	End Time: 12:43 ☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	5.3	NM	MiniRae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	0	1	Concrete pavement (4-in thick), tan limerock fill (0.3-3.5 ft)	GP	D	
DP	1-2		--	--	--	0	2		GP	D	
DP	2-3		--	--	--	0	3		GP	D	
DP	3-4		--	--	--	0	4	Brown fine grained sand (3.5-8 ft)	GP/SP	D	
DP	4-6		--	--	--	0	5		SP	M/W	
DP							6		SP	S	
DP	6-8		--	--	--	1.7	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-17	N/A	50/8514018

Site Name:	Borehole Start Date: 10/12/15	Borehole Start Time: 12:45 ☐ AM ☑ PM
Former Palm Tran Site	End Date: 10/12/15	End Time: 12:56 ☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	5.3	NM	MiniRae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	0	1	Concrete pavement (4-in thick), tan limerock fill (0.3-2.5 ft)	GP	D	
DP	1-2		--	--	--	0	2		GP	D	
DP	2-3		--	--	--	0	3	Brown fine grained sand (2.5-8 ft)	SP/SP	D	
DP	3-4		--	--	--	0	4		SP	D	
DP	4-6		--	--	--	612	5	Petroleum odor at 4-8 ft	SP	M/W	
DP							6		SP	S	
DP	6-8		--	--	--	1232	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-18	N/A	50/8514018

Site Name:	Borehole Start Date: 10/12/15	Borehole Start Time: 12:59 ☐ AM ☑ PM
Former Palm Tran Site	End Date: 10/12/15	End Time: 13:10 ☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	5.3	NM	MiniRae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	21.2	1	Concrete pavement (4-in thick), tan limerock fill with shell fragments (0.3-3 ft)	GP	D	
DP	1-2		--	--	--	180	2		GP	D	
DP	2-3		--	--	--	1837	3	Petroleum odor at 2-4 ft	GP	D	SB-18(2-3) - Lab ID 13883-01
DP	3-4		--	--	--	1039	4	Brown fine grained sand (3-8 ft)	SP	D	
DP	4-6		--	--	--	21.4	5		SP	M/W	
DP							6		SP	S	
DP	6-8		--	--	--	18.5	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-19	N/A	50/8514018

Site Name:	Borehole Start Date: 10/12/15	Borehole Start Time: 13:13 ☐ AM ☑ PM
Former Palm Tran Site	End Date: 10/12/15	End Time: 13:26 ☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	5.3	NM	MiniRae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	0	1	Concrete pavement (4-in thick), tan limerock fill (0.3-3 ft)	GP	D	
DP	1-2		--	--	--	0	2		GP	D	
DP	2-3		--	--	--	0	3		GP	D	
DP	3-4		--	--	--	1.2	4	Brown fine grained sand with some shell fragments (3-8 ft)	SP	D	
DP	4-6		--	--	--	368	5	Slight petroleum odor at 4-8 ft	SP	M/W	
DP							6		SP	S	
DP	6-8		--	--	--	508	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-20	N/A	50/8514018

Site Name:	Borehole Start Date: 10/12/15	Borehole Start Time: 13:22 ☐ AM ☑ PM
Former Palm Tran Site	End Date: 10/12/15	End Time: 13:34 ☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	5.3	NM	MiniRae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	0	1	Concrete pavement (4-in thick), tan to brown limerock fill (0.3-4 ft)	GP	D	
DP	1-2		--	--	--	0	2		GP	D	
DP	2-3		--	--	--	0	3		GP	D	
DP	3-4		--	--	--	0	4		GP	D	
DP	4-6		--	--	--	1.4	5	Gray fine grained sand (4-8 ft)	SP	M/W	
DP							6		SP	S	
DP	6-8		--	--	--	0	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-21	N/A	50/8514018

Site Name:	Borehole Start Date: 10/12/15	Borehole Start Time: 11:35 ☑ AM ☐ PM
Former Palm Tran Site	End Date: 10/12/15	End Time: 11:44 ☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	5.3	NM	MiniRae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	0	1	Concrete pavement (4-in thick), Light brown fine grained sand (0.3-8 ft)	SP	D	
DP	1-2		--	--	--	0	2		SP	D	
DP	2-3		--	--	--	0	3		SP	D	
DP	3-4		--	--	--	0	4		SP	D	
DP	4-6		--	--	--	0	5		SP	M/W	
DP							6		SP	S	
DP	6-8		--	--	--	0	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-22	N/A	50/8514018

Site Name:	Borehole Start Date: 10/12/15	Borehole Start Time: 11:47 ☑ AM ☐ PM
Former Palm Tran Site	End Date: 10/12/15	End Time: 11:59 ☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	5.3	NM	MiniRae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	0	1	Concrete pavement (4-in thick), tan lime rock base course (0.3-1 ft)	GP	D	
DP	1-2		--	--	--	0	2	Light brown fine grained sand (1-6 ft)	SP	D	
DP	2-3		--	--	--	20.2	3		SP	D	
DP	3-4		--	--	--	0.4	4		SP	D	
DP	4-6		--	--	--	9.1	5		SP	M/W	
DP							6		SP	S	
DP	6-8		--	--	--	9999+	7	Brown fine grained sand (6-8 ft)	SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-23	N/A	50/8514018

Site Name:	Borehole Start Date: 10/12/15	Borehole Start Time: 12:01 ☐ AM ☑ PM
Former Palm Tran Site	End Date: 10/12/15	End Time: 12:07 ☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	5.3	NM	MiniRae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	0	1	Concrete pavement (4-in thick), tan lime rock base course (0.3-1 ft)	GP	D	
DP	1-2		--	--	--	0	2	Light brown fine grained sand (1-8 ft)	SP	D	
DP	2-3		--	--	--	0	3		SP	D	
DP	3-4		--	--	--	0	4		SP	D	
DP	4-6		--	--	--	3041	5	Petroleum odor at 4-8 ft	SP	M/W	
DP							6		SP	S	
DP	6-8		--	--	--	9999+	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-24	N/A	50/8514018

Site Name:	Borehole Start Date: 10/12/15	Borehole Start Time: 12:09 ☐ AM ☑ PM
Former Palm Tran Site	End Date: 10/12/15	End Time: 12:17 ☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	5.3	NM	MiniRae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	0	1	Concrete pavement (4-in thick), tan limerock fill (0.3-4 ft)	GP	D	
DP	1-2		--	--	--	0	2		GP	D	
DP	2-3		--	--	--	2.1	3		GP	D	
DP	3-4		--	--	--	2.2	4		GP	D	
DP	4-6		--	--	--	2231	5	Brown fine grained sand (4-8 ft), petroleum odor at 4-8 ft	SP	M/W	
DP							6		SP	S	
DP	6-8		--	--	--	1587	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-25	N/A	50/8514018

Site Name:	Borehole Start Date: 10/12/15	Borehole Start Time: 12:20 ☐ AM ☑ PM
Former Palm Tran Site	End Date: 10/12/15	End Time: 12:30 ☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	5.3	NM	MiniRae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	0	1	Concrete pavement (4-in thick), tan limerock fill (0.3-1 ft)	GP	D	
DP	1-2		--	--	--	0	2	Brown fine grained sand (1-4 ft)	SP	D	
DP	2-3		--	--	--	0	3		SP	D	
DP	3-4		--	--	--	0	4		SP	D	
DP	4-6		--	--	--	0	5	Gray fine grained sand (4-8 ft)	SP	M/W	
DP							6		SP	S	
DP	6-8		--	--	--	0	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-26	N/A	50/8514018

Site Name:	Borehole Start Date: 10/12/15	Borehole Start Time: 15:26 ☐ AM ☑ PM
Former Palm Tran Site	End Date: 10/12/15	End Time: 15:36 ☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	5.3	NM	MiniRae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	0	1	Asphlat pavement (2-in thick), tan lime rock base course (0.2-0.6 ft)	GP/SP	D	
DP	1-2		--	--	--	0	2	Light brown fine grained sand (0.6-4 ft)	SP	D	
DP	2-3		--	--	--	0	3		SP	D	
DP	3-4		--	--	--	0	4		SP	D	
DP	4-6		--	--	--	9999+	5	Gray fine grained sand (4-6 ft), petroleum odor at 4-8 ft	SP	M/W	
DP							6		SP	S	
DP	6-8		--	--	--	1820	7	Light brown grained sand (6-8 ft)	SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-27	N/A	50/8514018

Site Name:	Borehole Start Date: 10/12/15	Borehole Start Time: 15:12 ☐ AM ☑ PM
Former Palm Tran Site	End Date: 10/12/15	End Time: 15:19 ☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	5.3	NM	MiniRae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	120	1	Asphlat pavement (2-in thick), tan to light brown lime rock base course (0.2-0.6 ft)	GP/SP	D	
DP	1-2		--	--	--	38.8	2	Gray fine grained sand (0.6-8 ft), slight petroleum odor at 0-1 ft	SP	D	
DP	2-3		--	--	--	1.1	3		SP	D	
DP	3-4		--	--	--	8336	4	Strong petroleum odor at 4-8 ft	SP	D	
DP	4-6		--	--	--	9999+	5		SP	M/W	
DP							6		SP	S	
DP	6-8		--	--	--	9999+	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-28	N/A	50/8514018

Site Name:	Borehole Start Date: 10/12/15	Borehole Start Time: 15:01 ☐ AM ☑ PM
Former Palm Tran Site	End Date: 10/12/15	End Time: 15:10 ☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	5.3	NM	MiniRae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	0	1	Asphlat pavement (2-in thick), tan lime rock base course (0.2-0.6 ft)	GP/SP	D	
DP	1-2		--	--	--	0	2	Tan fine grained sand with shell fragments (0.6-2 ft)	SP	D	
DP	2-3		--	--	--	6.2	3	Brown fine grained sand (2-8 ft)	SP	D	
DP	3-4		--	--	--	0	4		SP	D	
DP	4-6		--	--	--	0	5		SP	M/W	
DP							6		SP	S	
DP	6-8		--	--	--	0	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number: SB-29	Permit Number: N/A	FDEP Facility Identification Number: 50/8514018
Site Name: Former Palm Tran Site	Borehole Start Date: 10/12/15 End Date: 10/12/15	Borehole Start Time: 15:38 ☐ AM ☑ PM End Time: 15:46 ☐ AM ☑ PM
Environmental Contractor: Terracon Consultants, Inc.	Geologist's Name: Andrew Petric, P.G.	Environmental Technician's Name: Randall Murphy

Drilling Company: Wombat Environmental, LLC	Pavement Thickness (inches): 2	Borehole Diameter (inches): 2	Borehole Depth (feet): 8
Drilling Method(s): Direct-Push (DP)	Apparent Borehole DTW (in feet from soil moisture content): 5.3	Measured Well DTW (in feet after water recharges in well): NM	OVA (list model and check type): MiniRae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	131	1	Asphlat pavement (2-in thick), tan lime rock base course (0.2-0.6 ft), slight petroleum odor at 0-8 ft Light brown fine grained sand (0.6-8 ft)	GP/SP	D	
DP	1-2		--	--	--	91.0	2		SP	D	
DP	2-3		--	--	--	188	3		SP	D	
DP	3-4		--	--	--	36.0	4		SP	D	
DP	4-6		--	--	--	183	5		SP	M/W	
DP							6		SP	S	
DP	6-8		--	--	--	51.1	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-30	N/A	50/8514018

Site Name:	Borehole Start Date: 10/12/15	Borehole Start Time: 15:05 ☐ AM ☑ PM
Former Palm Tran Site	End Date: 10/12/15	End Time: 15:25 ☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	5.3	NM	MiniRae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	5085	1	Concrete pavement (5-in thick), tan limerock fill (0.4-1 ft), petroleum odor at 0-8 ft	GP	D	
DP	1-2		--	--	--	3712	2	Gray fine grained sand (1-3 ft)	SP	D	
DP	2-3		--	--	--	3562	3		SP	D	
DP	3-4		--	--	--	4732	4	Light brown fine grained sand (3-4 ft)	SP	D	
DP	4-6		--	--	--	772	5	Gray fine grained sand (4-8 ft)	SP	M/W	
DP							6		SP	S	
DP	6-8		--	--	--	2442	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

PLEASE EMAIL PERMIT

STATE OF FLORIDA PERMIT APPLICATION TO CONSTRUCT, REPAIR, MODIFY, OR ABANDON A WELL

. Petric

☐ Southwest
☐ Northwest
☐ St. Johns River
☐ South Florida
☐ Suwannee River
☐ DEP
☐ Delegated Authority (If Applicable) _____

PLEASE FILL OUT ALL APPLICABLE FIELDS
(Denotes Required Fields Where Applicable)

The water well contractor is responsible for completing this form and forwarding the permit application to the appropriate delegated authority where applicable.

Permit No. 5460-15
Florida Unique ID _____
Permit Stipulations Required (See Attached) _____
62-524 Quad No. _____ Delineation No. _____
CUP/WUP Application No. _____
ABOVE THIS LINE FOR OFFICIAL USE ONLY

1. Palm Beach County (Owner, Legal Name if Corporation) | 2633 Vista Parkway (Address) | West Palm Beach (City) | FL (State) | 33411 (ZIP) | 561-233-0252 (Telephone Number)
2. ~~Former Palm Tran Facility~~ ~~Palm Beach Int'll Airport Building S-1440~~ WPB (Well Location - Address, Road Name or Number, City)
3. 00-43-43-32-00-000-1090 (Parcel ID No. (PIN) or Alternate Key (Circle One)) → 1250 Perimeter Road 33413 | Lot | Block | Unit
4. 32 (Section or Land Grant) | 43 (Township) | 43 (Range) | Palm Beach (County) | Subdivision | Check if 62-524: ___ Yes ___ No
5. Paul Poorbaugh (Water Well Contractor) | 11193 (License Number) | 772-215-3395 (Telephone Number) | wombatenv@yahoo.com (E-mail Address)
6. 1025 SE Salerno Road (Water Well Contractor's Address) | Stuart (City) | FL (State) | 34997 (ZIP)

7. Type of Work: XXX Construction ___ Repair ___ Modification ___ Abandonment — Reason for Repair, Modification, or Abandonment _____
8. Number of Proposed Wells 4
9. Specify Intended Use(s) of Well(s):

___ Domestic
___ Bottled Water Supply
___ Public Water Supply (Limited Use/DOH)
___ Public Water Supply (Community or Non-Community/DEP)
___ Class I Injection
___ Landscape Irrigation
___ Recreation Area Irrigation
___ Agricultural Irrigation
___ Livestock
___ Nursery Irrigation
___ Commercial/Industrial
___ Golf Course Irrigation
___ Site Investigation
XXX Monitoring
___ Test
___ Earth-Coupled Geothermal
___ HVAC Supply
___ HVAC Return

Class V Injection: ___ Recharge ___ Commercial/Industrial Disposal ___ Aquifer Storage and Recovery ___ Drainage

Remediation: ___ Recovery ___ Air Sparge ___ Other (Describe) _____

___ Other (Describe) _____ (Note: Not all types of wells are permitted by a given permitting authority)

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Florida Department of Health - PH
Plan Review
Date Stamp
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10. Distance from Septic System if < 200 ft. >200 11. Facility Description former Palm Tran 12. Estimated Start Date 10-12-15
13. Estimated Well Depth 13 ft. Estimated Casing Depth 10 ft. Primary Casing Diameter 1 in. Open Hole: From 0 To 1 ft.
14. Estimated Screen Interval: From 3 To 13 ft.
15. Primary Casing Material: ___ Black Steel ___ Galvanized XXX PVC ___ Stainless Steel ___ Not Cased ___ Other: _____
16. Secondary Casing: ___ Telescope Casing ___ Liner ___ Surface Casing Diameter ___ in.
17. Secondary Casing Material: ___ Black Steel ___ Galvanized ___ PVC ___ Stainless Steel ___ Other _____
18. Method of Construction, Repair, or Abandonment: ___ Auger ___ Cable Tool ___ Jetted ___ Rotary ___ Sonic ___ Combination (Two or More Methods) ___ Hand Driven (Well Point, Sand Point) XXX Hydraulic Point (Direct Push) ___ Horizontal Drilling ___ Plugged by Approved Method ___ Other (Describe) _____
19. Proposed Grouting Interval for the Primary, Secondary, and Additional Casing:
From 0 To 1 Seal Material (___ Bentonite ___ Neat Cement XXX Other sand)
From 1 To 13 Seal Material (___ Bentonite XXX Neat Cement ___ Other)
From ___ To ___ Seal Material (___ Bentonite ___ Neat Cement ___ Other)
From ___ To ___ Seal Material (___ Bentonite ___ Neat Cement ___ Other)
20. Indicate total number of existing wells on site unknown List number of existing unused wells on site unknown
21. Is this well or any existing well or water withdrawal on the owner's contiguous property covered under a Consumptive/Water Use Permit (CUP/WUP) or CUP/WUP Application? ___ Yes XXX No If yes, complete the following: CUP/WUP No. _____ District Well ID No. _____
22. Latitude 26° 41.303'N Longitude 80° 4.658'W
23. Data Obtained From: XXX GPS ___ Map ___ Survey Datum: ___ NAD 27 XXX NAD 83 ___ WGS 84

I hereby certify that I will comply with the applicable rules of Title 40, Florida Administrative Code, and that a water well contractor or authorized representative, if needed, has been or will be obtained prior to commencement of well construction. I further certify that all information provided in this application is accurate and that I will obtain necessary approval from other federal, state, or local governments, if applicable. I agree to provide a well completion report to the District within 30 days after completion of the construction, repair, modification, or as otherwise authorized by this permit, or the permit expiration, whichever occurs first.

Raul Poorbaugh — Signature of Contractor | 11193 — License No.

I certify that I am the owner of the property, that the information provided is accurate, and that I am aware of my responsibilities under Chapter 373, Florida Statutes, to maintain or properly abandon this well; or, I certify that I am the agent for the owner, that the information provided is accurate, and that I have informed the owner of his responsibilities as stated above. Owner consents to allowing personnel of the WMD or Delegated Authority access to the well site during the construction, repair, modification, or abandonment authorized by this permit.

Raul Poorbaugh — Signature of Owner or Agent | 10-5-15 — Date

DO NOT WRITE BELOW THIS LINE - FOR OFFICIAL USE ONLY

Approval Granted By Kaj | Issue Date 10/7/15 | Expiration Date _____ | Hydrologist Approval KB (Initials)
Fee Received $ 50 | Receipt No. ~~2460029~~ 2460033 | Check No. Visa 9402

THIS PERMIT IS NOT VALID UNTIL PROPERLY SIGNED BY AN AUTHORIZED OFFICER OR REPRESENTATIVE OF THE WMD OR DELEGATED AUTHORITY. THE PERMIT SHALL BE AVAILABLE AT THE WELL SITE DURING ALL CONSTRUCTION, REPAIR, MODIFICATION, OR ABANDONMENT ACTIVITIES.

DEP Form: 62-532.900(1) Incorporated in 62-532.400(1), F.A.C. Effective Date: _____

PERMIT CONDITIONS

Permit Number:	*5410*	*-15*	**Page 2 of 2**

	Condition
1.	The Well Driller shall provide notice to the Department of the approximate start date and time that construction of the well at least 24 hours prior to the start of construction either by fax (561-837-5293) or e-mail (FDOHPB.Wells@flhealth.gov).
2.	The well shall be drilled and grouted in accordance with the requirements of Chapter 40E-3, F.A.C. and the construction details and site plan submitted with the application.
3.	The well shall not be located in any low area subject to flooding or within the minimum setback distance from any know hazard.
4.	If this is a replacement well, the existing well shall be abandoned by filling it from the bottom to the top with neat cement grout. This shall be accomplished before the new well is released for service.
5.	This permit does not indicate a waiver of or approval of any permits required by other federal/state/local agencies or of any permit required by the Department for other aspects of the total project.
6.	Separate well completion reports are required for each monitoring well despite having a single permit.
7.	*Upon completion of the well and prior to use, the following must be submitted to the Department before the well can be put into service:* *a. Private Drinking Water Well.* *(i). A well completion Report (No Later than 30 days from completion of construction).* *(ii). One satisfactory bacteriological sample result, no older than 30 days. Sample to be taken by the well contractor.* *b. Non-Potable Wells (Irrigation, Fire Protection, etc.).* *(i). A well completion Report (No Later than 30 days from completion of construction).* *c. Limited Use Well.* *(i). A well completion Report (No Later then 30 days from completion of construction).* *(ii). Five (5) satisfactory bacteriological sample results taken for five (5) consecutive days. Sample shall be taken by a certified lab. The last sample shall be no older than 30 days.* *(iii). Chemical analysis for lead and nitrate.*
8.	**Other Condition(s):** Environmental Control Rule II, Section 8, A.5 - For private and multi-family water wells and irrigation wells the casing shall be surrounded at grade level by a two-inch thick concrete pad extending at least six inches in all directions and the upper terminus of the well casing shall project at least 12 inches above finished grade. [Ord. 2005 – 003] Environmental Control Rule II, Section 8, A.6 - Whenever the pump is not set at the vertical casing, the line between the vertical casing and pump shall be considered an extension of the casing and protected from sanitary hazards in a similar manner as the casing.

STATE OF FLORIDA WELL COMPLETION REPORT

☐Southwest
☐Northwest
☐St. Johns River
☐South Florida
☐Suwannee River
☐DEP
☐Delegated Authority (If Applicable) _____

PLEASE, FILL OUT ALL APPLICABLE FIELDS
(*Denotes Required Fields Where Applicable)

Date Stamp

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A Petric

1.*Permit Number 5410-15 *CUP/WUP Number _____ *DID Number _____ 62-524 Delineation No. _____

2.*Number of permitted wells constructed, repaired, or abandoned 4 *Number of permitted wells not constructed, repaired, or abandoned 0

3.*Owner's Name Palm Beach County 4.*Completion Date 10-12-15 5. Florida Unique ID _____

6. 1250 Perimeter Road 33413
*Well Location - Address, Road Name or Number, City, ZIP

7.*County Pam Beach *Section 32 Land Grant _____ *Township 43 *Range 43

8. Latitude 26° 41.303'N Longitude 80° 4.658'W

9. Data Obtained From: xxx GPS ____Map ____Survey Datum: ____NAD 27 xxx NAD 83 ____WGS 84

10.*Type of Work: xx Construction ____Repair ____Modification ____Abandonment

11.*Specify Intended Use(s) of Well(s):
____Domestic
____Bottled Water Supply
____Public Water Supply (Limited Use/DOH)
____Public Water Supply (Community or Non-Community/DEP)
____Class I Injection
____Landscape Irrigation
____Recreation Area Irrigation
____Agricultural Irrigation
____Livestock
____Nursery Irrigation
____Commercial/Industrial
____Golf Course Irrigation
____Site Investigation
xxx Monitoring
____Test
____Earth-Coupled Geothermal
____HVAC Supply
____HVAC Return

Class V Injection: ____Recharge ____ Commercial/Industrial Disposal ____Aquifer Storage and Recovery ____Drainage
Remediation: ____Recovery ____Air Sparge ____Other (Describe) _____
____Other (Describe) _____

12.*Drill Method: ____Auger ____Cable Tool ____Rotary ____Combination (Two or More Methods) ____Jetted ____Sonic
____Horizontal Drilling xxx Hydraulic Point (Direct Push) ____Other _____

13.*Measured Static Water Level _____ ft. Measured Pumping Water Level _____ ft. After _____ Hours at _____ GPM

14.*Measuring Point (Describe) _____ Which is ____ft. ____Above ____Below Land Surface *Flowing: ____Yes ____No

15.*Casing Material: ____Black Steel ____Galvanized xxx PVC ____Stainless Steel ____Not Cased ____Other _____

16.*Total Well Depth 13 ft. Cased Depth 10 ft. *Open Hole: From 0 To 1 ft. *Screen: From 3 To 12 ft. Slot Size 0.010

17.*Abandonment: ____Other (Explain) _____

From____ft.	To____ft.	No. of Bags____	Seal Material (Check One):	____Neat Cement	____Bentonite	____Other____
From____ft.	To____ft.	No. of Bags____	Seal Material (Check One):	____Neat Cement	____Bentonite	____Other____
From____ft.	To____ft.	No. of Bags____	Seal Material (Check One):	____Neat Cement	____Bentonite	____Other____
From____ft.	To____ft.	No. of Bags____	Seal Material (Check One):	____Neat Cement	____Bentonite	____Other____
From____ft.	To____ft.	No. of Bags____	Seal Material (Check One):	____Neat Cement	____Bentonite	____Other____

18.*Surface Casing Diameter and Depth:

Dia____in.	From____ft.	To____ft.	No. of Bags____	Seal Material (Check One):	____Neat Cement	____Bentonite	____Other____
Dia____in.	From____ft.	To____ft.	No. of Bags____	Seal Material (Check One):	____Neat Cement	____Bentonite	____Other____

19.*Primary Casing Diameter and Depth:

Dia 1 in.	From 0 ft.	To 1 ft.	No. of Bags .5	Seal Material (Check One):	x Neat Cement	____Bentonite	____Other____
Dia____in.	From____ft.	To____ft.	No. of Bags____	Seal Material (Check One):	____Neat Cement	____Bentonite	____Other____
Dia 1 in.	From 1 ft.	To 13 ft.	No. of Bags____	Seal Material (Check One):	____Neat Cement	xxx Bentonite	Other sand
Dia____in.	From____ft.	To____ft.	No. of Bags____	Seal Material (Check One):	____Neat Cement	____Bentonite	____Other____
Dia____in.	From____ft.	To____ft.	No. of Bags____	Seal Material (Check One):	____Neat Cement	____Bentonite	____Other____

20.*Liner Casing Diameter and Depth:

Dia____in.	From____ft.	To____ft.	No. of Bags____	Seal Material (Check One):	____Neat Cement	____Bentonite	____Other____
Dia____in.	From____ft.	To____ft.	No. of Bags____	Seal Material (Check One):	____Neat Cement	____Bentonite	____Other____
Dia____in.	From____ft.	To____ft.	No. of Bags____	Seal Material (Check One):	____Neat Cement	____Bentonite	____Other____

21.*Telescope Casing Diameter and Depth:

Dia____in.	From____ft.	To____ft.	No. of Bags____	Seal Material (Check One):	____Neat Cement	____Bentonite	____Other____
Dia____in.	From____ft.	To____ft.	No. of Bags____	Seal Material (Check One):	____Neat Cement	____Bentonite	____Other____
Dia____in.	From____ft.	To____ft.	No. of Bags____	Seal Material (Check One):	____Neat Cement	____Bentonite	____Other____

22. Pump Type (If Known):
____Centrifugal ____Jet ____Submersible ____Turbine
Horsepower _____ Pump Capacity (GPM) _____
Pump Depth _____ft. Intake Depth _____ft.

23. Chemical Analysis (When Required):
Iron _____ppm Sulfate _____ppm Chloride _____ppm
____Laboratory Test ____Field Test Kit

24. Water Well Contractor:

*Contractor Name Paul A Poorbaugh *License Number 11193 E-mail Address wombatenv@yahoo.com

*Contractor's Signature Paul Poorbaugh
(I certify that the information provided in this report is accurate and true.)
*Driller's Name (Print or Type) Paul Poorbaugh

*Permit No. ____________________________

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
2379 BROAD STREET, BROOKSVILLE, FL 34604-6899
PHONE: (352) 796-7211 or (800) 423-1476
WWW.SWFWMD.STATE.FL.US

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
4049 REID STREET, PALATKA, FL 32178-1429
PHONE: (386) 329-4500
WWW.SJRWMD.COM

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT
152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712
(U.S. Highway 90, 10 miles west of Tallahassee)
PHONE: (850) 539-5999
WWW.NWFWMD.STATE.FL.US

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
P.O. BOX 24680
3301 GUN CLUB ROAD
WEST PALM BEACH, FL 33416-4680
PHONE: (561) 686-8800
WWW.SFWMD.GOV

SUWANNEE RIVER WATER MANAGEMENT DISTRICT
9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
WWW.MYSUWANNEERIVER.COM

***DRILL CUTTINGS LOG** (Examine cuttings every 20 ft. or at formation changes. Note cavities and depth to producing zone. Grain Size: F=Fine, M=Medium, and C=Coarse)

From_______ ft.	To_______ft.	Color____________	Grain Size (F, M, C)______	Material____________________
From_______ ft.	To_______ft.	Color____________	Grain Size (F, M, C)______	Material____________________
From_______ ft.	To_______ft.	Color____________	Grain Size (F, M, C)______	Material____________________
From_______ ft.	To_______ft.	Color____________	Grain Size (F, M, C)______	Material____________________
From_______ ft.	To_______ft.	Color____________	Grain Size (F, M, C)______	Material____________________
From_______ ft.	To_______ft.	Color____________	Grain Size (F, M, C)______	Material____________________
From_______ ft.	To_______ft.	Color____________	Grain Size (F, M, C)______	Material____________________
From_______ ft.	To_______ft.	Color____________	Grain Size (F, M, C)______	Material____________________
From_______ ft.	To_______ft.	Color____________	Grain Size (F, M, C)______	Material____________________
From_______ ft.	To_______ft.	Color____________	Grain Size (F, M, C)______	Material____________________
From_______ ft.	To_______ft.	Color____________	Grain Size (F, M, C)______	Material____________________
From_______ ft.	To_______ft.	Color____________	Grain Size (F, M, C)______	Material____________________
From_______ ft.	To_______ft.	Color____________	Grain Size (F, M, C)______	Material____________________
From_______ ft.	To_______ft.	Color____________	Grain Size (F, M, C)______	Material____________________
From_______ ft.	To_______ft.	Color____________	Grain Size (F, M, C)______	Material____________________
From_______ ft.	To_______ft.	Color____________	Grain Size (F, M, C)______	Material____________________
From_______ ft.	To_______ft.	Color____________	Grain Size (F, M, C)______	Material____________________
From_______ ft.	To_______ft.	Color____________	Grain Size (F, M, C)______	Material____________________
From_______ ft.	To_______ft.	Color____________	Grain Size (F, M, C)______	Material____________________
From_______ ft.	To_______ft.	Color____________	Grain Size (F, M, C)______	Material____________________
From_______ ft.	To_______ft.	Color____________	Grain Size (F, M, C)______	Material____________________
From_______ ft.	To_______ft.	Color____________	Grain Size (F, M, C)______	Material____________________
From_______ ft.	To_______ft.	Color____________	Grain Size (F, M, C)______	Material____________________
From_______ ft.	To_______ft.	Color____________	Grain Size (F, M, C)______	Material____________________
From_______ ft.	To_______ft.	Color____________	Grain Size (F, M, C)______	Material____________________
From_______ ft.	To_______ft.	Color____________	Grain Size (F, M, C)______	Material____________________

Comments: ____

____

____

____

***Detailed Site Map of Well Location**

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-1	Former Palm Tran Facility	50/8514018	10/13/2015

Well Location and Type (check appropriate boxes):
- [x] On-Site
- [ ] Right-of-Way
- [ ] Off-Site Private Property
- [ ] Above Grade (AG)
- [x] Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose:
- [ ] Perched Monitoring
- [x] Shallow (Water-Table) Monitoring
- [ ] Intermediate or Deep Monitori
- [ ] Remediation or Other (describ

Well Install Method: Direct-Push Tech. (DPT)

Surface Casing Install Method: N/A

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
13	13	3	8	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
1-inch PVC	[x] Flush-Threaded [ ] Other (describe	3 feet from 0 feet to 3 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
1-inch PVC	0.010-inch	10 feet from 3 feet to 13 feet

1st Surface Casing Material:	1st Surface Casing I.D. (inches):	1st Surface Casing Length:
also check: [ ] Permanent [ ] Temporary		feet from feet to feet

2nd Surface Casing Material:	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length:
also check: [ ] Permanent t [ ] Temporary		feet from feet to feet

3rd Surface Casing Material:	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length:
also check: [ ] Permanen t [ ] Temporary		feet from feet to feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
Silica sand, 20/30 graded	[x] Yes [x] No	11 feet from 2 feet to 13 feet

Filter Pack Seal Material and Size:	Filter Pack Seal Length:
Silica sand, 30/65 graded	1 feet from 1 feet to 2 feet

Surface Seal Material:	Surface Seal Length:
Neat cement grout	1 feet from 0 feet to 1 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):
10/13/15	[ ] Surge/Pump [x] Pump [ ] Compressed Air [ ] Other (describe)

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
[ ] Centrifugal [x] Peristaltic [ ] Submersible [ ] Other (describe)	Not Measured

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
0.20	Not Measured	[ ] Yes [x] No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
[x] Continuous [ ] Intermittent	6.4	32	[ ] Yes [x] No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
Brown, cloudy with petroleum odor	Clear with petroleum odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-2	Former Palm Tran Facility	50/8514018	10/13/2015

Well Location and Type (check appropriate boxes): ☑ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☐ Above Grade (AG) ☑ Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose: ☐ Perched Monitoring ☑ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitori ☐ Remediation or Other (describ

Well Install Method: Direct-Push Tech. (DPT)

Surface Casing Install Method: N/A

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
13	13	3	8	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
1-inch PVC	☑ Flush-Threaded ☐ Other (describe	3 feet from 0 feet to 3 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
1-inch PVC	0.010-inch	10 feet from 3 feet to 13 feet

1st Surface Casing Material:	1st Surface Casing I.D. (inches):	1st Surface Casing Length:
also check: ☐ Permanent ☐ Temporary		feet from feet to feet

2nd Surface Casing Material:	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length:
also check: ☐ Permanent t ☐ Temporary		feet from feet to feet

3rd Surface Casing Material:	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length:
also check: ☐ Permanen t ☐ Temporary		feet from feet to feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
Silica sand, 20/30 graded	☑ Yes ☑ No	11 feet from 2 feet to 13 feet

Filter Pack Seal Material and Size:	Filter Pack Seal Length:
Silica sand, 30/65 graded	1 feet from 1 feet to 2 feet

Surface Seal Material:	Surface Seal Length:
Neat cement grout	1 feet from 0 feet to 1 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):
10/13/15	☐ Surge/Pu ☑ Pump ☐ Compressed Air ☐ Other (describe)

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
☐ Centrifugal ☑ Peristaltic ☐ Submersible ☐ Other (describe)	Not Measured

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
0.20	Not Measured	☐ Yes ☑ No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
☑ Continuous ☐ Intermittent	7.0	35	☐ Yes ☑ No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
Brown, cloudy with petroleum odor	Clear, light amber with petroleum odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-3	Former Palm Tran Facility	50/8514018	10/13/2015

Well Location and Type (check appropriate boxes): ☑ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☐ Above Grade (AG) ☑ Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose: ☐ Perched Monitoring ☑ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitori ☐ Remediation or Other (describ

Well Install Method: Direct-Push Tech. (DPT)

Surface Casing Install Method: N/A

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
13	13	3	8	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
1-inch PVC	☑ Flush-Threaded ☐ Other (describe	3 feet from 0 feet to 3 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
1-inch PVC	0.010-inch	10 feet from 3 feet to 13 feet

1st Surface Casing Material:	1st Surface Casing I.D. (inches):	1st Surface Casing Length:
also check: ☐ Permanent ☐ Temporary		feet from feet to feet

2nd Surface Casing Material:	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length:
also check: ☐ Permanent t ☐ Temporary		feet from feet to feet

3rd Surface Casing Material:	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length:
also check: ☐ Permanen t ☐ Temporary		feet from feet to feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
Silica sand, 20/30 graded	☑ Yes ☑ No	11 feet from 2 feet to 13 feet

Filter Pack Seal Material and Size:	Filter Pack Seal Length:
Silica sand, 30/65 graded	1 feet from 1 feet to 2 feet

Surface Seal Material:	Surface Seal Length:
Neat cement grout	1 feet from 0 feet to 1 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):
10/13/15	☐ Surge/Pu ☑ Pump ☐ Compressed Air ☐ Other (describe)

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
☐ Centrifugal ☑ Peristaltic ☐ Submersible ☐ Other (describe)	Not Measured

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
0.20	Not Measured	☐ Yes ☑ No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
☑ Continuous ☐ Intermittent	7.0	35	☐ Yes ☑ No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
Brown, cloudy/ no odor apparent	Clear, light amber/ no odor apparent

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-4	Former Palm Tran Facility	50/8514018	10/13/2015

Well Location and Type (check appropriate boxes): ☑ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☐ Above Grade (AG) ☑ Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose: ☐ Perched Monitoring ☑ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitori ☐ Remediation or Other (describ

Well Install Method: Direct-Push Tech. (DPT)

Surface Casing Install Method: N/A

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
13	13	3	8	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
1-inch PVC	☑ Flush-Threaded ☐ Other (describe	3 feet from 0 feet to 3 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
1-inch PVC	0.010-inch	10 feet from 3 feet to 13 feet

1st Surface Casing Material:	1st Surface Casing I.D. (inches):	1st Surface Casing Length:
also check: ☐ Permanent ☐ Temporary		feet from feet to feet

2nd Surface Casing Material:	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length:
also check: ☐ Permanent t ☐ Temporary		feet from feet to feet

3rd Surface Casing Material:	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length:
also check: ☐ Permanen t ☐ Temporary		feet from feet to feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
Silica sand, 20/30 graded	☑ Yes ☑ No	11 feet from 2 feet to 13 feet

Filter Pack Seal Material and Size:	Filter Pack Seal Length:
Silica sand, 30/65 graded	1 feet from 1 feet to 2 feet

Surface Seal Material:	Surface Seal Length:
Neat cement grout	1 feet from 0 feet to 1 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):
10/13/15	☐ Surge/Pu ☑ Pump ☐ Compressed Air ☐ Other (describe)

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
☐ Centrifugal ☑ Peristaltic ☐ Submersible ☐ Other (describe)	Not Measured

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
0.20	Not Measured	☐ Yes ☑ No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
☑ Continuous ☐ Intermittent	6.4	32	☐ Yes ☑ No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
Brown, cloudy with petroleum odor	Clear with petroleum odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Palm Tran @ PBIA	SITE LOCATION: PBIA Building S - 1440 West Palm Beach, FL
WELL NO: MW-1	SAMPLE ID: MW-1	DATE: 10/15/15

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 3 feet to 13 feet	STATIC DEPTH TO WATER (feet): 5.60	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (13 feet – 5.60 feet) X 0.04 gallons/foot = 0.29 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~7.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~7.0	PURGING INITIATED AT: 0950	PURGING ENDED AT: 1020	TOTAL VOLUME PURGED (gallons): 6.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1010	4.0	4.0	0.2	5.92	7.67	30.40	1129	0.08	6	Clear	Petro
1015	1.0	5.0	0.2	5.92	7.67	30.45	1127	0.07	6	Clear	Petro
1020	1.0	6.0	0.2	5.92	7.67	30.49	1128	0.07	4	Clear	Petro

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

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Randall Murphy / Terracon	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1020	SAMPLING ENDED AT: 1031
PUMP OR TUBING DEPTH IN WELL (feet): ~7.0	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ μm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N)(replaced)	DUPLICATE: Y (N)	

SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-1	4	CG	40mL	–	–	–	8260	APP	100
MW-1	1	PE	125mL	HNO3	–	–	Pb	APP	250
MW-1	1	AG	1L	HCL	–	7.67	FL PRO	APP	250
MW-1	1	AG	1L	–	–	7.67	8270	APP	250

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do 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, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Tolmtech PBIA	SITE LOCATION: PBIA Buildings S-1440 West Palm Beach FL
WELL NO: MW-2	SAMPLE ID: MW-2
	DATE: 10/15/15

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 8 feet to 18 feet	STATIC DEPTH TO WATER (feet): 4.99	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (18 feet – 4.99 feet) X 0.04 gallons/foot = 0.32 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6.9	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6.9	PURGING INITIATED AT: 1040	PURGING ENDED AT: 1125	TOTAL VOLUME PURGED (gallons): 9.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (mS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1105	5.0	5.0	0.20	5.42	7.33	30.52	1612	0.25	12	Light Brown	Petro
1110	1.0	6.0	0.20	5.42	7.31	30.38	1610	0.14	8	Light Brown	Petro
1115	1.0	7.00	0.20	5.42	7.28	30.43	1620	0.21	8	Light Brown	Petro
1125	2.0	9.00	0.20	5.42	7.25	30.53	1619	0.08	8	Light Brown	Petro

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

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Randall Murphy / Terracon	SAMPLER(S) SIGNATURE(S): Randall Murphy	SAMPLING INITIATED AT: 1125	SAMPLING ENDED AT: 1145
PUMP OR TUBING DEPTH IN WELL (feet): 6.9	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-2	4	CG	40mL	–	–	–	BTEX	APP	100
MW-2	5	CG	40mL	–	–	–	EDB	APP	100
MW-2	2	AG	1L	HCL	–	<2	TRPH	APP	250
MW-2	2	AG	1L	–	–	<2	PAH	APP	250
MW-2	1	PE	125mL	HNO3	–	–	Pb	APP	250

REMARKS: Filled extra lab containers for QA/QC Purposes

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do 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, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: PALM TRAN (2) PBIA	SITE LOCATION: PBIA Building S-1440 West Palm Beach
WELL NO: MW-3	SAMPLE ID: MW-3
DATE: 10/15/15	

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 3 feet to 13 feet	STATIC DEPTH TO WATER (feet): 4.67	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (13 feet – 4.67 feet) X 0.04 gallons/foot = 0.33 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 5.6	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 5.6	PURGING INITIATED AT: 1155	PURGING ENDED AT: 1255	TOTAL VOLUME PURGED (gallons): 12.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1215	4.0	4.0	0.20	4.80	7.41	30.13	1105	0.08	32	Cloudy	None
1225	2.0	6.0	0.20	4.80	7.63	31.01	1148	0.08	12	Cloudy	None
1235	2.0	8.0	0.20	4.80	7.65	31.02	1159	0.15	11	Cloudy	None
1245	2.0	10.0	0.20	4.80	7.69	30.98	1164	0.08	8	Cloudy	None
1255	2.0	12.0	0.20	4.80	7.70	30.88	1166	0.07	8	Cloudy	None

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

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Randall Murphy/Terracon	SAMPLER(S) SIGNATURE(S): Randall Murphy	SAMPLING INITIATED AT: 1255	SAMPLING ENDED AT: 1306
PUMP OR TUBING DEPTH IN WELL (feet): 5.6	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW3	4	G	40mL	–	–	–	BTEX	APP	100
MW-3	1	AG	1L	HCL	–	7.70	EDB	APP	250
MW-3	1	AG	1L	NONE	–	7.70	PAH	APP	250
MW3	1	PE	125mL	HNO3	–	–	Pb	APP	250

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do 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, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Palm Tree @ PBIA	SITE LOCATION: PBIA Building 5-1440 West Palm Beach, FL
WELL NO: MW4	SAMPLE ID: MW4-
	DATE: 10/15/15

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 0 feet to 10 feet	STATIC DEPTH TO WATER (feet): 4.67	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (13 feet – 4.67 feet) X 0.04 gallons/foot = 0.33 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 5.6	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 5.6	PURGING INITIATED AT: 1358	PURGING ENDED AT: 1432	TOTAL VOLUME PURGED (gallons): 6.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1422	4.40	4.40	0.20	4.72	7.96	30.25	914	0.68	3	Clear	PETRO
1427	1.00	5.40	0.20	4.72	7.95	30.28	916	0.13	2	Clear	PETRO
1432	1.00	6.40	0.20	4.72	7.98	30.32	912	0.07	2	Clear	PETRO

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

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ransom Murphy/Terracon	SAMPLER(S) SIGNATURE(S): Randall Murphy	SAMPLING INITIATED AT: 1432	SAMPLING ENDED AT: 1443
PUMP OR TUBING DEPTH IN WELL (feet): 5.6	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW4	4	CG	40mL	–	–	–	BTEX	APP	200
MW4	1	AG	1L	HCL	–	7.98	EL PRO	APP	250
MW4	1	AG	1L	–	–	7.98	PAH	APP	250
MW4	1	PE	125mL	HNO_3	–	–	Pb	APP	250

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do 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, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

PALM TRAN @ PBIA	SITE LOCATION: PBIA Building 5-1400 WPB, FL	
L NO: MW-5	SAMPLE ID: MW5	DATE: 10/15/15

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 3 feet to 13 feet	STATIC DEPTH TO WATER (feet): 4.62	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (13 feet – 4.62 feet) X 0.16 gallons/foot = 1.34 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 5.6	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 5.6	PURGING INITIATED AT: 1310	PURGING ENDED AT: 1340	TOTAL VOLUME PURGED (gallons): 6.02

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (mS/cm)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1330	4.02	4.02	0.20	4.80	7.23	25.20	681	0.09	3	LT AMBER	SLIGHT PETRO
1335	1.00	5.02	0.20	4.80	7.23	28.22	680	0.08	2	LT AMBER	NONE
1340	1.00	6.02	0.20	4.80	7.22	28.20	678	0.07	1	LT AMBER	NONE

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
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ronnie Murphy/Terracon	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1340	SAMPLING ENDED AT: 1357
PUMP OR TUBING DEPTH IN WELL (feet): 5.6	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW5	4	CG	40 mL	—	—	—	BTEX	APP	100
MW5	1	AG	1L	HCL	—	7.22	RL PHC	APP	250
MW5	1	AG	1L	—	—	7.22	PAH	APP	250
MW5	1	PB	120 mL	HNO3	—	—	PB	APP	250

REMARKS: Existing MW

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do 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, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Boldly "X" this box if there is qualified data on this page.

Form FD9000-8 **CALIBRATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)** *11-10-05*

Project/Site: Former Palm Tran Facility Date: 10/15/15 Meter #

Temperature (Quarterly) *For Date of Last Temperature Verification see in log book*

Dissolved Oxygen	**DEP SOP FT 1500**	Initials	Date	Time	Probe Charge	Probe Gain	mg/L	Temp °c	% DO	Saturation mg/L (from chart)	Pass or Fail
											Acceptance Criteria: +/- 0.3mg/l
(CAL) ICV CCV		RLM	10/15/15	0925					100		(P) F
CAL ICV (CCV)		RLM	10/15/15	1325					100		(P) F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F

Specific Conductance	**DEP SOP FT 1200**	Initials	Date	Time	Standard µmhos/cm	Exp. Date	Lot #	Bottle #	Cell Constant	Reading µmhos/cm	Pass or Fail
											Acceptance Criteria: +/- 5%
(CAL) ICV CCV		RLM	10/15/15	0920	1413	~~2016~~ 7/20	3612			1412	(P) F
CAL ICV (CCV)		RLM	10/15/15	1320	1413	9/20	3612			1412	(P) F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F

pH	**DEP SOP FT 1100**	Initials	Date	Time	Standard SU	Exp. Date	Lot #	Bottle #	Slope	Reading SU	Pass or Fail
											Acceptance Criteria: +/- 0.2 SU
(CAL) ICV CCV		RLM	10/15/15	0911	7.00	2/16	2403657	BDH		7.00	(P) F
CAL ICV (CCV)		RLM	10/15/15	1314	7.00	2/16	2403657	BDH		7.00	(P) F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F

Maintenance: Weekly pH Slope: 10.0 Specific Conductance Probe Cleaned? Yes No Dissolved Oxygen Membrane Changed: Yes No

Notes:

Turbidity: 20 NTU

Perform only in Calibrate Mode: **CAL** - Calibrate -
Perform only in Run Mode: **ICV** - Initial Calibration Verification
Perform only in Run Mode: **CCV** - Continuing Calibration Verification

Location: PGIA Date: 10/12/15
Project / Client: Palm Tran
50/8514018

0830 AF + RM on-site, 80°F
mostly sunny, west wind

0840 check water level in existing
site monitoring well = 5.3'

0850 calibrate OVA - PID
Mini RAE 2000, calibrated at [illegible]
Serial # R 8048
calibration gas C_4H_8
100ppm, Lot # DAQ-248-10-2
Read 113 ppm, cal. 100ppm C_4H_8
calibrate fresh air 0 ppm

855 Wombat arrives, Jose Cristales
Truck at DPT Rig, go
over H+S Plan

9:10 set-up on boring SB-1
9:20 complete boring SB-1

9:22 set up on boring SB-2
9:35 complete boring SB-2

Location: PGIA Date: 10/12/15
Project / Client: Palm Tran
50/8514018 Scale

9:40 Set-up on boring SB-3
9:46 complete boring SB-3

Boring	Depth	PID ppm	Remarks (Litho)
SB-1	0-1	0	Asphalt (2") Base-course (0-1)
	1-2	3.0	gray f/s with some shells at 2-3 (1-8')
	2-3	66.3	slight odor, petro odor, petro 4'-8'
	3-4	9,999+ ~~50~~ UP	5,000 [illegible] wet at 5.5'
	4-6	9,999+	
	6-8	9,999+	
SB-2	0-1	48.4	concrete (5") 5"-3' brown f/s
	1-2	528	3'-4' gray f/s petro odor (1'-8')
	2-3	9999+	4-5' reddish brown sand f/s
	3-4	9999+	1" concrete layer at 5'

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Location PBIA Date 10/12/15

Project / Client Palm Tran

50/8514018

Borings	Depths	PID	Remarks
SB-2	4-6	9999+	Fg Sand) gray 5'-8'
	6-8	9999+	wet at 5.5'
SB-3	0-1		Asphalt 2"
	1-2	252	0 | 0-2' - gray f/s with LR gravel
	2-3	471	2-3' - brown f/s
	3-4	9999+	3-4.5' - gray f/s, petro odor (1-8')
	4-6	9999+	4.5'-5' - brown f/s
	6-8	9999+	5-8 - gray f/s, wet at 5.5'
SB-4	0-1	3.5	Asphalt 2"
	1-2	5.6	2"-8" - base course, 8"-2' gray to red brown f/s
	2-3	3712	2'-4' (very dark gray f/s, petro stained)

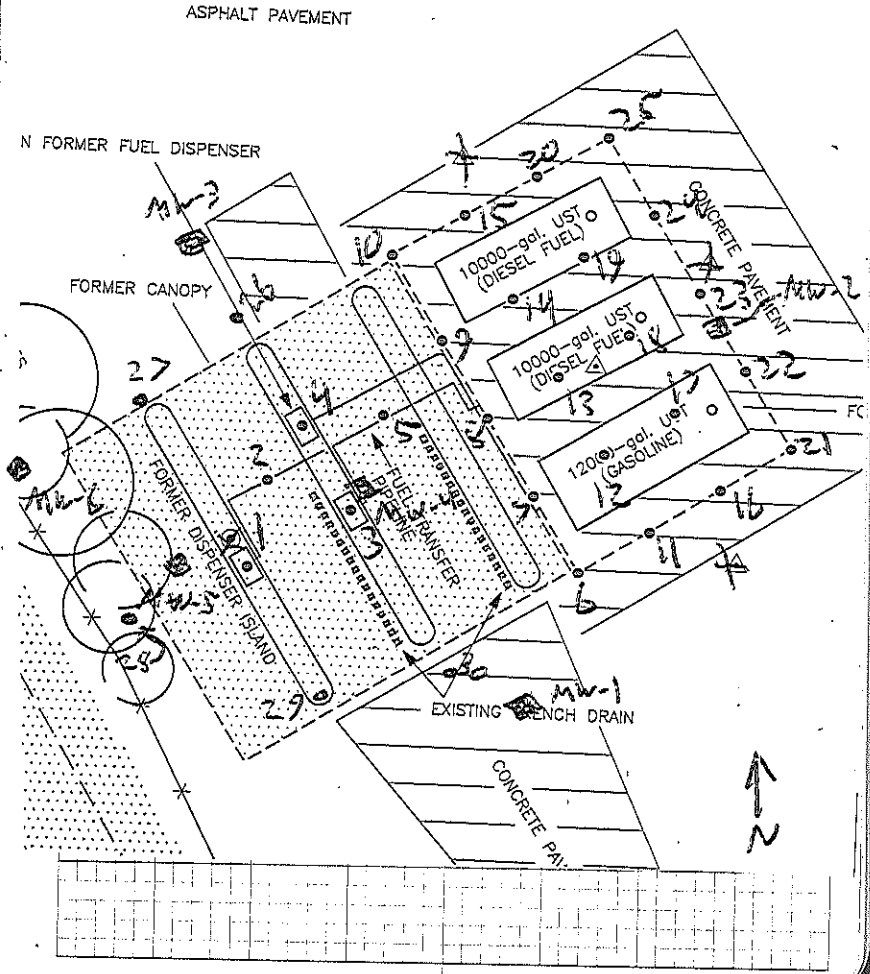
33

Location PBIA Date 10/12/15

Project / Client Palm Tran

50/8514018 Scale

Soil Sample locations



Location PBIA Date 10/12/15
Project / Client Palm Tran
50/851401Q

9:48 Start boring SB-4 (Drill Rig
1013 END boring SB-4 (maintenance)

1016 Start SB-5
10:38 END SB-5

1049 Start SB-6
1101 END SB-6

1106 Start SB-7
1115 END SB-7

11:23 - 2nd Dppt driller for wombat (chad) arrives, take short break

1135 Start SB-8 (Jose)
1142 END SB-8

1135 Start SB-21 (Chad)
1144 END SB-21

1145 Start SB-9 (Jose)
1154 END

Location PBIA Date 10/12/15
Project / Client Palm Tran
50/8514018 Scale

Boring	Depth	PID	Remarks
SB-4	3-4	9999+	Petro odor (3-8')
↓	4-6	9999+	4-4.5' brown f/s 4.5'-8' - gray f/s
↓	6-8	9999+	wet at 5.5'
SB-5	0-1	3514	concrete (5") 5"-2' Light brown f/s
	1-2	9999+	2'-8' Gray f/s
	2-3	9999+	wet at 5.5' Petro odor (0.5'-8')
	3-4	9999+	
	4-6	9999+	
	6-8	9999+	
SB-6	0-1	2.4	concrete (4")
	1-2	41.5	4"-8' light brown f/s

Location PB/A Date 10/12/15

Project / Client Palm Tran
50/85140.15

Boring	Depth	PID	Remarks
SB-6	2-3	165	wet at 5-5'
	3-4	139	NO Petro odors observed
	4-6	0	
	6-8	0	
SB-7	0-1	0	0-2" - Asphalt
	1-2	0	2"-6" - Base course
	2-3	0	6"-5' light brown f/s, Lt tan
	3-4	0	NO petro odors
	4-6	0	wet at 5.5'
	6-8	0	
SB-8	0-1	411	Asphalt (2")
	1-2	0	Base cours 2"-8"
	2-3	1.2	8"-5' Brown f/s Slight Petro odor 0-1'

Location PB/A Date 10/12/15

Project / Client Palm Tran
50/85140.15 Scale

Boring	Depth	PID	Remarks
SB-8	3-4	0	wet at 5.5'
	4-6	1.4	5'-8' light br f/s
	6-8	10.3	
SB-21	0-1	0	Concrete (4")
	1-2	0	4"-8' Light brown f/s
	2-3	0	wet at 5.5'
	3-4	0	
	4-6	0	
	6-8	0	
SB-9	0-1	0	Asphalt (2")
	1-2	1.2	Base course (2"-8") 8"-2.5 brown f/s

Location PB1A Date 10/12/14

Project / Client Palo Tran

50/8514018

Boring	Depth	PID	Remarks
SB-22	0-1	0	concrete 0-4"
			SLB base 4"-1'
	1-2	0	Light Brown f/s (1'-6')
			Brown f/s (6'-8')
	2-3	20.2	- no odors observed
	3-4	0.4	wet at 5.5'
	4-6	9.1	
	6-8	9999+	
SB-9	2-3	31.1	2.5'-8' gray f/s
	3-4	[illegible]	strong odor, petro (3-8')
	4-6	9999+	wet at 5.5'
	6-8	9999+	
SB-10	0-1	0	Asphalt (2")
	1-2	0	2"-8" base course
	2-3	0	

Location PB1A Date 10/12/15

Project / Client Palo Tran

50/8514018 Scale

Boring	Depth	PID	Remarks
SB-10	3-4	224	8"-8' Light brown f/s
			3-8' petro odor
	4-6	1472	
	6-8	970	
SB-23	0-1	0	Concrete (4")
			4"-1' base course
	1-2	0	1'-8' Light brown f/s
	2-3	0	Petro odor 4-6' bgs
	3-4	0	
	4-6	3041	
	6-8	9999+	
SB-11	0-1	0	0-4" Concrete
	1-2	0	4"-8' brown f/s

Location: PBIA Date: 10/12/15

Project / Client: Palm Tran 50/8514018

1147 Start SB-22 (chad)
1159 END SB-22

1157 Start SB-10 (Jose)
1204 END SB-10

1201 Start SB-23 (chad)
1207 END SB-23

1206 Start SB-11 (Jose)
1223 END SB-11

1209 Start SB-24 (Chad)
1217 END SB-24

1220 Start SB-25 (chad)
1230 END SB-25

1209 - PID stopped working
Called Pine Rental to deliver
new PID. continue drilling,
cap DPT liners.

1224 OVA-PID now functioning (wiggled battery)
- Hard re-set

Location: PBIA Date: 10/12/15

Project / Client: Palm Tran 50/8514018

Scale

Boring	Depth	PID	Remarks
SB11	2-3	0	No odors
			wet at 5.5'
	3-4	0	
	4-6	5.5	
	6-8	63.5	
SB-24	0-1	0	0-4" concrete
			4"-4' tan LR fill
	1-2	0	4'-8' brown fg sand
	2-3	21	4-8' petro odor
	3-4	22	wet at 5.0'
	4-6	2231	
	6-8	1587	

Location PBIA Date 10/12/14

Project / Client Palm Tran

50/8514018

1224 Start SB-12 (Jose)
1236 END SB-12

1232 Start SB-16 (Shaw)
1243 END SB-16

1239 Start SB-13 (Jose)
1249 END SB-13

1245 Start SB-17 (Chad)
1256 END SB-17

1251 Start SB-14 (Jose)
1301 END SB-14

1254 OVA cal check
- Readings 104 ppm, nat
Calibrated

1259 Start SB-18 (Chad)
1310 END SB-18

Location PBIA Date 10/12/14

Project / Client Palm Tran

50/8514018 Scale

Boring	Depth	PID	Remarks
SB-12	0-1	0	concrete (0-4")
			4" - 8' - brown f/s,
	1-2	0	grand at 2"-2'
	2-3	0	No odors observed
			wet at 5.0 ft
	3-4	0	
	4-6	0	
	6-8	2.1	
SB-25	0-1	0	Concrete (4")
			4" - 1' LR Fill
	1-2	0	1' - 4' brown f/s
	2-3	0	4' - 8' gray f/s
	3-4	0	No odors
	4-6	0	wet at 5.5'
	6-8	0	

Location PBIA Date 10/12/15

Project / Client Palm Tran

50/85140018

Boring	Depth	PID	Remarks
SB-13	0-1	0	0-4" concrete
	1-2	~~3.1~~ 0 dup	4"-4' LA Fill
			4'-8' Brown f/s
	2-3	0	Slight Petro odor from 4-8'
	3-4	21.1	wet at 5.5'
	4-6	386	
	6-8	311	
SB-16	0-1	0	0-4" - Concrete
	1-2	0	4"-3.5' LA Fill tan
	2-3	0	3.5'-8' - Brown f/s
	3-4	0	No odors apparent
	4-6	0	wet at 5-5'
	6-8	1.7	

Location PBIA Date 10/12/15

Project / Client Palm Tran

50/85140018

Scale

Boring	depth	PID	Remarks
SB-14	0-1	0	0-4" concrete
	1-2	0	4"-1' - tan LR Fill
	2-3	0	1'-4' - brown f/s w/ shell frags
	3-4	0	4'-8' - brown f/s, clean
	4-6	8.5	No odors observed
	6-8	2.1	wet at 5.5'
SB-17	0-1	0	0-4" Concrete
	1-2	0	4"-2.5' tan LR Fill
	2-3	0	2.5'-8' - brown f/s
	3-4	0	odor, petro 4'-8'
	4-6	612	wet at 5.5'
	6-8	1232	

Location PB1A Date 10/12/15

Project / Client Palm Tran

50/85140018

1303 ~~SB-15~~ Start SB-15 (Jose)

1320 END SB-15

1313 Start SB-19

1326 END SB-19 (Chad)

1322 Start SB-20

1334 END SB-20 (Jose)

1345 - 1420 - Evaluate PID data
Speak to WAS to select
boring locations for Lab Analysis*

Sample

1430	SB-2	(1'-2')
1415	SB-2	(3-4')
1400	SB-4	(2'-3')
1545	SB-8	(3'-4')
1530	SB-18	(2'-3')

* Borings SB-2, SB-4, SB-8, SB-18 re-drilled Appox 4" from original bore hole

Location PB1A Date 10/12/15

Project / Client Palm Tran

50/85140018 Scale

SB-15	0-1	0	0-4" Concrete
	1-2	2.0	4"-2' tan to brown LA fill
	2-3	1.2	2'-3' brown f/s
	3-4	0	No Petro odors
	4-6	0	wet at 5.5'
	6-8	0	
SB-19	0-1	21.2	0-4" - Concrete
	1-2	150	4"-3' tan to brown LA fill w/ shells
	2-3	1837	3'-8' brown f/s
	3-4	1039	2-4' Petro odor noted
	4-6	21.4	wet at 5.5'
	6-8	18.5	

Location PBIA Date 10/12/15
Project / Client Palm Tran
50/8514015

SB-19	0-1	0	0-4" Concrete
	1-2	0	4"-3' tan LR fill
	2-3	0	3'-8' Brown f/s w/ some shell frags
	3-4	1.2	5.5' - wet
	4-6	368	4-8' - slight Petro odor
	6-8	508	

	0-1	0	0-4" concrete
SB-20	1-2	0	4"-4' Brown to tan LR fill
	2-3	0	4'-8' gray f/s
	3-4	0	No Petro odor
	4-6	1.4	wet at 5.5'
	6-8	0	

Location PBIA Date 10/12/15
Project / Client Palm Tran
50/8514018 Scale

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[initials]

Location PBIA Date 10/12/15

Project / Client Palm Tran

50/8514018

1526 Start Step-out Boring SB-26
1536 END SB-26

1512 Start Step-out Boring SB-27
1519 END Stepout Boring SB-27

1501 Start Step-out Boring SB-28
1510 END Boring SB-28

1535 Start Step-out Boring SB-29
1546 END Boring SB-29

1505 Start Step-out Boring SB-30
1525 END Step out Boring SB-30

1600 - Drillers off-site

1645 - All of f-site

END

Location PBIA Date 10/12/15

Project / Client Palm Tran

50/8514018 Scale

Boring	Depth	PID	Remarks
SB-26	0-1	0	0-2" Asphalt
	1-2	0	2"-8" Base course fill tan
	2-3	0	8"-4' light brown f/s
	3-4	0	4'-6' gray f/s
	4-6	9999+	6'-8' light-br f/s
	6-8	1820	Petro odor (4'-8')
			wet at 5.5'
SB-27	0-1	120	0-2" Asphalt
	1-2	38.3'	2"-8" LR Fill, tan to lt brown
	2-3	1.1	8"-5' gray f/s
	3-4	8336	0-1' slight petro odor
	4-6	9999+	Strong odor 1'-8'
	6-8	9999+	wet at 5.5'

Location PBIA Date 10/12/15

Project / Client Palm Tran

50 / 85140.18

Boring	Depth	PID	Remarks
SB-28	0-1	0	0-2" Asphalt
			2"-8" Base course, tan
	1-2	0	8"-2' tan f/s w/ shell
	2-3	0.2	2'-8' brown f/s
	3-4	~~2.0~~ 0.0	No odors observed
	4-6	0	wet at 5.5'
	6-8	0	
SB-29	0-1	131	0-2" Asphalt
	1-2	91.0	2"-8' LR fill, tan
	2-3	188	8"-8' light brown f/s
	3-4	36.0	slight petro odor 0-8'
	4-6	163	wet at 5.5'
	6-8	51.1	

Location PBIA Date 10/12/15

Project / Client Palm Tran

50 / 85140.18

Scale

Boring	Depth	PID	Remarks
SB-26	0-1	5085	0-5" concrete
			5"-1' LR fill, tan
	1-2	3712	1'-3' gray f/s
	2-3	3562	3'-4' light br f/s
	3-4	4732	4'-8' gray f/s
			All depths - petro odor
	4-6	772	wet at 5.5'
	6-8	2442	
		END	

10/13/15 HD157021

0800 consult w/ Wombat & 1997 5410 Geoprobe Dezaw equipment

0825 Mobilized to MW-1 location & Begin Drilling Saw cut concrete Drilling to 13 feet in depth, set well (1") @ 0940 Pour pack well and 20/30 sand filter Drawn rods Seal w/ Portland from 11' to 13' 1045 Poured pad

1055 Began Developing well @ 0.20 gpm w/ peristaltic pump.

0950 Begin Drilling @ MW-2 Saw cut concrete for pad 1157 Completed @ 6.4 gallons

1105 Set well (1" prepacked) to 13 feet used 20/30 sand as additional filter to 11 feet 11-13 Portland Drawn rods

1228 Poured pad

1246 Began Developing well w/ peristaltic pump @ 0.2 gpm

1321 Completed Development @ 7.0 gal

1130 Mobilized to MW-3 & Begin Drilling

1251 Set 1" prepacked well to 13 feet & add 20/30 sand for filter to 11 feet - Drawn rods 11-13 Seal w/ Portland

1353 Poured pad

10/13/15 HD157021

1400 Began Development w/ peristaltic pump @ 0.2 gpm 1435 Completed @ 7.0 gal

1257 Mobilize to MW 4 & Begin Drilling

1323 Set 1" prepacked well to 13 feet Added 20/30 sand to filter up to 11 feet Sealed from 11-13 w/ Portland

1330 Poured pad

1343 Began Development @ 0.2 gpm

1415 Completed @ 6.4 gal

1455 Clean up & offsite

0830 Onsite Mobilizing Surveying Equipment & Shot Elevations of MW's, Relative to arbitrary Bench Mark (Manhole onsite) Stadia Length 53"

Bench Mark Manhole Cover 5.17

MW-6	=	4.30	+ 0.87
MW-3	=	5.52	- 0.35
MW 4	=	5.55	- 0.38
MW 5	=	5.60	- 0.43
MW 2	=	5.24	- 0.07
MW 1	=	5.40	- 0.23

Manhole Cover EL. = 0.0

0905 Calibrate Sampling Equipment See Cal Forms

Water Table MW6 = 6.73

0950 Began Collecting Groundwater Samples @ MW 1 until 1031

1040 Began Collecting Groundwater Samples at MW 2 & QA/QC until 1148

1150 Began Collecting Groundwater Samples at MW 3 until 1206

1310 Began Groundwater Sampling @ MW 5 until 1357

Checked total depth @ MW-6 (4" well) = 14'

1325 Recalibrated Sampling Equipment See Cal Logs

1358 Began Collecting Groundwater Samples at MW 4 until 1443

1447 Locked Gate, Offsite to VAF (PBEL)

Terracon

PROJECT: Former Palm Tree Page 1 of 1

JOB NO. HD157021 Date 10/29/15 Comp. By AP CHECKED BY:

Surveying (TOP-of-casing Elevation Calcs)

BM = 5.17' = 100.00'

			TOC (relative Ft)
MW-1 =	5.40 .	5.17 - 5.40 + 100.00 =	99.77
MW-2 =	5.24 .	5.17 - 5.24 + 100.00 =	99.93
MW-3 =	5.52 .	5.17 - 5.52 + 100.00 =	99.65
MW-4 =	5.55 .	5.17 - 5.55 + 100.00 =	99.62
MW-5 =	5.60 .	5.17 - 5.60 + 100.00 =	99.57

Appendix D – Laboratory Analytical Reports and Chain-of-Custody Records

Palm Beach Environmental Laboratories Inc.

Andrew Petric
Terracon WPB
West Palm Beach, FL 33405
(561) 689-4299
LOG #: 0013883

October 19, 2015

Enclosed is the laboratory report for your project. All results meet the requirements of the NELAC standards.

Please note the following:

(1) The samples were received as stated on the chain of custody, correctly labeled and at the proper temperature unless otherwise noted. The results contained in this report relate only to the items tested or to the samples as received by the laboratory.

(2) This report may not be reproduced except in full, without the written approval of the laboratory. Any anomalies are noted in the case narrative.

(3) Results for all solid matrices are reported in dry weight unless otherwise noted.

(4) Results for all liquid matrices are analyzed as received in the laboratory unless otherwise noted.

(5) Samples are disposed of within 30 days of their receipt by the laboratory.

(6) A statement of Qualifiers is available upon request.

(7) Certain analyses are subcontracted to outside NELAC certified laboratories and are designated on your report.

(8) Precision & Accuracy will be provided when clients require a measure of estimated uncertainty.

(9) The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report Preliminary Data should not be used for regular purposes. Authorized signature(s) is provided on final report only

Please contact me if you have any questions or concerns regarding this report.

Sincerely,

Pamela Shore
QA Officer

Palm Beach Environmental Laboratories Inc.

CERTIFICATE OF ANALYSIS

Terracon WPB
1225 Omar Road
West Palm Beach, FL 33405
ATTN: Andrew Petric
PHONE: (561) 689-4299 **FAX:** (561) 689-5955

LOG #: 0013883
COC#: 22122
REPORTED: 10/19/2015 10:44:41AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: SB-18 (2-3) **Lab ID:** 0013883-01 **Sampled:** 10/12/15 15:30
Matrix: Soil **Sampled By:** Andrew Petric **Received:** 10/13/15 09:05

EPA 8020 List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
71-43-2	Benzene	0.0002	U	mg/kg	EPA 5035 / 8260C	1	0.0002	0.001	10/15/15	10/15/15	PLS
108-88-3	**Toluene**	**0.002**		mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
108-90-7	Chlorobenzene	0.0004	U	mg/kg	EPA 5035 / 8260C	1	0.0004	0.001	10/15/15	10/15/15	PLS
100-41-4	**Ethylbenzene**	**0.0004**	I	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
108-38-3/ 106-42-3	**m,p-Xylene**	**0.0005**	I	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
95-47-6	o-Xylene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
541-73-1	1,3-Dichlorobenzene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
106-46-7	1,4-Dichlorobenzene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
95-50-1	1,2-Dichlorobenzene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
1634-04-4	MTBE	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS

		% Recovery	Q	% Recovery Limits
1868-53-7	Surrogate: Dibromofluoromethane	85.3 %		Limit 55-200
2037-26-5	Surrogate: Toluene-d8	111 %		Limit 66-144
460-00-4	Surrogate: 4-Bromofluorobenzene	97.4 %		Limit 50-131

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
91-20-3	Naphthalene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.3	10/16/15	10/16/15	PLS
91-57-6	2-Methylnaphthalene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.3	10/16/15	10/16/15	PLS
90-12-0	1-Methylnaphthalene	0.01	U	mg/kg	EPA 3545 / 8270	1	0.01	0.3	10/16/15	10/16/15	PLS
208-96-8	Acenaphthylene	0.04	U	mg/kg	EPA 3545 / 8270	1	0.04	0.3	10/16/15	10/16/15	PLS
83-32-9	Acenaphthene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.3	10/16/15	10/16/15	PLS
86-73-7	Fluorene	0.03	U	mg/kg	EPA 3545 / 8270	1	0.03	0.3	10/16/15	10/16/15	PLS
85-01-8	Phenanthrene	0.01	U	mg/kg	EPA 3545 / 8270	1	0.01	0.3	10/16/15	10/16/15	PLS
120-12-7	Anthracene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.3	10/16/15	10/16/15	PLS
206-44-0	**Fluoranthene**	**0.2**	I	mg/kg	EPA 3545 / 8270	1	0.03	0.3	10/16/15	10/16/15	PLS
129-00-0	**Pyrene**	**0.3**		mg/kg	EPA 3545 / 8270	1	0.02	0.3	10/16/15	10/16/15	PLS
56-55-3	**Benzo[a]anthracene**	**0.2**		mg/kg	EPA 3545 / 8270	1	0.04	0.04	10/16/15	10/16/15	PLS
218-01-9	Chrysene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.02	10/16/15	10/16/15	PLS
205-99-2	Benzo[b]fluoranthene	0.04	U	mg/kg	EPA 3545 / 8270	1	0.04	0.04	10/16/15	10/16/15	PLS
207-08-9	Benzo[k]fluoranthene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.02	10/16/15	10/16/15	PLS
50-32-8	**Benzo[a]pyrene**	**0.6**		mg/kg	EPA 3545 / 8270	1	0.05	0.05	10/16/15	10/16/15	PLS
53-70-3	**Dibenz[a,h]anthracene**	**1.2**		mg/kg	EPA 3545 / 8270	1	0.08	0.08	10/16/15	10/16/15	PLS
193-39-5	**Indeno[1,2,3-cd]pyrene**	**1.7**		mg/kg	EPA 3545 / 8270	1	0.04	0.04	10/16/15	10/16/15	PLS
191-24-2	**Benzo[g,h,i]perylene**	**2.5**		mg/kg	EPA 3545 / 8270	1	0.06	0.3	10/16/15	10/16/15	PLS

Palm Beach Environmental Laboratories Inc.

CERTIFICATE OF ANALYSIS

Terracon WPB
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ATTN: Andrew Petric
PHONE: (561) 689-4299 **FAX:** (561) 689-5955

LOG #: 0013883
COC#: 22122
REPORTED: 10/19/2015 10:44:41AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: SB-18 (2-3) **Lab ID:** 0013883-01 **Sampled:** 10/12/15 15:30
Matrix: Soil **Sampled By:** Andrew Petric **Received:** 10/13/15 09:05

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
		% Recovery	**Q**	**% Recovery Limits**							
NA	Surrogate: Nitrobenzene-d5	93.1 %		Limit 47-131							
321-60-8	Surrogate: 2-Fluorobiphenyl	109 %		Limit 51-134							
NA	Surrogate: p-Terphenyl-d14	98.7 %		Limit 59-145							

FLPRO

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
NA	**FLPRO Total**	**10.9**		mg/kg	EPA 3545 /RO	1	0.0800	0.240	10/16/15	10/16/15	PLS
		% Recovery	**Q**	**% Recovery Limits**							
84-15-1	Surrogate: o-Terphenyl	75.2 %		Limit 70-130							
7194-86-7	Surrogate: Nonatriacontane	85.6 %		Limit 42-193							

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LOG #: 0013883
COC#: 22122
REPORTED: 10/19/2015 10:44:41AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: SB-9 (3-4) **Lab ID:** 0013883-02 **Sampled:** 10/12/15 15:45
Matrix: Soil **Sampled By:** Andrew Petric **Received:** 10/13/15 09:05

EPA 8020 List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
71-43-2	Benzene	0.0002	U	mg/kg	EPA 5035 / 8260C	1	0.0002	0.001	10/15/15	10/15/15	PLS
108-88-3	Toluene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
108-90-7	Chlorobenzene	0.0004	U	mg/kg	EPA 5035 / 8260C	1	0.0004	0.001	10/15/15	10/15/15	PLS
100-41-4	Ethylbenzene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
108-38-3/106-42-3	m,p-Xylene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
95-47-6	o-Xylene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
541-73-1	1,3-Dichlorobenzene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
106-46-7	1,4-Dichlorobenzene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
95-50-1	1,2-Dichlorobenzene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
1634-04-4	MTBE	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS

		% Recovery	Q	% Recovery Limits
1868-53-7	Surrogate: Dibromofluoromethane	76.6 %		Limit 55-200
2037-26-5	Surrogate: Toluene-d8	87.5 %		Limit 66-144
460-00-4	Surrogate: 4-Bromofluorobenzene	94.7 %		Limit 50-131

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
91-20-3	Naphthalene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.3	10/16/15	10/16/15	PLS
91-57-6	2-Methylnaphthalene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.3	10/16/15	10/16/15	PLS
90-12-0	1-Methylnaphthalene	0.01	U	mg/kg	EPA 3545 / 8270	1	0.01	0.3	10/16/15	10/16/15	PLS
208-96-8	Acenaphthylene	0.04	U	mg/kg	EPA 3545 / 8270	1	0.04	0.3	10/16/15	10/16/15	PLS
83-32-9	Acenaphthene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.3	10/16/15	10/16/15	PLS
86-73-7	Fluorene	0.03	U	mg/kg	EPA 3545 / 8270	1	0.03	0.3	10/16/15	10/16/15	PLS
85-01-8	Phenanthrene	0.01	U	mg/kg	EPA 3545 / 8270	1	0.01	0.3	10/16/15	10/16/15	PLS
120-12-7	Anthracene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.3	10/16/15	10/16/15	PLS
206-44-0	Fluoranthene	0.03	U	mg/kg	EPA 3545 / 8270	1	0.03	0.3	10/16/15	10/16/15	PLS
129-00-0	Pyrene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.3	10/16/15	10/16/15	PLS
56-55-3	Benzo[a]anthracene	0.04	U	mg/kg	EPA 3545 / 8270	1	0.04	0.04	10/16/15	10/16/15	PLS
218-01-9	Chrysene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.02	10/16/15	10/16/15	PLS
205-99-2	Benzo[b]fluoranthene	0.04	U	mg/kg	EPA 3545 / 8270	1	0.04	0.04	10/16/15	10/16/15	PLS
207-08-9	Benzo[k]fluoranthene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.02	10/16/15	10/16/15	PLS
50-32-8	Benzo[a]pyrene	0.05	U	mg/kg	EPA 3545 / 8270	1	0.05	0.05	10/16/15	10/16/15	PLS
53-70-3	Dibenz[a,h]anthracene	0.08	U	mg/kg	EPA 3545 / 8270	1	0.08	0.08	10/16/15	10/16/15	PLS
193-39-5	Indeno[1,2,3-cd]pyrene	0.04	U	mg/kg	EPA 3545 / 8270	1	0.04	0.04	10/16/15	10/16/15	PLS

Palm Beach Environmental Laboratories Inc.

CERTIFICATE OF ANALYSIS

Terracon WPB
1225 Omar Road
West Palm Beach, FL 33405
ATTN: Andrew Petric
PHONE: (561) 689-4299 **FAX:** (561) 689-5955

LOG #: 0013883
COC#: 22122
REPORTED: 10/19/2015 10:44:41AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: SB-9 (3-4) **Lab ID:** 0013883-02 **Sampled:** 10/12/15 15:45
Matrix: Soil **Sampled By:** Andrew Petric **Received:** 10/13/15 09:05

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
191-24-2	Benzo[g,h,i]perylene	0.06	U	mg/kg	EPA 3545 / 8270	1	0.06	0.3	10/16/15	10/16/15	PLS

		% Recovery	Q	% Recovery Limits
NA	Surrogate: Nitrobenzene-d5	80.1 %		Limit 47-131
321-60-8	Surrogate: 2-Fluorobiphenyl	112 %		Limit 51-134
NA	Surrogate: p-Terphenyl-d14	103 %		Limit 59-145

FLPRO

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
NA	**FLPRO Total**	**18.0**		mg/kg	EPA 3545 /RO	1	0.0800	0.240	10/16/15	10/16/15	PLS

		% Recovery	Q	% Recovery Limits
84-15-1	Surrogate: o-Terphenyl	81.4 %		Limit 70-130
7194-86-7	Surrogate: Nonatriacontane	92.9 %		Limit 42-193

Palm Beach Environmental Laboratories Inc.

CERTIFICATE OF ANALYSIS

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West Palm Beach, FL 33405
ATTN: Andrew Petric
PHONE: (561) 689-4299 **FAX:** (561) 689-5955

LOG #: 0013883
COC#: 22122
REPORTED: 10/19/2015 10:44:41AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: SB-4 (2-3) **Lab ID:** 0013883-03 **Sampled:** 10/12/15 16:00
Matrix: Soil **Sampled By:** Andrew Petric **Received:** 10/13/15 09:05

EPA 8020 List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
71-43-2	Benzene	0.0002	U	mg/kg	EPA 5035 / 8260C	1	0.0002	0.001	10/15/15	10/15/15	PLS
108-88-3	Toluene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
108-90-7	Chlorobenzene	0.0004	U	mg/kg	EPA 5035 / 8260C	1	0.0004	0.001	10/15/15	10/15/15	PLS
100-41-4	Ethylbenzene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
108-38-3/106-42-3	m,p-Xylene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
95-47-6	o-Xylene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
541-73-1	1,3-Dichlorobenzene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
106-46-7	1,4-Dichlorobenzene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
95-50-1	1,2-Dichlorobenzene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
1634-04-4	MTBE	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS

		% Recovery	Q	% Recovery Limits
1868-53-7	Surrogate: Dibromofluoromethane	88.8 %		Limit 55-200
2037-26-5	Surrogate: Toluene-d8	87.6 %		Limit 66-144
460-00-4	Surrogate: 4-Bromofluorobenzene	90.5 %		Limit 50-131

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
91-20-3	Naphthalene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.3	10/16/15	10/16/15	PLS
91-57-6	2-Methylnaphthalene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.3	10/16/15	10/16/15	PLS
90-12-0	1-Methylnaphthalene	0.01	U	mg/kg	EPA 3545 / 8270	1	0.01	0.3	10/16/15	10/16/15	PLS
208-96-8	Acenaphthylene	0.04	U	mg/kg	EPA 3545 / 8270	1	0.04	0.3	10/16/15	10/16/15	PLS
83-32-9	Acenaphthene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.3	10/16/15	10/16/15	PLS
86-73-7	Fluorene	0.03	U	mg/kg	EPA 3545 / 8270	1	0.03	0.3	10/16/15	10/16/15	PLS
85-01-8	Phenanthrene	0.01	U	mg/kg	EPA 3545 / 8270	1	0.01	0.3	10/16/15	10/16/15	PLS
120-12-7	Anthracene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.3	10/16/15	10/16/15	PLS
206-44-0	**Fluoranthene**	**0.2**	I	mg/kg	EPA 3545 / 8270	1	0.03	0.3	10/16/15	10/16/15	PLS
129-00-0	**Pyrene**	**0.4**		mg/kg	EPA 3545 / 8270	1	0.02	0.3	10/16/15	10/16/15	PLS
56-55-3	**Benzo[a]anthracene**	**0.3**		mg/kg	EPA 3545 / 8270	1	0.04	0.04	10/16/15	10/16/15	PLS
218-01-9	Chrysene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.02	10/16/15	10/16/15	PLS
205-99-2	**Benzo[b]fluoranthene**	**2.9**		mg/kg	EPA 3545 / 8270	1	0.04	0.04	10/16/15	10/16/15	PLS
207-08-9	**Benzo[k]fluoranthene**	**1.1**		mg/kg	EPA 3545 / 8270	1	0.02	0.02	10/16/15	10/16/15	PLS
50-32-8	**Benzo[a]pyrene**	**1.9**		mg/kg	EPA 3545 / 8270	1	0.05	0.05	10/16/15	10/16/15	PLS
53-70-3	**Dibenz[a,h]anthracene**	**0.8**		mg/kg	EPA 3545 / 8270	1	0.08	0.08	10/16/15	10/16/15	PLS
193-39-5	**Indeno[1,2,3-cd]pyrene**	**1.4**		mg/kg	EPA 3545 / 8270	1	0.04	0.04	10/16/15	10/16/15	PLS
191-24-2	**Benzo[g,h,i]perylene**	**1.6**		mg/kg	EPA 3545 / 8270	1	0.06	0.3	10/16/15	10/16/15	PLS

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LOG #: 0013883
COC#: 22122
REPORTED: 10/19/2015 10:44:41AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: SB-4 (2-3) **Lab ID:** 0013883-03 **Sampled:** 10/12/15 16:00
Matrix: Soil **Sampled By:** Andrew Petric **Received:** 10/13/15 09:05

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
		% Recovery	Q	% Recovery Limits							
NA	Surrogate: Nitrobenzene-d5	77.5 %		Limit 47-131							
321-60-8	Surrogate: 2-Fluorobiphenyl	106 %		Limit 51-134							
NA	Surrogate: p-Terphenyl-d14	92.7 %		Limit 59-145							

FLPRO

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
NA	**FLPRO Total**	**141**		mg/kg	EPA 3545 /RO	1	0.0800	0.240	10/16/15	10/16/15	PLS
		% Recovery	Q	% Recovery Limits							
84-15-1	Surrogate: o-Terphenyl	84.2 %		Limit 70-130							
7194-86-7	Surrogate: Nonatriacontane	106 %		Limit 42-193							

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LOG #: 0013883
COC#: 22122
REPORTED: 10/19/2015 10:44:41AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: SB-2 (3-4) **Lab ID:** 0013883-04 **Sampled:** 10/12/15 16:15
Matrix: Soil **Sampled By:** Andrew Petric **Received:** 10/13/15 09:05

EPA 8020 List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
71-43-2	Benzene	0.0002	U	mg/kg	EPA 5035 / 8260C	1	0.0002	0.001	10/15/15	10/15/15	PLS
108-88-3	Toluene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
108-90-7	Chlorobenzene	0.0004	U	mg/kg	EPA 5035 / 8260C	1	0.0004	0.001	10/15/15	10/15/15	PLS
100-41-4	**Ethylbenzene**	**0.006**		mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
108-38-3/ 106-42-3	**m,p-Xylene**	**0.0004**	I	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
95-47-6	**o-Xylene**	**0.0008**	I	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
541-73-1	1,3-Dichlorobenzene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
106-46-7	1,4-Dichlorobenzene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
95-50-1	1,2-Dichlorobenzene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
1634-04-4	MTBE	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS

		% Recovery	Q	% Recovery Limits
1868-53-7	Surrogate: Dibromofluoromethane	69.7 %		Limit 55-200
2037-26-5	Surrogate: Toluene-d8	114 %		Limit 66-144
460-00-4	Surrogate: 4-Bromofluorobenzene	106 %		Limit 50-131

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
91-20-3	Naphthalene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.3	10/16/15	10/16/15	PLS
91-57-6	**2-Methylnaphthalene**	**12.3**		mg/kg	EPA 3545 / 8270	1	0.02	0.3	10/16/15	10/16/15	PLS
90-12-0	**1-Methylnaphthalene**	**10.7**		mg/kg	EPA 3545 / 8270	1	0.01	0.3	10/16/15	10/16/15	PLS
208-96-8	Acenaphthylene	0.04	U	mg/kg	EPA 3545 / 8270	1	0.04	0.3	10/16/15	10/16/15	PLS
83-32-9	Acenaphthene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.3	10/16/15	10/16/15	PLS
86-73-7	**Fluorene**	**0.8**		mg/kg	EPA 3545 / 8270	1	0.03	0.3	10/16/15	10/16/15	PLS
85-01-8	**Phenanthrene**	**0.2**	I	mg/kg	EPA 3545 / 8270	1	0.01	0.3	10/16/15	10/16/15	PLS
120-12-7	Anthracene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.3	10/16/15	10/16/15	PLS
206-44-0	Fluoranthene	0.03	U	mg/kg	EPA 3545 / 8270	1	0.03	0.3	10/16/15	10/16/15	PLS
129-00-0	Pyrene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.3	10/16/15	10/16/15	PLS
56-55-3	Benzo[a]anthracene	0.04	U	mg/kg	EPA 3545 / 8270	1	0.04	0.04	10/16/15	10/16/15	PLS
218-01-9	Chrysene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.02	10/16/15	10/16/15	PLS
205-99-2	Benzo[b]fluoranthene	0.04	U	mg/kg	EPA 3545 / 8270	1	0.04	0.04	10/16/15	10/16/15	PLS
207-08-9	Benzo[k]fluoranthene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.02	10/16/15	10/16/15	PLS
50-32-8	Benzo[a]pyrene	0.05	U	mg/kg	EPA 3545 / 8270	1	0.05	0.05	10/16/15	10/16/15	PLS
53-70-3	Dibenz[a,h]anthracene	0.08	U	mg/kg	EPA 3545 / 8270	1	0.08	0.08	10/16/15	10/16/15	PLS
193-39-5	Indeno[1,2,3-cd]pyrene	0.04	U	mg/kg	EPA 3545 / 8270	1	0.04	0.04	10/16/15	10/16/15	PLS
191-24-2	Benzo[g,h,i]perylene	0.06	U	mg/kg	EPA 3545 / 8270	1	0.06	0.3	10/16/15	10/16/15	PLS

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LOG #: 0013883
COC#: 22122
REPORTED: 10/19/2015 10:44:41AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: SB-2 (3-4) **Lab ID:** 0013883-04 **Sampled:** 10/12/15 16:15
Matrix: Soil **Sampled By:** Andrew Petric **Received:** 10/13/15 09:05

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
		% Recovery	**Q**	**% Recovery Limits**							
NA	Surrogate: Nitrobenzene-d5	85.0 %		Limit 47-131							
321-60-8	Surrogate: 2-Fluorobiphenyl	90.6 %		Limit 51-134							
NA	Surrogate: p-Terphenyl-d14	73.2 %		Limit 59-145							

FLPRO

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
NA	**FLPRO Total**	**1820**		mg/kg	EPA 3545 /RO	1	0.0800	0.240	10/16/15	10/16/15	PLS
		% Recovery	**Q**	**% Recovery Limits**							
84-15-1	Surrogate: o-Terphenyl	90.3 %		Limit 70-130							
7194-86-7	Surrogate: Nonatriacontane	98.0 %		Limit 42-193							

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LOG #: 0013883
COC#: 22122
REPORTED: 10/19/2015 10:44:41AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: SB-2 (1-2) **Lab ID:** 0013883-05 **Sampled:** 10/12/15 16:30
Matrix: Soil **Sampled By:** Andrew Petric **Received:** 10/13/15 09:05

EPA 8020 List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
71-43-2	Benzene	0.0002	U	mg/kg	EPA 5035 / 8260C	1	0.0002	0.001	10/15/15	10/15/15	PLS
108-88-3	Toluene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
108-90-7	Chlorobenzene	0.0004	U	mg/kg	EPA 5035 / 8260C	1	0.0004	0.001	10/15/15	10/15/15	PLS
100-41-4	**Ethylbenzene**	**0.0003**	I	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
108-38-3/ 106-42-3	**m,p-Xylene**	**0.0003**	I	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
95-47-6	o-Xylene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
541-73-1	1,3-Dichlorobenzene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
106-46-7	1,4-Dichlorobenzene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
95-50-1	1,2-Dichlorobenzene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS
1634-04-4	MTBE	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	10/15/15	10/15/15	PLS

		% Recovery	Q	% Recovery Limits
1868-53-7	Surrogate: Dibromofluoromethane	67.5 %		Limit 55-200
2037-26-5	Surrogate: Toluene-d8	105 %		Limit 66-144
460-00-4	Surrogate: 4-Bromofluorobenzene	96.9 %		Limit 50-131

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
91-20-3	Naphthalene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.3	10/16/15	10/16/15	PLS
91-57-6	**2-Methylnaphthalene**	**0.08**	I	mg/kg	EPA 3545 / 8270	1	0.02	0.3	10/16/15	10/16/15	PLS
90-12-0	**1-Methylnaphthalene**	**0.05**	I	mg/kg	EPA 3545 / 8270	1	0.01	0.3	10/16/15	10/16/15	PLS
208-96-8	Acenaphthylene	0.04	U	mg/kg	EPA 3545 / 8270	1	0.04	0.3	10/16/15	10/16/15	PLS
83-32-9	Acenaphthene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.3	10/16/15	10/16/15	PLS
86-73-7	Fluorene	0.03	U	mg/kg	EPA 3545 / 8270	1	0.03	0.3	10/16/15	10/16/15	PLS
85-01-8	Phenanthrene	0.01	U	mg/kg	EPA 3545 / 8270	1	0.01	0.3	10/16/15	10/16/15	PLS
120-12-7	Anthracene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.3	10/16/15	10/16/15	PLS
206-44-0	Fluoranthene	0.03	U	mg/kg	EPA 3545 / 8270	1	0.03	0.3	10/16/15	10/16/15	PLS
129-00-0	Pyrene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.3	10/16/15	10/16/15	PLS
56-55-3	Benzo[a]anthracene	0.04	U	mg/kg	EPA 3545 / 8270	1	0.04	0.04	10/16/15	10/16/15	PLS
218-01-9	Chrysene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.02	10/16/15	10/16/15	PLS
205-99-2	Benzo[b]fluoranthene	0.04	U	mg/kg	EPA 3545 / 8270	1	0.04	0.04	10/16/15	10/16/15	PLS
207-08-9	Benzo[k]fluoranthene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.02	10/16/15	10/16/15	PLS
50-32-8	Benzo[a]pyrene	0.05	U	mg/kg	EPA 3545 / 8270	1	0.05	0.05	10/16/15	10/16/15	PLS
53-70-3	Dibenz[a,h]anthracene	0.08	U	mg/kg	EPA 3545 / 8270	1	0.08	0.08	10/16/15	10/16/15	PLS
193-39-5	Indeno[1,2,3-cd]pyrene	0.04	U	mg/kg	EPA 3545 / 8270	1	0.04	0.04	10/16/15	10/16/15	PLS

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LOG #: 0013883
COC#: 22122
REPORTED: 10/19/2015 10:44:41AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: SB-2 (1-2) **Lab ID:** 0013883-05 **Sampled:** 10/12/15 16:30
Matrix: Soil **Sampled By:** Andrew Petric **Received:** 10/13/15 09:05

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
191-24-2	Benzo[g,h,i]perylene	0.06	U	mg/kg	EPA 3545 / 8270	1	0.06	0.3	10/16/15	10/16/15	PLS

		% Recovery	Q	% Recovery Limits
NA	Surrogate: Nitrobenzene-d5	73.5 %		Limit 47-131
321-60-8	Surrogate: 2-Fluorobiphenyl	93.3 %		Limit 51-134
NA	Surrogate: p-Terphenyl-d14	100 %		Limit 59-145

FLPRO

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
NA	**FLPRO Total**	**11.7**		mg/kg	EPA 3545 /RO	1	0.0800	0.240	10/16/15	10/16/15	PLS

		% Recovery	Q	% Recovery Limits
84-15-1	Surrogate: o-Terphenyl	76.0 %		Limit 70-130
7194-86-7	Surrogate: Nonatriacontane	95.3 %		Limit 42-193

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LOG #: 0013883
COC#: 22122
REPORTED: 10/19/2015 10:44:41AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8020 List - Quality Control										
Batch B510076 - EPA 5035										
Blank (B510076-BLK1)				Prepared & Analyzed: 10/15/15						
Benzene	U	0.001	mg/kg							U
Toluene	U	0.001	mg/kg							U
Chlorobenzene	U	0.001	mg/kg							U
Ethylbenzene	U	0.001	mg/kg							U
m,p-Xylene	U	0.001	mg/kg							U
o-Xylene	U	0.001	mg/kg							U
1,3-Dichlorobenzene	U	0.001	mg/kg							U
1,4-Dichlorobenzene	U	0.001	mg/kg							U
1,2-Dichlorobenzene	U	0.001	mg/kg							U
MTBE	U	0.001	mg/kg							U
Surrogate: Dibromofluoromethane	*0.00991*		*mg/kg*	*0.01500*		*66.1*	*55-200*			
Surrogate: Toluene-d8	*0.0131*		*mg/kg*	*0.01500*		*87.1*	*66-144*			
Surrogate: 4-Bromofluorobenzene	*0.0127*		*mg/kg*	*0.01500*		*84.6*	*50-131*			
LCS (B510076-BS1)				Prepared & Analyzed: 10/15/15						
Benzene	0.173	0.001	mg/kg	0.2000		86.4	60-135			
Toluene	0.181	0.001	mg/kg	0.2000		90.7	60-135			
Chlorobenzene	0.172	0.001	mg/kg	0.2000		86.1	60-135			
Trichloroethene	0.160	0.001	mg/kg	0.2000		79.9	60-135			
Surrogate: Dibromofluoromethane	*0.0116*		*mg/kg*	*0.01500*		*77.4*	*55-200*			
Surrogate: Toluene-d8	*0.0177*		*mg/kg*	*0.01500*		*118*	*66-144*			
Surrogate: 4-Bromofluorobenzene	*0.0148*		*mg/kg*	*0.01500*		*98.7*	*50-131*			
LCS Dup (B510076-BSD1)				Prepared & Analyzed: 10/15/15						
Benzene	0.176	0.001	mg/kg	0.2000		88.2	60-135	2.05	20	
Toluene	0.174	0.001	mg/kg	0.2000		87.0	60-135	4.19	20	
Chlorobenzene	0.162	0.001	mg/kg	0.2000		81.2	60-135	5.85	20	
Trichloroethene	0.157	0.001	mg/kg	0.2000		78.5	60-135	1.75	20	
Surrogate: Dibromofluoromethane	*0.0108*		*mg/kg*	*0.01500*		*71.8*	*55-200*			
Surrogate: Toluene-d8	*0.0165*		*mg/kg*	*0.01500*		*110*	*66-144*			
Surrogate: 4-Bromofluorobenzene	*0.0154*		*mg/kg*	*0.01500*		*103*	*50-131*			
Calibration Check (B510076-CCV1)				Prepared & Analyzed: 10/15/15						
Benzene	0.182		mg/kg	0.2000		90.9	80-120			
Toluene	0.185		mg/kg	0.2000		92.5	80-120			
Chlorobenzene	0.174		mg/kg	0.2000		87.2	80-120			
Ethylbenzene	0.183		mg/kg	0.2000		91.5	80-120			
m,p-Xylene	0.205		mg/kg	0.2000		103	80-120			
o-Xylene	0.193		mg/kg	0.2000		96.5	80-120			

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LOG #: 0013883
COC#: 22122
REPORTED: 10/19/2015 10:44:41AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8020 List - Quality Control										
Batch B510076 - EPA 5035										
Calibration Check (B510076-CCV1) Continued				Prepared & Analyzed: 10/15/15						
1,3-Dichlorobenzene	0.190		mg/kg	0.2000		94.8	80-120			
1,4-Dichlorobenzene	0.199		mg/kg	0.2000		99.5	80-120			
1,2-Dichlorobenzene	0.189		mg/kg	0.2000		94.4	80-120			
MTBE	0.225		mg/kg	0.2000		112	80-120			
Trichloroethene	0.166		mg/kg	0.2000		83.0	80-120			
Surrogate: Dibromofluoromethane	*0.0103*		*mg/kg*	*0.01500*		*68.5*	*0-200*			
Surrogate: Toluene-d8	*0.0158*		*mg/kg*	*0.01500*		*105*	*0-200*			
Surrogate: 4-Bromofluorobenzene	*0.0159*		*mg/kg*	*0.01500*		*106*	*0-200*			
Duplicate (B510076-DUP1)		**Source: 0013883-05**		Prepared & Analyzed: 10/15/15						
Benzene	U	0.001	mg/kg		U				20	U
Toluene	U	0.001	mg/kg		U				20	U
Chlorobenzene	U	0.001	mg/kg		U				20	U
Ethylbenzene	U	0.001	mg/kg		U				20	U
m,p-Xylene	U	0.001	mg/kg		U				20	U
o-Xylene	U	0.001	mg/kg		U				20	U
1,3-Dichlorobenzene	U	0.001	mg/kg		U				20	U
1,4-Dichlorobenzene	U	0.001	mg/kg		U				20	U
1,2-Dichlorobenzene	U	0.001	mg/kg		U				20	U
MTBE	U	0.001	mg/kg		U				20	U
Trichloroethene	U	0.001	mg/kg		U				20	U
Surrogate: Dibromofluoromethane	*0.0117*		*mg/kg*	*0.01500*		*77.7*	*55-200*			
Surrogate: Toluene-d8	*0.0132*		*mg/kg*	*0.01500*		*87.9*	*66-144*			
Surrogate: 4-Bromofluorobenzene	*0.0140*		*mg/kg*	*0.01500*		*93.6*	*50-131*			
Matrix Spike (B510076-MS1)		**Source: 0013883-05**		Prepared & Analyzed: 10/15/15						
Benzene	0.154	0.001	mg/kg	0.2000	U	76.9	60-135			
Toluene	0.125	0.001	mg/kg	0.2000	U	62.5	60-135			
Chlorobenzene	0.183	0.001	mg/kg	0.2000	U	91.6	60-135			
Trichloroethene	0.162	0.001	mg/kg	0.2000	U	81.2	60-135			
Surrogate: Dibromofluoromethane	*0.00945*		*mg/kg*	*0.01500*		*63.0*	*55-200*			
Surrogate: Toluene-d8	*0.0154*		*mg/kg*	*0.01500*		*103*	*66-144*			
Surrogate: 4-Bromofluorobenzene	*0.0134*		*mg/kg*	*0.01500*		*89.3*	*50-131*			
Matrix Spike Dup (B510076-MSD1)		**Source: 0013883-05**		Prepared & Analyzed: 10/15/15						
Benzene	0.160	0.001	mg/kg	0.2000	U	79.8	60-135	3.64	20	
Toluene	0.145	0.001	mg/kg	0.2000	U	72.7	60-135	15.2	20	
Chlorobenzene	0.164	0.001	mg/kg	0.2000	U	81.9	60-135	11.1	20	
Trichloroethene	0.136	0.001	mg/kg	0.2000	U	68.2	60-135	17.4	20	

Palm Beach Environmental Laboratories Inc.

CERTIFICATE OF ANALYSIS

Terracon WPB
1225 Omar Road
West Palm Beach, FL 33405
ATTN: Andrew Petric
PHONE: (561) 689-4299 **FAX:** (561) 689-5955

LOG #: 0013883
COC#: 22122
REPORTED: 10/19/2015 10:44:41AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8020 List - Quality Control										
Batch B510076 - EPA 5035										
Matrix Spike Dup (B510076-MSD1) Continued				**Source: 0013883-05**		Prepared & Analyzed: 10/15/15				
Surrogate: Dibromofluoromethane	*0.0123*		*mg/kg*	*0.01500*		*81.9*	*55-200*			
Surrogate: Toluene-d8	*0.0174*		*mg/kg*	*0.01500*		*116*	*66-144*			
Surrogate: 4-Bromofluorobenzene	*0.0156*		*mg/kg*	*0.01500*		*104*	*50-131*			
EPA 8100 PAH List - Quality Control										
Batch B510080 - EPA 3545										
Blank (B510080-BLK1)						Prepared & Analyzed: 10/16/15				
Naphthalene	U	0.3	mg/kg							U
2-Methylnaphthalene	U	0.3	mg/kg							U
1-Methylnaphthalene	U	0.3	mg/kg							U
Acenaphthylene	U	0.3	mg/kg							U
Acenaphthene	U	0.3	mg/kg							U
Fluorene	U	0.3	mg/kg							U
Phenanthrene	U	0.3	mg/kg							U
Anthracene	U	0.3	mg/kg							U
Fluoranthene	U	0.3	mg/kg							U
Pyrene	U	0.3	mg/kg							U
Benzo[a]anthracene	U	0.04	mg/kg							U
Chrysene	U	0.02	mg/kg							U
Benzo[b]fluoranthene	U	0.04	mg/kg							U
Benzo[k]fluoranthene	U	0.02	mg/kg							U
Benzo[a]pyrene	U	0.05	mg/kg							U
Dibenz[a,h]anthracene	U	0.08	mg/kg							U
Indeno[1,2,3-cd]pyrene	U	0.04	mg/kg							U
Benzo[g,h,i]perylene	U	0.3	mg/kg							U
Surrogate: Nitrobenzene-d5	*0.702*		*mg/kg*	*1.000*		*70.2*	*47-131*			
Surrogate: 2-Fluorobiphenyl	*0.844*		*mg/kg*	*1.000*		*84.4*	*51-134*			
Surrogate: p-Terphenyl-d14	*0.801*		*mg/kg*	*1.000*		*80.1*	*59-145*			
LCS (B510080-BS1)						Prepared & Analyzed: 10/16/15				
Naphthalene	2.8	0.3	mg/kg	2.500		114	60-135			
Acenaphthylene	2.7	0.3	mg/kg	2.500		107	60-135			
Pyrene	2.6	0.3	mg/kg	2.500		105	60-135			
4-Chloro-3-methylphenol	2.7	0.3	mg/kg	2.500		108	60-135			
Di-n-octylphthalate	3.3	0.3	mg/kg	2.500		133	60-135			
Hexachlorobenzene	2.5	0.002	mg/kg	2.500		98.6	60-135			
2-Methylphenol	2.7	0.3	mg/kg	2.500		109	60-135			
Nitrobenzene	2.7	0.3	mg/kg	2.500		107	60-135			

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LOG #: 0013883
COC#: 22122
REPORTED: 10/19/2015 10:44:41AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8100 PAH List - Quality Control										
Batch B510080 - EPA 3545										
LCS (B510080-BS1) Continued				Prepared & Analyzed: 10/16/15						
Surrogate: Nitrobenzene-d5	*0.770*		*mg/kg*	*1.000*		*77.0*	*60-135*			
Surrogate: 2-Fluorobiphenyl	*0.839*		*mg/kg*	*1.000*		*83.9*	*60-135*			
Surrogate: p-Terphenyl-d14	*0.748*		*mg/kg*	*1.000*		*74.8*	*60-135*			
LCS Dup (B510080-BSD1)				Prepared & Analyzed: 10/16/15						
Naphthalene	3.0	0.3	mg/kg	2.500		118	60-135	3.69	25	
Acenaphthylene	2.7	0.3	mg/kg	2.500		108	60-135	0.971	25	
Pyrene	3.0	0.3	mg/kg	2.500		119	60-135	12.7	25	
4-Chloro-3-methylphenol	2.8	0.3	mg/kg	2.500		112	60-135	3.44	25	
Di-n-octylphthalate	3.4	0.3	mg/kg	2.500		135	60-135	1.52	25	
Hexachlorobenzene	2.5	0.002	mg/kg	2.500		100	60-135	1.51	25	
2-Methylphenol	2.9	0.3	mg/kg	2.500		116	60-135	6.75	25	
Nitrobenzene	2.9	0.3	mg/kg	2.500		115	60-135	7.59	25	
Surrogate: Nitrobenzene-d5	*0.858*		*mg/kg*	*1.000*		*85.8*	*60-135*			
Surrogate: 2-Fluorobiphenyl	*0.846*		*mg/kg*	*1.000*		*84.6*	*60-135*			
Surrogate: p-Terphenyl-d14	*0.924*		*mg/kg*	*1.000*		*92.4*	*60-135*			
Calibration Check (B510080-CCV1)				Prepared & Analyzed: 10/16/15						
Naphthalene	2.7		mg/kg	2.500		108	85-115			I
Acenaphthylene	2.7		mg/kg	2.500		106	85-115			I
Pyrene	2.6		mg/kg	2.500		105	85-115			I
4-Chloro-3-methylphenol	2.7		mg/kg	2.500		110	85-115			I
Di-n-octylphthalate	2.2		mg/kg	2.500		88.7	85-115			I
Hexachlorobenzene	2.5		mg/kg	2.500		101	85-115			
2-Methylphenol	2.7		mg/kg	2.500		107	85-115			I
Nitrobenzene	2.5		mg/kg	2.500		102	85-115			I
Surrogate: Nitrobenzene-d5	*0.776*		*mg/kg*	*1.000*		*77.6*	*0-200*			
Surrogate: 2-Fluorobiphenyl	*0.878*		*mg/kg*	*1.000*		*87.8*	*0-200*			
Surrogate: p-Terphenyl-d14	*0.932*		*mg/kg*	*1.000*		*93.2*	*0-200*			
Duplicate (B510080-DUP1)		**Source: 0013883-01**		Prepared & Analyzed: 10/16/15						
Naphthalene	U	0.3	mg/kg		U				200	U
Acenaphthylene	U	0.3	mg/kg		U				200	U
Pyrene	0.3	0.3	mg/kg		0.3			6.87	200	
4-Chloro-3-methylphenol	U	0.3	mg/kg		U				200	U
Di-n-octylphthalate	U	0.3	mg/kg		U				200	U
Hexachlorobenzene	U	0.002	mg/kg		U				200	U
2-Methylphenol	U	0.3	mg/kg		U				200	U
Nitrobenzene	U	0.3	mg/kg		U				200	U

Palm Beach Environmental Laboratories Inc.

CERTIFICATE OF ANALYSIS

Terracon WPB
1225 Omar Road
West Palm Beach, FL 33405
ATTN: Andrew Petric
PHONE: (561) 689-4299 **FAX:** (561) 689-5955

LOG #: 0013883
COC#: 22122
REPORTED: 10/19/2015 10:44:41AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8100 PAH List - Quality Control										
Batch B510080 - EPA 3545										
Duplicate (B510080-DUP1) Continued		**Source: 0013883-01**		Prepared & Analyzed: 10/16/15						
Surrogate: Nitrobenzene-d5	*0.613*		*mg/kg*	*1.000*		*61.3*	*47-131*			
Surrogate: 2-Fluorobiphenyl	*0.804*		*mg/kg*	*1.000*		*80.4*	*51-134*			
Surrogate: p-Terphenyl-d14	*0.943*		*mg/kg*	*1.000*		*94.3*	*59-145*			
Matrix Spike (B510080-MS1)		**Source: 0013883-01**		Prepared & Analyzed: 10/16/15						
Naphthalene	3.2	0.3	mg/kg	2.500	U	128	60-135			
Acenaphthylene	2.8	0.3	mg/kg	2.500	U	113	60-135			
Pyrene	3.3	0.3	mg/kg	2.500	0.3	121	60-135			
4-Chloro-3-methylphenol	2.8	0.3	mg/kg	2.500	U	110	60-135			
Di-n-octylphthalate	2.5	0.3	mg/kg	2.500	U	99.9	60-135			
Hexachlorobenzene	2.8	0.002	mg/kg	2.500	U	113	60-135			
2-Methylphenol	2.2	0.3	mg/kg	2.500	U	88.4	60-135			
Nitrobenzene	2.1	0.3	mg/kg	2.500	U	85.1	60-135			
Surrogate: Nitrobenzene-d5	*0.860*		*mg/kg*	*1.000*		*86.0*	*60-135*			
Surrogate: 2-Fluorobiphenyl	*1.04*		*mg/kg*	*1.000*		*104*	*60-135*			
Surrogate: p-Terphenyl-d14	*1.15*		*mg/kg*	*1.000*		*115*	*60-135*			
Matrix Spike Dup (B510080-MSD1)		**Source: 0013883-01**		Prepared & Analyzed: 10/16/15						
Naphthalene	3.2	0.3	mg/kg	2.500	U	128	60-135	0.188	25	
Acenaphthylene	3.3	0.3	mg/kg	2.500	U	131	60-135	14.6	25	
Pyrene	3.6	0.3	mg/kg	2.500	0.3	131	60-135	7.68	25	
4-Chloro-3-methylphenol	2.9	0.3	mg/kg	2.500	U	117	60-135	5.53	25	
Di-n-octylphthalate	2.0	0.3	mg/kg	2.500	U	81.3	60-135	20.5	25	
Hexachlorobenzene	3.0	0.002	mg/kg	2.500	U	118	60-135	4.22	25	
2-Methylphenol	2.1	0.3	mg/kg	2.500	U	83.5	60-135	5.72	25	
Nitrobenzene	2.1	0.3	mg/kg	2.500	U	82.9	60-135	2.64	25	
Surrogate: Nitrobenzene-d5	*0.922*		*mg/kg*	*1.000*		*92.2*	*60-135*			
Surrogate: 2-Fluorobiphenyl	*1.09*		*mg/kg*	*1.000*		*109*	*60-135*			
Surrogate: p-Terphenyl-d14	*1.24*		*mg/kg*	*1.000*		*124*	*60-135*			
FLPRO - Quality Control										
Batch B510081 - EPA 3545										
Blank (B510081-BLK1)				Prepared & Analyzed: 10/16/15						
FLPRO Total	U	0.240	mg/kg							U
Surrogate: o-Terphenyl	*2.90*		*mg/kg*	*2.500*		*116*	*70-130*			
Surrogate: Nonatriacontane	*13.8*		*mg/kg*	*15.00*		*92.1*	*42-193*			
LCS (B510081-BS1)				Prepared & Analyzed: 10/16/15						
FLPRO Total	48.4	0.240	mg/kg	42.50		114	60-120			

Palm Beach Environmental Laboratories Inc.

CERTIFICATE OF ANALYSIS

Terracon WPB
1225 Omar Road
West Palm Beach, FL 33405
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PHONE: (561) 689-4299 **FAX:** (561) 689-5955

LOG #: 0013883
COC#: 22122
REPORTED: 10/19/2015 10:44:41AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
FLPRO - Quality Control										
Batch B510081 - EPA 3545										
LCS (B510081-BS1) Continued				Prepared & Analyzed: 10/16/15						
Surrogate: o-Terphenyl	*2.39*		*mg/kg*	*2.500*		*95.5*	*70-130*			
Surrogate: Nonatriacontane	*13.5*		*mg/kg*	*15.00*		*90.0*	*42-193*			
LCS Dup (B510081-BSD1)				Prepared & Analyzed: 10/16/15						
FLPRO Total	50.1	0.240	mg/kg	42.50		118	60-120	3.40	30	
Surrogate: o-Terphenyl	*2.39*		*mg/kg*	*2.500*		*95.7*	*70-130*			
Surrogate: Nonatriacontane	*14.8*		*mg/kg*	*15.00*		*98.9*	*42-193*			
Calibration Check (B510081-CCV1)				Prepared & Analyzed: 10/16/15						
FLPRO Total	39.7		mg/kg	42.50		93.4	80-120			
Surrogate: o-Terphenyl	*2.24*		*mg/kg*	*2.500*		*89.7*	*0-200*			
Surrogate: Nonatriacontane	*13.0*		*mg/kg*	*15.00*		*86.6*	*0-200*			
Duplicate (B510081-DUP1)		**Source: 0013883-02**		Prepared & Analyzed: 10/16/15						
FLPRO Total	21.7	0.240	mg/kg		18.0			18.7	20	
Surrogate: o-Terphenyl	*2.04*		*mg/kg*	*2.500*		*81.8*	*70-130*			
Surrogate: Nonatriacontane	*16.7*		*mg/kg*	*15.00*		*111*	*42-193*			
Matrix Spike (B510081-MS1)		**Source: 0013883-01**		Prepared & Analyzed: 10/16/15						
FLPRO Total	51.1	0.240	mg/kg	42.50	10.9	94.5	40-155			
Surrogate: o-Terphenyl	*1.83*		*mg/kg*	*2.500*		*73.1*	*70-130*			
Surrogate: Nonatriacontane	*15.9*		*mg/kg*	*15.00*		*106*	*42-193*			
Matrix Spike Dup (B510081-MSD1)		**Source: 0013883-01**		Prepared & Analyzed: 10/16/15						
FLPRO Total	48.6	0.240	mg/kg	42.50	10.9	88.6	40-155	5.08	30	
Surrogate: o-Terphenyl	*2.95*		*mg/kg*	*2.500*		*118*	*70-130*			
Surrogate: Nonatriacontane	*14.9*		*mg/kg*	*15.00*		*99.5*	*42-193*			

Notes and Definitions

U	Analyte included in the analysis, but not detected
I	The reported value is between the laboratory Method Detection Limit & the laboratory Practical Quantitation Limit

Palm Beach Environmental Laboratories, Inc.

Log #: 13883
PO #:
Quote #:
FDEP :

CHAIN OF CUSTODY RECORD

Company Name: Terracon Consultants, Inc.
Address: 1225 Omar Rd
City: West Palm Beach State: FL Zip: 33405
Attn: Andrew Petric Phone#: 561-687-4299
email: andrew.petric@terracon.com Fax#: 561-687-5955
Project Name: Former Palm Tran Facility FAC ID# 50/8514018 Proj#: HD157021
Sampler Signature / Name: Andrew Petric

LAB ANALYSIS

#	Sample Label (Client ID)	Collect Date	Collect Time	Matrix	Field Filtered	Integrity OK	Total # of containers	pH	PRES CODE	Parameters: 8260 BTEX/MTBE	PAH 8270	TRPH (FL-PRO)	Encore
1	SB-18 (2'-3')	10/12/15	1530	SO	—		7		A/I	X	X	X	✓
2	SB-9 (3'-4')		1545							X	X	X	✓
3	SB-4 (2'-3')		1600							X	X	X	✓
4	SB-2 (3'-4')		1615							X	X	X	✓
5	SB-2 (1'-2')		1630							X	X	X	✓
6													
7													
8													
9													
0													

Matrix Codes

SD	Solid Waste	OL	Oil
GW	Ground Water	SL	Sludge
EFF	Effluent	SO	Soil Sediment
AFW	Analyte Free H2O	AQ	Aqueous
WW	Waste Water	NA	Nonaqueous
DW	Drinking Water		
SW	Surface Water	O	Other (Please Specify)

Press Codes

A. None	E. HCL	O. Other
B. HNO3	F. MeOH	
C. H2SO4	G. Na2S2O3	
D. NaOH	I. Ice	

Hold for possible SPLP and Speciation

T.A.T. Request: Standard (Y/N) — RUSH: 24 Hour, 48 Hour Date Due:

QA/QC Report Level: None ___ 1 ___ 2 X 3 ___ Other ___ (Adapt)

COC OK: (Y) N

Initials: DM

Item	Relinquished by	Affiliation	Date	Time	Received By	Affiliation	Date	Time
All		Terracon	10/13/15	905		PBEL	10/13/15	905

Lab Use Only

	Yes	No	N/A
Sample INTACT upon arrival?	✓		
Received on Wet Ice? Temp 2.8°C	✓		
Proper Preservatives Indicated?	✓		
Received within holding time?	✓		
Custody seals intact?	✓		
Volatile rec'd without headspace?			✓
Proper Containers Used?	✓		

1550 Latham Road, Suite 2 • West Palm Beach, FL 33409 • Tel: (561) 689-6701 • Fax: (561) 689-6702

COC# 22122

Palm Beach Environmental Laboratories Inc.

Andrew Petric
Terracon WPB
West Palm Beach, FL 33405
(561) 689-4299
LOG #: 0013888

October 23, 2015

Enclosed is the laboratory report for your project. All results meet the requirements of the NELAC standards.

Please note the following:

(1) The samples were received as stated on the chain of custody, correctly labeled and at the proper temperature unless otherwise noted. The results contained in this report relate only to the items tested or to the samples as received by the laboratory.

(2) This report may not be reproduced except in full, without the written approval of the laboratory. Any anomalies are noted in the case narrative.

(3) Results for all solid matrices are reported in dry weight unless otherwise noted.

(4) Results for all liquid matrices are analyzed as received in the laboratory unless otherwise noted.

(5) Samples are disposed of within 30 days of their receipt by the laboratory.

(6) A statement of Qualifiers is available upon request.

(7) Certain analyses are subcontracted to outside NELAC certified laboratories and are designated on your report.

(8) Precision & Accuracy will be provided when clients require a measure of estimated uncertainty.

(9) The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report Preliminary Data should not be used for regular purposes. Authorized signature(s) is provided on final report only

Please contact me if you have any questions or concerns regarding this report.

Sincerely,

Pamela Shore
QA Officer

Palm Beach Environmental Laboratories Inc.

CERTIFICATE OF ANALYSIS

Terracon WPB
1225 Omar Road
West Palm Beach, FL 33405
ATTN: Andrew Petric
PHONE: (561) 689-4299 **FAX:** (561) 689-5955

LOG #: 0013888
COC#: 22131
REPORTED: 10/23/2015 2:28:49PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: MW-1 **Lab ID:** 0013888-01 **Sampled:** 10/15/15 10:31
Matrix: Water **Sampled By:** Randall Murphy **Received:** 10/15/15 15:10

EPA 8020 List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
71-43-2	**Benzene**	**0.950**	I	ug/L	EPA 8260C	1	0.640	1.00	10/17/15	10/20/15	PLS
108-88-3	Toluene	0.660	U	ug/L	EPA 8260C	1	0.660	1.00	10/17/15	10/20/15	PLS
108-90-7	Chlorobenzene	0.670	U	ug/L	EPA 8260C	1	0.670	1.00	10/17/15	10/20/15	PLS
100-41-4	Ethylbenzene	0.730	U	ug/L	EPA 8260C	1	0.730	1.00	10/17/15	10/20/15	PLS
108-38-3/106-42-3	m,p-Xylene	0.760	U	ug/L	EPA 8260C	1	0.760	1.00	10/17/15	10/20/15	PLS
95-47-6	**o-Xylene**	**1.81**		ug/L	EPA 8260C	1	0.870	1.00	10/17/15	10/20/15	PLS
541-73-1	1,3-Dichlorobenzene	0.310	U	ug/L	EPA 8260C	1	0.310	1.00	10/17/15	10/20/15	PLS
106-46-7	1,4-Dichlorobenzene	0.510	U	ug/L	EPA 8260C	1	0.510	1.00	10/17/15	10/20/15	PLS
95-50-1	1,2-Dichlorobenzene	0.510	U	ug/L	EPA 8260C	1	0.510	1.00	10/17/15	10/20/15	PLS
1634-04-4	MTBE	0.530	U	ug/L	EPA 8260C	1	0.530	1.00	10/17/15	10/20/15	PLS

		% Recovery	Q	% Recovery Limits
1868-53-7	Surrogate: Dibromofluoromethane	77.1 %		Limit 62-200
2037-26-5	Surrogate: Toluene-d8	102 %		Limit 63-144
460-00-4	Surrogate: 4-Bromofluorobenzene	97.1 %		Limit 50-155

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
91-20-3	Naphthalene	0.147	U	ug/L	EPA 3510C / 8270	1	0.147	10.0	10/21/15	10/21/15	PLS
91-57-6	**2-Methylnaphthalene**	**86.4**		ug/L	EPA 3510C / 8270	1	0.288	10.0	10/21/15	10/21/15	PLS
90-12-0	**1-Methylnaphthalene**	**90.0**		ug/L	EPA 3510C / 8270	1	0.285	10.0	10/21/15	10/21/15	PLS
208-96-8	Acenaphthylene	0.393	U	ug/L	EPA 3510C / 8270	1	0.393	10.0	10/21/15	10/21/15	PLS
83-32-9	Acenaphthene	0.188	U	ug/L	EPA 3510C / 8270	1	0.188	10.0	10/21/15	10/21/15	PLS
86-73-7	Fluorene	0.217	U	ug/L	EPA 3510C / 8270	1	0.217	10.0	10/21/15	10/21/15	PLS
85-01-8	Phenanthrene	0.215	U	ug/L	EPA 3510C / 8270	1	0.215	10.0	10/21/15	10/21/15	PLS
120-12-7	Anthracene	0.0100	U	ug/L	EPA 3510C / 8270	1	0.0100	0.0300	10/21/15	10/21/15	PLS
206-44-0	Fluoranthene	0.0100	U	ug/L	EPA 3510C / 8270	1	0.0100	0.0300	10/21/15	10/21/15	PLS
129-00-0	Pyrene	0.409	U	ug/L	EPA 3510C / 8270	1	0.409	10.0	10/21/15	10/21/15	PLS
56-55-3	Benzo[a]anthracene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	10/21/15	10/21/15	PLS
218-01-9	Chrysene	0.169	U	ug/L	EPA 3510C / 8270	1	0.169	0.200	10/21/15	10/21/15	PLS
205-99-2	**Benzo[b]fluoranthene**	**7.68**		ug/L	EPA 3510C / 8270	1	0.0500	0.0500	10/21/15	10/21/15	PLS
207-08-9	**Benzo[k]fluoranthene**	**4.85**		ug/L	EPA 3510C / 8270	1	0.500	0.500	10/21/15	10/21/15	PLS
50-32-8	**Benzo[a]pyrene**	**10.7**		ug/L	EPA 3510C / 8270	1	0.200	0.200	10/21/15	10/21/15	PLS
53-70-3	**Dibenz[a,h]anthracene**	**33.9**		ug/L	EPA 3510C / 8270	1	0.0050	0.0500	10/21/15	10/21/15	PLS
193-39-5	**Indeno[1,2,3-cd]pyrene**	**26.5**		ug/L	EPA 3510C / 8270	1	0.0500	0.0500	10/21/15	10/21/15	PLS
191-24-2	**Benzo[g,h,i]perylene**	**55.5**		ug/L	EPA 3510C / 8270	1	0.341	10.0	10/21/15	10/21/15	PLS

Palm Beach Environmental Laboratories Inc.

CERTIFICATE OF ANALYSIS

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LOG #: 0013888
COC#: 22131
REPORTED: 10/23/2015 2:28:49PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: MW-1 **Lab ID:** 0013888-01 **Sampled:** 10/15/15 10:31
Matrix: Water **Sampled By:** Randall Murphy **Received:** 10/15/15 15:10

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
		% Recovery	**Q**	**% Recovery Limits**							
NA	Surrogate: Nitrobenzene-d5	101 %		Limit 40-142							
321-60-8	Surrogate: 2-Fluorobiphenyl	103 %		Limit 47-150							
NA	Surrogate: p-Terphenyl-d14	115 %		Limit 55-165							

EPA Method 8011 List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
106-93-4	1,2-Dibromoethane (EDB)	0.01120	JEE, U	ug/L	EPA 8260B	1	0.01120	0.03400	10/19/15	10/19/15	SL
96-12-8	1,2-Dibromo-3-Chloropropane	0.01210	JEE, U	ug/L	EPA 8260B	1	0.01210	0.03600	10/19/15	10/19/15	SL

FLPRO

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
NA	**FLPRO Total**	**8.25**		mg/L	EPA 3510C /RO	1	0.040	0.500	10/20/15	10/20/15	PLS
		% Recovery	**Q**	**% Recovery Limits**							
84-15-1	Surrogate: o-Terphenyl	119 %		Limit 70-130							
7194-86-7	Surrogate: Nonatriacontane	101 %		Limit 42-193							

Metals by EPA 6000/7000 Series Methods

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
7439-92-1	**Lead**	**0.003**	I	mg/L	EPA 6020B	1	0.00001	0.005	10/17/15	10/17/15	DD

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LOG #: 0013888
COC#: 22131
REPORTED: 10/23/2015 2:28:49PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: MW-2 **Lab ID:** 0013888-02 **Sampled:** 10/15/15 11:48
Matrix: Water **Sampled By:** Randall Murphy **Received:** 10/15/15 15:10

EPA 8020 List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
71-43-2	Benzene	0.640	U	ug/L	EPA 8260C	1	0.640	1.00	10/17/15	10/20/15	PLS
108-88-3	Toluene	0.660	U	ug/L	EPA 8260C	1	0.660	1.00	10/17/15	10/20/15	PLS
108-90-7	Chlorobenzene	0.670	U	ug/L	EPA 8260C	1	0.670	1.00	10/17/15	10/20/15	PLS
100-41-4	Ethylbenzene	0.730	U	ug/L	EPA 8260C	1	0.730	1.00	10/17/15	10/20/15	PLS
108-38-3/106-42-3	m,p-Xylene	0.760	U	ug/L	EPA 8260C	1	0.760	1.00	10/17/15	10/20/15	PLS
95-47-6	o-Xylene	0.870	U	ug/L	EPA 8260C	1	0.870	1.00	10/17/15	10/20/15	PLS
541-73-1	1,3-Dichlorobenzene	0.310	U	ug/L	EPA 8260C	1	0.310	1.00	10/17/15	10/20/15	PLS
106-46-7	1,4-Dichlorobenzene	0.510	U	ug/L	EPA 8260C	1	0.510	1.00	10/17/15	10/20/15	PLS
95-50-1	1,2-Dichlorobenzene	0.510	U	ug/L	EPA 8260C	1	0.510	1.00	10/17/15	10/20/15	PLS
1634-04-4	**MTBE**	**4.14**		ug/L	EPA 8260C	1	0.530	1.00	10/17/15	10/20/15	PLS

		% Recovery	Q	% Recovery Limits
1868-53-7	Surrogate: Dibromofluoromethane	82.3 %		Limit 62-200
2037-26-5	Surrogate: Toluene-d8	103 %		Limit 63-144
460-00-4	Surrogate: 4-Bromofluorobenzene	77.9 %		Limit 50-155

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
91-20-3	Naphthalene	0.147	U	ug/L	EPA 3510C / 8270	1	0.147	10.0	10/21/15	10/21/15	PLS
91-57-6	**2-Methylnaphthalene**	**19.3**		ug/L	EPA 3510C / 8270	1	0.288	10.0	10/21/15	10/21/15	PLS
90-12-0	**1-Methylnaphthalene**	**20.9**		ug/L	EPA 3510C / 8270	1	0.285	10.0	10/21/15	10/21/15	PLS
208-96-8	Acenaphthylene	0.393	U	ug/L	EPA 3510C / 8270	1	0.393	10.0	10/21/15	10/21/15	PLS
83-32-9	**Acenaphthene**	**35.2**		ug/L	EPA 3510C / 8270	1	0.188	10.0	10/21/15	10/21/15	PLS
86-73-7	**Fluorene**	**20.0**		ug/L	EPA 3510C / 8270	1	0.217	10.0	10/21/15	10/21/15	PLS
85-01-8	**Phenanthrene**	**9.22**	I	ug/L	EPA 3510C / 8270	1	0.215	10.0	10/21/15	10/21/15	PLS
120-12-7	**Anthracene**	**6.76**		ug/L	EPA 3510C / 8270	1	0.0100	0.0300	10/21/15	10/21/15	PLS
206-44-0	Fluoranthene	0.0100	U	ug/L	EPA 3510C / 8270	1	0.0100	0.0300	10/21/15	10/21/15	PLS
129-00-0	**Pyrene**	**4.38**	I	ug/L	EPA 3510C / 8270	1	0.409	10.0	10/21/15	10/21/15	PLS
56-55-3	Benzo[a]anthracene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	10/21/15	10/21/15	PLS
218-01-9	Chrysene	0.169	U	ug/L	EPA 3510C / 8270	1	0.169	0.200	10/21/15	10/21/15	PLS
205-99-2	**Benzo[b]fluoranthene**	**5.99**		ug/L	EPA 3510C / 8270	1	0.0500	0.0500	10/21/15	10/21/15	PLS
207-08-9	**Benzo[k]fluoranthene**	**3.47**		ug/L	EPA 3510C / 8270	1	0.500	0.500	10/21/15	10/21/15	PLS
50-32-8	Benzo[a]pyrene	0.200	U	ug/L	EPA 3510C / 8270	1	0.200	0.200	10/21/15	10/21/15	PLS
53-70-3	Dibenz[a,h]anthracene	0.0050	U	ug/L	EPA 3510C / 8270	1	0.0050	0.0500	10/21/15	10/21/15	PLS
193-39-5	Indeno[1,2,3-cd]pyrene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	10/21/15	10/21/15	PLS
191-24-2	Benzo[g,h,i]perylene	0.341	U	ug/L	EPA 3510C / 8270	1	0.341	10.0	10/21/15	10/21/15	PLS

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LOG #: 0013888
COC#: 22131
REPORTED: 10/23/2015 2:28:49PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: MW-2 **Lab ID:** 0013888-02 **Sampled:** 10/15/15 11:48
Matrix: Water **Sampled By:** Randall Murphy **Received:** 10/15/15 15:10

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
		% Recovery	**Q**	**% Recovery Limits**							
NA	Surrogate: Nitrobenzene-d5	102 %		Limit 40-142							
321-60-8	Surrogate: 2-Fluorobiphenyl	96.9 %		Limit 47-150							
NA	Surrogate: p-Terphenyl-d14	104 %		Limit 55-165							

EPA Method 8011 List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
106-93-4	1,2-Dibromoethane (EDB)	0.01120	JEE, U	ug/L	EPA 8260B	1	0.01120	0.03400	10/19/15	10/19/15	SL
96-12-8	1,2-Dibromo-3-Chloropropane	0.01210	JEE, U	ug/L	EPA 8260B	1	0.01210	0.03600	10/19/15	10/19/15	SL

FLPRO

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
NA	**FLPRO Total**	**1.45**		mg/L	EPA 3510C /RO	1	0.040	0.500	10/20/15	10/20/15	PLS
		% Recovery	**Q**	**% Recovery Limits**							
84-15-1	Surrogate: o-Terphenyl	112 %		Limit 70-130							
7194-86-7	Surrogate: Nonatriacontane	102 %		Limit 42-193							

Metals by EPA 6000/7000 Series Methods

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
7439-92-1	**Lead**	**0.0003**	I	mg/L	EPA 6020B	1	0.00001	0.005	10/17/15	10/17/15	DD

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LOG #: 0013888
COC#: 22131
REPORTED: 10/23/2015 2:28:49PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: MW-3 **Lab ID:** 0013888-03 **Sampled:** 10/15/15 13:06
Matrix: Water **Sampled By:** Randall Murphy **Received:** 10/15/15 15:10

EPA 8020 List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
71-43-2	Benzene	0.640	U	ug/L	EPA 8260C	1	0.640	1.00	10/17/15	10/20/15	PLS
108-88-3	Toluene	0.660	U	ug/L	EPA 8260C	1	0.660	1.00	10/17/15	10/20/15	PLS
108-90-7	Chlorobenzene	0.670	U	ug/L	EPA 8260C	1	0.670	1.00	10/17/15	10/20/15	PLS
100-41-4	Ethylbenzene	0.730	U	ug/L	EPA 8260C	1	0.730	1.00	10/17/15	10/20/15	PLS
108-38-3/106-42-3	m,p-Xylene	0.760	U	ug/L	EPA 8260C	1	0.760	1.00	10/17/15	10/20/15	PLS
95-47-6	o-Xylene	0.870	U	ug/L	EPA 8260C	1	0.870	1.00	10/17/15	10/20/15	PLS
541-73-1	1,3-Dichlorobenzene	0.310	U	ug/L	EPA 8260C	1	0.310	1.00	10/17/15	10/20/15	PLS
106-46-7	1,4-Dichlorobenzene	0.510	U	ug/L	EPA 8260C	1	0.510	1.00	10/17/15	10/20/15	PLS
95-50-1	1,2-Dichlorobenzene	0.510	U	ug/L	EPA 8260C	1	0.510	1.00	10/17/15	10/20/15	PLS
1634-04-4	MTBE	0.530	U	ug/L	EPA 8260C	1	0.530	1.00	10/17/15	10/20/15	PLS

		% Recovery	Q	% Recovery Limits
1868-53-7	Surrogate: Dibromofluoromethane	77.5 %		Limit 62-200
2037-26-5	Surrogate: Toluene-d8	103 %		Limit 63-144
460-00-4	Surrogate: 4-Bromofluorobenzene	131 %		Limit 50-155

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
91-20-3	Naphthalene	0.147	U	ug/L	EPA 3510C / 8270	1	0.147	10.0	10/21/15	10/21/15	PLS
91-57-6	2-Methylnaphthalene	0.288	U	ug/L	EPA 3510C / 8270	1	0.288	10.0	10/21/15	10/21/15	PLS
90-12-0	1-Methylnaphthalene	0.285	U	ug/L	EPA 3510C / 8270	1	0.285	10.0	10/21/15	10/21/15	PLS
208-96-8	Acenaphthylene	0.393	U	ug/L	EPA 3510C / 8270	1	0.393	10.0	10/21/15	10/21/15	PLS
83-32-9	Acenaphthene	0.188	U	ug/L	EPA 3510C / 8270	1	0.188	10.0	10/21/15	10/21/15	PLS
86-73-7	Fluorene	0.217	U	ug/L	EPA 3510C / 8270	1	0.217	10.0	10/21/15	10/21/15	PLS
85-01-8	Phenanthrene	0.215	U	ug/L	EPA 3510C / 8270	1	0.215	10.0	10/21/15	10/21/15	PLS
120-12-7	Anthracene	0.0100	U	ug/L	EPA 3510C / 8270	1	0.0100	0.0300	10/21/15	10/21/15	PLS
206-44-0	Fluoranthene	0.0100	U	ug/L	EPA 3510C / 8270	1	0.0100	0.0300	10/21/15	10/21/15	PLS
129-00-0	Pyrene	0.409	U	ug/L	EPA 3510C / 8270	1	0.409	10.0	10/21/15	10/21/15	PLS
56-55-3	Benzo[a]anthracene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	10/21/15	10/21/15	PLS
218-01-9	Chrysene	0.169	U	ug/L	EPA 3510C / 8270	1	0.169	0.200	10/21/15	10/21/15	PLS
205-99-2	Benzo[b]fluoranthene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	10/21/15	10/21/15	PLS
207-08-9	Benzo[k]fluoranthene	0.500	U	ug/L	EPA 3510C / 8270	1	0.500	0.500	10/21/15	10/21/15	PLS
50-32-8	Benzo[a]pyrene	0.200	U	ug/L	EPA 3510C / 8270	1	0.200	0.200	10/21/15	10/21/15	PLS
53-70-3	Dibenz[a,h]anthracene	0.0050	U	ug/L	EPA 3510C / 8270	1	0.0050	0.0500	10/21/15	10/21/15	PLS
193-39-5	Indeno[1,2,3-cd]pyrene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	10/21/15	10/21/15	PLS

Palm Beach Environmental Laboratories Inc.

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LOG #: 0013888
COC#: 22131
REPORTED: 10/23/2015 2:28:49PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: MW-3 **Lab ID:** 0013888-03 **Sampled:** 10/15/15 13:06
Matrix: Water **Sampled By:** Randall Murphy **Received:** 10/15/15 15:10

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
191-24-2	Benzo[g,h,i]perylene	0.341	U	ug/L	EPA 3510C / 8270	1	0.341	10.0	10/21/15	10/21/15	PLS

		% Recovery	Q	% Recovery Limits
NA	Surrogate: Nitrobenzene-d5	90.7 %		Limit 40-142
321-60-8	Surrogate: 2-Fluorobiphenyl	97.3 %		Limit 47-150
NA	Surrogate: p-Terphenyl-d14	104 %		Limit 55-165

EPA Method 8011 List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
106-93-4	1,2-Dibromoethane (EDB)	0.01120	JEE, U	ug/L	EPA 8260B	1	0.01120	0.03400	10/19/15	10/19/15	SL
96-12-8	1,2-Dibromo-3-Chloropropane	0.01210	JEE, U	ug/L	EPA 8260B	1	0.01210	0.03600	10/19/15	10/19/15	SL

FLPRO

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
NA	**FLPRO Total**	**0.265**	I	mg/L	EPA 3510C /RO	1	0.040	0.500	10/20/15	10/20/15	PLS

		% Recovery	Q	% Recovery Limits
84-15-1	Surrogate: o-Terphenyl	112 %		Limit 70-130
7194-86-7	Surrogate: Nonatriacontane	102 %		Limit 42-193

Metals by EPA 6000/7000 Series Methods

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
7439-92-1	**Lead**	**0.0004**	I	mg/L	EPA 6020B	1	0.00001	0.005	10/17/15	10/17/15	DD

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LOG #: 0013888
COC#: 22131
REPORTED: 10/23/2015 2:28:49PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: MW-4 **Lab ID:** 0013888-04 **Sampled:** 10/15/15 14:43
Matrix: Water **Sampled By:** Randall Murphy **Received:** 10/15/15 15:10

EPA 8020 List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
71-43-2	Benzene	0.640	U	ug/L	EPA 8260C	1	0.640	1.00	10/17/15	10/20/15	PLS
108-88-3	Toluene	0.660	U	ug/L	EPA 8260C	1	0.660	1.00	10/17/15	10/20/15	PLS
108-90-7	Chlorobenzene	0.670	U	ug/L	EPA 8260C	1	0.670	1.00	10/17/15	10/20/15	PLS
100-41-4	Ethylbenzene	0.730	U	ug/L	EPA 8260C	1	0.730	1.00	10/17/15	10/20/15	PLS
108-38-3/106-42-3	m,p-Xylene	0.760	U	ug/L	EPA 8260C	1	0.760	1.00	10/17/15	10/20/15	PLS
95-47-6	o-Xylene	0.870	U	ug/L	EPA 8260C	1	0.870	1.00	10/17/15	10/20/15	PLS
541-73-1	1,3-Dichlorobenzene	0.310	U	ug/L	EPA 8260C	1	0.310	1.00	10/17/15	10/20/15	PLS
106-46-7	1,4-Dichlorobenzene	0.510	U	ug/L	EPA 8260C	1	0.510	1.00	10/17/15	10/20/15	PLS
95-50-1	1,2-Dichlorobenzene	0.510	U	ug/L	EPA 8260C	1	0.510	1.00	10/17/15	10/20/15	PLS
1634-04-4	MTBE	0.530	U	ug/L	EPA 8260C	1	0.530	1.00	10/17/15	10/20/15	PLS

		% Recovery	Q	% Recovery Limits
1868-53-7	Surrogate: Dibromofluoromethane	81.7 %		Limit 62-200
2037-26-5	Surrogate: Toluene-d8	103 %		Limit 63-144
460-00-4	Surrogate: 4-Bromofluorobenzene	124 %		Limit 50-155

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
91-20-3	Naphthalene	0.147	U	ug/L	EPA 3510C / 8270	1	0.147	10.0	10/21/15	10/21/15	PLS
91-57-6	**2-Methylnaphthalene**	**11.3**		ug/L	EPA 3510C / 8270	1	0.288	10.0	10/21/15	10/21/15	PLS
90-12-0	**1-Methylnaphthalene**	**20.1**		ug/L	EPA 3510C / 8270	1	0.285	10.0	10/21/15	10/21/15	PLS
208-96-8	Acenaphthylene	0.393	U	ug/L	EPA 3510C / 8270	1	0.393	10.0	10/21/15	10/21/15	PLS
83-32-9	Acenaphthene	0.188	U	ug/L	EPA 3510C / 8270	1	0.188	10.0	10/21/15	10/21/15	PLS
86-73-7	**Fluorene**	**0.680**	I	ug/L	EPA 3510C / 8270	1	0.217	10.0	10/21/15	10/21/15	PLS
85-01-8	Phenanthrene	0.215	U	ug/L	EPA 3510C / 8270	1	0.215	10.0	10/21/15	10/21/15	PLS
120-12-7	Anthracene	0.0100	U	ug/L	EPA 3510C / 8270	1	0.0100	0.0300	10/21/15	10/21/15	PLS
206-44-0	Fluoranthene	0.0100	U	ug/L	EPA 3510C / 8270	1	0.0100	0.0300	10/21/15	10/21/15	PLS
129-00-0	Pyrene	0.409	U	ug/L	EPA 3510C / 8270	1	0.409	10.0	10/21/15	10/21/15	PLS
56-55-3	Benzo[a]anthracene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	10/21/15	10/21/15	PLS
218-01-9	Chrysene	0.169	U	ug/L	EPA 3510C / 8270	1	0.169	0.200	10/21/15	10/21/15	PLS
205-99-2	Benzo[b]fluoranthene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	10/21/15	10/21/15	PLS
207-08-9	Benzo[k]fluoranthene	0.500	U	ug/L	EPA 3510C / 8270	1	0.500	0.500	10/21/15	10/21/15	PLS
50-32-8	Benzo[a]pyrene	0.200	U	ug/L	EPA 3510C / 8270	1	0.200	0.200	10/21/15	10/21/15	PLS
53-70-3	Dibenz[a,h]anthracene	0.0050	U	ug/L	EPA 3510C / 8270	1	0.0050	0.0500	10/21/15	10/21/15	PLS
193-39-5	Indeno[1,2,3-cd]pyrene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	10/21/15	10/21/15	PLS

Palm Beach Environmental Laboratories Inc.

CERTIFICATE OF ANALYSIS

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LOG #: 0013888
COC#: 22131
REPORTED: 10/23/2015 2:28:49PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: MW-4 **Lab ID:** 0013888-04 **Sampled:** 10/15/15 14:43
Matrix: Water **Sampled By:** Randall Murphy **Received:** 10/15/15 15:10

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
191-24-2	Benzo[g,h,i]perylene	0.341	U	ug/L	EPA 3510C / 8270	1	0.341	10.0	10/21/15	10/21/15	PLS

		% Recovery	Q	% Recovery Limits
NA	Surrogate: Nitrobenzene-d5	90.7 %		Limit 40-142
321-60-8	Surrogate: 2-Fluorobiphenyl	93.1 %		Limit 47-150
NA	Surrogate: p-Terphenyl-d14	110 %		Limit 55-165

EPA Method 8011 List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
106-93-4	1,2-Dibromoethane (EDB)	0.01120	JEE, U	ug/L	EPA 8260B	1	0.01120	0.03400	10/19/15	10/19/15	SL
96-12-8	1,2-Dibromo-3-Chloropropane	0.01210	JEE, U	ug/L	EPA 8260B	1	0.01210	0.03600	10/19/15	10/19/15	SL

FLPRO

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
NA	**FLPRO Total**	**1.45**		mg/L	EPA 3510C /RO	1	0.040	0.500	10/20/15	10/20/15	PLS

		% Recovery	Q	% Recovery Limits
84-15-1	Surrogate: o-Terphenyl	106 %		Limit 70-130
7194-86-7	Surrogate: Nonatriacontane	106 %		Limit 42-193

Metals by EPA 6000/7000 Series Methods

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
7439-92-1	**Lead**	**0.0004**	I	mg/L	EPA 6020B	1	0.00001	0.005	10/17/15	10/17/15	DD

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LOG #: 0013888
COC#: 22131
REPORTED: 10/23/2015 2:28:49PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: MW-5 **Lab ID:** 0013888-05 **Sampled:** 10/15/15 13:51
Matrix: Water **Sampled By:** Randall Murphy **Received:** 10/15/15 15:10

EPA 8020 List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
71-43-2	Benzene	0.640	U	ug/L	EPA 8260C	1	0.640	1.00	10/17/15	10/20/15	PLS
108-88-3	Toluene	0.660	U	ug/L	EPA 8260C	1	0.660	1.00	10/17/15	10/20/15	PLS
108-90-7	Chlorobenzene	0.670	U	ug/L	EPA 8260C	1	0.670	1.00	10/17/15	10/20/15	PLS
100-41-4	Ethylbenzene	0.730	U	ug/L	EPA 8260C	1	0.730	1.00	10/17/15	10/20/15	PLS
108-38-3/106-42-3	m,p-Xylene	0.760	U	ug/L	EPA 8260C	1	0.760	1.00	10/17/15	10/20/15	PLS
95-47-6	o-Xylene	0.870	U	ug/L	EPA 8260C	1	0.870	1.00	10/17/15	10/20/15	PLS
541-73-1	1,3-Dichlorobenzene	0.310	U	ug/L	EPA 8260C	1	0.310	1.00	10/17/15	10/20/15	PLS
106-46-7	1,4-Dichlorobenzene	0.510	U	ug/L	EPA 8260C	1	0.510	1.00	10/17/15	10/20/15	PLS
95-50-1	1,2-Dichlorobenzene	0.510	U	ug/L	EPA 8260C	1	0.510	1.00	10/17/15	10/20/15	PLS
1634-04-4	MTBE	0.530	U	ug/L	EPA 8260C	1	0.530	1.00	10/17/15	10/20/15	PLS

		% Recovery	Q	% Recovery Limits
1868-53-7	Surrogate: Dibromofluoromethane	83.1 %		Limit 62-200
2037-26-5	Surrogate: Toluene-d8	97.9 %		Limit 63-144
460-00-4	Surrogate: 4-Bromofluorobenzene	100 %		Limit 50-155

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
91-20-3	Naphthalene	0.147	U	ug/L	EPA 3510C / 8270	1	0.147	10.0	10/21/15	10/21/15	PLS
91-57-6	2-Methylnaphthalene	0.288	U	ug/L	EPA 3510C / 8270	1	0.288	10.0	10/21/15	10/21/15	PLS
90-12-0	1-Methylnaphthalene	0.285	U	ug/L	EPA 3510C / 8270	1	0.285	10.0	10/21/15	10/21/15	PLS
208-96-8	Acenaphthylene	0.393	U	ug/L	EPA 3510C / 8270	1	0.393	10.0	10/21/15	10/21/15	PLS
83-32-9	Acenaphthene	0.188	U	ug/L	EPA 3510C / 8270	1	0.188	10.0	10/21/15	10/21/15	PLS
86-73-7	Fluorene	0.217	U	ug/L	EPA 3510C / 8270	1	0.217	10.0	10/21/15	10/21/15	PLS
85-01-8	Phenanthrene	0.215	U	ug/L	EPA 3510C / 8270	1	0.215	10.0	10/21/15	10/21/15	PLS
120-12-7	Anthracene	0.0100	U	ug/L	EPA 3510C / 8270	1	0.0100	0.0300	10/21/15	10/21/15	PLS
206-44-0	Fluoranthene	0.0100	U	ug/L	EPA 3510C / 8270	1	0.0100	0.0300	10/21/15	10/21/15	PLS
129-00-0	Pyrene	0.409	U	ug/L	EPA 3510C / 8270	1	0.409	10.0	10/21/15	10/21/15	PLS
56-55-3	Benzo[a]anthracene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	10/21/15	10/21/15	PLS
218-01-9	Chrysene	0.169	U	ug/L	EPA 3510C / 8270	1	0.169	0.200	10/21/15	10/21/15	PLS
205-99-2	Benzo[b]fluoranthene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	10/21/15	10/21/15	PLS
207-08-9	Benzo[k]fluoranthene	0.500	U	ug/L	EPA 3510C / 8270	1	0.500	0.500	10/21/15	10/21/15	PLS
50-32-8	Benzo[a]pyrene	0.200	U	ug/L	EPA 3510C / 8270	1	0.200	0.200	10/21/15	10/21/15	PLS
53-70-3	Dibenz[a,h]anthracene	0.0050	U	ug/L	EPA 3510C / 8270	1	0.0050	0.0500	10/21/15	10/21/15	PLS
193-39-5	Indeno[1,2,3-cd]pyrene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	10/21/15	10/21/15	PLS

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LOG #: 0013888
COC#: 22131
REPORTED: 10/23/2015 2:28:49PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: MW-5 **Lab ID:** 0013888-05 **Sampled:** 10/15/15 13:51
Matrix: Water **Sampled By:** Randall Murphy **Received:** 10/15/15 15:10

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
191-24-2	Benzo[g,h,i]perylene	0.341	U	ug/L	EPA 3510C / 8270	1	0.341	10.0	10/21/15	10/21/15	PLS

		% Recovery	Q	% Recovery Limits
NA	Surrogate: Nitrobenzene-d5	98.3 %		Limit 40-142
321-60-8	Surrogate: 2-Fluorobiphenyl	103 %		Limit 47-150
NA	Surrogate: p-Terphenyl-d14	111 %		Limit 55-165

EPA Method 8011 List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
106-93-4	1,2-Dibromoethane (EDB)	0.01120	JEE, U	ug/L	EPA 8260B	1	0.01120	0.03400	10/19/15	10/19/15	SL
96-12-8	1,2-Dibromo-3-Chloropropane	0.01210	JEE, U	ug/L	EPA 8260B	1	0.01210	0.03600	10/19/15	10/19/15	SL

FLPRO

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
NA	**FLPRO Total**	**0.527**		mg/L	EPA 3510C /RO	1	0.040	0.500	10/20/15	10/20/15	PLS

		% Recovery	Q	% Recovery Limits
84-15-1	Surrogate: o-Terphenyl	88.7 %		Limit 70-130
7194-86-7	Surrogate: Nonatriacontane	105 %		Limit 42-193

Metals by EPA 6000/7000 Series Methods

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
7439-92-1	**Lead**	**0.0001**	I	mg/L	EPA 6020B	1	0.00001	0.005	10/17/15	10/17/15	DD

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LOG #: 0013888
COC#: 22131
REPORTED: 10/23/2015 2:28:49PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8020 List - Quality Control										
Batch B510084 - P&T										
Blank (B510084-BLK1)				Prepared: 10/17/15 Analyzed: 10/20/15						
Benzene	U	1.00	ug/L							U
Toluene	U	1.00	ug/L							U
Chlorobenzene	U	1.00	ug/L							U
Ethylbenzene	U	1.00	ug/L							U
m,p-Xylene	U	1.00	ug/L							U
o-Xylene	U	1.00	ug/L							U
1,3-Dichlorobenzene	U	1.00	ug/L							U
1,4-Dichlorobenzene	U	1.00	ug/L							U
1,2-Dichlorobenzene	U	1.00	ug/L							U
MTBE	U	1.00	ug/L							U
Surrogate: Dibromofluoromethane	*12.2*		*ug/L*	*15.00*		*81.2*	*62-200*			
Surrogate: Toluene-d8	*14.5*		*ug/L*	*15.00*		*96.8*	*63-144*			
Surrogate: 4-Bromofluorobenzene	*14.8*		*ug/L*	*15.00*		*98.8*	*50-155*			
LCS (B510084-BS1)				Prepared: 10/17/15 Analyzed: 10/20/15						
Benzene	27.7	1.00	ug/L	27.78		99.8	60-135			
Toluene	28.0	1.00	ug/L	27.78		101	60-135			
Chlorobenzene	29.7	1.00	ug/L	27.78		107	60-135			
Trichloroethene	24.7	1.00	ug/L	27.78		88.8	60-135			
Surrogate: Dibromofluoromethane	*12.6*		*ug/L*	*15.00*		*84.1*	*62-136*			
Surrogate: Toluene-d8	*16.6*		*ug/L*	*15.00*		*110*	*66-144*			
Surrogate: 4-Bromofluorobenzene	*14.9*		*ug/L*	*15.00*		*99.3*	*70-131*			
LCS Dup (B510084-BSD1)				Prepared: 10/17/15 Analyzed: 10/20/15						
Benzene	27.0	1.00	ug/L	27.78		97.0	60-135	2.82	20	
Toluene	26.0	1.00	ug/L	27.78		93.7	60-135	7.22	20	
Chlorobenzene	27.6	1.00	ug/L	27.78		99.4	60-135	7.26	20	
Trichloroethene	23.7	1.00	ug/L	27.78		85.2	60-135	4.14	20	
Surrogate: Dibromofluoromethane	*12.0*		*ug/L*	*15.00*		*80.0*	*62-136*			
Surrogate: Toluene-d8	*15.8*		*ug/L*	*15.00*		*105*	*66-144*			
Surrogate: 4-Bromofluorobenzene	*15.2*		*ug/L*	*15.00*		*102*	*70-131*			
Calibration Check (B510084-CCV1)				Prepared: 10/17/15 Analyzed: 10/20/15						
Benzene	28.7		ug/L	27.78		103	80-120			
Toluene	27.7		ug/L	27.78		99.6	80-120			
Chlorobenzene	29.3		ug/L	27.78		106	80-120			
Trichloroethene	25.0		ug/L	27.78		89.9	80-120			
Surrogate: Dibromofluoromethane	*12.0*		*ug/L*	*15.00*		*80.1*	*0-200*			

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LOG #: 0013888
COC#: 22131
REPORTED: 10/23/2015 2:28:49PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8020 List - Quality Control										
Batch B510084 - P&T										
Calibration Check (B510084-CCV1) Continued				Prepared: 10/17/15 Analyzed: 10/20/15						
Surrogate: Toluene-d8	*16.1*		*ug/L*	*15.00*		*107*	*0-200*			
Surrogate: 4-Bromofluorobenzene	*15.3*		*ug/L*	*15.00*		*102*	*0-200*			
Duplicate (B510084-DUP1)		**Source: 0013888-02**		Prepared: 10/17/15 Analyzed: 10/20/15						
Benzene	U	1.00	ug/L		U				200	U
Toluene	U	1.00	ug/L		U				200	U
Chlorobenzene	U	1.00	ug/L		U				200	U
Trichloroethene	U	1.00	ug/L		U				200	U
Surrogate: Dibromofluoromethane	*13.2*		*ug/L*	*15.00*		*88.3*	*62-200*			
Surrogate: Toluene-d8	*15.1*		*ug/L*	*15.00*		*101*	*63-144*			
Surrogate: 4-Bromofluorobenzene	*14.7*		*ug/L*	*15.00*		*97.9*	*50-155*			
Matrix Spike (B510084-MS1)		**Source: 0013888-02**		Prepared: 10/17/15 Analyzed: 10/20/15						
Benzene	27.8	1.00	ug/L	27.78	U	100	60-135			
Toluene	24.8	1.00	ug/L	27.78	U	89.2	60-135			
Chlorobenzene	26.4	1.00	ug/L	27.78	U	95.1	60-135			
Trichloroethene	22.2	1.00	ug/L	27.78	U	79.8	60-135			
Surrogate: Dibromofluoromethane	*12.0*		*ug/L*	*15.00*		*80.1*	*62-136*			
Surrogate: Toluene-d8	*15.6*		*ug/L*	*15.00*		*104*	*66-144*			
Surrogate: 4-Bromofluorobenzene	*15.0*		*ug/L*	*15.00*		*100*	*70-131*			
Matrix Spike Dup (B510084-MSD1)		**Source: 0013888-02**		Prepared: 10/17/15 Analyzed: 10/20/15						
Benzene	26.3	1.00	ug/L	27.78	U	94.6	60-135	5.73	20	
Toluene	25.0	1.00	ug/L	27.78	U	90.0	60-135	0.844	20	
Chlorobenzene	26.2	1.00	ug/L	27.78	U	94.4	60-135	0.684	20	
Trichloroethene	21.7	1.00	ug/L	27.78	U	78.3	60-135	2.00	20	
Surrogate: Dibromofluoromethane	*11.0*		*ug/L*	*15.00*		*73.7*	*62-136*			
Surrogate: Toluene-d8	*16.7*		*ug/L*	*15.00*		*111*	*66-144*			
Surrogate: 4-Bromofluorobenzene	*15.2*		*ug/L*	*15.00*		*101*	*70-131*			
EPA 8100 PAH List - Quality Control										
Batch B510099 - EPA 3510C										
Blank (B510099-BLK1)				Prepared & Analyzed: 10/21/15						
Naphthalene	U	10.0	ug/L							U
2-Methylnaphthalene	U	10.0	ug/L							U
1-Methylnaphthalene	U	10.0	ug/L							U
Acenaphthylene	U	10.0	ug/L							U
Acenaphthene	U	10.0	ug/L							U
Fluorene	U	10.0	ug/L							U

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PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8100 PAH List - Quality Control										
Batch B510099 - EPA 3510C										
Blank (B510099-BLK1) Continued				Prepared & Analyzed: 10/21/15						
Phenanthrene	U	10.0	ug/L							U
Anthracene	U	0.0300	ug/L							U
Fluoranthene	U	0.0300	ug/L							U
Pyrene	U	10.0	ug/L							U
Benzo[a]anthracene	U	0.0500	ug/L							U
Chrysene	U	0.200	ug/L							U
Benzo[b]fluoranthene	U	0.0500	ug/L							U
Benzo[k]fluoranthene	U	0.500	ug/L							U
Benzo[a]pyrene	U	0.200	ug/L							U
Dibenz[a,h]anthracene	U	0.0500	ug/L							U
Indeno[1,2,3-cd]pyrene	U	0.0500	ug/L							U
Benzo[g,h,i]perylene	U	10.0	ug/L							U
Surrogate: Nitrobenzene-d5	*15*		*ug/L*	*15.00*		*103*	*40-142*			
Surrogate: 2-Fluorobiphenyl	*16*		*ug/L*	*15.00*		*109*	*47-150*			
Surrogate: p-Terphenyl-d14	*16*		*ug/L*	*15.00*		*109*	*55-165*			
LCS (B510099-BS1)				Prepared & Analyzed: 10/21/15						
Naphthalene	130	10.0	ug/L	125.0		104	60-135			
Acenaphthylene	128	10.0	ug/L	125.0		102	60-135			
Pyrene	134	10.0	ug/L	125.0		107	60-135			
4-Chloro-3-methylphenol	124	10.0	ug/L	125.0		99.1	60-135			
Di-n-octylphthalate	124	10.0	ug/L	125.0		99.4	60-135			
Hexachlorobenzene	134	10.0	ug/L	125.0		107	60-135			
2-Methylphenol	128	10.0	ug/L	125.0		102	60-135			
Nitrobenzene	146	10.0	ug/L	125.0		117	60-135			
Surrogate: Nitrobenzene-d5	*27*		*ug/L*	*25.00*		*107*	*60-135*			
Surrogate: 2-Fluorobiphenyl	*26*		*ug/L*	*25.00*		*103*	*60-135*			
Surrogate: p-Terphenyl-d14	*28*		*ug/L*	*25.00*		*112*	*60-135*			
LCS Dup (B510099-BSD1)				Prepared & Analyzed: 10/21/15						
Naphthalene	130	10.0	ug/L	125.0		104	60-135	0.477	20	
Acenaphthylene	132	10.0	ug/L	125.0		105	60-135	2.92	20	
Pyrene	126	10.0	ug/L	125.0		101	60-135	5.77	20	
4-Chloro-3-methylphenol	123	10.0	ug/L	125.0		98.2	60-135	0.876	200	
Di-n-octylphthalate	130	10.0	ug/L	125.0		104	60-135	4.17	200	
Hexachlorobenzene	133	10.0	ug/L	125.0		107	60-135	0.307	200	
2-Methylphenol	124	10.0	ug/L	125.0		98.9	60-135	3.55	200	
Nitrobenzene	125	10.0	ug/L	125.0		100	60-135	15.7	200	

Palm Beach Environmental Laboratories Inc.

CERTIFICATE OF ANALYSIS

Terracon WPB
1225 Omar Road
West Palm Beach, FL 33405
ATTN: Andrew Petric
PHONE: (561) 689-4299 **FAX:** (561) 689-5955

LOG #: 0013888
COC#: 22131
REPORTED: 10/23/2015 2:28:49PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8100 PAH List - Quality Control										
Batch B510099 - EPA 3510C										
LCS Dup (B510099-BSD1) Continued				Prepared & Analyzed: 10/21/15						
Surrogate: Nitrobenzene-d5	*26*		*ug/L*	*25.00*		*105*	*60-135*			
Surrogate: 2-Fluorobiphenyl	*26*		*ug/L*	*25.00*		*106*	*60-135*			
Surrogate: p-Terphenyl-d14	*27*		*ug/L*	*25.00*		*107*	*60-135*			
Calibration Check (B510099-CCV1)				Prepared & Analyzed: 10/21/15						
Naphthalene	58.4		ug/L	60.00		97.4	85-115			
Acenaphthylene	54.1		ug/L	60.00		90.1	85-115			
Pyrene	58.6		ug/L	60.00		97.6	85-115			
4-Chloro-3-methylphenol	58.3		ug/L	60.00		97.2	85-115			
Di-n-octylphthalate	63.1		ug/L	60.00		105	85-115			
Hexachlorobenzene	52.8		ug/L	60.00		87.9	85-115			
2-Methylphenol	58.0		ug/L	60.00		96.6	85-115			
Nitrobenzene	59.0		ug/L	60.00		98.4	85-115			
Surrogate: Nitrobenzene-d5	*19*		*ug/L*	*20.00*		*94.3*	*0-200*			
Surrogate: 2-Fluorobiphenyl	*18*		*ug/L*	*20.00*		*87.9*	*0-200*			
Surrogate: p-Terphenyl-d14	*19*		*ug/L*	*20.00*		*94.4*	*0-200*			
Duplicate (B510099-DUP1)		**Source: 0013888-02**		Prepared & Analyzed: 10/21/15						
Naphthalene	U	10.0	ug/L		U				200	U
Acenaphthylene	U	10.0	ug/L		U				200	U
Pyrene	4.35	10.0	ug/L		4.38			0.687	200	I
4-Chloro-3-methylphenol	U	10.0	ug/L		U				200	U
Di-n-octylphthalate	U	10.0	ug/L		U				200	U
Hexachlorobenzene	U	10.0	ug/L		U				200	U
2-Methylphenol	U	10.0	ug/L		U				200	U
Nitrobenzene	U	10.0	ug/L		U				200	U
Surrogate: Nitrobenzene-d5	*13*		*ug/L*	*15.00*		*86.0*	*40-142*			
Surrogate: 2-Fluorobiphenyl	*14*		*ug/L*	*15.00*		*91.5*	*47-150*			
Surrogate: p-Terphenyl-d14	*16*		*ug/L*	*15.00*		*107*	*55-165*			
Matrix Spike (B510099-MS1)		**Source: 0013888-02**		Prepared & Analyzed: 10/21/15						
Naphthalene	53.2	10.0	ug/L	55.00	U	96.7	60-135			
Acenaphthylene	48.3	10.0	ug/L	55.00	U	87.7	60-135			
Pyrene	50.6	10.0	ug/L	55.00	4.38	84.0	60-135			
4-Chloro-3-methylphenol	53.5	10.0	ug/L	55.00	U	97.3	60-135			
Di-n-octylphthalate	48.2	10.0	ug/L	55.00	U	87.6	60-135			
Hexachlorobenzene	53.9	10.0	ug/L	55.00	U	98.1	60-135			
2-Methylphenol	51.4	10.0	ug/L	55.00	U	93.5	60-135			
Nitrobenzene	47.7	10.0	ug/L	55.00	U	86.7	60-135			

Palm Beach Environmental Laboratories Inc.

CERTIFICATE OF ANALYSIS

Terracon WPB
1225 Omar Road
West Palm Beach, FL 33405
ATTN: Andrew Petric
PHONE: (561) 689-4299 **FAX:** (561) 689-5955

LOG #: 0013888
COC#: 22131
REPORTED: 10/23/2015 2:28:49PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8100 PAH List - Quality Control										
Batch B510099 - EPA 3510C										
Matrix Spike (B510099-MS1) Continued		**Source: 0013888-02**		Prepared & Analyzed: 10/21/15						
Surrogate: Nitrobenzene-d5	*15*		*ug/L*	*15.00*		*99.5*	*60-135*			
Surrogate: 2-Fluorobiphenyl	*14*		*ug/L*	*15.00*		*95.1*	*60-135*			
Surrogate: p-Terphenyl-d14	*14*		*ug/L*	*15.00*		*90.7*	*60-135*			
Matrix Spike Dup (B510099-MSD1)		**Source: 0013888-02**		Prepared & Analyzed: 10/21/15						
Naphthalene	51.8	10.0	ug/L	55.00	U	94.3	60-135	2.59	20	
Acenaphthylene	54.0	10.0	ug/L	55.00	U	98.1	60-135	11.2	20	
Pyrene	56.4	10.0	ug/L	55.00	4.38	94.6	60-135	10.9	20	
4-Chloro-3-methylphenol	53.1	10.0	ug/L	55.00	U	96.5	60-135	0.882	20	
Di-n-octylphthalate	52.7	10.0	ug/L	55.00	U	95.8	60-135	8.86	20	
Hexachlorobenzene	54.2	10.0	ug/L	55.00	U	98.5	60-135	0.444	20	
2-Methylphenol	52.6	10.0	ug/L	55.00	U	95.5	60-135	2.21	20	
Nitrobenzene	52.5	10.0	ug/L	55.00	U	95.4	60-135	9.63	20	
Surrogate: Nitrobenzene-d5	*16*		*ug/L*	*15.00*		*105*	*60-135*			
Surrogate: 2-Fluorobiphenyl	*14*		*ug/L*	*15.00*		*92.0*	*60-135*			
Surrogate: p-Terphenyl-d14	*17*		*ug/L*	*15.00*		*112*	*60-135*			
FLPRO - Quality Control										
Batch B510096 - EPA 3510C										
Blank (B510096-BLK1)				Prepared & Analyzed: 10/20/15						
FLPRO Total	0.057	0.500	mg/L							I
Surrogate: o-Terphenyl	*0.0558*		*mg/L*	*0.05000*		*112*	*70-130*			
Surrogate: Nonatriacontane	*0.296*		*mg/L*	*0.3000*		*98.8*	*42-193*			
LCS (B510096-BS1)				Prepared & Analyzed: 10/20/15						
FLPRO Total	1.01	0.500	mg/L	1.360		74.3	60-120			
Surrogate: o-Terphenyl	*0.0561*		*mg/L*	*0.05000*		*112*	*70-130*			
Surrogate: Nonatriacontane	*0.290*		*mg/L*	*0.3000*		*96.7*	*42-193*			
LCS Dup (B510096-BSD1)				Prepared & Analyzed: 10/20/15						
FLPRO Total	1.01	0.500	mg/L	1.360		74.3	60-120	0.0885	30	
Surrogate: o-Terphenyl	*0.0566*		*mg/L*	*0.05000*		*113*	*70-130*			
Surrogate: Nonatriacontane	*0.289*		*mg/L*	*0.3000*		*96.2*	*42-193*			
Calibration Check (B510096-CCV1)				Prepared & Analyzed: 10/20/15						
FLPRO Total	1.02		mg/L	1.360		75.1	70-130			U
Surrogate: o-Terphenyl	*0.0538*		*mg/L*	*0.05000*		*108*	*0-200*			U
Surrogate: Nonatriacontane	*0.299*		*mg/L*	*0.3000*		*99.6*	*0-200*			U
Calibration Check (B510096-CCV2)				Prepared & Analyzed: 10/20/15						

Palm Beach Environmental Laboratories Inc.

CERTIFICATE OF ANALYSIS

Terracon WPB
1225 Omar Road
West Palm Beach, FL 33405
ATTN: Andrew Petric
PHONE: (561) 689-4299 **FAX:** (561) 689-5955

LOG #: 0013888
COC#: 22131
REPORTED: 10/23/2015 2:28:49PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
FLPRO - Quality Control										
Batch B510096 - EPA 3510C										
Calibration Check (B510096-CCV2) Continued				Prepared & Analyzed: 10/20/15						
FLPRO Total	1.01		mg/L	1.360		74.3	70-130			U
Surrogate: o-Terphenyl	*0.0546*		*mg/L*	*0.05000*		*109*	*0-200*			U
Surrogate: Nonatriacontane	*0.329*		*mg/L*	*0.3000*		*110*	*0-200*			U
Duplicate (B510096-DUP1)		**Source: 0013888-02**		Prepared & Analyzed: 10/20/15						
FLPRO Total	1.55	0.500	mg/L		1.45			6.94	200	
Surrogate: o-Terphenyl	*0.0563*		*mg/L*	*0.05000*		*113*	*70-130*			
Surrogate: Nonatriacontane	*0.335*		*mg/L*	*0.3000*		*112*	*42-193*			
Matrix Spike (B510096-MS1)		**Source: 0013888-02**		Prepared & Analyzed: 10/20/15						
FLPRO Total	2.79	0.500	mg/L	1.360	1.45	98.3	40-155			
Surrogate: o-Terphenyl	*0.0557*		*mg/L*	*0.05000*		*111*	*70-130*			
Surrogate: Nonatriacontane	*0.279*		*mg/L*	*0.3000*		*93.1*	*42-193*			
Matrix Spike Dup (B510096-MSD1)		**Source: 0013888-02**		Prepared & Analyzed: 10/20/15						
FLPRO Total	2.64	0.500	mg/L	1.360	1.45	87.7	40-155	5.31	30	
Surrogate: o-Terphenyl	*0.0536*		*mg/L*	*0.05000*		*107*	*70-130*			
Surrogate: Nonatriacontane	*0.327*		*mg/L*	*0.3000*		*109*	*42-193*			
Metals by EPA 6000/7000 Series Methods - Quality Control										
Batch B510089 - NO PREP										
Blank (B510089-BLK1)				Prepared & Analyzed: 10/17/15						
Lead	U	0.005	mg/L							U
LCS (B510089-BS1)				Prepared & Analyzed: 10/17/15						
Lead	0.014	0.005	mg/L	0.01500		96.0	80-120			
Calibration Check (B510089-CCV1)				Prepared & Analyzed: 10/17/15						
Lead	0.098		mg/L	0.1000		98.2	90-110			
Duplicate (B510089-DUP1)		**Source: 0013888-05**		Prepared & Analyzed: 10/17/15						
Lead	0.0001	0.005	mg/L		0.0001			0.00	20	I
Matrix Spike (B510089-MS1)		**Source: 0013888-05**		Prepared & Analyzed: 10/17/15						
Lead	0.013	0.005	mg/L	0.01500	0.0001	88.0	70-130			
Matrix Spike Dup (B510089-MSD1)		**Source: 0013888-05**		Prepared & Analyzed: 10/17/15						
Lead	0.013	0.005	mg/L	0.01500	0.0001	88.0	70-130	0.00	25	

Notes and Definitions

U	Analyte included in the analysis, but not detected
I	The reported value is between the laboratory Method Detection Limit & the laboratory Practical Quantitation Limit
JEE	Analysis performed by Florida Environmental Cert#E86006

Palm Beach Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Log #: 13888
PO #:
Quote #:
FDEP : ✓

Company Name: Terracon
Address: 1225 Omar Road
City: WPB State: FL Zip: 33405
Attn: Andrew Petric Phone#: 561 689-4299
email: Andrew.Petric@Terracon.com Fax#: 561 689-5955
Project Name: Palm Tran @ PBIA Proj#: H0157021
Sampler Signature / Name: [signature] / Randall Murphy

LAB ANALYSIS

#	Sample Label (Client ID)	Collect Date	Collect Time	Matrix	Field Filtered	Integrity OK	Total # of containers	BTEX / MTBE by EPA 8260	PAH by EPA 8270	TRPH by FL Pro	Total Pb by EPA 6010	EDB by EPA 504.1	pH FL Pro 10/16/15	pH Lead 10/16/15
PRES CODE								I	I	E I	B I	I		
1	MW-1	10/15/15	1031	GW	–		7	X	X	X	X	X	<2	<2
2	MW-2	⎮	1148	⎮	–		14	X	X	X	X	X	<2	<2
3	MW-3	⎮	1306	⎮	–		7	X	X	X	X	X	<2	<2
4	MW-4	⎮	1403	⎮	–		7	X	X	X	X	X	<2	<2
5	MW 5	⎮	1351	⎮	–		7	X	X	X	X	X	<2	<2
6														
7														
8														
9														
0														

Matrix Codes

SD	Solid Waste	OL	Oil
GW	Ground Water	SL	Sludge
EFF	Effluent	SO	Soil Sediment
AFW	Analyle Free H2O	AQ	Aqueous
WW	Waste Water	NA	Nonaqueous
DW	Drinking Water		
SW	Surface Water	O	Other (Please Specify)

Press Codes

A. None	E. HCL	O. Other
B. HNO3	F. MeOH	
C. H2SO4	G. Na2S2O3	
D. NaOH	I. Ice	

T.A.T. Request: Standard (Y) N; RUSH: __24 Hour __48 Hour Date Due:

QA/QC Report Level: None__ 1__ 2 ✓ 3__ Other (ADaPT)

COC OK: (Y) N

Initials: DM

Item	Relinquished by	Affiliation	Date	Time	Received By	Affiliation	Date	Time
All	[signature]	Terracon	10/15/15	1510	[signature]	PBEL	10/15/15	1510

Lab Use Only

	Yes	No	N/A
Sample INTACT upon arrival?	✓		
Received on Wet Ice? Temp 2.9 °C	✓		
Proper Preservatives Indicated?	✓		
Received within holding time?	✓		
Custody seals intact?	✓		
Volatile rec'd without headspace?	✓		
Proper Containers Used?	✓		

1550 Latham Road, Suite 2 • West Palm Beach, FL 33409 • Tel: (561) 689-6701 • Fax: (561) 689-6702

COC# 22131

Appendix D - Field Logs and Well Completion Reports

BORING LOG

Boring/Well Number: SB-31	Permit Number: N/A		FDEP Facility Identification Number: 50/8514018
Site Name: Former Palm Tran Site	Borehole Start Date: 08/11/16 End Date: 08/11/16	Borehole Start Time: 08:50 ☑ AM ☐ PM End Time: 09:00 ☑ AM ☐ PM	
Environmental Contractor: Terracon Consultants, Inc.	Geologist's Name: Andrew Petric, P.G.		Environmental Technician's Name: Randall Murphy
Drilling Company: Wombat Environmental, LLC	Pavement Thickness (inches): 2	Borehole Diameter (inches): 2	Borehole Depth (feet): 8
Drilling Method(s): Direct-Push (DP)	Apparent Borehole DTW (in feet from soil moisture content): 4.5	Measured Well DTW (in feet after water recharges in well): NM	OVA (list model and check type): MiniRae 3000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	<1	1	Asphalt pavement (2-in thick), Tan lime rock base course (0.2-0.8 ft)	GP	D	
DP	1-2		--	--	--	<1	2	Brown fine grained sand (0.8-8 ft)	SP	D	
DP	2-3		--	--	--	<1	3		SP	D	
DP	3-4		--	--	--	<1	4		SP	M/W	
DP	4-6		--	--	--	<1	5		SP	S	
DP							6		SP	S	
DP	6-8		--	--	--	<1	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-32	N/A	50/8514018

Site Name:	Borehole Start Date: 08/11/16	Borehole Start Time: 09:04 ☑ AM ☐ PM
Former Palm Tran Site	End Date: 08/11/16	End Time: 09:07 ☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	4.5	NM	MiniRae 3000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	<1	1	Asphalt pavement (2-in thick), Tan lime rock base course (0.2-0.8 ft)	GP	D	
DP	1-2		--	--	--	<1	2	Brown fine grained sand with brick fragmens, FILL (0.8-3 ft)	SP	D	
DP	2-3		--	--	--	<1	3	Brown fine grained sand (3-8 ft)	SP	D	
DP	3-4		--	--	--	<1	4		SP	M/W	
DP	4-6		--	--	--	<1	5		SP	S	
DP							6		SP	S	
DP	6-8		--	--	--	<1	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number: SB-33	Permit Number: N/A		FDEP Facility Identification Number: 50/8514018
Site Name: Former Palm Tran Site	Borehole Start Date: 08/11/16 End Date: 08/11/16	Borehole Start Time: 09:07 ☑ AM ☐ PM End Time: 09:11 ☑ AM ☐ PM	
Environmental Contractor: Terracon Consultants, Inc.	Geologist's Name: Andrew Petric, P.G.		Environmental Technician's Name: Randall Murphy
Drilling Company: Wombat Environmental, LLC	Pavement Thickness (inches): 2	Borehole Diameter (inches): 2	Borehole Depth (feet): 8
Drilling Method(s): Direct-Push (DP)	Apparent Borehole DTW (in feet from soil moisture content): 4.5	Measured Well DTW (in feet after water recharges in well): NM	OVA (list model and check type): MiniRae 3000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	<1	1	Asphalt pavement (2-in thick), Tan lime rock base course (0.2-1 ft)	GP	D	
DP	1-2		--	--	--	<1	2	Gray fine grained sand (1-3.5 ft)	SP	D	
DP	2-3		--	--	--	<1	3		SP	D	
DP	3-4		--	--	--	<1	4	Brown fine grained sand (3.5-8 ft)	SP	M/W	
DP	4-6		--	--	--	<1	5		SP	S	
DP							6		SP	S	
DP	6-8		--	--	--	<1	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-34	N/A	50/8514018

Site Name:	Borehole Start Date: 08/11/16	Borehole Start Time: 09:12 ☑ AM ☐ PM
Former Palm Tran Site	End Date: 08/11/16	End Time: 09:18 ☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	4.5	NM	MiniRae 3000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	1	1	Black Topsoil (0-0.4 ft), Tan lime rock base course (0.4-1 ft)	SP/GP	D	
DP	1-2		--	--	--	<1	2	Gray to brown fine grained sand (1-8 ft)	SP	D	
DP	2-3		--	--	--	<1	3		SP	D	
DP	3-4		--	--	--	<1	4		SP	M/W	
DP	4-6		--	--	--	<1	5		SP	S	
DP							6		SP	S	
DP	6-8		--	--	--	<1	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-33	N/A	50/8514018

Site Name:	Borehole Start Date: 08/11/16	Borehole Start Time: 09:20 ☑ AM ☐ PM
Former Palm Tran Site	End Date: 08/11/16	End Time: 09:38 ☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	4.5	NM	MiniRae 3000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	<1	1	Concrete pavement (0-0.5 ft), brown fine grained sand (0.5-4 ft)	SP	D	
DP	1-2		--	--	--	<1	2		SP	D	
DP	2-3		--	--	--	1	3		SP	D	
DP	3-4		--	--	--	25	4	Gray fine grained sand (4-8 ft), petroleum odor from 4-6 ft	SP	M/W	SB-35(4') - Lab ID 14692-04
DP	4-6		--	--	--	454	5		SP	S	
DP							6		SP	S	
DP	6-8		--	--	--	82	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-36	N/A	50/8514018

Site Name:	Borehole Start Date: 08/11/16	Borehole Start Time: 09:40 ☑ AM ☐ PM
Former Palm Tran Site	End Date: 08/11/16	End Time: 09:50 ☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	4.5	NM	MiniRae 3000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	<1	1	Very dark brown Topsoil (0-0.5 ft), grayish brown fine grained sand (0.5-8 ft)	SP	D	
DP	1-2		--	--	--	<1	2		SP	D	
DP	2-3		--	--	--	<1	3		SP	D	
DP	3-4		--	--	--	<1	4		SP	M/W	
DP	4-6		--	--	--	<1	5		SP	S	
DP							6		SP	S	
DP	6-8		--	--	--	<1	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number: SB-37	Permit Number: N/A			FDEP Facility Identification Number: 50/8514018
Site Name: Former Palm Tran Site	Borehole Start Date: 08/11/16	End Date: 08/11/16	Borehole Start Time: 09:53 ☑ AM ☐ PM	End Time: 10:00 ☑ AM ☐ PM
Environmental Contractor: Terracon Consultants, Inc.	Geologist's Name: Andrew Petric, P.G.			Environmental Technician's Name: Randall Murphy
Drilling Company: Wombat Environmental, LLC	Pavement Thickness (inches): 2	Borehole Diameter (inches): 2		Borehole Depth (feet): 8
Drilling Method(s): Direct-Push (DP)	Apparent Borehole DTW (in feet from soil moisture content): 4.5	Measured Well DTW (in feet after water recharges in well): NM		OVA (list model and check type): MiniRae 3000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	<1	1	Asphalt pavement (2-in thick), Tan lime rock base course (0.2-1 ft)	GP	D	
DP	1-2		--	--	--	<1	2	Light brown fine grained sand (1-8 ft)	SP	D	
DP	2-3		--	--	--	<1	3		SP	D	
DP	3-4		--	--	--	<1	4		SP	M/W	
DP	4-6		--	--	--	2	5		SP	S	
DP							6		SP	S	
DP	6-8		--	--	--	<1	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-38	N/A	50/8514018

Site Name:	Borehole Start Date: 08/11/16	Borehole Start Time: 10:03 ☑ AM ☐ PM
Former Palm Tran Site	End Date: 08/11/16	End Time: 10:10 ☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	4.5	NM	MiniRae 3000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	<1	1	Asphalt pavement (2-in thick), Tan lime rock base course (0.2-0.9 ft)	GP	D	
DP	1-2		--	--	--	<1	2	Dark brown fine grained sand (0.9-3 ft)	SP	D	
DP	2-3		--	--	--	<1	3	Light brown fine grained sand (3-8 ft)	SP	D	
DP	3-4		--	--	--	<1	4		SP	M/W	
DP	4-6		--	--	--	<1	5		SP	S	
DP							6		SP	S	
DP	6-8		--	--	--	<1	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number: SB-39/MW-1D	Permit Number: N/A	FDEP Facility Identification Number: 50/8514018
Site Name: Former Palm Tran Site	Borehole Start Date: 08/11/16 End Date: 08/11/16	Borehole Start Time: 14:00 ☐ AM ☑ PM End Time: 14:30 ☐ AM ☑ PM
Environmental Contractor: Terracon Consultants, Inc.	Geologist's Name: Andrew Petric, P.G.	Environmental Technician's Name: Randall Murphy

Drilling Company: Wombat Environmental, LLC	Pavement Thickness (inches): 2	Borehole Diameter (inches): 2	Borehole Depth (feet): 30
Drilling Method(s): Direct-Push (DP)	Apparent Borehole DTW (in feet from soil moisture content): 4.5	Measured Well DTW (in feet after water recharges in well): NM	OVA (list model and check type): MiniRae 3000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☑ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☑ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	<1	1	Concrete pavement (0-0.5 ft), Tan lime rock base course (0.5-1 ft)	GP	D	
DP	1-2		--	--	--	<1	2	Brown fine grained sand (1-3 ft)	SP	D	
DP	2-3		--	--	--	<1	3		SP	D	
DP	3-4		--	--	--	<1	4	Light gray fine grained sand (3-10 ft)	SP	M/W	SB-39(3') - Lab ID 14692-03
DP	4-6		--	--	--	<1	5		SP	S	
DP							6		SP	S	
DP	6-8		--	--	--	<1	7		SP	S	
DP							8		SP	S	
DP							9		SP	S	
DP	10-15		--				10		SP	S	
DP							11	Dark gray fine grained sand (10-19 ft)	SP	S	
DP							12		SP	S	

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	FDEP Facility Identification Number:	Site Name:	Borehole Start Date:	08/11/16
SB-39/MW-1D	50/8514018	Former Palm Tran Site	End Date:	08/11/16

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
								Dark gray fine grained sand (10-19 ft)			
DP							13		SP	S	
DP							14		SP	S	
DP	15-20		--				15		SP	S	
DP							16		SP	S	
DP							17		SP	S	
DP							18		SP	S	
DP							19		SP	S	
								Light gray fine grained sand (19-30 ft)			
DP	20-25		--				20		SP	S	
DP							21		SP	S	
DP							22		SP	S	
DP							23		SP	S	
DP							24		SP	S	
DP	25-30		--				25		SP	S	
DP							26		SP	S	
DP							27		SP	S	
DP							28		SP	S	
DP							29		SP	S	
DP							30		SP	S	

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-40	N/A	50/8514018

Site Name:	Borehole Start Date: 08/11/16	Borehole Start Time: 10:14 ☑ AM ☐ PM
Former Palm Tran Site	End Date: 08/11/16	End Time: 10:22 ☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	4.5	NM	MiniRae 3000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	<1	1	Asphalt pavement (2-in thick), Tan lime rock base course (0.2-1.0 ft)	GP	D	
DP	1-2		--	--	--	<1	2	Brown fine grained sand (1-3 ft)	SP	D	
DP	2-3		--	--	--	<1	3	Light brown fine grained sand (3-8 ft)	SP	D	
DP	3-4		--	--	--	<1	4		SP	M/W	
DP	4-6		--	--	--	<1	5		SP	S	
DP							6		SP	S	
DP	6-8		--	--	--	<1	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-41	N/A	50/8514018

Site Name:	Borehole Start Date: 08/11/16	Borehole Start Time: 10:22 ☑ AM ☐ PM
Former Palm Tran Site	End Date: 08/11/16	End Time: 10:30 ☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	4.5	NM	MiniRae 3000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	<1	1	Concrete pavement (0-0.5 ft), Tan lime rock base course (0.5-1.5 ft)	GP	D	
DP	1-2		--	--	--	<1	2	Very light brown fine grained sand (1.5-6 ft)	SP	D	
DP	2-3		--	--	--	<1	3	Very light brown fine grained sand mottled with dark brown fine grained sand (6-8 ft)	SP	D	
DP	3-4		--	--	--	<1	4		SP	M/W	
DP	4-6		--	--	--	<1	5		SP	S	
DP							6		SP	S	
DP	6-8		--	--	--	<1	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-42	N/A	50/8514018

Site Name:	Borehole Start Date: 08/11/16	Borehole Start Time: 10:32 ☑ AM ☐ PM
Former Palm Tran Site	End Date: 08/11/16	End Time: 10:43 ☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	4.5	NM	MiniRae 3000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	<1	1	Concrete pavement (0-0.5 ft), Tan lime rock base course (0.5-1.0 ft)	GP	D	
DP	1-2		--	--	--	<1	2	Brown fine grained sand (1.0-2.5 ft)	SP	D	
DP	2-3		--	--	--	<1	3	Very light brown fine grained sand (2.5-8 ft)	SP	D	SB-39(3') - Lab ID 14692-03
DP	3-4		--	--	--	<1	4		SP	M/W	
DP	4-6		--	--	--	<1	5		SP	S	
DP							6		SP	S	
DP	6-8		--	--	--	<1	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-43	N/A	50/8514018

Site Name:	Borehole Start Date: 08/11/16	Borehole Start Time: 10:47 ☑ AM ☐ PM
Former Palm Tran Site	End Date: 08/11/16	End Time: 10:57 ☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	4.5	NM	MiniRae 3000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	3	1	Concrete pavement (0-0.5 ft), Tan lime rock base course (0.5-1.2 ft)	GP	D	
DP	1-2		--	--	--	<1	2	Tan to brown fine grained sand, FILL (1.2-3 ft)	SP	D	
DP	2-3		--	--	--	<1	3		SP	D	
DP	3-4		--	--	--	<1	4	Very light brown fine grained sand (3-8 ft)	SP	M/W	
DP	4-6		--	--	--	<1	5		SP	S	
DP							6		SP	S	
DP	6-8		--	--	--	<1	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-44	N/A	50/8514018

Site Name:	Borehole Start Date: 08/11/16	Borehole Start Time: 11:03 ☑ AM ☐ PM
Former Palm Tran Site	End Date: 08/11/16	End Time: 11:07 ☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Terracon Consultants, Inc.	Andrew Petric, P.G.	Randall Murphy

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Wombat Environmental, LLC	2	2	8

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct-Push (DP)	4.5	NM	MiniRae 3000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-1		--	--	--	1	1	Very dark brown Topsoil (0-0.5 ft)	SP	D	
DP	1-2		--	--	--	<1	2	Gray fine grained sand with trace gravel (0.5-3.5 ft)	SP	D	
DP	2-3		--	--	--	<1	3		SP	D	
DP	3-4		--	--	--	<1	4	Light brown fine grained sand (3.5-8 ft)	SP	M/W	
DP	4-6		--	--	--	<1	5		SP	S	
DP							6		SP	S	
DP	6-8		--	--	--	<1	7		SP	S	
DP							8		SP	S	
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-1D	Former Palm Tran Facility	50/8514018	8/11/2016

Well Location and Type (check appropriate boxes): ☑ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☐ Above Grade (AG) ☑ Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose: ☐ Perched Monitoring ☐ Shallow (Water-Table) Monitoring ☑ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)

Well Install Method: Direct-Push Tech. (DPT)

Surface Casing Install Method: N/A

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
30	30	3	8	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
1-inch PVC	☑ Flush-Threaded ☐ Other (describe)	25 feet from 0 feet to 25 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
1-inch PVC	0.010-inch	5 feet from 25 feet to 30 feet

1st Surface Casing Material:	1st Surface Casing I.D. (inches):	1st Surface Casing Length:
also check: ☐ Permanent ☐ Temporary		feet from feet to feet

2nd Surface Casing Material:	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length:
also check: ☐ Permanent ☐ Temporary		feet from feet to feet

3rd Surface Casing Material:	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length:
also check: ☐ Permanent ☐ Temporary		feet from feet to feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
Silica sand, 20/30 graded	☐ Yes ☑ No	6 feet from 24 feet to 30 feet

Filter Pack Seal Material and Size:	Filter Pack Seal Length:
Silica sand, 30/65 graded	1 feet from 23 feet to 24 feet

Surface Seal Material:	Surface Seal Length:
Neat cement grout	23 feet from 0 feet to 23 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):
08/11/16	☐ Surge/Pu ☑ Pump ☐ Compressed Air ☐ Other (describe)

Development Pump Type (check): ☐ Centrifugal ☑ Peristaltic ☐ Submersible ☐ Other (describe)

Depth to Groundwater (before developing in feet): Not Measured

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
0.13	Not Measured	☐ Yes ☑ No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
☑ Continuous ☐ Intermittent	5.2	40	☐ Yes ☑ No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
Brown, cloudy with petroleum odor	Clear with petroleum odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-6	Former Palm Tran Facility	50/8514018	8/11/2015

Well Location and Type (check appropriate boxes):
- [x] On-Site
- [ ] Right-of-Way
- [ ] Off-Site Private Property
- [ ] Above Grade (AG)
- [x] Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose:
- [ ] Perched Monitoring
- [x] Shallow (Water-Table) Monitoring
- [ ] Intermediate or Deep Monitoring
- [ ] Remediation or Other (describe)

Well Install Method: Direct-Push Tech. (DPT)

Surface Casing Install Method: N/A

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
13	13	3	8	2 feet by 2 feet

Riser Diameter and Material: 1-inch PVC

Riser/Screen Connections:
- [x] Flush-Threaded
- [ ] Other (describe)

Riser Length: 3 feet from 0 feet to 3 feet

Screen Diameter and Material: 1-inch PVC

Screen Slot Size: 0.010-inch

Screen Length: 10 feet from 3 feet to 13 feet

1st Surface Casing Material:
also check: [ ] Permanent [ ] Temporary

1st Surface Casing I.D. (inches):

1st Surface Casing Length: ____ feet from ____ feet to ____ feet

2nd Surface Casing Material:
also check: [ ] Permanent [ ] Temporary

2nd Surface Casing I.D. (inches):

2nd Surface Casing Length: ____ feet from ____ feet to ____ feet

3rd Surface Casing Material:
also check: [ ] Permanent [ ] Temporary

3rd Surface Casing I.D. (inches):

3rd Surface Casing Length: ____ feet from ____ feet to ____ feet

Filter Pack Material and Size: Silica sand, 20/30 graded

Prepacked Filter Around Screen (check one):
- [ ] Yes
- [x] No

Filter Pack Length: 11 feet from 2 feet to 13 feet

Filter Pack Seal Material and Size: Silica sand, 30/65 graded

Filter Pack Seal Length: 1 feet from 1 feet to 2 feet

Surface Seal Material: Neat cement grout

Surface Seal Length: 1 feet from 0 feet to 1 feet

WELL DEVELOPMENT DATA

Well Development Date: 08/11/16

Well Development Method (check one):
- [ ] Surge/Pu
- [x] Pump
- [ ] Compressed Air
- [ ] Other (describe)

Development Pump Type (check):
- [ ] Centrifugal
- [x] Peristaltic
- [ ] Submersible
- [ ] Other (describe)

Depth to Groundwater (before developing in feet): Not Measured

Pumping Rate (gallons per minute): 0.25

Maximum Drawdown of Groundwater During Development (feet): Not Measured

Well Purged Dry (check one):
- [ ] Yes
- [x] No

Pumping Condition (check one):
- [x] Continuous
- [ ] Intermittent

Total Development Water Removed (gallons): 7.0

Development Duration (minutes): 28

Development Water Drummed (check one):
- [ ] Yes
- [x] No

Water Appearance (color and odor) At Start of Development: Brown, cloudy

Water Appearance (color and odor) At End of Development: Clear

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-7	Former Palm Tran Facility	50/8514018	8/11/2015

Well Location and Type (check appropriate boxes):
- [x] On-Site
- [ ] Right-of-Way
- [ ] Off-Site Private Property
- [ ] Above Grade (AG)
- [x] Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose:
- [ ] Perched Monitoring
- [x] Shallow (Water-Table) Monitoring
- [ ] Intermediate or Deep Monitoring
- [x] Remediation or Other (describe)

Well Install Method: Direct-Push Tech. (DPT)

Surface Casing Install Method: N/A

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
13	13	3	8	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
1-inch PVC	[x] Flush-Threaded [ ] Other (describe)	3 feet from 0 feet to 3 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
1-inch PVC	0.010-inch	10 feet from 3 feet to 13 feet

1st Surface Casing Material:	1st Surface Casing I.D. (inches):	1st Surface Casing Length:
also check: [ ] Permanent [ ] Temporary		feet from feet to feet

2nd Surface Casing Material:	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length:
also check: [ ] Permanent [x] Temporary		feet from feet to feet

3rd Surface Casing Material:	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length:
also check: [ ] Permanent [ ] Temporary		feet from feet to feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
Silica sand, 20/30 graded	[ ] Yes [x] No	11 feet from 2 feet to 13 feet

Filter Pack Seal Material and Size:	Filter Pack Seal Length:
Silica sand, 30/65 graded	1 feet from 1 feet to 2 feet

Surface Seal Material:	Surface Seal Length:
Neat cement grout	1 feet from 0 feet to 1 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):
08/11/16	[ ] Surge/Pu [x] Pump [ ] Compressed Air [ ] Other (describe)

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
[ ] Centrifugal [x] Peristaltic [ ] Submersible [ ] Other (describe)	Not Measured

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
0.25	Not Measured	[ ] Yes [x] No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
[x] Continuous [ ] Intermittent	7.5	30	[ ] Yes [x] No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
Brown, cloudy	Clear

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-8	Former Palm Tran Facility	50/8514018	8/11/2015

Well Location and Type (check appropriate boxes):
- [x] On-Site
- [ ] Right-of-Way
- [ ] Off-Site Private Property
- [ ] Above Grade (AG)
- [x] Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose:
- [ ] Perched Monitoring
- [x] Shallow (Water-Table) Monitoring
- [ ] Intermediate or Deep Monitoring
- [x] Remediation or Other (describe)

Well Install Method: Direct-Push Tech. (DPT)

Surface Casing Install Method: N/A

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
13	13	3	8	2 feet by 2 feet

Riser Diameter and Material: 1-inch PVC

Riser/Screen Connections:
- [x] Flush-Threaded
- [ ] Other (describe)

Riser Length: 3 feet from 0 feet to 3 feet

Screen Diameter and Material: 1-inch PVC

Screen Slot Size: 0.010-inch

Screen Length: 10 feet from 3 feet to 13 feet

1st Surface Casing Material:
also check: [ ] Permanent [ ] Temporary

1st Surface Casing I.D. (inches):

1st Surface Casing Length: ____ feet from ____ feet to ____ feet

2nd Surface Casing Material:
also check: [ ] Permanent [x] Temporary

2nd Surface Casing I.D. (inches):

2nd Surface Casing Length: ____ feet from ____ feet to ____ feet

3rd Surface Casing Material:
also check: [ ] Permanent [ ] Temporary

3rd Surface Casing I.D. (inches):

3rd Surface Casing Length: ____ feet from ____ feet to ____ feet

Filter Pack Material and Size: Silica sand, 20/30 graded

Prepacked Filter Around Screen (check one):
- [ ] Yes
- [x] No

Filter Pack Length: 11 feet from 2 feet to 13 feet

Filter Pack Seal Material and Size: Silica sand, 30/65 graded

Filter Pack Seal Length: 1 feet from 1 feet to 2 feet

Surface Seal Material: Neat cement grout

Surface Seal Length: 1 feet from 0 feet to 1 feet

WELL DEVELOPMENT DATA

Well Development Date: 08/11/16

Well Development Method (check one):
- [ ] Surge/Pu
- [x] Pump
- [ ] Compressed Air
- [ ] Other (describe)

Development Pump Type (check):
- [ ] Centrifugal
- [x] Peristaltic
- [ ] Submersible
- [ ] Other (describe)

Depth to Groundwater (before developing in feet): Not Measured

Pumping Rate (gallons per minute): 0.15

Maximum Drawdown of Groundwater During Development (feet): Not Measured

Well Purged Dry (check one):
- [ ] Yes
- [x] No

Pumping Condition (check one):
- [x] Continuous
- [ ] Intermittent

Total Development Water Removed (gallons): 3.8

Development Duration (minutes): 25

Development Water Drummed (check one):
- [ ] Yes
- [x] No

Water Appearance (color and odor) At Start of Development: Brown, cloudy

Water Appearance (color and odor) At End of Development: Clear

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

6674-16

PLEASE EMAIL PERMIT

A Petric

STATE OF FLORIDA PERMIT APPLICATION TO CONSTRUCT, REPAIR, MODIFY, OR ABANDON A WELL

☐ Southwest
☐ Northwest
☐ St. Johns River
☐ South Florida
☐ Suwannee River
☐ DEP
☐ Delegated Authority (If Applicable) ____________

PLEASE FILL OUT ALL APPLICABLE FIELDS
(Denotes Required Fields Where Applicable)

The water well contractor is responsible for completing this form and forwarding the permit application to the appropriate delegated authority where applicable.

Permit No. ____________
Florida Unique ID ____________
Permit Stipulations Required (See Attached)
62-524 Quad No. ______ Delineation No. ______
CUP/WUP Application No. ____________
ABOVE THIS LINE FOR OFFICIAL USE ONLY

1. Palm Beach County — 2633 Vista Parkway — West Palm Beach, FL 33411 — 561-233-0252
Owner, Legal Name if Corporation / Address / City / State / ZIP / Telephone Number
2. Former Palm Tran Facility — Palm Beach Int'll Airport Building S-1440
Well Location - Address, Road Name or Number, City
3. 00-43-43-32-00-000-1090 — Lot ____ Block ____ Unit ____
Parcel ID No. (PIN) or Alternate Key (Circle One)
4. 32 — 43 — 43 — Palm Beach — ____ — Check if 62-524: ___ Yes ___ No
Section or Land Grant / Township / Range / County / Subdivision
5. Paul Poorbaugh — 11193 — 772-215-3395 — wombatenv@yahoo.com
Water Well Contractor / License Number / Telephone Number / E-mail Address
6. 1025 SE Salerno Road — Stuart — FL — 34997
Water Well Contractor's Address / City / State / ZIP

7. Type of Work: XXX Construction ___ Repair ___ Modification ___ Abandonment ____________
Reason for Repair, Modification, or Abandonment
8. Number of Proposed Wells 3
9. Specify Intended Use(s) of Well(s):

___ Domestic
___ Bottled Water Supply
___ Landscape Irrigation
___ Recreation Area Irrigation
___ Agricultural Irrigation
___ Livestock
___ Nursery Irrigation
___ Commercial/Industrial
___ Golf Course Irrigation
___ Site Investigation
XXX Monitoring
___ Test
___ Earth-Coupled Geothermal
___ HVAC Supply
___ HVAC Return
___ Public Water Supply (Limited Use/DOH)
___ Public Water Supply (Community or Non-Community/DEP)
___ Class I Injection

Class V Injection: ___ Recharge ___ Commercial/Industrial Disposal ___ Aquifer Storage and Recovery ___ Drainage

Remediation: ___ Recovery ___ Air Sparge ___ Other (Describe) ____________

___ Other (Describe) ____________ (Note: Not all types of wells are permitted by a given permitting authority)

Date Stamp

Official Use Only

10. Distance from Septic System if < 200 ft. >200   11. Facility Description Former Tran   12. Estimated Start Date 8-11-16
13. Estimated Well Depth 13 ft Estimated Casing Depth 3 ft. Primary Casing Diameter 1 in. Open Hole: From 0 To 1 ft.
14. Estimated Screen Interval: From 3 To 13 ft.
15. Primary Casing Material: ___ Black Steel ___ Galvanized XXX PVC ___ Stainless Steel ___ Not Cased ___ Other: ______
16. Secondary Casing: ___ Telescope Casing ___ Liner ___ Surface Casing Diameter ___ in.
17. Secondary Casing Material: ___ Black Steel ___ Galvanized ___ PVC ___ Stainless Steel ___ Other ______
18. Method of Construction, Repair, or Abandonment: ___ Auger ___ Cable Tool ___ Jetted ___ Rotary ___ Sonic
___ Combination (Two or More Methods) ___ Hand Driven (Well Point, Sand Point) XXX Hydraulic Point (Direct Push)
___ Horizontal Drilling ___ Plugged by Approved Method ___ Other (Describe) ______
19. Proposed Grouting Interval for the Primary, Secondary, and Additional Casing:
From 0 To 1 Seal Material (___ Bentonite XXX Neat Cement ___ Other ______)
From ___ To ___ Seal Material (___ Bentonite ___ Neat Cement ___ Other ______)
From 1 To 13 Seal Material (___ Bentonite ___ Neat Cement xx Other sand)
From ___ To ___ Seal Material (___ Bentonite ___ Neat Cement ___ Other ______)
20. Indicate total number of existing wells on site unknown   List number of existing unused wells on site unknown
21. Is this well or any existing well or water withdrawal on the owner's contiguous property covered under a Consumptive/Water Use Permit (CUP/WUP) or CUP/WUP Application? ___ Yes XXX No If yes, complete the following: CUP/WUP No. ______ District Well ID No. ______
22. Latitude 26° 41.303'N   Longitude 80° 4.658'W
23. Data Obtained From: XX GPS ___ Map ___ Survey   Datum: ___ NAD 27 XX NAD 83 ___ WGS 84

I hereby certify that I will comply with the applicable rules of Title 40, Florida Administrative Code, and that a water use permit or artificial recharge permit, if needed, has been or will be obtained prior to commencement of well construction. I further certify that all information provided in this application is accurate and that I will obtain necessary approval from other federal, state, or local governments, if applicable. I agree to provide a well completion report to the District within 30 days after completion of the construction, repair, modification, or abandonment authorized by this permit, or the permit expiration, whichever occurs first.

I certify that I am the owner of the property, that the information provided is accurate, and that I am aware of my responsibilities under Chapter 373, Florida Statutes, to maintain or properly abandon this well; or, I certify that I am the agent for the owner, that the information provided is accurate, and that I have informed the owner of his responsibilities as stated above. Owner consents to allowing personnel of this WMD or Delegated Authority access to the well site during the construction, repair, modification, or abandonment authorized by this permit.

Paul Poorbaugh — 11193 — [signature] — 8-3-16
Signature of Contractor / License No. / Signature of Owner or Agent / Date

DO NOT WRITE BELOW THIS LINE - FOR OFFICIAL USE ONLY

Approval Granted By [signature] Issue Date 8-5-16 Expiration Date ______ Hydrologist Approval [initials] Initials
Fee Received $ 60 Receipt No. 3187425 Check No. 9402

THIS PERMIT IS NOT VALID UNTIL PROPERLY SIGNED BY AN AUTHORIZED OFFICER OR REPRESENTATIVE OF THE WMD OR DELEGATED AUTHORITY. THE PERMIT SHALL BE AVAILABLE AT THE WELL SITE DURING ALL CONSTRUCTION, REPAIR, MODIFICATION, OR ABANDONMENT ACTIVITIES.

RECEIVED
AUG 04 2016
Department of Health - PBC
Plan Review

PLEASE EMAIL PERMIT

6673-16

STATE OF FLORIDA PERMIT APPLICATION TO CONSTRUCT, REPAIR, MODIFY, OR ABANDON A WELL

☐ Southwest
☐ Northwest
☐ St. Johns River
☐ South Florida
☐ Suwannee River
☐ DEP
☐ Delegated Authority (If Applicable) _____

PLEASE FILL OUT ALL APPLICABLE FIELDS
(Denotes Required Fields Where Applicable)

The water well contractor is responsible for completing this form and forwarding the permit application to the appropriate delegated authority where applicable.

Permit No. _____
Florida Unique ID _____
Permit Stipulations Required (See Attached)
62-524 Quad No. _____ Delineation No. _____
CUP/WUP Application No. _____
ABOVE THIS LINE FOR OFFICIAL USE ONLY

A Petric

PBI Tran

1. Palm Beach County | 2633 Vista Parkway | West Palm Beach, FL 33411 | 561-233-0252
Owner, Legal Name if Corporation | Address | City | State ZIP | Telephone Number

2. Former Palm Tran Facility | Palm Beach Int'll Airport Building S-1440
Well Location - Address, Road Name or Number, City

3. 00-43-43-32-00-000-1090 | Lot | Block | Unit
Parcel ID No. (PIN) or Alternate Key (Circle One)

4. 32 | 43 | 43 | Palm Beach | Subdivision | Check if 62-524: ___ Yes ___ No
Section or Land Grant | Township | Range | County

5. Paul Poorbaugh | 11193 | 772-215-3395 | wombatenv@yahoo.com
Water Well Contractor | License Number | Telephone Number | E-mail Address

6. 1025 SE Salerno Road | Stuart | FL | 34997
Water Well Contractor's Address | City | State | ZIP

7. Type of Work: XXX Construction ___ Repair ___ Modification ___ Abandonment _____
Reason for Repair, Modification, or Abandonment

8. *Number of Proposed Wells* 1

9. Specify Intended Use(s) of Well(s):

___ Domestic
___ Bottled Water Supply
___ Public Water Supply (Limited Use/DOH)
___ Public Water Supply (Community or Non-Community/DEP)
___ Class I Injection
Class V Injection: ___ Recharge ___ Commercial/Industrial Disposal ___ Aquifer Storage and Recovery ___ Drainage
___ Landscape Irrigation
___ Recreation Area Irrigation
___ Agricultural Irrigation
___ Livestock
___ Nursery Irrigation
___ Commercial/Industrial
___ Golf Course Irrigation
___ Site Investigation
XXX Monitoring
___ Test
___ Earth-Coupled Geothermal
___ HVAC Supply
___ HVAC Return
Remediation: ___ Recovery ___ Air Sparge ___ Other (Describe) _____
___ Other (Describe) _____ (Note: Not all types of wells are permitted by a given permitting authority)

Date Stamp
Official Use Only

10. Distance from Septic System if < 200 ft. >200 | 11. Facility Description Former Tran | 12. Estimated Start Date 8-11-16

13. Estimated Well Depth 30 ft. Estimated Casing Depth 10 ft. Primary Casing Diameter 1 in. Open Hole: From 0 To 1 ft.

14. Estimated Screen Interval: From 20 To 30 ft.

15. Primary Casing Material: ___ Black Steel ___ Galvanized XXX PVC ___ Stainless Steel
___ Not Cased ___ Other: _____

16. Secondary Casing: ___ Telescope Casing ___ Liner ___ Surface Casing Diameter ___ in.

17. Secondary Casing Material: ___ Black Steel ___ Galvanized ___ PVC ___ Stainless Steel ___ Other _____

18. Method of Construction, Repair, or Abandonment: ___ Auger ___ Cable Tool ___ Jetted ___ Rotary ___ Sonic
___ Combination (Two or More Methods) ___ Hand Driven (Well Point, Sand Point) XXX Hydraulic Point (Direct Push)
___ Horizontal Drilling ___ Plugged by Approved Method ___ Other (Describe) _____

19. Proposed Grouting Interval for the Primary, Secondary, and Additional Casing:
From 0 To 1 Seal Material (___ Bentonite XXX Neat Cement ___ Other _____)
From ___ To ___ Seal Material (___ Bentonite ___ Neat Cement ___ Other _____)
From 1 To 30 Seal Material (___ Bentonite ___ Neat Cement XX Other sand)
From ___ To ___ Seal Material (___ Bentonite ___ Neat Cement ___ Other _____)

20. Indicate total number of existing wells on site unknown | List number of existing unused wells on site unknown

21. Is this well or any existing well or water withdrawal on the owner's contiguous property covered under a Consumptive/Water Use Permit (CUP/WUP) or CUP/WUP Application? ___ Yes XXX No If yes, complete the following: CUP/WUP No. _____ District Well ID No. _____

22. Latitude 26° 41.303'N | Longitude 80° 4.658'W

23. Data Obtained From: XX GPS ___ Map ___ Survey | Datum: ___ NAD 27 XX NAD 83 ___ WGS 84

RECEIVED
AUG 04 2016
Palm Beach County Department of Health - PBC
Plan Review

I hereby certify that I will comply with the applicable rules of Title 40, Florida Administrative Code, and that a water use permit or variance therefor, if needed, has been or will be obtained prior to commencement of well construction. I further certify that all information provided in this application is accurate and that I will obtain all necessary approval from other federal, state, or local governments, if applicable. I agree to provide a copy of this completed form to the District within 30 days after completion of the construction, repair, modification, or abandonment authorized by this permit, or the permit expiration, whichever occurs first.

Paul Poorbaugh | 11193
Signature of Contractor | License No.

I certify that I am the owner of the property, that the information provided is accurate, and that I am aware of my responsibilities under Chapter 373, Florida Statutes, to maintain or properly abandon this well, or, I certify that I am the agent for the owner, that the information provided is accurate, and that I have informed the owner of his responsibilities as stated above. Owner consents to allowing personnel of the WMD or Delegated Authority access to the well site during the construction, repair, modification, or abandonment authorized by this permit.

Paul Poorbaugh | 8-3-16
Signature of Owner or Agent | Date

DO NOT WRITE BELOW THIS LINE - FOR OFFICIAL USE ONLY

Approval Granted By Jay Hall | Issue Date 8-5-16 | Expiration Date _____ | Hydrologist Approval [illegible] Initials

Fee Received $ 50 | Receipt No. 318740B | Check No. V 9402

THIS PERMIT IS NOT VALID UNTIL PROPERLY SIGNED BY AN AUTHORIZED OFFICER OR REPRESENTATIVE OF THE WMD OR DELEGATED AUTHORITY. THE PERMIT SHALL BE AVAILABLE AT THE WELL SITE DURING ALL CONSTRUCTION, REPAIR, MODIFICATION, OR ABANDONMENT ACTIVITIES.

DEP Form: 62-532.900(1) Incorporated in 62-532.400(1), F.A.C. Effective Date: _____

STATE OF FLORIDA WELL COMPLETION REPORT

☐ Southwest
☐ Northwest
☐ St. Johns River
☐ South Florida
☐ Suwannee River
☐ DEP
☐ Delegated Authority (If Applicable) _____

PLEASE, FILL OUT ALL APPLICABLE FIELDS
(*Denotes Required Fields Where Applicable)

Date Stamp

Official Use Only

A Petric
PB1

1. *Permit Number 6673-16 *CUP/WUP Number _____ *DID Number _____ 62-524 Delineation No. _____
2. *Number of permitted wells constructed, repaired, or abandoned 1 *Number of permitted wells not constructed, repaired, or abandoned 0
3. *Owner's Name Palm Beach County 4. *Completion Date 8-11-16 5. Florida Unique ID _____
6. Former Palm Tran PBI Airport Building S-1440
*Well Location - Address, Road Name or Number, City, ZIP
7. *County Palm Beach *Section 32 Land Grant _____ *Township 43 *Range 43
8. Latitude 26° 41.303N Longitude 80° 4.658W
9. Data Obtained From: X GPS ____ Map ____ Survey Datum: ____ NAD 27 X NAD 83 ____ WGS 84

10. *Type of Work: X Construction ____ Repair ____ Modification ____ Abandonment
11. *Specify Intended Use(s) of Well(s):
____ Domestic
____ Bottled Water Supply
____ Public Water Supply (Limited Use/DOH)
____ Public Water Supply (Community or Non-Community/DEP)
____ Class I Injection
____ Landscape Irrigation
____ Recreation Area Irrigation
____ Agricultural Irrigation
____ Livestock
____ Nursery Irrigation
____ Commercial/Industrial
____ Golf Course Irrigation
XX Site Investigation
____ Monitoring
____ Test
____ Earth-Coupled Geothermal
____ HVAC Supply
____ HVAC Return
Class V Injection: ____ Recharge ____ Commercial/Industrial Disposal ____ Aquifer Storage and Recovery ____ Drainage
Remediation: ____ Recovery ____ Air Sparge ____ Other (Describe) _____
____ Other (Describe) _____

12. *Drill Method: ____ Auger ____ Cable Tool ____ Rotary ____ Combination (Two or More Methods) ____ Jetted ____ Sonic
____ Horizontal Drilling X Hydraulic Point (Direct Push) ____ Other _____
13. *Measured Static Water Level _____ ft. Measured Pumping Water Level _____ ft. After _____ Hours at _____ GPM
14. *Measuring Point (Describe) _____ Which is _____ ft. _____ Above _____ Below Land Surface *Flowing: ____ Yes ____ No
15. *Casing Material: ____ Black Steel ____ Galvanized X PVC ____ Stainless Steel ____ Not Cased ____ Other _____
16. *Total Well Depth 30 ft. Cased Depth 10 ft. *Open Hole: From 0 To 1 ft. *Screen: From 20 To 30 ft. Slot Size _____

17. *Abandonment: ____ Other (Explain) _____
From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____ Neat Cement ____ Bentonite ____ Other ____
From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____ Neat Cement ____ Bentonite ____ Other ____
From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____ Neat Cement ____ Bentonite ____ Other ____
From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____ Neat Cement ____ Bentonite ____ Other ____
From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____ Neat Cement ____ Bentonite ____ Other ____

18. *Surface Casing Diameter and Depth:
Dia ____ in. From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____ Neat Cement ____ Bentonite ____ Other ____
Dia ____ in. From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____ Neat Cement ____ Bentonite ____ Other ____

19. *Primary Casing Diameter and Depth:
Dia 1 in. From 0 ft. To 1 ft. No. of Bags .5 Seal Material (Check One): X Neat Cement ____ Bentonite ____ Other ____
Dia 1 in. From 1 ft. To 30 ft. No. of Bags 2 Seal Material (Check One): ____ Neat Cement ____ Bentonite X Other Sand
Dia ____ in. From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____ Neat Cement ____ Bentonite ____ Other ____
Dia ____ in. From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____ Neat Cement ____ Bentonite ____ Other ____
Dia ____ in. From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____ Neat Cement ____ Bentonite ____ Other ____

20. *Liner Casing Diameter and Depth:
Dia ____ in. From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____ Neat Cement ____ Bentonite ____ Other ____
Dia ____ in. From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____ Neat Cement ____ Bentonite ____ Other ____
Dia ____ in. From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____ Neat Cement ____ Bentonite ____ Other ____

21. *Telescope Casing Diameter and Depth:
Dia ____ in. From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____ Neat Cement ____ Bentonite ____ Other ____
Dia ____ in. From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____ Neat Cement ____ Bentonite ____ Other ____
Dia ____ in. From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____ Neat Cement ____ Bentonite ____ Other ____

22. Pump Type (If Known):
____ Centrifugal ____ Jet ____ Submersible ____ Turbine
Horsepower _____ Pump Capacity (GPM) _____
Pump Depth _____ ft. Intake Depth _____ ft.

23. Chemical Analysis (When Required):
Iron _____ ppm Sulfate _____ ppm Chloride _____ ppm
____ Laboratory Test ____ Field Test Kit

24. Water Well Contractor:
*Contractor Name Paul A Poorbaugh *License Number 11193 E-mail Address wombatenv@yahoo.com
*Contractor's Signature Paul Poorbaugh (I certify that the information provided in this report is accurate and true.) *Driller's Name (Print or Type) Paul Poorbaugh

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
2379 BROAD STREET, BROOKSVILLE, FL 34604-6899
PHONE: (352) 796-7211 or (800) 423-1476
WWW.SWFWMD.STATE.FL.US

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
4049 REID STREET, PALATKA, FL 32178-1429
PHONE: (386) 329-4500
WWW.SJRWMD.COM

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT
152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712
(U.S. Highway 90, 10 miles west of Tallahassee)
PHONE: (850) 539-5999
WWW.NWFWMD.STATE.FL.US

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
P.O. BOX 24680
3301 GUN CLUB ROAD
WEST PALM BEACH, FL 33416-4680
PHONE: (561) 686-8800
WWW.SFWMD.GOV

SUWANNEE RIVER WATER MANAGEMENT DISTRICT
9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
WWW.MYSUWANNEERIVER.COM

*DRILL CUTTINGS LOG (Examine cuttings every 20 ft. or at formation changes. Note cavities and depth to producing zone. Grain Size: F=Fine, M=Medium, and C=Coarse)

From (ft.)	To (ft.)	Color	Grain Size (F, M, C)	Material

Comments:

*Detailed Site Map of Well Location

N

See attached.

Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources within 500 ft. of well.

A Petric
PB1

STATE OF FLORIDA WELL COMPLETION REPORT

☐ Southwest
☐ Northwest
☐ St. Johns River
☐ South Florida
☐ Suwannee River
☐ DEP
☐ Delegated Authority (If Applicable) _____

PLEASE, FILL OUT ALL APPLICABLE FIELDS
(*Denotes Required Fields Where Applicable)

Date Stamp

Official Use Only

1.*Permit Number 6674-16 *CUP/WUP Number _____ *DID Number _____ 62-524 Delineation No. _____

2.*Number of permitted wells constructed, repaired, or abandoned 3 *Number of permitted wells not constructed, repaired, or abandoned 0

3.*Owner's Name Palm Beach County 4.*Completion Date 8-11-16 5. Florida Unique ID _____

6. Former Palm Tran PBI Airport Bldg S-1440
*Well Location - Address, Road Name or Number, City, ZIP

7.*County Palm Beach *Section 32 Land Grant _____ *Township 43 *Range 43

8. Latitude 26° 41.303N Longitude 80° 4.658W

9. Data Obtained From: X GPS ____Map ____Survey Datum: ____NAD 27 X NAD 83 ____WGS 84

10.*Type of Work: X Construction ____Repair ____Modification ____Abandonment

11.*Specify Intended Use(s) of Well(s):

____Domestic
____Bottled Water Supply
____Public Water Supply (Limited Use/DOH)
____Public Water Supply (Community or Non-Community/DEP)
____Class I Injection
____Landscape Irrigation
____Recreation Area Irrigation
____Agricultural Irrigation
____Livestock
____Nursery Irrigation
____Commercial/Industrial
____Golf Course Irrigation
____Site Investigation
X Monitoring
____Test
____Earth-Coupled Geothermal
____HVAC Supply
____HVAC Return

Class V Injection: ____Recharge ____Commercial/Industrial Disposal ____Aquifer Storage and Recovery ____Drainage

Remediation: ____Recovery ____Air Sparge ____Other (Describe) _____

____Other (Describe) _____

12.*Drill Method: ____Auger ____Cable Tool ____Rotary ____Combination (Two or More Methods) ____Jetted ____Sonic
____Horizontal Drilling X Hydraulic Point (Direct Push) ____Other _____

13.*Measured Static Water Level _____ ft. Measured Pumping Water Level _____ ft. After _____ Hours at _____ GPM

14.*Measuring Point (Describe) _____ Which is ____ft. ____Above ____Below Land Surface *Flowing: ____Yes ____No

15.*Casing Material: ____Black Steel ____Galvanized X PVC ____Stainless Steel ____Not Cased ____Other _____

16.*Total Well Depth 13 ft. Cased Depth 3 ft. *Open Hole: From 0 To 1 ft. *Screen: From 3 To 13 ft. Slot Size _____

17.*Abandonment: ____Other (Explain) _____

From____ft. To____ft. No. of Bags____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other____
From____ft. To____ft. No. of Bags____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other____
From____ft. To____ft. No. of Bags____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other____
From____ft. To____ft. No. of Bags____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other____
From____ft. To____ft. No. of Bags____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other____

18.*Surface Casing Diameter and Depth:

Dia____in. From____ft. To____ft. No. of Bags____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other____
Dia____in. From____ft. To____ft. No. of Bags____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other____

19.*Primary Casing Diameter and Depth:

Dia 1 in. From 0 ft. To 1 ft. No. of Bags .5 Seal Material (Check One): X Neat Cement ____Bentonite ____Other____
Dia____in. From 1 ft. To 13 ft. No. of Bags____ Seal Material (Check One): ____Neat Cement ____Bentonite X Other Sand
Dia____in. From____ft. To____ft. No. of Bags____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other____
Dia____in. From____ft. To____ft. No. of Bags____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other____
Dia____in. From____ft. To____ft. No. of Bags____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other____

20.*Liner Casing Diameter and Depth:

Dia____in. From____ft. To____ft. No. of Bags____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other____
Dia____in. From____ft. To____ft. No. of Bags____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other____
Dia____in. From____ft. To____ft. No. of Bags____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other____

21.*Telescope Casing Diameter and Depth:

Dia____in. From____ft. To____ft. No. of Bags____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other____
Dia____in. From____ft. To____ft. No. of Bags____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other____
Dia____in. From____ft. To____ft. No. of Bags____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other____

22. Pump Type (If Known):
____Centrifugal ____Jet ____Submersible ____Turbine
Horsepower _____ Pump Capacity (GPM) _____
Pump Depth _____ft. Intake Depth _____ft.

23. Chemical Analysis (When Required):
Iron _____ppm Sulfate _____ppm Chloride _____ppm
_____Laboratory Test _____Field Test Kit

24. Water Well Contractor:

*Contractor Name Paul A Poorbaugh *License Number 11193 E-mail Address wombatenv@yahoo.com

*Contractor's Signature Paul Poorbaugh (I certify that the information provided in this report is accurate and true.) *Driller's Name (Print or Type) Paul Poorbaugh

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
2379 BROAD STREET, BROOKSVILLE, FL 34604-6899
PHONE: (352) 796-7211 or (800) 423-1476
WWW.SWFWMD.STATE.FL.US

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
4049 REID STREET, PALATKA, FL 32178-1429
PHONE: (386) 329-4500
WWW.SJRWMD.COM

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT
152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712
(U.S. Highway 90, 10 miles west of Tallahassee)
PHONE: (850) 539-5999
WWW.NWFWMD.STATE.FL.US

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
P.O. BOX 24680
3301 GUN CLUB ROAD
WEST PALM BEACH, FL 33416-4680
PHONE: (561) 686-8800
WWW.SFWMD.GOV

SUWANNEE RIVER WATER MANAGEMENT DISTRICT
9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
WWW.MYSUWANNEERIVER.COM

*DRILL CUTTINGS LOG (Examine cuttings every 20 ft. or at formation changes. Note cavities and depth to producing zone. Grain Size: F=Fine, M=Medium, and C=Coarse)

From ft.	To ft.	Color	Grain Size (F, M, C)	Material

Comments:

*Detailed Site Map of Well Location

N

See attached.

Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources within 500 ft. of well.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: PALMETTO	SITE LOCATION: PB1 A WEST PALM BEACH, FL	
WELL NO: GP-2	SAMPLE ID: GP 2	DATE:

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 5 feet to 9 feet	STATIC DEPTH TO WATER (feet): 4.56	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (9 feet – 4.56 feet) X 0.04 gallons/foot = 0.17 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6.56	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6.56	PURGING INITIATED AT: 1130	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1230	7.80	7.80	0.13	4.56	6.65	33.59	591	0.69	2	CLEAR	NONE
1235	0.65	8.45	0.13	4.56	6.65	33.57	591	0.64	3	CLEAR	NONE
1237	0.26	8.71	0.13	4.56	6.65	33.53	593	0.57	2	CLEAR	NONE

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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Randall Murphy / Terracon	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1237	SAMPLING ENDED AT: 1245
PUMP OR TUBING DEPTH IN WELL (feet): 6.56	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
GP-2	2	CG	40 mL	—	—	—	8260	PP	100
GP-2	1	AG	1 L	HCL	—	—	FLPRO	PP	250
GP-2	1	AG	1 L	—	—	—	8270	PP	250

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do 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, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Palm Tran	SITE LOCATION: PBIA	West Palm Beach, FL
WELL NO: GP-1	SAMPLE ID: GP-1	DATE: 8/11/16

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 5 feet to 9 feet	STATIC DEPTH TO WATER (feet): 4.56	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (9 feet – 4.56 feet) X 0.04 gallons/foot = 0.17 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6.56	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6.56	PURGING INITIATED AT: 1130	PURGING ENDED AT: 1207	TOTAL VOLUME PURGED (gallons): 4.81

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1200	3.90	3.90	0.13	4.56	6.34	33.31	1020	0.80	5	CLEAR	NONE
1205	0.65	4.55	0.13	4.56	6.34	33.26	1021	1.05	3	CLEAR	NONE
1207	0.26	4.81	0.13	4.56	6.35	33.23	1021	1.44	3	CLEAR	NONE

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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Randall Murphy / Terracon	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1207	SAMPLING ENDED AT: 1220
PUMP OR TUBING DEPTH IN WELL (feet): 6.56	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
GP-1	2	CG	40mL	—	—	—	8260	PP	100
GP-1	1	AG	1L	HCL	—	—	TRPH	PP	250
GP-1	1	AG	1L	—	—	—	8270	PP	250

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do 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, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Boldly "X" this box if there is qualified data on this page.

Form FD9000-8 **CALIBRATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)** 11-10-05

Project/Site: PALMTRAN Date: 8/11/16 Meter # 1641D01110

Temperature (Quarterly) *For Date of Last Temperature Verification see _____ in log book*

Dissolved Oxygen	**DEP SOP FT 1500**	Initials	Date	Time	Probe Charge	Probe Gain	mg/L	Temp °c	% DO	Saturation mg/L (from chart)	Pass or Fail
											Acceptance Criteria: +/- 0.3mg/l
(CAL) (ICV) CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F

Specific Conductance	**DEP SOP FT 1200**	Initials	Date	Time	Standard µmhos/cm	Exp. Date	Lot #	Bottle #	Cell Constant	Reading µmhos/cm	Pass or Fail
											Acceptance Criteria: +/- 5%
(CAL) (ICV) CCV		RMM	8/11/16	1125	1412	3/17	1156			1412	(P) F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F

pH	**DEP SOP FT 1100**	Initials	Date	Time	Standard SU	Exp. Date	Lot #	Bottle #	Slope	Reading SU	Pass or Fail
											Acceptance Criteria: +/- 0.2 SU
(CAL) (CV) CCV		RMM	8/11/16	1120	7.00	9/19	8359			7.03	(P) F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F

Maintenance: Weekly pH Slope: _____ Specific Conductance Probe Cleaned? Yes No Dissolved Oxygen Membrane Changed: Yes No

Notes:

Perform only in Calibrate Mode: **CAL** - Calibrate -
Perform only in Run Mode: **ICV** - Initial Calibration Verification
Perform only in Run Mode: **CCV** - Continuing Calibration Verification

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	Former Alltran	SITE LOCATION:	PBIA West Palm Beach, FL
WELL NO:	MW1	SAMPLE ID:	MW1
DATE:	8/15/18		

PURGING DATA

WELL DIAMETER (inches):	1	TUBING DIAMETER (inches):	3/8	WELL SCREEN INTERVAL DEPTH:	13 feet to 3 feet	STATIC DEPTH TO WATER (feet):	4.74	PURGE PUMP TYPE OR BAILER:	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (13 feet – 4.74 feet) X 0.04 gallons/foot = 0.33 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	6.74	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	6.74	PURGING INITIATED AT:	1440	PURGING ENDED AT:	1610	TOTAL VOLUME PURGED (gallons):	5.10

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) ~~mg/L~~ or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1600	3.40	3.40	0.17	4.85	7.32	31.62	793	1.48	5.41	Clear	Petro
1605	0.85	4.25	0.17	4.85	7.32	31.49	792	1.48	13.7	Clear	Petro
1610	0.85	5.10	0.17	4.85	7.30	31.66	794	1.26	17.6	Clear	Petro

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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	Rhonda Murphy / Terracon	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	1610	SAMPLING ENDED AT:	1619
PUMP OR TUBING DEPTH IN WELL (feet):	6.74	TUBING MATERIAL CODE:	HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:		FILTER SIZE: ____ µm	
FIELD DECONTAMINATION: PUMP Y (N)		TUBING Y N (replaced)		DUPLICATE: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW1	2	CG	40mL	–	–	–	8260	PP	100
MW1	1	AG	1L	–	–	–	8270	PP	250
MW1	1	AG	1L	HCL	–	–	FL PRO	PP	250

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do 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, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FORMER PALM TRAN	SITE LOCATION: PBIA WEST PALM BEACH, FL	
WELL NO: MW 1D	SAMPLE ID: MW 1D	DATE: 8/15/16

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 25 feet to 30 feet	STATIC DEPTH TO WATER (feet): 4.80	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (30 feet – 4.80 feet) X 0.04 gallons/foot = 1.00 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6.80	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6.80	PURGING INITIATED AT: 1502	PURGING ENDED AT: 1530	TOTAL VOLUME PURGED (gallons): 4.70

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1520	3.00	3.00	0.17	4.85	7.57	27.80	632	0.76	20.0	Clear	FLPRO
1525	0.85	3.85	0.17	4.55	7.50	27.77	626	1.39	16.7	Clear	FLPRO
1530	0.85	4.70	0.17	4.55	7.47	27.76	629	1.13	13.7	Clear	FLPRO

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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: RANDALL MURPHY / TERRACON	SAMPLER(S) SIGNATURE(S): Randall Murphy	SAMPLING INITIATED AT: 1530	SAMPLING ENDED AT: 1539
PUMP OR TUBING DEPTH IN WELL (feet): 6.80	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW 1D	2	CG	40mL	–	–	–	8260	PP	100
MW 1D	1	AG	1L	–	–	–	8270	PP	250
MW 1D	1	AG	1L	HCL	–	–	FL PRO	PP	250

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do 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, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	FORMER PSL TRAN	SITE LOCATION:	PSL A WEST PALM BEACH, FL
WELL NO:	MW-2	SAMPLE ID:	MW2
DATE:	8/5/16		

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
1	3/8	13 feet to 3 feet	4.80	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (13 feet – 4.86 feet) X 0.04 gallons/foot = 0.32 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
6.86	6.86	1414	1451	6.29

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/l) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1444	5.10	5.10	0.17	5.26	7.64	31.63	1566	0.72	2.03	CLEAR	PETRO
1447	0.52	5.61	0.17	5.26	7.64	31.58	1565	0.72	3.95	CLEAR	PETRO
1451	0.68	6.29	0.17	5.26	7.63	31.56	1565	0.74	3.44	CLEAR	PETRO

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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Randall Murray / Terracon		1451	1500

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
6.86	HDPE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW2	2	CG	40mL	—	—	—	8260	PP	100
MW2	1	AG	1L	—	—	—	8270	PP	250
MW2	1	AG	1L	HCl	—	—	PAH 8270	PP	250

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do 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, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	FORMER FOLKTRAN	SITE LOCATION:	P&I West Palm Beach, FL
WELL NO:	MW-3	SAMPLE ID:	MW-3
DATE:	8/15/16		

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
1	3/8	13 feet to 3 feet	4.57	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (13 feet – 4.57 feet) X 0.04 gallons/foot = 0.33 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
6.57	6.57	1100	1140	6.80

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or ~~µS/cm~~	DISSOLVED OXYGEN (~~circle units~~) ~~mg/L~~ or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1130	5.10	5.10	0.17	4.78	7.59	31.90	1150	1.33	2.61	CLEAR	NONE
1135	0.85	5.95	0.17	4.78	7.58	31.92	1156	1.28	2.52	CLEAR	NONE
1140	0.85	6.80	0.17	4.78	7.58	31.90	1158	1.48	1.13	CLEAR	NONE

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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Randall Murphy / Terracon	Randall Murphy	1140	1149

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
6.57	HDPE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW3	2	CG	40mL	–	–	–	8260	PP	100
MW3	1	AG	1L	–	–	–	8270	PP	250
MW3	1	AG	1L	HCL	–	–	PLFRO	PP	250

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do 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, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Former Palm Tran	SITE LOCATION: PB, FL		
WELL NO: MW-4	SAMPLE ID: MW 4	DATE: 8/31/16	

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 4.55	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (13 feet – 4.55 feet) X 0.04 gallons/foot = 0.33 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6.55	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6.55	PURGING INITIATED AT: 1318	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or ~~mS/cm~~	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1348	5.10	5.10	0.17	4.70	7.40	31.16	1100	0.77	2.31	Clear	Petro
1353	0.85	5.95	0.17	4.70	7.40	31.17	1109	0.83	4.16	Clear	Petro
1358	0.95	6.80	0.17	4.70	7.40	31.20	1116	0.73	4.02	Clear	Petro

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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ronald Murphy / Terracon	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1358	SAMPLING ENDED AT: 1407
PUMP OR TUBING DEPTH IN WELL (feet): 6.55	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW4	2	CG	40 mL	–	–	–	8260	PP	100
MW4	1	AG	1 L	–	–	–	8270	PP	250
MW4	1	AG	1 L	HCl	–	–	FL PRO	PP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do 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, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Former Palm Tran	SITE LOCATION: PB/A West Palm Beach FL
WELL NO: MW-5	SAMPLE ID: MW5	DATE: 8/5/14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 13 feet to 3 feet	STATIC DEPTH TO WATER (feet): 4.45	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (13 feet – 4.45 feet) X 0.16 gallons/foot = 1.36 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6.45	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6.45	PURGING INITIATED AT: 1150	PURGING ENDED AT: 1224	TOTAL VOLUME PURGED (gallons): 5.80

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (mS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe) PETRO
1214	4.10	4.10	0.17	4.85	7.58	29.28	534	0.72	2.88	CLEAR	NONE
1219	0.85	4.95	0.17	4.85	7.58	29.25	536	0.65	1.24	CLEAR	NONE PETRO
1224	0.85	5.80	0.17	4.85	7.59	29.17	543	0.60	0.86	CLEAR	PETRO

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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Randall Murphy / Terracon	SAMPLER(S) SIGNATURE(S): Randall Murphy	SAMPLING INITIATED AT: 1224	SAMPLING ENDED AT: 1233
PUMP OR TUBING DEPTH IN WELL (feet): 6.45	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING (Y) N (replaced)	DUPLICATE: (Y) N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW5	2	CG	40mL	—	—	—	8260	PP	100
MW5	1	AG	1L	—	—	—	8270	PP	250
MW5	1	AG	1L	HCL	—	—	FL-PRO	PP	250

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do 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, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	Former Palm Tran	SITE LOCATION:	PBIA West Palm Beach, FL
WELL NO:	MW-6	SAMPLE ID:	MW-6
		DATE:	9/15/14

PURGING DATA

WELL DIAMETER (inches):	1	TUBING DIAMETER (inches):	3/8	WELL SCREEN INTERVAL DEPTH:	13 feet to 3 feet	STATIC DEPTH TO WATER (feet):	5.42	PURGE PUMP TYPE OR BAILER:	FP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (13 feet – 5.42 feet) X 0.04 gallons/foot = 0.30 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	7.42	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	7.42	PURGING INITIATED AT:	0850	PURGING ENDED AT:	0905	TOTAL VOLUME PURGED (gallons):	1.65

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0850	5.10	5.10	0.17	5.47	7.45	31.96	786	1.48	21.4	Clear	None
0855	0.85	5.95	0.17	5.47	7.43	31.73	778	1.48	5.29	Clear	None
0900	0.85	6.80	0.17	5.47	7.40	31.00	780	1.35	5.02	Clear	None
0905	0.85	7.65	0.17	5.47	7.41	31.81	774	1.33	5.59	Clear	None

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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	Ronald Murphy / Terracon	SAMPLER(S) SIGNATURE(S):	Ronald Murphy	SAMPLING INITIATED AT:	0905	SAMPLING ENDED AT:	0914
PUMP OR TUBING DEPTH IN WELL (feet):	7.42	TUBING MATERIAL CODE:	HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:		FILTER SIZE: ____ µm	
FIELD DECONTAMINATION: PUMP Y (N)		TUBING Y (N) replaced		DUPLICATE: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-6	2	CG	40mL	–	–	–	8260	PP	100
MW-6	1	AG	1 L	–	–	–	8270	PP	250
MW-6	1	AG	1 L	HCL	–	–	PCP20	PP	250

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do 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, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Former Palm Tran	SITE LOCATION: PBIA West Palm Beach, FL
WELL NO: MW-7	SAMPLE ID: MW-7	DATE: 8/18/10

PURGING DATA

WELL DIAMETER (inches): 1 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 3 feet to 13 feet | STATIC DEPTH TO WATER (feet): 5.40 | PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (13 feet – 5.40 feet) X 0.04 gallons/foot = 0.30 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.40 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.40 | PURGING INITIATED AT: 0915 | PURGING ENDED AT: 0955 | TOTAL VOLUME PURGED (gallons): 6.80

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0945	5.10	5.10	0.17	5.52	7.38	32.66	744	1.08	12.30	Clear	Petro
0950	0.85	5.95	0.17	5.52	7.37	32.59	748	1.48	6.74	Clear	Petro
0955	0.85	680	0.17	552	7.36	32.61	752	1.47	5.78	Clear	Petro

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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Randall Murphy / Terracon | SAMPLER(S) SIGNATURE(S): [signature] | SAMPLING INITIATED AT: 0955 | SAMPLING ENDED AT: 1004

PUMP OR TUBING DEPTH IN WELL (feet): 7.40 | TUBING MATERIAL CODE: HDPE | FIELD-FILTERED: Y (N) Filtration Equipment Type: | FILTER SIZE: ____ μm

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N)(replaced) | DUPLICATE: Y (N)

SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-7	2	CG	40 mL	–	–	–	8260	PP	250
MW-7	1	AG	1 L	–	–	–	8270	PP	250
MW-7	1	AG	1 L	HCL	–	–	FL PRO	PP	250

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do 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, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Former Palm Tran	SITE LOCATION: PBIA West Palm Beach FL	
WELL NO: MW-8	SAMPLE ID: MW-8	DATE: 8/15/16

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 13 feet to 3 feet	STATIC DEPTH TO WATER (feet): 4.77	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (13 feet – 4.77 feet) X 0.04 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6.77	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6.77	PURGING INITIATED AT: 1008	PURGING ENDED AT: 1048	TOTAL VOLUME PURGED (gallons): 6.80

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm (circled)	DISSOLVED OXYGEN (circle units) mg/L (circled) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1038	5.10	5.10	0.17	4.90	8.84	32.12	699	1.43	7.33	Clear	None
1043	0.85	5.95	0.17	4.90	8.75	32.08	695	1.29	11.90	Clear	None
1048	0.85	6.80	0.17	4.90	8.64	31.96	684	1.19	15.4	Clear	None

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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Randall Murphy / Terracon	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1048	SAMPLING ENDED AT: 1057
PUMP OR TUBING DEPTH IN WELL (feet): 6.77	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N circled) Filtration Equipment Type:	FILTER SIZE: ____ μm
FIELD DECONTAMINATION: PUMP Y (N circled)	TUBING Y (N circled) (replaced)	DUPLICATE: Y (N circled)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-8	2	CG	40mL	–	–	–	8260	PP	100
MW8	1	AG	1L	–	–	–	8270	PP	250
MW8	1	AG	1L	HCL	–	–	FL Pro	PP	250

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do 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, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Boldly "X" this box if there is qualified data on this page.

Form FD9000-8 **CALIBRATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)** *11-10-05*

Project/Site: PALM TRAN Date: 5/15/16 Meter # 1471100110

Temperature (Quarterly) *For Date of Last Temperature Verification see* _____ *in log book* _____

Dissolved Oxygen	**DEP SOP FT 1500**	Initials	Date	Time	Probe Charge	Probe Gain	mg/L	Temp °C	% DO	Saturation mg/L (from chart)	Pass *or* Fail
										Acceptance Criteria:+/-0.3mg/l	
CAL ICV CCV		RLM	5/15/16	0820					100		P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F

Specific Conductance	**DEP SOP FT 1200**	Initials	Date	Time	Standard *µmhos/cm*	Exp. Date	Lot #	Bottle #	Cell Constant	Reading *µmhos/cm*	Pass *or* Fail
										Acceptance Criteria: +/- 5%	
CAL ICV CCV		RLM	5/15/16	0815	1413					1412	P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F

pH	**DEP SOP FT 1100**	Initials	Date	Time	Standard SU	Exp. Date	Lot #	Bottle #	Slope	Reading SU	Pass *or* Fail
										Acceptance Criteria: +/- 0.2 SU	
CAL ICV CCV		RLM	5/15/16	0810	7.00	12/18	6EM544			7.00	P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F

Maintenance: Weekly pH Slope: _____ Specific Conductance Probe Cleaned? Yes No Dissolved Oxygen Membrane Changed: Yes No

Notes:

Turbidity:

Perform only in Calibrate Mode: **CAL** - Calibrate -
Perform only in Run Mode: **ICV** - Initial Calibration Verification
Perform only in Run Mode: **CCV** - Continuing Calibration Verification

Appendix E - Laboratory Analytical Reports and Chain-of-Custody Records

Palm Beach Environmental Laboratories Inc.

Andrew Petric
Terracon WPB
West Palm Beach, FL 33405
(561) 689-4299
LOG #: 0014692

August 19, 2016

Enclosed is the laboratory report for your project. All results meet the requirements of the NELAC standards.

Please note the following:

(1) The samples were received as stated on the chain of custody, correctly labeled and at the proper temperature unless otherwise noted. The results contained in this report relate only to the items tested or to the samples as received by the laboratory.

(2) This report may not be reproduced except in full, without the written approval of the laboratory. Any anomalies are noted in the case narrative.

(3) Results for all solid matrices are reported in dry weight unless otherwise noted.

(4) Results for all liquid matrices are analyzed as received in the laboratory unless otherwise noted.

(5) Samples are disposed of within 30 days of their receipt by the laboratory.

(6) A statement of Qualifiers is available upon request.

(7) Certain analyses are subcontracted to outside NELAC certified laboratories and are designated on your report.

(8) Precision & Accuracy will be provided when clients require a measure of estimated uncertainty.

(9) The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report Preliminary Data should not be used for regular purposes. Authorized signature(s) is provided on final report only

Please contact me if you have any questions or concerns regarding this report.

Sincerely,

Pamela Shore
QA Officer

Palm Beach Environmental Laboratories Inc.

CERTIFICATE OF ANALYSIS

Terracon WPB
1225 Omar Road
West Palm Beach, FL 33405
ATTN: Andrew Petric
PHONE: (561) 689-4299 **FAX:** (561) 689-5955

LOG #: 0014692
COC#: 23392
REPORTED: 8/19/2016 8:50:12AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: GP-1 **Lab ID:** 0014692-01 **Sampled:** 08/11/16 12:20
Matrix: Water **Sampled By:** Randall Murphy **Received:** 08/11/16 14:38

EPA 8020 List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
71-43-2	Benzene	0.640	U	ug/L	EPA 8260C	1	0.640	1.00	08/12/16	08/12/16	PLS
108-88-3	Toluene	0.660	U	ug/L	EPA 8260C	1	0.660	1.00	08/12/16	08/12/16	PLS
108-90-7	Chlorobenzene	0.670	U	ug/L	EPA 8260C	1	0.670	1.00	08/12/16	08/12/16	PLS
100-41-4	Ethylbenzene	0.730	U	ug/L	EPA 8260C	1	0.730	1.00	08/12/16	08/12/16	PLS
108-38-3/106-42-3	m,p-Xylene	0.760	U	ug/L	EPA 8260C	1	0.760	1.00	08/12/16	08/12/16	PLS
95-47-6	o-Xylene	0.870	U	ug/L	EPA 8260C	1	0.870	1.00	08/12/16	08/12/16	PLS
541-73-1	1,3-Dichlorobenzene	0.310	U	ug/L	EPA 8260C	1	0.310	1.00	08/12/16	08/12/16	PLS
106-46-7	1,4-Dichlorobenzene	0.510	U	ug/L	EPA 8260C	1	0.510	1.00	08/12/16	08/12/16	PLS
95-50-1	1,2-Dichlorobenzene	0.510	U	ug/L	EPA 8260C	1	0.510	1.00	08/12/16	08/12/16	PLS
1634-04-4	MTBE	0.530	U	ug/L	EPA 8260C	1	0.530	1.00	08/12/16	08/12/16	PLS

		% Recovery	Q	% Recovery Limits
1868-53-7	Surrogate: Dibromofluoromethane	110 %		Limit 62-200
2037-26-5	Surrogate: Toluene-d8	95.0 %		Limit 63-144
460-00-4	Surrogate: 4-Bromofluorobenzene	100 %		Limit 50-155

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
91-20-3	Naphthalene	0.147	U	ug/L	EPA 3510C / 8270	1	0.147	10.0	08/17/16	08/17/16	PLS
91-57-6	2-Methylnaphthalene	0.288	U	ug/L	EPA 3510C / 8270	1	0.288	10.0	08/17/16	08/17/16	PLS
90-12-0	1-Methylnaphthalene	0.285	U	ug/L	EPA 3510C / 8270	1	0.285	10.0	08/17/16	08/17/16	PLS
208-96-8	Acenaphthylene	0.393	U	ug/L	EPA 3510C / 8270	1	0.393	10.0	08/17/16	08/17/16	PLS
83-32-9	Acenaphthene	0.188	U	ug/L	EPA 3510C / 8270	1	0.188	10.0	08/17/16	08/17/16	PLS
86-73-7	Fluorene	0.217	U	ug/L	EPA 3510C / 8270	1	0.217	10.0	08/17/16	08/17/16	PLS
85-01-8	Phenanthrene	0.215	U	ug/L	EPA 3510C / 8270	1	0.215	10.0	08/17/16	08/17/16	PLS
120-12-7	Anthracene	0.0100	U	ug/L	EPA 3510C / 8270	1	0.0100	0.0300	08/17/16	08/17/16	PLS
206-44-0	Fluoranthene	0.0100	U	ug/L	EPA 3510C / 8270	1	0.0100	0.0300	08/17/16	08/17/16	PLS
129-00-0	Pyrene	0.409	U	ug/L	EPA 3510C / 8270	1	0.409	10.0	08/17/16	08/17/16	PLS
56-55-3	Benzo[a]anthracene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS
218-01-9	Chrysene	0.169	U	ug/L	EPA 3510C / 8270	1	0.169	0.200	08/17/16	08/17/16	PLS
205-99-2	Benzo[b]fluoranthene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS
207-08-9	Benzo[k]fluoranthene	0.500	U	ug/L	EPA 3510C / 8270	1	0.500	0.500	08/17/16	08/17/16	PLS
50-32-8	Benzo[a]pyrene	0.200	U	ug/L	EPA 3510C / 8270	1	0.200	0.200	08/17/16	08/17/16	PLS
53-70-3	Dibenz[a,h]anthracene	0.0050	U	ug/L	EPA 3510C / 8270	1	0.0050	0.0500	08/17/16	08/17/16	PLS
193-39-5	Indeno[1,2,3-cd]pyrene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS

Palm Beach Environmental Laboratories Inc.

CERTIFICATE OF ANALYSIS

Terracon WPB
1225 Omar Road
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ATTN: Andrew Petric
PHONE: (561) 689-4299 **FAX:** (561) 689-5955

LOG #: 0014692
COC#: 23392
REPORTED: 8/19/2016 8:50:12AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: GP-1 **Lab ID:** 0014692-01 **Sampled:** 08/11/16 12:20
Matrix: Water **Sampled By:** Randall Murphy **Received:** 08/11/16 14:38

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
191-24-2	Benzo[g,h,i]perylene	0.341	U	ug/L	EPA 3510C / 8270	1	0.341	10.0	08/17/16	08/17/16	PLS

		% Recovery	Q	% Recovery Limits
NA	Surrogate: Nitrobenzene-d5	74.7 %		Limit 40-142
321-60-8	Surrogate: 2-Fluorobiphenyl	94.7 %		Limit 47-150
NA	Surrogate: p-Terphenyl-d14	79.7 %		Limit 55-165

FLPRO

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
NA	**FLPRO Total**	**0.062**	I	mg/L	EPA 3510C /RO	1	0.040	0.500	08/17/16	08/17/16	PLS

		% Recovery	Q	% Recovery Limits
84-15-1	Surrogate: o-Terphenyl	120 %		Limit 70-130
7194-86-7	Surrogate: Nonatriacontane	78.2 %		Limit 42-193

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LOG #: 0014692
COC#: 23392
REPORTED: 8/19/2016 8:50:12AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: GP-2 **Lab ID:** 0014692-03 **Sampled:** 08/11/16 12:45
Matrix: Water **Sampled By:** Randall Murphy **Received:** 08/11/16 14:38

EPA 8020 List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
71-43-2	Benzene	0.640	U	ug/L	EPA 8260C	1	0.640	1.00	08/12/16	08/12/16	PLS
108-88-3	Toluene	0.660	U	ug/L	EPA 8260C	1	0.660	1.00	08/12/16	08/12/16	PLS
108-90-7	Chlorobenzene	0.670	U	ug/L	EPA 8260C	1	0.670	1.00	08/12/16	08/12/16	PLS
100-41-4	Ethylbenzene	0.730	U	ug/L	EPA 8260C	1	0.730	1.00	08/12/16	08/12/16	PLS
108-38-3/106-42-3	m,p-Xylene	0.760	U	ug/L	EPA 8260C	1	0.760	1.00	08/12/16	08/12/16	PLS
95-47-6	o-Xylene	0.870	U	ug/L	EPA 8260C	1	0.870	1.00	08/12/16	08/12/16	PLS
541-73-1	1,3-Dichlorobenzene	0.310	U	ug/L	EPA 8260C	1	0.310	1.00	08/12/16	08/12/16	PLS
106-46-7	1,4-Dichlorobenzene	0.510	U	ug/L	EPA 8260C	1	0.510	1.00	08/12/16	08/12/16	PLS
95-50-1	1,2-Dichlorobenzene	0.510	U	ug/L	EPA 8260C	1	0.510	1.00	08/12/16	08/12/16	PLS
1634-04-4	MTBE	0.530	U	ug/L	EPA 8260C	1	0.530	1.00	08/12/16	08/12/16	PLS

		% Recovery	Q	% Recovery Limits
1868-53-7	Surrogate: Dibromofluoromethane	106 %		Limit 62-200
2037-26-5	Surrogate: Toluene-d8	91.1 %		Limit 63-144
460-00-4	Surrogate: 4-Bromofluorobenzene	102 %		Limit 50-155

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
91-20-3	Naphthalene	0.147	U	ug/L	EPA 3510C / 8270	1	0.147	10.0	08/17/16	08/17/16	PLS
91-57-6	2-Methylnaphthalene	0.288	U	ug/L	EPA 3510C / 8270	1	0.288	10.0	08/17/16	08/17/16	PLS
90-12-0	1-Methylnaphthalene	0.285	U	ug/L	EPA 3510C / 8270	1	0.285	10.0	08/17/16	08/17/16	PLS
208-96-8	Acenaphthylene	0.393	U	ug/L	EPA 3510C / 8270	1	0.393	10.0	08/17/16	08/17/16	PLS
83-32-9	Acenaphthene	0.188	U	ug/L	EPA 3510C / 8270	1	0.188	10.0	08/17/16	08/17/16	PLS
86-73-7	Fluorene	0.217	U	ug/L	EPA 3510C / 8270	1	0.217	10.0	08/17/16	08/17/16	PLS
85-01-8	Phenanthrene	0.215	U	ug/L	EPA 3510C / 8270	1	0.215	10.0	08/17/16	08/17/16	PLS
120-12-7	Anthracene	0.0100	U	ug/L	EPA 3510C / 8270	1	0.0100	0.0300	08/17/16	08/17/16	PLS
206-44-0	Fluoranthene	0.0100	U	ug/L	EPA 3510C / 8270	1	0.0100	0.0300	08/17/16	08/17/16	PLS
129-00-0	Pyrene	0.409	U	ug/L	EPA 3510C / 8270	1	0.409	10.0	08/17/16	08/17/16	PLS
56-55-3	Benzo[a]anthracene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS
218-01-9	Chrysene	0.169	U	ug/L	EPA 3510C / 8270	1	0.169	0.200	08/17/16	08/17/16	PLS
205-99-2	Benzo[b]fluoranthene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS
207-08-9	Benzo[k]fluoranthene	0.500	U	ug/L	EPA 3510C / 8270	1	0.500	0.500	08/17/16	08/17/16	PLS
50-32-8	Benzo[a]pyrene	0.200	U	ug/L	EPA 3510C / 8270	1	0.200	0.200	08/17/16	08/17/16	PLS
53-70-3	Dibenz[a,h]anthracene	0.0050	U	ug/L	EPA 3510C / 8270	1	0.0050	0.0500	08/17/16	08/17/16	PLS
193-39-5	Indeno[1,2,3-cd]pyrene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS

Palm Beach Environmental Laboratories Inc.

CERTIFICATE OF ANALYSIS

Terracon WPB
1225 Omar Road
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PHONE: (561) 689-4299 **FAX:** (561) 689-5955

LOG #: 0014692
COC#: 23392
REPORTED: 8/19/2016 8:50:12AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: GP-2 **Lab ID:** 0014692-03 **Sampled:** 08/11/16 12:45
Matrix: Water **Sampled By:** Randall Murphy **Received:** 08/11/16 14:38

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
191-24-2	Benzo[g,h,i]perylene	0.341	U	ug/L	EPA 3510C / 8270	1	0.341	10.0	08/17/16	08/17/16	PLS

		% Recovery	Q	% Recovery Limits
NA	Surrogate: Nitrobenzene-d5	85.3 %		Limit 40-142
321-60-8	Surrogate: 2-Fluorobiphenyl	77.4 %		Limit 47-150
NA	Surrogate: p-Terphenyl-d14	76.2 %		Limit 55-165

FLPRO

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
NA	FLPRO Total	0.040	U	mg/L	EPA 3510C /RO	1	0.040	0.500	08/17/16	08/17/16	PLS

		% Recovery	Q	% Recovery Limits
84-15-1	Surrogate: o-Terphenyl	114 %		Limit 70-130
7194-86-7	Surrogate: Nonatriacontane	96.7 %		Limit 42-193

Palm Beach Environmental Laboratories Inc.

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PHONE: (561) 689-4299 **FAX:** (561) 689-5955

LOG #: 0014692
COC#: 23392
REPORTED: 8/19/2016 8:50:12AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: SB 35 (4')
Matrix: Soil
Lab ID: 0014692-04
Sampled By: Randall Murphy
Sampled: 08/11/16 12:20
Received: 08/11/16 14:38

EPA 8020 List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
71-43-2	Benzene	0.0002	U	mg/kg	EPA 5035 / 8260C	1	0.0002	0.001	08/12/16	08/13/16	PLS
108-88-3	Toluene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	08/12/16	08/13/16	PLS
108-90-7	Chlorobenzene	0.0004	U	mg/kg	EPA 5035 / 8260C	1	0.0004	0.001	08/12/16	08/13/16	PLS
100-41-4	Ethylbenzene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	08/12/16	08/13/16	PLS
108-38-3/106-42-3	m,p-Xylene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	08/12/16	08/13/16	PLS
95-47-6	o-Xylene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	08/12/16	08/13/16	PLS
541-73-1	1,3-Dichlorobenzene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	08/12/16	08/13/16	PLS
106-46-7	1,4-Dichlorobenzene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	08/12/16	08/13/16	PLS
95-50-1	1,2-Dichlorobenzene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	08/12/16	08/13/16	PLS
1634-04-4	MTBE	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	08/12/16	08/13/16	PLS

		% Recovery	Q	% Recovery Limits
1868-53-7	Surrogate: Dibromofluoromethane	130 %		Limit 55-200
2037-26-5	Surrogate: Toluene-d8	124 %		Limit 66-144
460-00-4	Surrogate: 4-Bromofluorobenzene	70.8 %		Limit 50-131

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
91-20-3	Naphthalene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.3	08/16/16	08/17/16	PLS
91-57-6	2-Methylnaphthalene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.3	08/16/16	08/17/16	PLS
90-12-0	1-Methylnaphthalene	0.01	U	mg/kg	EPA 3545 / 8270	1	0.01	0.3	08/16/16	08/17/16	PLS
208-96-8	Acenaphthylene	0.04	U	mg/kg	EPA 3545 / 8270	1	0.04	0.3	08/16/16	08/17/16	PLS
83-32-9	Acenaphthene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.3	08/16/16	08/17/16	PLS
86-73-7	Fluorene	0.03	U	mg/kg	EPA 3545 / 8270	1	0.03	0.3	08/16/16	08/17/16	PLS
85-01-8	Phenanthrene	0.01	U	mg/kg	EPA 3545 / 8270	1	0.01	0.3	08/16/16	08/17/16	PLS
120-12-7	Anthracene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.3	08/16/16	08/17/16	PLS
206-44-0	Fluoranthene	0.03	U	mg/kg	EPA 3545 / 8270	1	0.03	0.3	08/16/16	08/17/16	PLS
129-00-0	Pyrene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.3	08/16/16	08/17/16	PLS
56-55-3	Benzo[a]anthracene	0.04	U	mg/kg	EPA 3545 / 8270	1	0.04	0.04	08/16/16	08/17/16	PLS
218-01-9	Chrysene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.02	08/16/16	08/17/16	PLS
205-99-2	Benzo[b]fluoranthene	0.04	U	mg/kg	EPA 3545 / 8270	1	0.04	0.04	08/16/16	08/17/16	PLS
207-08-9	Benzo[k]fluoranthene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.02	08/16/16	08/17/16	PLS
50-32-8	Benzo[a]pyrene	0.05	U	mg/kg	EPA 3545 / 8270	1	0.05	0.05	08/16/16	08/17/16	PLS
53-70-3	Dibenz[a,h]anthracene	0.08	U	mg/kg	EPA 3545 / 8270	1	0.08	0.08	08/16/16	08/17/16	PLS
193-39-5	Indeno[1,2,3-cd]pyrene	0.04	U	mg/kg	EPA 3545 / 8270	1	0.04	0.04	08/16/16	08/17/16	PLS

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Terracon WPB
1225 Omar Road
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PHONE: (561) 689-4299 **FAX:** (561) 689-5955

LOG #: 0014692
COC#: 23392
REPORTED: 8/19/2016 8:50:12AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: SB 35 (4')
Matrix: Soil
Lab ID: 0014692-04
Sampled By: Randall Murphy
Sampled: 08/11/16 12:20
Received: 08/11/16 14:38

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
191-24-2	Benzo[g,h,i]perylene	0.06	U	mg/kg	EPA 3545 / 8270	1	0.06	0.3	08/16/16	08/17/16	PLS

		% Recovery	Q	% Recovery Limits
NA	Surrogate: Nitrobenzene-d5	76.2 %		Limit 47-131
321-60-8	Surrogate: 2-Fluorobiphenyl	99.1 %		Limit 51-134
NA	Surrogate: p-Terphenyl-d14	95.2 %		Limit 59-145

FLPRO

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
NA	**FLPRO Total**	**87.8**		mg/kg	EPA 3545 /RO	1	0.0800	0.240	08/16/16	08/16/16	PLS

		% Recovery	Q	% Recovery Limits
84-15-1	Surrogate: o-Terphenyl	94.6 %		Limit 70-130
7194-86-7	Surrogate: Nonatriacontane	89.0 %		Limit 42-193

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Terracon WPB
1225 Omar Road
West Palm Beach, FL 33405
ATTN: Andrew Petric
PHONE: (561) 689-4299 **FAX:** (561) 689-5955

LOG #: 0014692
COC#: 23392
REPORTED: 8/19/2016 8:50:12AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: SB 39 (3) **Lab ID:** 0014692-05 **Sampled:** 08/11/16 14:20
Matrix: Soil **Sampled By:** Randall Murphy **Received:** 08/11/16 14:38

EPA 8020 List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
71-43-2	Benzene	0.0002	U	mg/kg	EPA 5035 / 8260C	1	0.0002	0.001	08/12/16	08/13/16	PLS
108-88-3	Toluene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	08/12/16	08/13/16	PLS
108-90-7	Chlorobenzene	0.0004	U	mg/kg	EPA 5035 / 8260C	1	0.0004	0.001	08/12/16	08/13/16	PLS
100-41-4	Ethylbenzene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	08/12/16	08/13/16	PLS
108-38-3/106-42-3	m,p-Xylene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	08/12/16	08/13/16	PLS
95-47-6	o-Xylene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	08/12/16	08/13/16	PLS
541-73-1	1,3-Dichlorobenzene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	08/12/16	08/13/16	PLS
106-46-7	1,4-Dichlorobenzene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	08/12/16	08/13/16	PLS
95-50-1	1,2-Dichlorobenzene	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	08/12/16	08/13/16	PLS
1634-04-4	MTBE	0.0003	U	mg/kg	EPA 5035 / 8260C	1	0.0003	0.001	08/12/16	08/13/16	PLS

		% Recovery	Q	% Recovery Limits
1868-53-7	Surrogate: Dibromofluoromethane	113 %		Limit 55-200
2037-26-5	Surrogate: Toluene-d8	91.4 %		Limit 66-144
460-00-4	Surrogate: 4-Bromofluorobenzene	102 %		Limit 50-131

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
91-20-3	Naphthalene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.3	08/16/16	08/17/16	PLS
91-57-6	2-Methylnaphthalene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.3	08/16/16	08/17/16	PLS
90-12-0	1-Methylnaphthalene	0.01	U	mg/kg	EPA 3545 / 8270	1	0.01	0.3	08/16/16	08/17/16	PLS
208-96-8	Acenaphthylene	0.04	U	mg/kg	EPA 3545 / 8270	1	0.04	0.3	08/16/16	08/17/16	PLS
83-32-9	Acenaphthene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.3	08/16/16	08/17/16	PLS
86-73-7	Fluorene	0.03	U	mg/kg	EPA 3545 / 8270	1	0.03	0.3	08/16/16	08/17/16	PLS
85-01-8	Phenanthrene	0.01	U	mg/kg	EPA 3545 / 8270	1	0.01	0.3	08/16/16	08/17/16	PLS
120-12-7	Anthracene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.3	08/16/16	08/17/16	PLS
206-44-0	Fluoranthene	0.03	U	mg/kg	EPA 3545 / 8270	1	0.03	0.3	08/16/16	08/17/16	PLS
129-00-0	Pyrene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.3	08/16/16	08/17/16	PLS
56-55-3	Benzo[a]anthracene	0.04	U	mg/kg	EPA 3545 / 8270	1	0.04	0.04	08/16/16	08/17/16	PLS
218-01-9	Chrysene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.02	08/16/16	08/17/16	PLS
205-99-2	Benzo[b]fluoranthene	0.04	U	mg/kg	EPA 3545 / 8270	1	0.04	0.04	08/16/16	08/17/16	PLS
207-08-9	Benzo[k]fluoranthene	0.02	U	mg/kg	EPA 3545 / 8270	1	0.02	0.02	08/16/16	08/17/16	PLS
50-32-8	Benzo[a]pyrene	0.05	U	mg/kg	EPA 3545 / 8270	1	0.05	0.05	08/16/16	08/17/16	PLS
53-70-3	Dibenz[a,h]anthracene	0.08	U	mg/kg	EPA 3545 / 8270	1	0.08	0.08	08/16/16	08/17/16	PLS
193-39-5	Indeno[1,2,3-cd]pyrene	0.04	U	mg/kg	EPA 3545 / 8270	1	0.04	0.04	08/16/16	08/17/16	PLS

Palm Beach Environmental Laboratories Inc.

CERTIFICATE OF ANALYSIS

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LOG #: 0014692
COC#: 23392
REPORTED: 8/19/2016 8:50:12AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: SB 39 (3) **Lab ID:** 0014692-05 **Sampled:** 08/11/16 14:20
Matrix: Soil **Sampled By:** Randall Murphy **Received:** 08/11/16 14:38

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
191-24-2	Benzo[g,h,i]perylene	0.06	U	mg/kg	EPA 3545 / 8270	1	0.06	0.3	08/16/16	08/17/16	PLS

		% Recovery	Q	% Recovery Limits
NA	Surrogate: Nitrobenzene-d5	73.3 %		Limit 47-131
321-60-8	Surrogate: 2-Fluorobiphenyl	89.3 %		Limit 51-134
NA	Surrogate: p-Terphenyl-d14	74.5 %		Limit 59-145

FLPRO

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
NA	FLPRO Total	0.0800	U	mg/kg	EPA 3545 /RO	1	0.0800	0.240	08/16/16	08/16/16	PLS

		% Recovery	Q	% Recovery Limits
84-15-1	Surrogate: o-Terphenyl	83.6 %		Limit 70-130
7194-86-7	Surrogate: Nonatriacontane	87.3 %		Limit 42-193

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LOG #: 0014692
COC#: 23392
REPORTED: 8/19/2016 8:50:12AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8020 List - Quality Control										
Batch B608143 - P&T										
Blank (B608143-BLK1)				Prepared: 08/12/16 Analyzed: 08/13/16						
Benzene	U	1.00	ug/L							U
Toluene	U	1.00	ug/L							U
Chlorobenzene	U	1.00	ug/L							U
Ethylbenzene	U	1.00	ug/L							U
m,p-Xylene	U	1.00	ug/L							U
o-Xylene	U	1.00	ug/L							U
1,3-Dichlorobenzene	U	1.00	ug/L							U
1,4-Dichlorobenzene	U	1.00	ug/L							U
1,2-Dichlorobenzene	U	1.00	ug/L							U
MTBE	U	1.00	ug/L							U
Surrogate: Dibromofluoromethane	*20.7*		*ug/L*	*15.00*		*138*	*62-200*			
Surrogate: Toluene-d8	*14.1*		*ug/L*	*15.00*		*94.2*	*63-144*			
Surrogate: 4-Bromofluorobenzene	*15.3*		*ug/L*	*15.00*		*102*	*50-155*			
LCS (B608143-BS1)				Prepared: 08/12/16 Analyzed: 08/13/16						
Benzene	25.9	1.00	ug/L	27.78		93.3	60-135			
Toluene	21.5	1.00	ug/L	27.78		77.4	60-135			
Chlorobenzene	26.8	1.00	ug/L	27.78		96.5	60-135			
Trichloroethene	22.1	1.00	ug/L	27.78		79.7	60-135			
Surrogate: Dibromofluoromethane	*20.1*		*ug/L*	*15.00*		*134*	*62-136*			
Surrogate: Toluene-d8	*16.4*		*ug/L*	*15.00*		*109*	*66-144*			
Surrogate: 4-Bromofluorobenzene	*15.7*		*ug/L*	*15.00*		*105*	*70-131*			
LCS Dup (B608143-BSD1)				Prepared: 08/12/16 Analyzed: 08/13/16						
Benzene	26.5	1.00	ug/L	27.78		95.4	60-135	2.14	20	
Toluene	22.3	1.00	ug/L	27.78		80.4	60-135	3.79	20	
Chlorobenzene	27.9	1.00	ug/L	27.78		100	60-135	3.84	20	
Trichloroethene	23.0	1.00	ug/L	27.78		82.8	60-135	3.90	20	
Surrogate: Dibromofluoromethane	*20.0*		*ug/L*	*15.00*		*133*	*62-136*			
Surrogate: Toluene-d8	*17.0*		*ug/L*	*15.00*		*113*	*66-144*			
Surrogate: 4-Bromofluorobenzene	*16.6*		*ug/L*	*15.00*		*110*	*70-131*			
Calibration Check (B608143-CCV1)				Prepared: 08/12/16 Analyzed: 08/13/16						
Benzene	25.2		ug/L	27.78		90.6	80-120			
Toluene	22.4		ug/L	27.78		80.7	80-120			
Chlorobenzene	26.2		ug/L	27.78		94.4	80-120			
Trichloroethene	22.5		ug/L	27.78		81.0	80-120			
Surrogate: Dibromofluoromethane	*19.1*		*ug/L*	*15.00*		*127*	*0-200*			

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LOG #: 0014692
COC#: 23392
REPORTED: 8/19/2016 8:50:12AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8020 List - Quality Control										
Batch B608143 - P&T										
Calibration Check (B608143-CCV1) Continued				Prepared: 08/12/16 Analyzed: 08/13/16						
Surrogate: Toluene-d8	*16.8*		*ug/L*	*15.00*		*112*	*0-200*			
Surrogate: 4-Bromofluorobenzene	*16.6*		*ug/L*	*15.00*		*110*	*0-200*			
Duplicate (B608143-DUP1)	**Source: 0014692-01**			Prepared: 08/12/16 Analyzed: 08/13/16						
Benzene	U	1.00	ug/L		U				200	U
Toluene	U	1.00	ug/L		U				200	U
Chlorobenzene	U	1.00	ug/L		U				200	U
Trichloroethene	U	1.00	ug/L		U				200	U
Surrogate: Dibromofluoromethane	*20.4*		*ug/L*	*15.00*		*136*	*62-200*			
Surrogate: Toluene-d8	*14.2*		*ug/L*	*15.00*		*94.3*	*63-144*			
Surrogate: 4-Bromofluorobenzene	*15.0*		*ug/L*	*15.00*		*100*	*50-155*			
Matrix Spike (B608143-MS1)	**Source: 0014692-01**			Prepared: 08/12/16 Analyzed: 08/13/16						
Benzene	26.1	1.00	ug/L	27.78	U	94.0	60-135			
Toluene	22.1	1.00	ug/L	27.78	U	79.6	60-135			
Chlorobenzene	27.6	1.00	ug/L	27.78	U	99.2	60-135			
Trichloroethene	22.0	1.00	ug/L	27.78	U	79.2	60-135			
Surrogate: Dibromofluoromethane	*19.2*		*ug/L*	*15.00*		*128*	*62-136*			
Surrogate: Toluene-d8	*16.6*		*ug/L*	*15.00*		*111*	*66-144*			
Surrogate: 4-Bromofluorobenzene	*15.5*		*ug/L*	*15.00*		*104*	*70-131*			
Matrix Spike Dup (B608143-MSD1)	**Source: 0014692-01**			Prepared: 08/12/16 Analyzed: 08/13/16						
Benzene	26.1	1.00	ug/L	27.78	U	94.0	60-135	0.00	20	
Toluene	22.0	1.00	ug/L	27.78	U	79.1	60-135	0.590	20	
Chlorobenzene	27.3	1.00	ug/L	27.78	U	98.2	60-135	1.02	20	
Trichloroethene	22.5	1.00	ug/L	27.78	U	81.1	60-135	2.42	20	
Surrogate: Dibromofluoromethane	*19.6*		*ug/L*	*15.00*		*131*	*62-136*			
Surrogate: Toluene-d8	*16.7*		*ug/L*	*15.00*		*112*	*66-144*			
Surrogate: 4-Bromofluorobenzene	*16.1*		*ug/L*	*15.00*		*107*	*70-131*			
Batch B608145 - EPA 5035										
Blank (B608145-BLK1)				Prepared: 08/12/16 Analyzed: 08/13/16						
Benzene	U	0.001	mg/kg							U
Toluene	U	0.001	mg/kg							U
Chlorobenzene	U	0.001	mg/kg							U
Ethylbenzene	U	0.001	mg/kg							U
m,p-Xylene	U	0.001	mg/kg							U
o-Xylene	U	0.001	mg/kg							U
1,3-Dichlorobenzene	U	0.001	mg/kg							U

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LOG #: 0014692
COC#: 23392
REPORTED: 8/19/2016 8:50:12AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8020 List - Quality Control										
Batch B608145 - EPA 5035										
Blank (B608145-BLK1) Continued				Prepared: 08/12/16 Analyzed: 08/13/16						
1,4-Dichlorobenzene	U	0.001	mg/kg							U
1,2-Dichlorobenzene	U	0.001	mg/kg							U
MTBE	U	0.001	mg/kg							U
Surrogate: Dibromofluoromethane	*0.0183*		*mg/kg*	*0.01500*		*122*	*55-200*			
Surrogate: Toluene-d8	*0.0154*		*mg/kg*	*0.01500*		*102*	*66-144*			
Surrogate: 4-Bromofluorobenzene	*0.0126*		*mg/kg*	*0.01500*		*83.9*	*50-131*			
LCS (B608145-BS1)				Prepared: 08/12/16 Analyzed: 08/13/16						
1,2-Dicholoroethane	0.133	0.001	mg/kg				60-135			I
Benzene	0.163	0.001	mg/kg	0.1500		108	60-135			
Toluene	0.134	0.001	mg/kg	0.1500		89.6	60-135			
Chlorobenzene	0.146	0.001	mg/kg	0.1500		97.2	60-135			
Trichloroethene	0.150	0.001	mg/kg	0.1500		100	60-135			
Surrogate: Dibromofluoromethane	*0.0148*		*mg/kg*	*0.01500*		*98.7*	*55-200*			
Surrogate: Toluene-d8	*0.0185*		*mg/kg*	*0.01500*		*124*	*66-144*			
Surrogate: 4-Bromofluorobenzene	*0.0185*		*mg/kg*	*0.01500*		*123*	*50-131*			
LCS Dup (B608145-BSD1)				Prepared: 08/12/16 Analyzed: 08/13/16						
Benzene	0.149	0.001	mg/kg	0.1500		99.2	60-135	8.88	20	
Toluene	0.127	0.001	mg/kg	0.1500		84.6	60-135	5.72	20	
Chlorobenzene	0.131	0.001	mg/kg	0.1500		87.4	60-135	10.6	20	
Trichloroethene	0.143	0.001	mg/kg	0.1500		95.4	60-135	5.05	20	
Surrogate: Dibromofluoromethane	*0.0148*		*mg/kg*	*0.01500*		*98.8*	*55-200*			
Surrogate: Toluene-d8	*0.0172*		*mg/kg*	*0.01500*		*115*	*66-144*			
Surrogate: 4-Bromofluorobenzene	*0.0191*		*mg/kg*	*0.01500*		*127*	*50-131*			
Calibration Check (B608145-CCV1)				Prepared: 08/12/16 Analyzed: 08/13/16						
Benzene	0.140		mg/kg	0.1200		117	80-120			
Toluene	0.120		mg/kg	0.1200		100	80-120			
Chlorobenzene	0.123		mg/kg	0.1200		102	80-120			
Ethylbenzene	0.110		mg/kg	0.1200		92.0	80-120			
m,p-Xylene	0.109		mg/kg	0.1200		90.5	80-120			
o-Xylene	0.118		mg/kg	0.1200		98.0	80-120			
1,3-Dichlorobenzene	0.137		mg/kg	0.1200		114	80-120			
1,4-Dichlorobenzene	0.121		mg/kg	0.1200		100	80-120			
1,2-Dichlorobenzene	0.136		mg/kg	0.1200		114	80-120			
MTBE	0.141		mg/kg	0.1200		117	80-120			
Trichloroethene	0.139		mg/kg	0.1200		116	80-120			

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LOG #: 0014692
COC#: 23392
REPORTED: 8/19/2016 8:50:12AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8020 List - Quality Control										
Batch B608145 - EPA 5035										
Calibration Check (B608145-CCV1) Continued				Prepared: 08/12/16 Analyzed: 08/13/16						
Surrogate: Dibromofluoromethane	*0.0153*		*mg/kg*	*0.01500*		*102*	*0-200*			
Surrogate: Toluene-d8	*0.0160*		*mg/kg*	*0.01500*		*106*	*0-200*			
Surrogate: 4-Bromofluorobenzene	*0.0154*		*mg/kg*	*0.01500*		*103*	*0-200*			
Duplicate (B608145-DUP1)			**Source: 0014692-05**	Prepared: 08/12/16 Analyzed: 08/13/16						
Benzene	U	0.001	mg/kg		U				20	U
Toluene	U	0.001	mg/kg		U				20	U
Chlorobenzene	U	0.001	mg/kg		U				20	U
Ethylbenzene	U	0.001	mg/kg		U				20	U
m,p-Xylene	U	0.001	mg/kg		U				20	U
o-Xylene	U	0.001	mg/kg		U				20	U
1,3-Dichlorobenzene	U	0.001	mg/kg		U				20	U
1,4-Dichlorobenzene	U	0.001	mg/kg		U				20	U
1,2-Dichlorobenzene	U	0.001	mg/kg		U				20	U
MTBE	U	0.001	mg/kg		U				20	U
Trichloroethene	U	0.001	mg/kg		U				20	U
Surrogate: Dibromofluoromethane	*0.0176*		*mg/kg*	*0.01500*		*117*	*55-200*			
Surrogate: Toluene-d8	*0.0154*		*mg/kg*	*0.01500*		*103*	*66-144*			
Surrogate: 4-Bromofluorobenzene	*0.0132*		*mg/kg*	*0.01500*		*87.9*	*50-131*			
Matrix Spike (B608145-MS1)			**Source: 0014692-05**	Prepared: 08/12/16 Analyzed: 08/13/16						
Benzene	0.115	0.001	mg/kg	0.1500	U	76.9	60-135			
Toluene	0.117	0.001	mg/kg	0.1500	U	77.9	60-135			
Chlorobenzene	0.122	0.001	mg/kg	0.1500	U	81.1	60-135			
Trichloroethene	0.126	0.001	mg/kg	0.1500	U	84.0	60-135			
Surrogate: Dibromofluoromethane	*0.0154*		*mg/kg*	*0.01500*		*103*	*55-200*			
Surrogate: Toluene-d8	*0.0162*		*mg/kg*	*0.01500*		*108*	*66-144*			
Surrogate: 4-Bromofluorobenzene	*0.0129*		*mg/kg*	*0.01500*		*86.1*	*50-131*			
Matrix Spike Dup (B608145-MSD1)			**Source: 0014692-05**	Prepared: 08/12/16 Analyzed: 08/13/16						
Benzene	0.130	0.001	mg/kg	0.1500	U	86.6	60-135	11.9	20	
Toluene	0.111	0.001	mg/kg	0.1500	U	74.0	60-135	5.14	20	
Chlorobenzene	0.115	0.001	mg/kg	0.1500	U	77.0	60-135	5.30	20	
Trichloroethene	0.113	0.001	mg/kg	0.1500	U	75.2	60-135	11.0	20	
Surrogate: Dibromofluoromethane	*0.0148*		*mg/kg*	*0.01500*		*98.4*	*55-200*			
Surrogate: Toluene-d8	*0.0148*		*mg/kg*	*0.01500*		*98.8*	*66-144*			
Surrogate: 4-Bromofluorobenzene	*0.0167*		*mg/kg*	*0.01500*		*111*	*50-131*			
EPA 8100 PAH List - Quality Control										

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LOG #: 0014692
COC#: 23392
REPORTED: 8/19/2016 8:50:12AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8100 PAH List - Quality Control										
Batch B608161 - EPA 3545										
Blank (B608161-BLK1)				Prepared: 08/16/16 Analyzed: 08/17/16						
Naphthalene	U	0.3	mg/kg							U
2-Methylnaphthalene	U	0.3	mg/kg							U
1-Methylnaphthalene	U	0.3	mg/kg							U
Acenaphthylene	U	0.3	mg/kg							U
Acenaphthene	U	0.3	mg/kg							U
Fluorene	U	0.3	mg/kg							U
Phenanthrene	U	0.3	mg/kg							U
Anthracene	U	0.3	mg/kg							U
Fluoranthene	U	0.3	mg/kg							U
Pyrene	U	0.3	mg/kg							U
Benzo[a]anthracene	U	0.04	mg/kg							U
Chrysene	U	0.02	mg/kg							U
Benzo[b]fluoranthene	U	0.04	mg/kg							U
Benzo[k]fluoranthene	U	0.02	mg/kg							U
Benzo[a]pyrene	U	0.05	mg/kg							U
Dibenz[a,h]anthracene	U	0.08	mg/kg							U
Indeno[1,2,3-cd]pyrene	U	0.04	mg/kg							U
Benzo[g,h,i]perylene	U	0.3	mg/kg							U
Surrogate: Nitrobenzene-d5	*0.404*		*mg/kg*	*0.5000*		*80.8*	*47-131*			
Surrogate: 2-Fluorobiphenyl	*0.532*		*mg/kg*	*0.5000*		*106*	*51-134*			
Surrogate: p-Terphenyl-d14	*0.482*		*mg/kg*	*0.5000*		*96.3*	*59-145*			
LCS (B608161-BS1)				Prepared: 08/16/16 Analyzed: 08/17/16						
Naphthalene	2.2	0.3	mg/kg	2.000		112	60-135			
Acenaphthylene	2.2	0.3	mg/kg	2.000		108	60-135			
Pyrene	2.0	0.3	mg/kg	2.000		100	60-135			
4-Chloro-3-methylphenol	2.2	0.3	mg/kg	2.000		112	60-135			
Di-n-octylphthalate	2.1	0.3	mg/kg	2.000		107	60-135			
Hexachlorobenzene	2.1	0.002	mg/kg	2.000		105	60-135			
2-Methylphenol	2.2	0.3	mg/kg	2.000		109	60-135			
Nitrobenzene	2.2	0.3	mg/kg	2.000		111	60-135			
Surrogate: Nitrobenzene-d5	*0.524*		*mg/kg*	*0.5000*		*105*	*60-135*			
Surrogate: 2-Fluorobiphenyl	*0.624*		*mg/kg*	*0.5000*		*125*	*60-135*			
Surrogate: p-Terphenyl-d14	*0.495*		*mg/kg*	*0.5000*		*99.0*	*60-135*			
LCS Dup (B608161-BSD1)				Prepared: 08/16/16 Analyzed: 08/17/16						
Naphthalene	2.2	0.3	mg/kg	2.000		112	60-135	0.514	25	
Acenaphthylene	2.1	0.3	mg/kg	2.000		106	60-135	1.19	25	

CERTIFICATE OF ANALYSIS

Terracon WPB
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LOG #: 0014692
COC#: 23392
REPORTED: 8/19/2016 8:50:12AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8100 PAH List - Quality Control										
Batch B608161 - EPA 3545										
LCS Dup (B608161-BSD1) Continued				Prepared: 08/16/16 Analyzed: 08/17/16						
Pyrene	2.3	0.3	mg/kg	2.000		116	60-135	14.4	25	
4-Chloro-3-methylphenol	2.3	0.3	mg/kg	2.000		117	60-135	4.81	25	
Di-n-octylphthalate	2.3	0.3	mg/kg	2.000		114	60-135	6.59	25	
Hexachlorobenzene	2.3	0.002	mg/kg	2.000		116	60-135	9.40	25	
2-Methylphenol	2.2	0.3	mg/kg	2.000		112	60-135	2.95	25	
Nitrobenzene	2.3	0.3	mg/kg	2.000		115	60-135	3.57	25	
Surrogate: Nitrobenzene-d5	*0.579*		*mg/kg*	*0.5000*		*116*	*60-135*			
Surrogate: 2-Fluorobiphenyl	*0.624*		*mg/kg*	*0.5000*		*125*	*60-135*			
Surrogate: p-Terphenyl-d14	*0.560*		*mg/kg*	*0.5000*		*112*	*60-135*			
Calibration Check (B608161-CCV1)				Prepared: 08/16/16 Analyzed: 08/17/16						
Naphthalene	2.0		mg/kg	2.000		97.7	85-115			I
Acenaphthylene	2.0		mg/kg	2.000		101	85-115			I
Pyrene	2.1		mg/kg	2.000		104	85-115			I
4-Chloro-3-methylphenol	2.2		mg/kg	2.000		111	85-115			I
Di-n-octylphthalate	2.1		mg/kg	2.000		106	85-115			I
Hexachlorobenzene	2.1		mg/kg	2.000		103	85-115			
2-Methylphenol	1.9		mg/kg	2.000		92.8	85-115			I
Nitrobenzene	2.1		mg/kg	2.000		104	85-115			I
Surrogate: Nitrobenzene-d5	*0.532*		*mg/kg*	*0.5000*		*106*	*0-200*			
Surrogate: 2-Fluorobiphenyl	*0.633*		*mg/kg*	*0.5000*		*127*	*0-200*			
Surrogate: p-Terphenyl-d14	*0.616*		*mg/kg*	*0.5000*		*123*	*0-200*			
Duplicate (B608161-DUP1)		**Source: 0014692-05**		Prepared: 08/16/16 Analyzed: 08/17/16						
Naphthalene	U	0.3	mg/kg		U				200	U
Acenaphthylene	U	0.3	mg/kg		U				200	U
Pyrene	U	0.3	mg/kg		U				200	U
4-Chloro-3-methylphenol	U	0.3	mg/kg		U				200	U
Di-n-octylphthalate	U	0.3	mg/kg		U				200	U
Hexachlorobenzene	U	0.002	mg/kg		U				200	U
2-Methylphenol	U	0.3	mg/kg		U				200	U
Nitrobenzene	U	0.3	mg/kg		U				200	U
Surrogate: Nitrobenzene-d5	*0.392*		*mg/kg*	*0.5000*		*78.5*	*47-131*			
Surrogate: 2-Fluorobiphenyl	*0.454*		*mg/kg*	*0.5000*		*90.8*	*51-134*			
Surrogate: p-Terphenyl-d14	*0.408*		*mg/kg*	*0.5000*		*81.6*	*59-145*			
Matrix Spike (B608161-MS1)		**Source: 0014692-05**		Prepared: 08/16/16 Analyzed: 08/17/16						
Naphthalene	2.1	0.3	mg/kg	2.000	U	107	60-135			
Acenaphthylene	2.1	0.3	mg/kg	2.000	U	104	60-135			

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LOG #: 0014692
COC#: 23392
REPORTED: 8/19/2016 8:50:12AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8100 PAH List - Quality Control										
Batch B608161 - EPA 3545										
Matrix Spike (B608161-MS1) Continued		**Source: 0014692-05**		Prepared: 08/16/16 Analyzed: 08/17/16						
Pyrene	2.1	0.3	mg/kg	2.000	U	104	60-135			
4-Chloro-3-methylphenol	2.0	0.3	mg/kg	2.000	U	99.5	60-135			
Di-n-octylphthalate	2.0	0.3	mg/kg	2.000	U	102	60-135			
Hexachlorobenzene	2.2	0.002	mg/kg	2.000	U	110	60-135			
2-Methylphenol	2.1	0.3	mg/kg	2.000	U	107	60-135			
Nitrobenzene	2.0	0.3	mg/kg	2.000	U	100	60-135			
Surrogate: Nitrobenzene-d5	*0.544*		*mg/kg*	*0.5000*		*109*	*60-135*			
Surrogate: 2-Fluorobiphenyl	*0.567*		*mg/kg*	*0.5000*		*113*	*60-135*			
Surrogate: p-Terphenyl-d14	*0.512*		*mg/kg*	*0.5000*		*102*	*60-135*			
Matrix Spike Dup (B608161-MSD1)		**Source: 0014692-05**		Prepared: 08/16/16 Analyzed: 08/17/16						
Naphthalene	2.1	0.3	mg/kg	2.000	U	105	60-135	1.60	25	
Acenaphthylene	2.2	0.3	mg/kg	2.000	U	109	60-135	4.88	25	
Pyrene	2.1	0.3	mg/kg	2.000	U	103	60-135	0.946	25	
4-Chloro-3-methylphenol	2.1	0.3	mg/kg	2.000	U	106	60-135	6.47	25	
Di-n-octylphthalate	2.0	0.3	mg/kg	2.000	U	99.3	60-135	2.83	25	
Hexachlorobenzene	2.1	0.002	mg/kg	2.000	U	107	60-135	3.32	25	
2-Methylphenol	2.1	0.3	mg/kg	2.000	U	103	60-135	3.71	25	
Nitrobenzene	2.2	0.3	mg/kg	2.000	U	112	60-135	10.8	25	
Surrogate: Nitrobenzene-d5	*0.523*		*mg/kg*	*0.5000*		*105*	*60-135*			
Surrogate: 2-Fluorobiphenyl	*0.547*		*mg/kg*	*0.5000*		*109*	*60-135*			
Surrogate: p-Terphenyl-d14	*0.530*		*mg/kg*	*0.5000*		*106*	*60-135*			
Batch B608164 - EPA 3510C										
Blank (B608164-BLK1)				Prepared: 08/17/16 Analyzed: 08/18/16						
Naphthalene	U	10.0	ug/L							U
2-Methylnaphthalene	U	10.0	ug/L							U
1-Methylnaphthalene	U	10.0	ug/L							U
Acenaphthylene	U	10.0	ug/L							U
Acenaphthene	U	10.0	ug/L							U
Fluorene	U	10.0	ug/L							U
Phenanthrene	U	10.0	ug/L							U
Anthracene	U	0.0300	ug/L							U
Fluoranthene	U	0.0300	ug/L							U
Pyrene	U	10.0	ug/L							U
Benzo[a]anthracene	U	0.0500	ug/L							U
Chrysene	U	0.200	ug/L							U
Benzo[b]fluoranthene	U	0.0500	ug/L							U

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LOG #: 0014692
COC#: 23392
REPORTED: 8/19/2016 8:50:12AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8100 PAH List - Quality Control										
Batch B608164 - EPA 3510C										
Blank (B608164-BLK1) Continued				Prepared: 08/17/16 Analyzed: 08/18/16						
Benzo[k]fluoranthene	U	0.500	ug/L							U
Benzo[a]pyrene	U	0.200	ug/L							U
Dibenz[a,h]anthracene	U	0.0500	ug/L							U
Indeno[1,2,3-cd]pyrene	U	0.0500	ug/L							U
Benzo[g,h,i]perylene	U	10.0	ug/L							U
Surrogate: Nitrobenzene-d5	*10*		*ug/L*	*10.00*		*102*	*40-142*			
Surrogate: 2-Fluorobiphenyl	*8.2*		*ug/L*	*10.00*		*82.5*	*47-150*			
Surrogate: p-Terphenyl-d14	*10*		*ug/L*	*10.00*		*100*	*55-165*			
LCS (B608164-BS1)				Prepared: 08/17/16 Analyzed: 08/18/16						
Naphthalene	42.2	10.0	ug/L	40.00		106	60-135			
Acenaphthylene	43.0	10.0	ug/L	40.00		108	60-135			
Pyrene	42.3	10.0	ug/L	40.00		106	60-135			
4-Chloro-3-methylphenol	44.1	10.0	ug/L	40.00		110	60-135			
Di-n-octylphthalate	42.0	10.0	ug/L	40.00		105	60-135			
Hexachlorobenzene	42.3	10.0	ug/L	40.00		106	60-135			
2-Methylphenol	43.5	10.0	ug/L	40.00		109	60-135			
Nitrobenzene	44.4	10.0	ug/L	40.00		111	60-135			
Surrogate: Nitrobenzene-d5	*11*		*ug/L*	*10.00*		*109*	*60-135*			
Surrogate: 2-Fluorobiphenyl	*12*		*ug/L*	*10.00*		*115*	*60-135*			
Surrogate: p-Terphenyl-d14	*9.9*		*ug/L*	*10.00*		*99.2*	*60-135*			
LCS Dup (B608164-BSD1)				Prepared: 08/17/16 Analyzed: 08/18/16						
Naphthalene	44.2	10.0	ug/L	40.00		110	60-135	4.47	20	
Acenaphthylene	43.9	10.0	ug/L	40.00		110	60-135	2.12	20	
Pyrene	46.6	10.0	ug/L	40.00		117	60-135	9.79	20	
4-Chloro-3-methylphenol	44.0	10.0	ug/L	40.00		110	60-135	0.363	200	
Di-n-octylphthalate	42.7	10.0	ug/L	40.00		107	60-135	1.63	200	
Hexachlorobenzene	44.9	10.0	ug/L	40.00		112	60-135	5.97	200	
2-Methylphenol	45.7	10.0	ug/L	40.00		114	60-135	4.82	200	
Nitrobenzene	41.7	10.0	ug/L	40.00		104	60-135	6.18	200	
Surrogate: Nitrobenzene-d5	*12*		*ug/L*	*10.00*		*119*	*60-135*			
Surrogate: 2-Fluorobiphenyl	*13*		*ug/L*	*10.00*		*130*	*60-135*			
Surrogate: p-Terphenyl-d14	*11*		*ug/L*	*10.00*		*112*	*60-135*			
Calibration Check (B608164-CCV1)				Prepared: 08/17/16 Analyzed: 08/18/16						
Naphthalene	43.6		ug/L	45.00		96.9	85-115			
Acenaphthylene	45.7		ug/L	45.00		102	85-115			
Pyrene	43.9		ug/L	45.00		97.6	85-115			

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LOG #: 0014692
COC#: 23392
REPORTED: 8/19/2016 8:50:12AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8100 PAH List - Quality Control										
Batch B608164 - EPA 3510C										
Calibration Check (B608164-CCV1) Continued				Prepared: 08/17/16 Analyzed: 08/18/16						
4-Chloro-3-methylphenol	46.1		ug/L	45.00		102	85-115			
Di-n-octylphthalate	43.6		ug/L	45.00		96.8	85-115			
Hexachlorobenzene	47.7		ug/L	45.00		106	85-115			
2-Methylphenol	43.7		ug/L	45.00		97.2	85-115			
Nitrobenzene	46.7		ug/L	45.00		104	85-115			
Surrogate: Nitrobenzene-d5	*13*		*ug/L*	*15.00*		*86.8*	*0-200*			
Surrogate: 2-Fluorobiphenyl	*15*		*ug/L*	*15.00*		*97.5*	*0-200*			
Surrogate: p-Terphenyl-d14	*15*		*ug/L*	*15.00*		*103*	*0-200*			
Duplicate (B608164-DUP1)		**Source: 0014692-01**		Prepared: 08/17/16 Analyzed: 08/18/16						
Naphthalene	U	10.0	ug/L		U				200	U
Acenaphthylene	U	10.0	ug/L		U				200	U
Pyrene	U	10.0	ug/L		U				200	U
4-Chloro-3-methylphenol	U	10.0	ug/L		U				200	U
Di-n-octylphthalate	U	10.0	ug/L		U				200	U
Hexachlorobenzene	U	10.0	ug/L		U				200	U
2-Methylphenol	U	10.0	ug/L		U				200	U
Nitrobenzene	U	10.0	ug/L		U				200	U
Surrogate: Nitrobenzene-d5	*8.4*		*ug/L*	*10.00*		*84.0*	*40-142*			
Surrogate: 2-Fluorobiphenyl	*8.4*		*ug/L*	*10.00*		*84.2*	*47-150*			
Surrogate: p-Terphenyl-d14	*9.0*		*ug/L*	*10.00*		*90.1*	*55-165*			
Matrix Spike (B608164-MS1)		**Source: 0014692-01**		Prepared: 08/17/16 Analyzed: 08/18/16						
Naphthalene	42.3	10.0	ug/L	40.00	U	106	60-135			
Acenaphthylene	43.0	10.0	ug/L	40.00	U	107	60-135			
Pyrene	44.5	10.0	ug/L	40.00	U	111	60-135			
4-Chloro-3-methylphenol	46.2	10.0	ug/L	40.00	U	115	60-135			
Di-n-octylphthalate	42.0	10.0	ug/L	40.00	U	105	60-135			
Hexachlorobenzene	46.1	10.0	ug/L	40.00	U	115	60-135			
2-Methylphenol	43.5	10.0	ug/L	40.00	U	109	60-135			
Nitrobenzene	46.1	10.0	ug/L	40.00	U	115	60-135			
Surrogate: Nitrobenzene-d5	*12*		*ug/L*	*10.00*		*120*	*60-135*			
Surrogate: 2-Fluorobiphenyl	*12*		*ug/L*	*10.00*		*124*	*60-135*			
Surrogate: p-Terphenyl-d14	*12*		*ug/L*	*10.00*		*118*	*60-135*			
Matrix Spike Dup (B608164-MSD1)		**Source: 0014692-01**		Prepared: 08/17/16 Analyzed: 08/18/16						
Naphthalene	41.7	10.0	ug/L	40.00	U	104	60-135	1.31	20	
Acenaphthylene	42.1	10.0	ug/L	40.00	U	105	60-135	2.00	20	
Pyrene	43.0	10.0	ug/L	40.00	U	107	60-135	3.45	20	

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LOG #: 0014692
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REPORTED: 8/19/2016 8:50:12AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8100 PAH List - Quality Control										
Batch B608164 - EPA 3510C										
Matrix Spike Dup (B608164-MSD1) Continued			**Source: 0014692-01**	Prepared: 08/17/16 Analyzed: 08/18/16						
4-Chloro-3-methylphenol	42.2	10.0	ug/L	40.00	U	106	60-135	8.98	20	
Di-n-octylphthalate	43.3	10.0	ug/L	40.00	U	108	60-135	3.05	20	
Hexachlorobenzene	45.0	10.0	ug/L	40.00	U	112	60-135	2.42	20	
2-Methylphenol	40.4	10.0	ug/L	40.00	U	101	60-135	7.32	20	
Nitrobenzene	41.4	10.0	ug/L	40.00	U	103	60-135	10.7	20	
Surrogate: Nitrobenzene-d5	*10*		*ug/L*	*10.00*		*102*	*60-135*			
Surrogate: 2-Fluorobiphenyl	*11*		*ug/L*	*10.00*		*112*	*60-135*			
Surrogate: p-Terphenyl-d14	*10*		*ug/L*	*10.00*		*103*	*60-135*			
FLPRO - Quality Control										
Batch B608162 - EPA 3545										
Blank (B608162-BLK1)				Prepared & Analyzed: 08/16/16						
FLPRO Total	U	0.240	mg/kg							U
Surrogate: o-Terphenyl	*2.44*		*mg/kg*	*2.500*		*97.7*	*70-130*			
Surrogate: Nonatriacontane	*15.9*		*mg/kg*	*15.00*		*106*	*42-193*			
LCS (B608162-BS1)				Prepared & Analyzed: 08/16/16						
FLPRO Total	48.1	0.240	mg/kg	68.00		70.7	60-120			
Surrogate: o-Terphenyl	*2.29*		*mg/kg*	*2.500*		*91.5*	*70-130*			
Surrogate: Nonatriacontane	*16.4*		*mg/kg*	*15.00*		*109*	*42-193*			
LCS Dup (B608162-BSD1)				Prepared & Analyzed: 08/16/16						
FLPRO Total	48.4	0.240	mg/kg	68.00		71.1	60-120	0.593	30	
Surrogate: o-Terphenyl	*2.96*		*mg/kg*	*2.500*		*118*	*70-130*			
Surrogate: Nonatriacontane	*16.7*		*mg/kg*	*15.00*		*112*	*42-193*			
Calibration Check (B608162-CCV1)				Prepared & Analyzed: 08/16/16						
FLPRO Total	53.6		mg/kg	59.50		90.1	80-120			
Surrogate: o-Terphenyl	*2.47*		*mg/kg*	*2.500*		*98.7*	*0-200*			
Surrogate: Nonatriacontane	*16.5*		*mg/kg*	*15.00*		*110*	*0-200*			
Calibration Check (B608162-CCV2)				Prepared & Analyzed: 08/16/16						
FLPRO Total	49.1		mg/kg	59.50		82.6	80-120			
Surrogate: o-Terphenyl	*2.81*		*mg/kg*	*2.500*		*113*	*0-200*			
Surrogate: Nonatriacontane	*18.3*		*mg/kg*	*15.00*		*122*	*0-200*			
Duplicate (B608162-DUP1)			**Source: 0014692-05**	Prepared & Analyzed: 08/16/16						
FLPRO Total	U	0.240	mg/kg		U				20	U
Surrogate: o-Terphenyl	*2.03*		*mg/kg*	*2.500*		*81.1*	*70-130*			

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COC#: 23392
REPORTED: 8/19/2016 8:50:12AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
FLPRO - Quality Control										
Batch B608162 - EPA 3545										
Duplicate (B608162-DUP1) Continued		**Source: 0014692-05**		Prepared & Analyzed: 08/16/16						
Surrogate: Nonatriacontane	*17.0*		*mg/kg*	*15.00*		*113*	*42-193*			
Matrix Spike (B608162-MS1)		**Source: 0014692-05**		Prepared & Analyzed: 08/16/16						
FLPRO Total	45.0	0.240	mg/kg	68.00	U	66.2	40-155			
Surrogate: o-Terphenyl	*2.13*		*mg/kg*	*2.500*		*85.2*	*70-130*			
Surrogate: Nonatriacontane	*13.9*		*mg/kg*	*15.00*		*92.8*	*42-193*			
Matrix Spike Dup (B608162-MSD1)		**Source: 0014692-05**		Prepared & Analyzed: 08/16/16						
FLPRO Total	47.4	0.240	mg/kg	68.00	U	69.7	40-155	5.11	30	
Surrogate: o-Terphenyl	*2.25*		*mg/kg*	*2.500*		*90.2*	*70-130*			
Surrogate: Nonatriacontane	*15.2*		*mg/kg*	*15.00*		*102*	*42-193*			
Batch B608165 - EPA 3510C										
Blank (B608165-BLK1)				Prepared & Analyzed: 08/17/16						
FLPRO Total	U	0.500	mg/L							U
Surrogate: o-Terphenyl	*0.0590*		*mg/L*	*0.05000*		*118*	*70-130*			
Surrogate: Nonatriacontane	*0.388*		*mg/L*	*0.3000*		*129*	*42-193*			
LCS (B608165-BS1)				Prepared & Analyzed: 08/17/16						
FLPRO Total	1.19	0.500	mg/L	1.360		87.3	60-120			
Surrogate: o-Terphenyl	*0.0599*		*mg/L*	*0.05000*		*120*	*70-130*			
Surrogate: Nonatriacontane	*0.416*		*mg/L*	*0.3000*		*139*	*42-193*			
LCS Dup (B608165-BSD1)				Prepared & Analyzed: 08/17/16						
FLPRO Total	1.31	0.500	mg/L	1.360		96.2	60-120	9.71	30	
Surrogate: o-Terphenyl	*0.0574*		*mg/L*	*0.05000*		*115*	*70-130*			
Surrogate: Nonatriacontane	*0.450*		*mg/L*	*0.3000*		*150*	*42-193*			
Calibration Check (B608165-CCV1)				Prepared & Analyzed: 08/17/16						
FLPRO Total	1.09		mg/L	1.360		80.2	70-130			
Surrogate: o-Terphenyl	*0.0561*		*mg/L*	*0.05000*		*112*	*0-200*			
Surrogate: Nonatriacontane	*0.292*		*mg/L*	*0.3000*		*97.3*	*0-200*			
Calibration Check (B608165-CCV2)				Prepared: 08/17/16 Analyzed: 08/18/16						
FLPRO Total	1.14		mg/L	1.360		84.1	70-130			
Surrogate: o-Terphenyl	*0.0587*		*mg/L*	*0.05000*		*117*	*0-200*			
Surrogate: Nonatriacontane	*0.350*		*mg/L*	*0.3000*		*117*	*0-200*			
Duplicate (B608165-DUP1)		**Source: 0014692-01**		Prepared & Analyzed: 08/17/16						
FLPRO Total	0.073	0.500	mg/L		0.062			16.9	200	I
Surrogate: o-Terphenyl	*0.0592*		*mg/L*	*0.05000*		*118*	*70-130*			

Palm Beach Environmental Laboratories Inc.

CERTIFICATE OF ANALYSIS

Terracon WPB
1225 Omar Road
West Palm Beach, FL 33405
ATTN: Andrew Petric
PHONE: (561) 689-4299 **FAX:** (561) 689-5955

LOG #: 0014692
COC#: 23392
REPORTED: 8/19/2016 8:50:12AM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
FLPRO - Quality Control										
Batch B608165 - EPA 3510C										
Duplicate (B608165-DUP1) Continued			**Source: 0014692-01**	Prepared & Analyzed: 08/17/16						
Surrogate: Nonatriacontane	*0.238*		*mg/L*	*0.3000*		*79.3*	*42-193*			
Matrix Spike (B608165-MS1)			**Source: 0014692-01**	Prepared & Analyzed: 08/17/16						
FLPRO Total	1.05	0.500	mg/L	1.360	0.062	72.4	40-155			
Surrogate: o-Terphenyl	*0.0534*		*mg/L*	*0.05000*		*107*	*70-130*			
Surrogate: Nonatriacontane	*0.205*		*mg/L*	*0.3000*		*68.5*	*42-193*			
Matrix Spike Dup (B608165-MSD1)			**Source: 0014692-01**	Prepared: 08/17/16 Analyzed: 08/18/16						
FLPRO Total	1.11	0.500	mg/L	1.360	0.062	77.1	40-155	5.91	30	
Surrogate: o-Terphenyl	*0.0548*		*mg/L*	*0.05000*		*110*	*70-130*			
Surrogate: Nonatriacontane	*0.229*		*mg/L*	*0.3000*		*76.4*	*42-193*			

Notes and Definitions

U	Analyte included in the analysis, but not detected
I	The reported value is between the laboratory Method Detection Limit & the laboratory Practical Quantitation Limit

Palm Beach Environmental Laboratories, Inc.

Fac# 56/8514018

Log #: 14692
PO #:
Quote #:
FDEP : ✓

CHAIN OF CUSTODY RECORD

Company Name: Terracon
Address: 1225 Omar Rd
City: WPB State: FL Zip: 33405
Attn: Andrew Petrie Phone#: 689-4299
email: andrew.petrie@terracon.com Fax#: 689 5955
Project Name: Palmtran Proj#: H0167057
Sampler Signature / Name: Randall Murphy / Randall Murphy

LAB ANALYSIS

#	Sample Label (Client ID)	Collect Date	Collect Time	Matrix	Field Filtered	Integrity OK	Total # of containers	pH	Parameters: BTEX MTBE 8260	Parameters: PAH 8270	Parameters: TRPH by FL PRO	Parameters: PH FL PRO
	PRES CODE								I	I	IE	
1	GP-1	8/11/16	1220	GW	-		4		X	X	X	<2
2	Duplicate	"	1220	GW	-		4		X	X	X	<2
3	GP-2	"	1245	GW	-		4		X	X	X	<2
4	SB 35 (4')	"	1220	SC	-		3		X	X	X	
5	SB-39 (3')	"	1420	SC	-		3		X	X	X	
6												
7												
8												
9												
10												

Matrix Codes

SD	Solid Waste	OL	Oil
GW	Ground Water	SL	Sludge
EFF	Effluent	SO	Soil Sediment
AFW	Analyle Free H2O	AQ	Aqueous
WW	Waste Water	NA	Nonaqueous
DW	Drinking Water		
SW	Surface Water	O	Other (Please Specify)

Press Codes

A. None	E. HCL	O. Other
B. HNO3	F. MeOH	
C. H2SO4	G. Na2S2O3	
D. NaOH	I. Ice	

T.A.T. Request: Standard (Y/N) — RUSH: 24 Hour / 48 Hour Date Due:

QA/QC Report Level: None ___ 1 ___ 2 X 3 ___ Other ADaPT

COC OK: (Y) N **Initials:** DM

Item	Relinquished by	Affiliation	Date	Time	Received By	Affiliation	Date	Time
ALL	Randall Murphy	Terracon	8/11/16	1430	Andrew Petrie	Terracon	8/11/16	1430
ALL	Andrew Petrie	"	8/11/16	1438	Magal	PBEL	8/11/16	1438

Lab Use Only

	Yes	No	N/A
Sample INTACT upon arrival?	✓		
Received on Wet Ice? Temp 4.2 °C	✓		
Proper Preservatives Indicated?	✓		
Received within holding time?	✓		
Custody seals intact?	✓		
Volatile rec'd without headspace?	✓		
Proper Containers Used?	✓		

1550 Latham Road, Suite 2 • West Palm Beach, FL 33409 • Tel: (561) 689-6701 • Fax: (561) 689-6702

COC# 23392

Palm Beach Environmental Laboratories Inc.

Andrew Petric
Terracon WPB
West Palm Beach, FL 33405
(561) 689-4299
LOG #: 0014701

August 22, 2016

Enclosed is the laboratory report for your project. All results meet the requirements of the NELAC standards.

Please note the following:

(1) The samples were received as stated on the chain of custody, correctly labeled and at the proper temperature unless otherwise noted. The results contained in this report relate only to the items tested or to the samples as received by the laboratory.

(2) This report may not be reproduced except in full, without the written approval of the laboratory. Any anomalies are noted in the case narrative.

(3) Results for all solid matrices are reported in dry weight unless otherwise noted.

(4) Results for all liquid matrices are analyzed as received in the laboratory unless otherwise noted.

(5) Samples are disposed of within 30 days of their receipt by the laboratory.

(6) A statement of Qualifiers is available upon request.

(7) Certain analyses are subcontracted to outside NELAC certified laboratories and are designated on your report.

(8) Precision & Accuracy will be provided when clients require a measure of estimated uncertainty.

(9) The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report Preliminary Data should not be used for regular purposes. Authorized signature(s) is provided on final report only

Please contact me if you have any questions or concerns regarding this report.

Sincerely,

Pamela Shore
QA Officer

Palm Beach Environmental Laboratories Inc.

CERTIFICATE OF ANALYSIS

Terracon WPB
1225 Omar Road
West Palm Beach, FL 33405
ATTN: Andrew Petric
PHONE: (561) 689-4299 **FAX:** (561) 689-5955

LOG #: 0014701
COC#: 23391
REPORTED: 8/22/2016 4:34:50PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: MW 6 **Lab ID:** 0014701-01 **Sampled:** 08/15/16 09:14
Matrix: Water **Sampled By:** Randall Murphy **Received:** 08/15/16 16:31

EPA 8020 List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
71-43-2	Benzene	0.640	U	ug/L	EPA 8260C	1	0.640	1.00	08/19/16	08/19/16	PLS
108-88-3	Toluene	0.660	U	ug/L	EPA 8260C	1	0.660	1.00	08/19/16	08/19/16	PLS
108-90-7	Chlorobenzene	0.670	U	ug/L	EPA 8260C	1	0.670	1.00	08/19/16	08/19/16	PLS
100-41-4	Ethylbenzene	0.730	U	ug/L	EPA 8260C	1	0.730	1.00	08/19/16	08/19/16	PLS
108-38-3/106-42-3	m,p-Xylene	0.760	U	ug/L	EPA 8260C	1	0.760	1.00	08/19/16	08/19/16	PLS
95-47-6	o-Xylene	0.870	U	ug/L	EPA 8260C	1	0.870	1.00	08/19/16	08/19/16	PLS
541-73-1	1,3-Dichlorobenzene	0.310	U	ug/L	EPA 8260C	1	0.310	1.00	08/19/16	08/19/16	PLS
106-46-7	1,4-Dichlorobenzene	0.510	U	ug/L	EPA 8260C	1	0.510	1.00	08/19/16	08/19/16	PLS
95-50-1	1,2-Dichlorobenzene	0.510	U	ug/L	EPA 8260C	1	0.510	1.00	08/19/16	08/19/16	PLS
1634-04-4	MTBE	0.530	U	ug/L	EPA 8260C	1	0.530	1.00	08/19/16	08/19/16	PLS

		% Recovery	Q	% Recovery Limits
1868-53-7	Surrogate: Dibromofluoromethane	122 %		Limit 62-200
2037-26-5	Surrogate: Toluene-d8	98.1 %		Limit 63-144
460-00-4	Surrogate: 4-Bromofluorobenzene	103 %		Limit 50-155

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
91-20-3	Naphthalene	0.147	U	ug/L	EPA 3510C / 8270	1	0.147	10.0	08/17/16	08/17/16	PLS
91-57-6	2-Methylnaphthalene	0.288	U	ug/L	EPA 3510C / 8270	1	0.288	10.0	08/17/16	08/17/16	PLS
90-12-0	1-Methylnaphthalene	0.285	U	ug/L	EPA 3510C / 8270	1	0.285	10.0	08/17/16	08/17/16	PLS
208-96-8	Acenaphthylene	0.393	U	ug/L	EPA 3510C / 8270	1	0.393	10.0	08/17/16	08/17/16	PLS
83-32-9	Acenaphthene	0.188	U	ug/L	EPA 3510C / 8270	1	0.188	10.0	08/17/16	08/17/16	PLS
86-73-7	Fluorene	0.217	U	ug/L	EPA 3510C / 8270	1	0.217	10.0	08/17/16	08/17/16	PLS
85-01-8	Phenanthrene	0.215	U	ug/L	EPA 3510C / 8270	1	0.215	10.0	08/17/16	08/17/16	PLS
120-12-7	Anthracene	0.0100	U	ug/L	EPA 3510C / 8270	1	0.0100	0.0300	08/17/16	08/17/16	PLS
206-44-0	Fluoranthene	0.0100	U	ug/L	EPA 3510C / 8270	1	0.0100	0.0300	08/17/16	08/17/16	PLS
129-00-0	Pyrene	0.409	U	ug/L	EPA 3510C / 8270	1	0.409	10.0	08/17/16	08/17/16	PLS
56-55-3	Benzo[a]anthracene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS
218-01-9	Chrysene	0.169	U	ug/L	EPA 3510C / 8270	1	0.169	0.200	08/17/16	08/17/16	PLS
205-99-2	Benzo[b]fluoranthene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS
207-08-9	Benzo[k]fluoranthene	0.500	U	ug/L	EPA 3510C / 8270	1	0.500	0.500	08/17/16	08/17/16	PLS
50-32-8	Benzo[a]pyrene	0.200	U	ug/L	EPA 3510C / 8270	1	0.200	0.200	08/17/16	08/17/16	PLS
53-70-3	Dibenz[a,h]anthracene	0.0050	U	ug/L	EPA 3510C / 8270	1	0.0050	0.0500	08/17/16	08/17/16	PLS
193-39-5	Indeno[1,2,3-cd]pyrene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS

Palm Beach Environmental Laboratories Inc.

CERTIFICATE OF ANALYSIS

Terracon WPB
1225 Omar Road
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LOG #: 0014701
COC#: 23391
REPORTED: 8/22/2016 4:34:50PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: MW 6 **Lab ID:** 0014701-01 **Sampled:** 08/15/16 09:14
Matrix: Water **Sampled By:** Randall Murphy **Received:** 08/15/16 16:31

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
191-24-2	Benzo[g,h,i]perylene	0.341	U	ug/L	EPA 3510C / 8270	1	0.341	10.0	08/17/16	08/17/16	PLS

		% Recovery	Q	% Recovery Limits
NA	Surrogate: Nitrobenzene-d5	79.3 %		Limit 40-142
321-60-8	Surrogate: 2-Fluorobiphenyl	87.3 %		Limit 47-150
NA	Surrogate: p-Terphenyl-d14	88.4 %		Limit 55-165

FLPRO

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
NA	FLPRO Total	0.040	U	mg/L	EPA 3510C /RO	1	0.040	0.500	08/17/16	08/17/16	PLS

		% Recovery	Q	% Recovery Limits
84-15-1	Surrogate: o-Terphenyl	103 %		Limit 70-130
7194-86-7	Surrogate: Nonatriacontane	72.1 %		Limit 42-193

Palm Beach Environmental Laboratories Inc.

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LOG #: 0014701
COC#: 23391
REPORTED: 8/22/2016 4:34:50PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: MW 7 **Lab ID:** 0014701-02 **Sampled:** 08/15/16 10:04
Matrix: Water **Sampled By:** Randall Murphy **Received:** 08/15/16 16:31

EPA 8020 List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
71-43-2	Benzene	0.640	U	ug/L	EPA 8260C	1	0.640	1.00	08/19/16	08/19/16	PLS
108-88-3	Toluene	0.660	U	ug/L	EPA 8260C	1	0.660	1.00	08/19/16	08/19/16	PLS
108-90-7	Chlorobenzene	0.670	U	ug/L	EPA 8260C	1	0.670	1.00	08/19/16	08/19/16	PLS
100-41-4	Ethylbenzene	0.730	U	ug/L	EPA 8260C	1	0.730	1.00	08/19/16	08/19/16	PLS
108-38-3/106-42-3	m,p-Xylene	0.760	U	ug/L	EPA 8260C	1	0.760	1.00	08/19/16	08/19/16	PLS
95-47-6	o-Xylene	0.870	U	ug/L	EPA 8260C	1	0.870	1.00	08/19/16	08/19/16	PLS
541-73-1	1,3-Dichlorobenzene	0.310	U	ug/L	EPA 8260C	1	0.310	1.00	08/19/16	08/19/16	PLS
106-46-7	1,4-Dichlorobenzene	0.510	U	ug/L	EPA 8260C	1	0.510	1.00	08/19/16	08/19/16	PLS
95-50-1	1,2-Dichlorobenzene	0.510	U	ug/L	EPA 8260C	1	0.510	1.00	08/19/16	08/19/16	PLS
1634-04-4	MTBE	0.530	U	ug/L	EPA 8260C	1	0.530	1.00	08/19/16	08/19/16	PLS

		% Recovery	Q	% Recovery Limits
1868-53-7	Surrogate: Dibromofluoromethane	117 %		Limit 62-200
2037-26-5	Surrogate: Toluene-d8	83.5 %		Limit 63-144
460-00-4	Surrogate: 4-Bromofluorobenzene	87.9 %		Limit 50-155

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
91-20-3	Naphthalene	0.147	U	ug/L	EPA 3510C / 8270	1	0.147	10.0	08/17/16	08/17/16	PLS
91-57-6	2-Methylnaphthalene	0.288	U	ug/L	EPA 3510C / 8270	1	0.288	10.0	08/17/16	08/17/16	PLS
90-12-0	1-Methylnaphthalene	0.285	U	ug/L	EPA 3510C / 8270	1	0.285	10.0	08/17/16	08/17/16	PLS
208-96-8	Acenaphthylene	0.393	U	ug/L	EPA 3510C / 8270	1	0.393	10.0	08/17/16	08/17/16	PLS
83-32-9	Acenaphthene	0.188	U	ug/L	EPA 3510C / 8270	1	0.188	10.0	08/17/16	08/17/16	PLS
86-73-7	Fluorene	0.217	U	ug/L	EPA 3510C / 8270	1	0.217	10.0	08/17/16	08/17/16	PLS
85-01-8	Phenanthrene	0.215	U	ug/L	EPA 3510C / 8270	1	0.215	10.0	08/17/16	08/17/16	PLS
120-12-7	Anthracene	0.0100	U	ug/L	EPA 3510C / 8270	1	0.0100	0.0300	08/17/16	08/17/16	PLS
206-44-0	Fluoranthene	0.0100	U	ug/L	EPA 3510C / 8270	1	0.0100	0.0300	08/17/16	08/17/16	PLS
129-00-0	Pyrene	0.409	U	ug/L	EPA 3510C / 8270	1	0.409	10.0	08/17/16	08/17/16	PLS
56-55-3	Benzo[a]anthracene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS
218-01-9	Chrysene	0.169	U	ug/L	EPA 3510C / 8270	1	0.169	0.200	08/17/16	08/17/16	PLS
205-99-2	Benzo[b]fluoranthene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS
207-08-9	Benzo[k]fluoranthene	0.500	U	ug/L	EPA 3510C / 8270	1	0.500	0.500	08/17/16	08/17/16	PLS
50-32-8	Benzo[a]pyrene	0.200	U	ug/L	EPA 3510C / 8270	1	0.200	0.200	08/17/16	08/17/16	PLS
53-70-3	Dibenz[a,h]anthracene	0.0050	U	ug/L	EPA 3510C / 8270	1	0.0050	0.0500	08/17/16	08/17/16	PLS
193-39-5	Indeno[1,2,3-cd]pyrene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS

Palm Beach Environmental Laboratories Inc.

CERTIFICATE OF ANALYSIS

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LOG #: 0014701
COC#: 23391
REPORTED: 8/22/2016 4:34:50PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: MW 7 **Lab ID:** 0014701-02 **Sampled:** 08/15/16 10:04
Matrix: Water **Sampled By:** Randall Murphy **Received:** 08/15/16 16:31

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
191-24-2	Benzo[g,h,i]perylene	0.341	U	ug/L	EPA 3510C / 8270	1	0.341	10.0	08/17/16	08/17/16	PLS

		% Recovery	Q	% Recovery Limits
NA	Surrogate: Nitrobenzene-d5	79.7 %		Limit 40-142
321-60-8	Surrogate: 2-Fluorobiphenyl	80.6 %		Limit 47-150
NA	Surrogate: p-Terphenyl-d14	76.7 %		Limit 55-165

FLPRO

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
NA	**FLPRO Total**	**0.341**	I	mg/L	EPA 3510C /RO	1	0.040	0.500	08/17/16	08/17/16	PLS

		% Recovery	Q	% Recovery Limits
84-15-1	Surrogate: o-Terphenyl	107 %		Limit 70-130
7194-86-7	Surrogate: Nonatriacontane	62.4 %		Limit 42-193

Palm Beach Environmental Laboratories Inc.

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LOG #: 0014701
COC#: 23391
REPORTED: 8/22/2016 4:34:50PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: MW 8 **Lab ID:** 0014701-03 **Sampled:** 08/15/16 10:57
Matrix: Water **Sampled By:** Randall Murphy **Received:** 08/15/16 16:31

EPA 8020 List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
71-43-2	Benzene	0.640	U	ug/L	EPA 8260C	1	0.640	1.00	08/19/16	08/19/16	PLS
108-88-3	Toluene	0.660	U	ug/L	EPA 8260C	1	0.660	1.00	08/19/16	08/19/16	PLS
108-90-7	Chlorobenzene	0.670	U	ug/L	EPA 8260C	1	0.670	1.00	08/19/16	08/19/16	PLS
100-41-4	Ethylbenzene	0.730	U	ug/L	EPA 8260C	1	0.730	1.00	08/19/16	08/19/16	PLS
108-38-3/106-42-3	m,p-Xylene	0.760	U	ug/L	EPA 8260C	1	0.760	1.00	08/19/16	08/19/16	PLS
95-47-6	o-Xylene	0.870	U	ug/L	EPA 8260C	1	0.870	1.00	08/19/16	08/19/16	PLS
541-73-1	1,3-Dichlorobenzene	0.310	U	ug/L	EPA 8260C	1	0.310	1.00	08/19/16	08/19/16	PLS
106-46-7	1,4-Dichlorobenzene	0.510	U	ug/L	EPA 8260C	1	0.510	1.00	08/19/16	08/19/16	PLS
95-50-1	1,2-Dichlorobenzene	0.510	U	ug/L	EPA 8260C	1	0.510	1.00	08/19/16	08/19/16	PLS
1634-04-4	MTBE	0.530	U	ug/L	EPA 8260C	1	0.530	1.00	08/19/16	08/19/16	PLS

		% Recovery	Q	% Recovery Limits
1868-53-7	Surrogate: Dibromofluoromethane	118 %		Limit 62-200
2037-26-5	Surrogate: Toluene-d8	88.8 %		Limit 63-144
460-00-4	Surrogate: 4-Bromofluorobenzene	104 %		Limit 50-155

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
91-20-3	Naphthalene	0.147	U	ug/L	EPA 3510C / 8270	1	0.147	10.0	08/17/16	08/17/16	PLS
91-57-6	2-Methylnaphthalene	0.288	U	ug/L	EPA 3510C / 8270	1	0.288	10.0	08/17/16	08/17/16	PLS
90-12-0	1-Methylnaphthalene	0.285	U	ug/L	EPA 3510C / 8270	1	0.285	10.0	08/17/16	08/17/16	PLS
208-96-8	Acenaphthylene	0.393	U	ug/L	EPA 3510C / 8270	1	0.393	10.0	08/17/16	08/17/16	PLS
83-32-9	Acenaphthene	0.188	U	ug/L	EPA 3510C / 8270	1	0.188	10.0	08/17/16	08/17/16	PLS
86-73-7	Fluorene	0.217	U	ug/L	EPA 3510C / 8270	1	0.217	10.0	08/17/16	08/17/16	PLS
85-01-8	Phenanthrene	0.215	U	ug/L	EPA 3510C / 8270	1	0.215	10.0	08/17/16	08/17/16	PLS
120-12-7	Anthracene	0.0100	U	ug/L	EPA 3510C / 8270	1	0.0100	0.0300	08/17/16	08/17/16	PLS
206-44-0	Fluoranthene	0.0100	U	ug/L	EPA 3510C / 8270	1	0.0100	0.0300	08/17/16	08/17/16	PLS
129-00-0	Pyrene	0.409	U	ug/L	EPA 3510C / 8270	1	0.409	10.0	08/17/16	08/17/16	PLS
56-55-3	Benzo[a]anthracene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS
218-01-9	Chrysene	0.169	U	ug/L	EPA 3510C / 8270	1	0.169	0.200	08/17/16	08/17/16	PLS
205-99-2	Benzo[b]fluoranthene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS
207-08-9	Benzo[k]fluoranthene	0.500	U	ug/L	EPA 3510C / 8270	1	0.500	0.500	08/17/16	08/17/16	PLS
50-32-8	Benzo[a]pyrene	0.200	U	ug/L	EPA 3510C / 8270	1	0.200	0.200	08/17/16	08/17/16	PLS
53-70-3	Dibenz[a,h]anthracene	0.0050	U	ug/L	EPA 3510C / 8270	1	0.0050	0.0500	08/17/16	08/17/16	PLS
193-39-5	Indeno[1,2,3-cd]pyrene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS

Palm Beach Environmental Laboratories Inc.

CERTIFICATE OF ANALYSIS

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LOG #: 0014701
COC#: 23391
REPORTED: 8/22/2016 4:34:50PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: MW 8 **Lab ID:** 0014701-03 **Sampled:** 08/15/16 10:57
Matrix: Water **Sampled By:** Randall Murphy **Received:** 08/15/16 16:31

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
191-24-2	Benzo[g,h,i]perylene	0.341	U	ug/L	EPA 3510C / 8270	1	0.341	10.0	08/17/16	08/17/16	PLS

		% Recovery	Q	% Recovery Limits
NA	Surrogate: Nitrobenzene-d5	89.2 %		Limit 40-142
321-60-8	Surrogate: 2-Fluorobiphenyl	82.5 %		Limit 47-150
NA	Surrogate: p-Terphenyl-d14	88.2 %		Limit 55-165

FLPRO

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
NA	FLPRO Total	0.040	U	mg/L	EPA 3510C /RO	1	0.040	0.500	08/17/16	08/17/16	PLS

		% Recovery	Q	% Recovery Limits
84-15-1	Surrogate: o-Terphenyl	106 %		Limit 70-130
7194-86-7	Surrogate: Nonatriacontane	77.2 %		Limit 42-193

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LOG #: 0014701
COC#: 23391
REPORTED: 8/22/2016 4:34:50PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: MW 3 **Lab ID:** 0014701-04 **Sampled:** 08/15/16 11:49
Matrix: Water **Sampled By:** Randall Murphy **Received:** 08/15/16 16:31

EPA 8020 List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
71-43-2	Benzene	0.640	U	ug/L	EPA 8260C	1	0.640	1.00	08/19/16	08/19/16	PLS
108-88-3	Toluene	0.660	U	ug/L	EPA 8260C	1	0.660	1.00	08/19/16	08/19/16	PLS
108-90-7	Chlorobenzene	0.670	U	ug/L	EPA 8260C	1	0.670	1.00	08/19/16	08/19/16	PLS
100-41-4	Ethylbenzene	0.730	U	ug/L	EPA 8260C	1	0.730	1.00	08/19/16	08/19/16	PLS
108-38-3/106-42-3	m,p-Xylene	0.760	U	ug/L	EPA 8260C	1	0.760	1.00	08/19/16	08/19/16	PLS
95-47-6	o-Xylene	0.870	U	ug/L	EPA 8260C	1	0.870	1.00	08/19/16	08/19/16	PLS
541-73-1	1,3-Dichlorobenzene	0.310	U	ug/L	EPA 8260C	1	0.310	1.00	08/19/16	08/19/16	PLS
106-46-7	1,4-Dichlorobenzene	0.510	U	ug/L	EPA 8260C	1	0.510	1.00	08/19/16	08/19/16	PLS
95-50-1	1,2-Dichlorobenzene	0.510	U	ug/L	EPA 8260C	1	0.510	1.00	08/19/16	08/19/16	PLS
1634-04-4	MTBE	0.530	U	ug/L	EPA 8260C	1	0.530	1.00	08/19/16	08/19/16	PLS

		% Recovery	Q	% Recovery Limits
1868-53-7	Surrogate: Dibromofluoromethane	96.2 %		Limit 62-200
2037-26-5	Surrogate: Toluene-d8	89.8 %		Limit 63-144
460-00-4	Surrogate: 4-Bromofluorobenzene	96.1 %		Limit 50-155

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
91-20-3	Naphthalene	0.147	U	ug/L	EPA 3510C / 8270	1	0.147	10.0	08/17/16	08/17/16	PLS
91-57-6	2-Methylnaphthalene	0.288	U	ug/L	EPA 3510C / 8270	1	0.288	10.0	08/17/16	08/17/16	PLS
90-12-0	1-Methylnaphthalene	0.285	U	ug/L	EPA 3510C / 8270	1	0.285	10.0	08/17/16	08/17/16	PLS
208-96-8	Acenaphthylene	0.393	U	ug/L	EPA 3510C / 8270	1	0.393	10.0	08/17/16	08/17/16	PLS
83-32-9	Acenaphthene	0.188	U	ug/L	EPA 3510C / 8270	1	0.188	10.0	08/17/16	08/17/16	PLS
86-73-7	Fluorene	0.217	U	ug/L	EPA 3510C / 8270	1	0.217	10.0	08/17/16	08/17/16	PLS
85-01-8	Phenanthrene	0.215	U	ug/L	EPA 3510C / 8270	1	0.215	10.0	08/17/16	08/17/16	PLS
120-12-7	Anthracene	0.0100	U	ug/L	EPA 3510C / 8270	1	0.0100	0.0300	08/17/16	08/17/16	PLS
206-44-0	Fluoranthene	0.0100	U	ug/L	EPA 3510C / 8270	1	0.0100	0.0300	08/17/16	08/17/16	PLS
129-00-0	Pyrene	0.409	U	ug/L	EPA 3510C / 8270	1	0.409	10.0	08/17/16	08/17/16	PLS
56-55-3	Benzo[a]anthracene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS
218-01-9	Chrysene	0.169	U	ug/L	EPA 3510C / 8270	1	0.169	0.200	08/17/16	08/17/16	PLS
205-99-2	Benzo[b]fluoranthene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS
207-08-9	Benzo[k]fluoranthene	0.500	U	ug/L	EPA 3510C / 8270	1	0.500	0.500	08/17/16	08/17/16	PLS
50-32-8	Benzo[a]pyrene	0.200	U	ug/L	EPA 3510C / 8270	1	0.200	0.200	08/17/16	08/17/16	PLS
53-70-3	Dibenz[a,h]anthracene	0.0050	U	ug/L	EPA 3510C / 8270	1	0.0050	0.0500	08/17/16	08/17/16	PLS
193-39-5	Indeno[1,2,3-cd]pyrene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS

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LOG #: 0014701
COC#: 23391
REPORTED: 8/22/2016 4:34:50PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: MW 3 **Lab ID:** 0014701-04 **Sampled:** 08/15/16 11:49
Matrix: Water **Sampled By:** Randall Murphy **Received:** 08/15/16 16:31

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
191-24-2	Benzo[g,h,i]perylene	0.341	U	ug/L	EPA 3510C / 8270	1	0.341	10.0	08/17/16	08/17/16	PLS

		% Recovery	Q	% Recovery Limits
NA	Surrogate: Nitrobenzene-d5	78.1 %		Limit 40-142
321-60-8	Surrogate: 2-Fluorobiphenyl	88.8 %		Limit 47-150
NA	Surrogate: p-Terphenyl-d14	70.3 %		Limit 55-165

FLPRO

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
NA	**FLPRO Total**	**0.065**	I	mg/L	EPA 3510C /RO	1	0.040	0.500	08/17/16	08/17/16	PLS

		% Recovery	Q	% Recovery Limits
84-15-1	Surrogate: o-Terphenyl	107 %		Limit 70-130
7194-86-7	Surrogate: Nonatriacontane	93.4 %		Limit 42-193

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LOG #: 0014701
COC#: 23391
REPORTED: 8/22/2016 4:34:50PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: MW 5 **Lab ID:** 0014701-05 **Sampled:** 08/15/16 12:33
Matrix: Water **Sampled By:** Randall Murphy **Received:** 08/15/16 16:31

EPA 8020 List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
71-43-2	Benzene	0.640	U	ug/L	EPA 8260C	1	0.640	1.00	08/19/16	08/19/16	PLS
108-88-3	Toluene	0.660	U	ug/L	EPA 8260C	1	0.660	1.00	08/19/16	08/19/16	PLS
108-90-7	Chlorobenzene	0.670	U	ug/L	EPA 8260C	1	0.670	1.00	08/19/16	08/19/16	PLS
100-41-4	Ethylbenzene	0.730	U	ug/L	EPA 8260C	1	0.730	1.00	08/19/16	08/19/16	PLS
108-38-3/106-42-3	m,p-Xylene	0.760	U	ug/L	EPA 8260C	1	0.760	1.00	08/19/16	08/19/16	PLS
95-47-6	o-Xylene	0.870	U	ug/L	EPA 8260C	1	0.870	1.00	08/19/16	08/19/16	PLS
541-73-1	1,3-Dichlorobenzene	0.310	U	ug/L	EPA 8260C	1	0.310	1.00	08/19/16	08/19/16	PLS
106-46-7	1,4-Dichlorobenzene	0.510	U	ug/L	EPA 8260C	1	0.510	1.00	08/19/16	08/19/16	PLS
95-50-1	1,2-Dichlorobenzene	0.510	U	ug/L	EPA 8260C	1	0.510	1.00	08/19/16	08/19/16	PLS
1634-04-4	MTBE	0.530	U	ug/L	EPA 8260C	1	0.530	1.00	08/19/16	08/19/16	PLS

		% Recovery	Q	% Recovery Limits
1868-53-7	Surrogate: Dibromofluoromethane	88.1 %		Limit 62-200
2037-26-5	Surrogate: Toluene-d8	86.3 %		Limit 63-144
460-00-4	Surrogate: 4-Bromofluorobenzene	103 %		Limit 50-155

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
91-20-3	Naphthalene	0.147	U	ug/L	EPA 3510C / 8270	1	0.147	10.0	08/17/16	08/17/16	PLS
91-57-6	**2-Methylnaphthalene**	**0.750**	I	ug/L	EPA 3510C / 8270	1	0.288	10.0	08/17/16	08/17/16	PLS
90-12-0	**1-Methylnaphthalene**	**3.15**	I	ug/L	EPA 3510C / 8270	1	0.285	10.0	08/17/16	08/17/16	PLS
208-96-8	Acenaphthylene	0.393	U	ug/L	EPA 3510C / 8270	1	0.393	10.0	08/17/16	08/17/16	PLS
83-32-9	Acenaphthene	0.188	U	ug/L	EPA 3510C / 8270	1	0.188	10.0	08/17/16	08/17/16	PLS
86-73-7	Fluorene	0.217	U	ug/L	EPA 3510C / 8270	1	0.217	10.0	08/17/16	08/17/16	PLS
85-01-8	Phenanthrene	0.215	U	ug/L	EPA 3510C / 8270	1	0.215	10.0	08/17/16	08/17/16	PLS
120-12-7	Anthracene	0.0100	U	ug/L	EPA 3510C / 8270	1	0.0100	0.0300	08/17/16	08/17/16	PLS
206-44-0	Fluoranthene	0.0100	U	ug/L	EPA 3510C / 8270	1	0.0100	0.0300	08/17/16	08/17/16	PLS
129-00-0	Pyrene	0.409	U	ug/L	EPA 3510C / 8270	1	0.409	10.0	08/17/16	08/17/16	PLS
56-55-3	Benzo[a]anthracene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS
218-01-9	Chrysene	0.169	U	ug/L	EPA 3510C / 8270	1	0.169	0.200	08/17/16	08/17/16	PLS
205-99-2	Benzo[b]fluoranthene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS
207-08-9	Benzo[k]fluoranthene	0.500	U	ug/L	EPA 3510C / 8270	1	0.500	0.500	08/17/16	08/17/16	PLS
50-32-8	Benzo[a]pyrene	0.200	U	ug/L	EPA 3510C / 8270	1	0.200	0.200	08/17/16	08/17/16	PLS
53-70-3	Dibenz[a,h]anthracene	0.0050	U	ug/L	EPA 3510C / 8270	1	0.0050	0.0500	08/17/16	08/17/16	PLS
193-39-5	Indeno[1,2,3-cd]pyrene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS

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LOG #: 0014701
COC#: 23391
REPORTED: 8/22/2016 4:34:50PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: MW 5 **Lab ID:** 0014701-05 **Sampled:** 08/15/16 12:33
Matrix: Water **Sampled By:** Randall Murphy **Received:** 08/15/16 16:31

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
191-24-2	Benzo[g,h,i]perylene	0.341	U	ug/L	EPA 3510C / 8270	1	0.341	10.0	08/17/16	08/17/16	PLS

		% Recovery	Q	% Recovery Limits
NA	Surrogate: Nitrobenzene-d5	80.8 %		Limit 40-142
321-60-8	Surrogate: 2-Fluorobiphenyl	101 %		Limit 47-150
NA	Surrogate: p-Terphenyl-d14	84.0 %		Limit 55-165

FLPRO

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
NA	**FLPRO Total**	**0.577**		mg/L	EPA 3510C /RO	1	0.040	0.500	08/17/16	08/17/16	PLS

		% Recovery	Q	% Recovery Limits
84-15-1	Surrogate: o-Terphenyl	106 %		Limit 70-130
7194-86-7	Surrogate: Nonatriacontane	89.7 %		Limit 42-193

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LOG #: 0014701
COC#: 23391
REPORTED: 8/22/2016 4:34:50PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: MW 4 **Lab ID:** 0014701-07 **Sampled:** 08/15/16 14:07
Matrix: Water **Sampled By:** Randall Murphy **Received:** 08/15/16 16:31

EPA 8020 List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
71-43-2	**Benzene**	**2.48**		ug/L	EPA 8260C	1	0.640	1.00	08/19/16	08/19/16	PLS
108-88-3	**Toluene**	**5.29**		ug/L	EPA 8260C	1	0.660	1.00	08/19/16	08/19/16	PLS
108-90-7	Chlorobenzene	0.670	U	ug/L	EPA 8260C	1	0.670	1.00	08/19/16	08/19/16	PLS
100-41-4	**Ethylbenzene**	**1.00**		ug/L	EPA 8260C	1	0.730	1.00	08/19/16	08/19/16	PLS
108-38-3/ 106-42-3	**m,p-Xylene**	**5.64**		ug/L	EPA 8260C	1	0.760	1.00	08/19/16	08/19/16	PLS
95-47-6	**o-Xylene**	**3.95**		ug/L	EPA 8260C	1	0.870	1.00	08/19/16	08/19/16	PLS
541-73-1	1,3-Dichlorobenzene	0.310	U	ug/L	EPA 8260C	1	0.310	1.00	08/19/16	08/19/16	PLS
106-46-7	1,4-Dichlorobenzene	0.510	U	ug/L	EPA 8260C	1	0.510	1.00	08/19/16	08/19/16	PLS
95-50-1	1,2-Dichlorobenzene	0.510	U	ug/L	EPA 8260C	1	0.510	1.00	08/19/16	08/19/16	PLS
1634-04-4	MTBE	0.530	U	ug/L	EPA 8260C	1	0.530	1.00	08/19/16	08/19/16	PLS

		% Recovery	Q	% Recovery Limits
1868-53-7	Surrogate: Dibromofluoromethane	117 %		Limit 62-200
2037-26-5	Surrogate: Toluene-d8	106 %		Limit 63-144
460-00-4	Surrogate: 4-Bromofluorobenzene	97.1 %		Limit 50-155

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
91-20-3	Naphthalene	0.147	U	ug/L	EPA 3510C / 8270	1	0.147	10.0	08/17/16	08/17/16	PLS
91-57-6	**2-Methylnaphthalene**	**48.6**		ug/L	EPA 3510C / 8270	1	0.288	10.0	08/17/16	08/17/16	PLS
90-12-0	**1-Methylnaphthalene**	**95.8**		ug/L	EPA 3510C / 8270	1	0.285	10.0	08/17/16	08/17/16	PLS
208-96-8	Acenaphthylene	0.393	U	ug/L	EPA 3510C / 8270	1	0.393	10.0	08/17/16	08/17/16	PLS
83-32-9	Acenaphthene	0.188	U	ug/L	EPA 3510C / 8270	1	0.188	10.0	08/17/16	08/17/16	PLS
86-73-7	Fluorene	0.217	U	ug/L	EPA 3510C / 8270	1	0.217	10.0	08/17/16	08/17/16	PLS
85-01-8	Phenanthrene	0.215	U	ug/L	EPA 3510C / 8270	1	0.215	10.0	08/17/16	08/17/16	PLS
120-12-7	Anthracene	0.0100	U	ug/L	EPA 3510C / 8270	1	0.0100	0.0300	08/17/16	08/17/16	PLS
206-44-0	Fluoranthene	0.0100	U	ug/L	EPA 3510C / 8270	1	0.0100	0.0300	08/17/16	08/17/16	PLS
129-00-0	Pyrene	0.409	U	ug/L	EPA 3510C / 8270	1	0.409	10.0	08/17/16	08/17/16	PLS
56-55-3	Benzo[a]anthracene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS
218-01-9	Chrysene	0.169	U	ug/L	EPA 3510C / 8270	1	0.169	0.200	08/17/16	08/17/16	PLS
205-99-2	Benzo[b]fluoranthene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS
207-08-9	Benzo[k]fluoranthene	0.500	U	ug/L	EPA 3510C / 8270	1	0.500	0.500	08/17/16	08/17/16	PLS
50-32-8	Benzo[a]pyrene	0.200	U	ug/L	EPA 3510C / 8270	1	0.200	0.200	08/17/16	08/17/16	PLS
53-70-3	Dibenz[a,h]anthracene	0.0050	U	ug/L	EPA 3510C / 8270	1	0.0050	0.0500	08/17/16	08/17/16	PLS
193-39-5	Indeno[1,2,3-cd]pyrene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS
191-24-2	Benzo[g,h,i]perylene	0.341	U	ug/L	EPA 3510C / 8270	1	0.341	10.0	08/17/16	08/17/16	PLS

Palm Beach Environmental Laboratories Inc.

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LOG #: 0014701
COC#: 23391
REPORTED: 8/22/2016 4:34:50PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: MW 4 **Lab ID:** 0014701-07 **Sampled:** 08/15/16 14:07
Matrix: Water **Sampled By:** Randall Murphy **Received:** 08/15/16 16:31

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
		% Recovery	Q	% Recovery Limits							
NA	Surrogate: Nitrobenzene-d5	94.6 %		Limit 40-142							
321-60-8	Surrogate: 2-Fluorobiphenyl	126 %		Limit 47-150							
NA	Surrogate: p-Terphenyl-d14	118 %		Limit 55-165							

FLPRO

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
NA	**FLPRO Total**	**1.77**		mg/L	EPA 3510C /RO	1	0.040	0.500	08/17/16	08/17/16	PLS
		% Recovery	Q	% Recovery Limits							
84-15-1	Surrogate: o-Terphenyl	109 %		Limit 70-130							
7194-86-7	Surrogate: Nonatriacontane	79.7 %		Limit 42-193							

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LOG #: 0014701
COC#: 23391
REPORTED: 8/22/2016 4:34:50PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: MW 2 **Lab ID:** 0014701-08 **Sampled:** 08/15/16 15:00
Matrix: Water **Sampled By:** Randall Murphy **Received:** 08/15/16 16:31

EPA 8020 List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
71-43-2	Benzene	0.640	U	ug/L	EPA 8260C	1	0.640	1.00	08/19/16	08/19/16	PLS
108-88-3	Toluene	0.660	U	ug/L	EPA 8260C	1	0.660	1.00	08/19/16	08/19/16	PLS
108-90-7	Chlorobenzene	0.670	U	ug/L	EPA 8260C	1	0.670	1.00	08/19/16	08/19/16	PLS
100-41-4	Ethylbenzene	0.730	U	ug/L	EPA 8260C	1	0.730	1.00	08/19/16	08/19/16	PLS
108-38-3/106-42-3	m,p-Xylene	0.760	U	ug/L	EPA 8260C	1	0.760	1.00	08/19/16	08/19/16	PLS
95-47-6	o-Xylene	0.870	U	ug/L	EPA 8260C	1	0.870	1.00	08/19/16	08/19/16	PLS
541-73-1	1,3-Dichlorobenzene	0.310	U	ug/L	EPA 8260C	1	0.310	1.00	08/19/16	08/19/16	PLS
106-46-7	1,4-Dichlorobenzene	0.510	U	ug/L	EPA 8260C	1	0.510	1.00	08/19/16	08/19/16	PLS
95-50-1	1,2-Dichlorobenzene	0.510	U	ug/L	EPA 8260C	1	0.510	1.00	08/19/16	08/19/16	PLS
1634-04-4	MTBE	0.530	U	ug/L	EPA 8260C	1	0.530	1.00	08/19/16	08/19/16	PLS

		% Recovery	Q	% Recovery Limits
1868-53-7	Surrogate: Dibromofluoromethane	119 %		Limit 62-200
2037-26-5	Surrogate: Toluene-d8	91.9 %		Limit 63-144
460-00-4	Surrogate: 4-Bromofluorobenzene	78.1 %		Limit 50-155

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
91-20-3	Naphthalene	0.147	U	ug/L	EPA 3510C / 8270	1	0.147	10.0	08/17/16	08/17/16	PLS
91-57-6	**2-Methylnaphthalene**	**2.46**	I	ug/L	EPA 3510C / 8270	1	0.288	10.0	08/17/16	08/17/16	PLS
90-12-0	**1-Methylnaphthalene**	**4.52**	I	ug/L	EPA 3510C / 8270	1	0.285	10.0	08/17/16	08/17/16	PLS
208-96-8	Acenaphthylene	0.393	U	ug/L	EPA 3510C / 8270	1	0.393	10.0	08/17/16	08/17/16	PLS
83-32-9	Acenaphthene	0.188	U	ug/L	EPA 3510C / 8270	1	0.188	10.0	08/17/16	08/17/16	PLS
86-73-7	Fluorene	0.217	U	ug/L	EPA 3510C / 8270	1	0.217	10.0	08/17/16	08/17/16	PLS
85-01-8	Phenanthrene	0.215	U	ug/L	EPA 3510C / 8270	1	0.215	10.0	08/17/16	08/17/16	PLS
120-12-7	Anthracene	0.0100	U	ug/L	EPA 3510C / 8270	1	0.0100	0.0300	08/17/16	08/17/16	PLS
206-44-0	Fluoranthene	0.0100	U	ug/L	EPA 3510C / 8270	1	0.0100	0.0300	08/17/16	08/17/16	PLS
129-00-0	Pyrene	0.409	U	ug/L	EPA 3510C / 8270	1	0.409	10.0	08/17/16	08/17/16	PLS
56-55-3	Benzo[a]anthracene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS
218-01-9	Chrysene	0.169	U	ug/L	EPA 3510C / 8270	1	0.169	0.200	08/17/16	08/17/16	PLS
205-99-2	Benzo[b]fluoranthene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS
207-08-9	Benzo[k]fluoranthene	0.500	U	ug/L	EPA 3510C / 8270	1	0.500	0.500	08/17/16	08/17/16	PLS
50-32-8	Benzo[a]pyrene	0.200	U	ug/L	EPA 3510C / 8270	1	0.200	0.200	08/17/16	08/17/16	PLS
53-70-3	Dibenz[a,h]anthracene	0.0050	U	ug/L	EPA 3510C / 8270	1	0.0050	0.0500	08/17/16	08/17/16	PLS
193-39-5	Indeno[1,2,3-cd]pyrene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS

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LOG #: 0014701
COC#: 23391
REPORTED: 8/22/2016 4:34:50PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: MW 2 **Lab ID:** 0014701-08 **Sampled:** 08/15/16 15:00
Matrix: Water **Sampled By:** Randall Murphy **Received:** 08/15/16 16:31

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
191-24-2	Benzo[g,h,i]perylene	0.341	U	ug/L	EPA 3510C / 8270	1	0.341	10.0	08/17/16	08/17/16	PLS

		% Recovery	Q	% Recovery Limits
NA	Surrogate: Nitrobenzene-d5	78.3 %		Limit 40-142
321-60-8	Surrogate: 2-Fluorobiphenyl	110 %		Limit 47-150
NA	Surrogate: p-Terphenyl-d14	106 %		Limit 55-165

FLPRO

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
NA	**FLPRO Total**	**0.911**		mg/L	EPA 3510C /RO	1	0.040	0.500	08/17/16	08/17/16	PLS

		% Recovery	Q	% Recovery Limits
84-15-1	Surrogate: o-Terphenyl	117 %		Limit 70-130
7194-86-7	Surrogate: Nonatriacontane	73.5 %		Limit 42-193

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LOG #: 0014701
COC#: 23391
REPORTED: 8/22/2016 4:34:50PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: MW 1D **Lab ID:** 0014701-09 **Sampled:** 08/15/16 15:39
Matrix: Water **Sampled By:** Randall Murphy **Received:** 08/15/16 16:31

EPA 8020 List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
71-43-2	Benzene	0.640	U	ug/L	EPA 8260C	1	0.640	1.00	08/19/16	08/19/16	PLS
108-88-3	Toluene	0.660	U	ug/L	EPA 8260C	1	0.660	1.00	08/19/16	08/19/16	PLS
108-90-7	Chlorobenzene	0.670	U	ug/L	EPA 8260C	1	0.670	1.00	08/19/16	08/19/16	PLS
100-41-4	Ethylbenzene	0.730	U	ug/L	EPA 8260C	1	0.730	1.00	08/19/16	08/19/16	PLS
108-38-3/106-42-3	m,p-Xylene	0.760	U	ug/L	EPA 8260C	1	0.760	1.00	08/19/16	08/19/16	PLS
95-47-6	o-Xylene	0.870	U	ug/L	EPA 8260C	1	0.870	1.00	08/19/16	08/19/16	PLS
541-73-1	1,3-Dichlorobenzene	0.310	U	ug/L	EPA 8260C	1	0.310	1.00	08/19/16	08/19/16	PLS
106-46-7	1,4-Dichlorobenzene	0.510	U	ug/L	EPA 8260C	1	0.510	1.00	08/19/16	08/19/16	PLS
95-50-1	1,2-Dichlorobenzene	0.510	U	ug/L	EPA 8260C	1	0.510	1.00	08/19/16	08/19/16	PLS
1634-04-4	MTBE	0.530	U	ug/L	EPA 8260C	1	0.530	1.00	08/19/16	08/19/16	PLS

		% Recovery	Q	% Recovery Limits
1868-53-7	Surrogate: Dibromofluoromethane	116 %		Limit 62-200
2037-26-5	Surrogate: Toluene-d8	91.1 %		Limit 63-144
460-00-4	Surrogate: 4-Bromofluorobenzene	93.5 %		Limit 50-155

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
91-20-3	Naphthalene	0.147	U	ug/L	EPA 3510C / 8270	1	0.147	10.0	08/17/16	08/17/16	PLS
91-57-6	2-Methylnaphthalene	0.288	U	ug/L	EPA 3510C / 8270	1	0.288	10.0	08/17/16	08/17/16	PLS
90-12-0	1-Methylnaphthalene	0.285	U	ug/L	EPA 3510C / 8270	1	0.285	10.0	08/17/16	08/17/16	PLS
208-96-8	Acenaphthylene	0.393	U	ug/L	EPA 3510C / 8270	1	0.393	10.0	08/17/16	08/17/16	PLS
83-32-9	Acenaphthene	0.188	U	ug/L	EPA 3510C / 8270	1	0.188	10.0	08/17/16	08/17/16	PLS
86-73-7	Fluorene	0.217	U	ug/L	EPA 3510C / 8270	1	0.217	10.0	08/17/16	08/17/16	PLS
85-01-8	Phenanthrene	0.215	U	ug/L	EPA 3510C / 8270	1	0.215	10.0	08/17/16	08/17/16	PLS
120-12-7	Anthracene	0.0100	U	ug/L	EPA 3510C / 8270	1	0.0100	0.0300	08/17/16	08/17/16	PLS
206-44-0	Fluoranthene	0.0100	U	ug/L	EPA 3510C / 8270	1	0.0100	0.0300	08/17/16	08/17/16	PLS
129-00-0	Pyrene	0.409	U	ug/L	EPA 3510C / 8270	1	0.409	10.0	08/17/16	08/17/16	PLS
56-55-3	Benzo[a]anthracene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS
218-01-9	Chrysene	0.169	U	ug/L	EPA 3510C / 8270	1	0.169	0.200	08/17/16	08/17/16	PLS
205-99-2	Benzo[b]fluoranthene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS
207-08-9	Benzo[k]fluoranthene	0.500	U	ug/L	EPA 3510C / 8270	1	0.500	0.500	08/17/16	08/17/16	PLS
50-32-8	Benzo[a]pyrene	0.200	U	ug/L	EPA 3510C / 8270	1	0.200	0.200	08/17/16	08/17/16	PLS
53-70-3	Dibenz[a,h]anthracene	0.0050	U	ug/L	EPA 3510C / 8270	1	0.0050	0.0500	08/17/16	08/17/16	PLS
193-39-5	Indeno[1,2,3-cd]pyrene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS

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LOG #: 0014701
COC#: 23391
REPORTED: 8/22/2016 4:34:50PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: MW 1D **Lab ID:** 0014701-09 **Sampled:** 08/15/16 15:39
Matrix: Water **Sampled By:** Randall Murphy **Received:** 08/15/16 16:31

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
191-24-2	Benzo[g,h,i]perylene	0.341	U	ug/L	EPA 3510C / 8270	1	0.341	10.0	08/17/16	08/17/16	PLS

		% Recovery	Q	% Recovery Limits
NA	Surrogate: Nitrobenzene-d5	92.8 %		Limit 40-142
321-60-8	Surrogate: 2-Fluorobiphenyl	92.1 %		Limit 47-150
NA	Surrogate: p-Terphenyl-d14	94.3 %		Limit 55-165

FLPRO

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
NA	**FLPRO Total**	**0.254**	I	mg/L	EPA 3510C /RO	1	0.040	0.500	08/17/16	08/17/16	PLS

		% Recovery	Q	% Recovery Limits
84-15-1	Surrogate: o-Terphenyl	112 %		Limit 70-130
7194-86-7	Surrogate: Nonatriacontane	94.9 %		Limit 42-193

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LOG #: 0014701
COC#: 23391
REPORTED: 8/22/2016 4:34:50PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: MW 1 **Lab ID:** 0014701-10 **Sampled:** 08/15/16 16:19
Matrix: Water **Sampled By:** Randall Murphy **Received:** 08/15/16 16:31

EPA 8020 List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
71-43-2	Benzene	0.640	U	ug/L	EPA 8260C	1	0.640	1.00	08/19/16	08/19/16	PLS
108-88-3	Toluene	0.660	U	ug/L	EPA 8260C	1	0.660	1.00	08/19/16	08/19/16	PLS
108-90-7	Chlorobenzene	0.670	U	ug/L	EPA 8260C	1	0.670	1.00	08/19/16	08/19/16	PLS
100-41-4	Ethylbenzene	0.730	U	ug/L	EPA 8260C	1	0.730	1.00	08/19/16	08/19/16	PLS
108-38-3/106-42-3	m,p-Xylene	0.760	U	ug/L	EPA 8260C	1	0.760	1.00	08/19/16	08/19/16	PLS
95-47-6	o-Xylene	0.870	U	ug/L	EPA 8260C	1	0.870	1.00	08/19/16	08/19/16	PLS
541-73-1	1,3-Dichlorobenzene	0.310	U	ug/L	EPA 8260C	1	0.310	1.00	08/19/16	08/19/16	PLS
106-46-7	1,4-Dichlorobenzene	0.510	U	ug/L	EPA 8260C	1	0.510	1.00	08/19/16	08/19/16	PLS
95-50-1	1,2-Dichlorobenzene	0.510	U	ug/L	EPA 8260C	1	0.510	1.00	08/19/16	08/19/16	PLS
1634-04-4	MTBE	0.530	U	ug/L	EPA 8260C	1	0.530	1.00	08/19/16	08/19/16	PLS

		% Recovery	Q	% Recovery Limits
1868-53-7	Surrogate: Dibromofluoromethane	105 %		Limit 62-200
2037-26-5	Surrogate: Toluene-d8	89.7 %		Limit 63-144
460-00-4	Surrogate: 4-Bromofluorobenzene	84.1 %		Limit 50-155

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
91-20-3	Naphthalene	0.147	U	ug/L	EPA 3510C / 8270	1	0.147	10.0	08/17/16	08/17/16	PLS
91-57-6	**2-Methylnaphthalene**	**4.40**	I	ug/L	EPA 3510C / 8270	1	0.288	10.0	08/17/16	08/17/16	PLS
90-12-0	**1-Methylnaphthalene**	**5.98**	I	ug/L	EPA 3510C / 8270	1	0.285	10.0	08/17/16	08/17/16	PLS
208-96-8	**Acenaphthylene**	**0.970**	I	ug/L	EPA 3510C / 8270	1	0.393	10.0	08/17/16	08/17/16	PLS
83-32-9	Acenaphthene	0.188	U	ug/L	EPA 3510C / 8270	1	0.188	10.0	08/17/16	08/17/16	PLS
86-73-7	Fluorene	0.217	U	ug/L	EPA 3510C / 8270	1	0.217	10.0	08/17/16	08/17/16	PLS
85-01-8	Phenanthrene	0.215	U	ug/L	EPA 3510C / 8270	1	0.215	10.0	08/17/16	08/17/16	PLS
120-12-7	**Anthracene**	**0.810**		ug/L	EPA 3510C / 8270	1	0.0100	0.0300	08/17/16	08/17/16	PLS
206-44-0	Fluoranthene	0.0100	U	ug/L	EPA 3510C / 8270	1	0.0100	0.0300	08/17/16	08/17/16	PLS
129-00-0	Pyrene	0.409	U	ug/L	EPA 3510C / 8270	1	0.409	10.0	08/17/16	08/17/16	PLS
56-55-3	Benzo[a]anthracene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS
218-01-9	Chrysene	0.169	U	ug/L	EPA 3510C / 8270	1	0.169	0.200	08/17/16	08/17/16	PLS
205-99-2	Benzo[b]fluoranthene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS
207-08-9	Benzo[k]fluoranthene	0.500	U	ug/L	EPA 3510C / 8270	1	0.500	0.500	08/17/16	08/17/16	PLS
50-32-8	Benzo[a]pyrene	0.200	U	ug/L	EPA 3510C / 8270	1	0.200	0.200	08/17/16	08/17/16	PLS
53-70-3	Dibenz[a,h]anthracene	0.0050	U	ug/L	EPA 3510C / 8270	1	0.0050	0.0500	08/17/16	08/17/16	PLS
193-39-5	Indeno[1,2,3-cd]pyrene	0.0500	U	ug/L	EPA 3510C / 8270	1	0.0500	0.0500	08/17/16	08/17/16	PLS

Palm Beach Environmental Laboratories Inc.

CERTIFICATE OF ANALYSIS

Terracon WPB
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LOG #: 0014701
COC#: 23391
REPORTED: 8/22/2016 4:34:50PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Description: MW 1 **Lab ID:** 0014701-10 **Sampled:** 08/15/16 16:19
Matrix: Water **Sampled By:** Randall Murphy **Received:** 08/15/16 16:31

EPA 8100 PAH List

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
191-24-2	Benzo[g,h,i]perylene	0.341	U	ug/L	EPA 3510C / 8270	1	0.341	10.0	08/17/16	08/17/16	PLS

		% Recovery	Q	% Recovery Limits
NA	Surrogate: Nitrobenzene-d5	94.7 %		Limit 40-142
321-60-8	Surrogate: 2-Fluorobiphenyl	130 %		Limit 47-150
NA	Surrogate: p-Terphenyl-d14	103 %		Limit 55-165

FLPRO

CAS #	Parameter	Results	Q	Units	Method	DF	MDL	PQL	Extraction Date	Analysis Date	Analyst
NA	**FLPRO Total**	**1.39**		mg/L	EPA 3510C /RO	1	0.040	0.500	08/17/16	08/17/16	PLS

		% Recovery	Q	% Recovery Limits
84-15-1	Surrogate: o-Terphenyl	114 %		Limit 70-130
7194-86-7	Surrogate: Nonatriacontane	79.0 %		Limit 42-193

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LOG #: 0014701
COC#: 23391
REPORTED: 8/22/2016 4:34:50PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8020 List - Quality Control										
Batch B608173 - P&T										
Blank (B608173-BLK1)				Prepared & Analyzed: 08/19/16						
Benzene	U	1.00	ug/L							U
Toluene	U	1.00	ug/L							U
Chlorobenzene	U	1.00	ug/L							U
Ethylbenzene	U	1.00	ug/L							U
m,p-Xylene	U	1.00	ug/L							U
o-Xylene	U	1.00	ug/L							U
1,3-Dichlorobenzene	U	1.00	ug/L							U
1,4-Dichlorobenzene	U	1.00	ug/L							U
1,2-Dichlorobenzene	U	1.00	ug/L							U
MTBE	U	1.00	ug/L							U
Surrogate: Dibromofluoromethane	*17.5*		*ug/L*	*15.00*		*117*	*62-200*			
Surrogate: Toluene-d8	*14.2*		*ug/L*	*15.00*		*94.5*	*63-144*			
Surrogate: 4-Bromofluorobenzene	*13.3*		*ug/L*	*15.00*		*88.4*	*50-155*			
LCS (B608173-BS1)				Prepared & Analyzed: 08/19/16						
Benzene	23.4	1.00	ug/L	27.78		84.2	60-135			
Toluene	21.0	1.00	ug/L	27.78		75.5	60-135			
Chlorobenzene	25.3	1.00	ug/L	27.78		91.0	60-135			
Trichloroethene	21.2	1.00	ug/L	27.78		76.4	60-135			
Surrogate: Dibromofluoromethane	*16.0*		*ug/L*	*15.00*		*107*	*62-136*			
Surrogate: Toluene-d8	*16.4*		*ug/L*	*15.00*		*109*	*66-144*			
Surrogate: 4-Bromofluorobenzene	*16.2*		*ug/L*	*15.00*		*108*	*70-131*			
LCS Dup (B608173-BSD1)				Prepared & Analyzed: 08/19/16						
Benzene	25.2	1.00	ug/L	27.78		90.7	60-135	7.45	20	
Toluene	21.1	1.00	ug/L	27.78		76.1	60-135	0.712	20	
Chlorobenzene	26.3	1.00	ug/L	27.78		94.6	60-135	3.88	20	
Trichloroethene	22.3	1.00	ug/L	27.78		80.2	60-135	4.97	20	
Surrogate: Dibromofluoromethane	*17.6*		*ug/L*	*15.00*		*118*	*62-136*			
Surrogate: Toluene-d8	*16.7*		*ug/L*	*15.00*		*112*	*66-144*			
Surrogate: 4-Bromofluorobenzene	*15.8*		*ug/L*	*15.00*		*106*	*70-131*			
Calibration Check (B608173-CCV1)				Prepared & Analyzed: 08/19/16						
Benzene	25.4		ug/L	27.78		91.6	80-120			
Toluene	24.4		ug/L	27.78		87.9	80-120			
Chlorobenzene	26.4		ug/L	27.78		95.2	80-120			
Trichloroethene	23.0		ug/L	27.78		82.6	80-120			
Surrogate: Dibromofluoromethane	*17.6*		*ug/L*	*15.00*		*118*	*0-200*			

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LOG #: 0014701
COC#: 23391
REPORTED: 8/22/2016 4:34:50PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8020 List - Quality Control										
Batch B608173 - P&T										
Calibration Check (B608173-CCV1) Continued				Prepared & Analyzed: 08/19/16						
Surrogate: Toluene-d8	*16.8*		*ug/L*	*15.00*		*112*	*0-200*			
Surrogate: 4-Bromofluorobenzene	*15.8*		*ug/L*	*15.00*		*106*	*0-200*			
Duplicate (B608173-DUP1)		**Source: 0014701-05**		Prepared & Analyzed: 08/19/16						
Benzene	U	1.00	ug/L		U				200	U
Toluene	U	1.00	ug/L		U				200	U
Chlorobenzene	U	1.00	ug/L		U				200	U
Trichloroethene	U	1.00	ug/L		U				200	U
Surrogate: Dibromofluoromethane	*17.6*		*ug/L*	*15.00*		*117*	*62-200*			
Surrogate: Toluene-d8	*14.3*		*ug/L*	*15.00*		*95.6*	*63-144*			
Surrogate: 4-Bromofluorobenzene	*14.6*		*ug/L*	*15.00*		*97.7*	*50-155*			
Matrix Spike (B608173-MS1)		**Source: 0014701-05**		Prepared & Analyzed: 08/19/16						
Benzene	25.7	1.00	ug/L	27.78	U	92.6	60-135			
Toluene	20.2	1.00	ug/L	27.78	U	72.8	60-135			
Chlorobenzene	24.5	1.00	ug/L	27.78	U	88.1	60-135			
Trichloroethene	20.9	1.00	ug/L	27.78	U	75.1	60-135			
Surrogate: Dibromofluoromethane	*17.3*		*ug/L*	*15.00*		*115*	*62-136*			
Surrogate: Toluene-d8	*16.7*		*ug/L*	*15.00*		*111*	*66-144*			
Surrogate: 4-Bromofluorobenzene	*14.1*		*ug/L*	*15.00*		*94.0*	*70-131*			
Matrix Spike Dup (B608173-MSD1)		**Source: 0014701-05**		Prepared & Analyzed: 08/19/16						
Benzene	25.4	1.00	ug/L	27.78	U	91.6	60-135	1.06	20	
Toluene	19.4	1.00	ug/L	27.78	U	70.0	60-135	3.98	20	
Chlorobenzene	23.9	1.00	ug/L	27.78	U	86.1	60-135	2.27	20	
Trichloroethene	21.6	1.00	ug/L	27.78	U	77.8	60-135	3.49	20	
Surrogate: Dibromofluoromethane	*17.7*		*ug/L*	*15.00*		*118*	*62-136*			
Surrogate: Toluene-d8	*16.0*		*ug/L*	*15.00*		*106*	*66-144*			
Surrogate: 4-Bromofluorobenzene	*13.9*		*ug/L*	*15.00*		*92.6*	*70-131*			
EPA 8100 PAH List - Quality Control										
Batch B608164 - EPA 3510C										
Blank (B608164-BLK1)				Prepared: 08/17/16 Analyzed: 08/18/16						
Naphthalene	U	10.0	ug/L							U
2-Methylnaphthalene	U	10.0	ug/L							U
1-Methylnaphthalene	U	10.0	ug/L							U
Acenaphthylene	U	10.0	ug/L							U
Acenaphthene	U	10.0	ug/L							U
Fluorene	U	10.0	ug/L							U

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LOG #: 0014701
COC#: 23391
REPORTED: 8/22/2016 4:34:50PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8100 PAH List - Quality Control										
Batch B608164 - EPA 3510C										
Blank (B608164-BLK1) Continued				Prepared: 08/17/16 Analyzed: 08/18/16						
Phenanthrene	U	10.0	ug/L							U
Anthracene	U	0.0300	ug/L							U
Fluoranthene	U	0.0300	ug/L							U
Pyrene	U	10.0	ug/L							U
Benzo[a]anthracene	U	0.0500	ug/L							U
Chrysene	U	0.200	ug/L							U
Benzo[b]fluoranthene	U	0.0500	ug/L							U
Benzo[k]fluoranthene	U	0.500	ug/L							U
Benzo[a]pyrene	U	0.200	ug/L							U
Dibenz[a,h]anthracene	U	0.0500	ug/L							U
Indeno[1,2,3-cd]pyrene	U	0.0500	ug/L							U
Benzo[g,h,i]perylene	U	10.0	ug/L							U
Surrogate: Nitrobenzene-d5	*10*		*ug/L*	*10.00*		*102*	*40-142*			
Surrogate: 2-Fluorobiphenyl	*8.2*		*ug/L*	*10.00*		*82.5*	*47-150*			
Surrogate: p-Terphenyl-d14	*10*		*ug/L*	*10.00*		*100*	*55-165*			
LCS (B608164-BS1)				Prepared: 08/17/16 Analyzed: 08/18/16						
Naphthalene	42.2	10.0	ug/L	40.00		106	60-135			
Acenaphthylene	43.0	10.0	ug/L	40.00		108	60-135			
Pyrene	42.3	10.0	ug/L	40.00		106	60-135			
4-Chloro-3-methylphenol	44.1	10.0	ug/L	40.00		110	60-135			
Di-n-octylphthalate	42.0	10.0	ug/L	40.00		105	60-135			
Hexachlorobenzene	42.3	10.0	ug/L	40.00		106	60-135			
2-Methylphenol	43.5	10.0	ug/L	40.00		109	60-135			
Nitrobenzene	44.4	10.0	ug/L	40.00		111	60-135			
Surrogate: Nitrobenzene-d5	*11*		*ug/L*	*10.00*		*109*	*60-135*			
Surrogate: 2-Fluorobiphenyl	*12*		*ug/L*	*10.00*		*115*	*60-135*			
Surrogate: p-Terphenyl-d14	*9.9*		*ug/L*	*10.00*		*99.2*	*60-135*			
LCS Dup (B608164-BSD1)				Prepared: 08/17/16 Analyzed: 08/18/16						
Naphthalene	44.2	10.0	ug/L	40.00		110	60-135	4.47	20	
Acenaphthylene	43.9	10.0	ug/L	40.00		110	60-135	2.12	20	
Pyrene	46.6	10.0	ug/L	40.00		117	60-135	9.79	20	
4-Chloro-3-methylphenol	44.0	10.0	ug/L	40.00		110	60-135	0.363	200	
Di-n-octylphthalate	42.7	10.0	ug/L	40.00		107	60-135	1.63	200	
Hexachlorobenzene	44.9	10.0	ug/L	40.00		112	60-135	5.97	200	
2-Methylphenol	45.7	10.0	ug/L	40.00		114	60-135	4.82	200	
Nitrobenzene	41.7	10.0	ug/L	40.00		104	60-135	6.18	200	

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LOG #: 0014701
COC#: 23391
REPORTED: 8/22/2016 4:34:50PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8100 PAH List - Quality Control										
Batch B608164 - EPA 3510C										
LCS Dup (B608164-BSD1) Continued					Prepared: 08/17/16 Analyzed: 08/18/16					
Surrogate: Nitrobenzene-d5	*12*		*ug/L*	*10.00*		*119*	*60-135*			
Surrogate: 2-Fluorobiphenyl	*13*		*ug/L*	*10.00*		*130*	*60-135*			
Surrogate: p-Terphenyl-d14	*11*		*ug/L*	*10.00*		*112*	*60-135*			
Calibration Check (B608164-CCV1)					Prepared: 08/17/16 Analyzed: 08/18/16					
Naphthalene	43.6		ug/L	45.00		96.9	85-115			
Acenaphthylene	45.7		ug/L	45.00		102	85-115			
Pyrene	43.9		ug/L	45.00		97.6	85-115			
4-Chloro-3-methylphenol	46.1		ug/L	45.00		102	85-115			
Di-n-octylphthalate	43.6		ug/L	45.00		96.8	85-115			
Hexachlorobenzene	47.7		ug/L	45.00		106	85-115			
2-Methylphenol	43.7		ug/L	45.00		97.2	85-115			
Nitrobenzene	46.7		ug/L	45.00		104	85-115			
Surrogate: Nitrobenzene-d5	*13*		*ug/L*	*15.00*		*86.8*	*0-200*			
Surrogate: 2-Fluorobiphenyl	*15*		*ug/L*	*15.00*		*97.5*	*0-200*			
Surrogate: p-Terphenyl-d14	*15*		*ug/L*	*15.00*		*103*	*0-200*			
Duplicate (B608164-DUP1)		**Source: 0014692-01**			Prepared: 08/17/16 Analyzed: 08/18/16					
Naphthalene	U	10.0	ug/L		U				200	U
Acenaphthylene	U	10.0	ug/L		U				200	U
Pyrene	U	10.0	ug/L		U				200	U
4-Chloro-3-methylphenol	U	10.0	ug/L		U				200	U
Di-n-octylphthalate	U	10.0	ug/L		U				200	U
Hexachlorobenzene	U	10.0	ug/L		U				200	U
2-Methylphenol	U	10.0	ug/L		U				200	U
Nitrobenzene	U	10.0	ug/L		U				200	U
Surrogate: Nitrobenzene-d5	*8.4*		*ug/L*	*10.00*		*84.0*	*40-142*			
Surrogate: 2-Fluorobiphenyl	*8.4*		*ug/L*	*10.00*		*84.2*	*47-150*			
Surrogate: p-Terphenyl-d14	*9.0*		*ug/L*	*10.00*		*90.1*	*55-165*			
Matrix Spike (B608164-MS1)		**Source: 0014692-01**			Prepared: 08/17/16 Analyzed: 08/18/16					
Naphthalene	42.3	10.0	ug/L	40.00	U	106	60-135			
Acenaphthylene	43.0	10.0	ug/L	40.00	U	107	60-135			
Pyrene	44.5	10.0	ug/L	40.00	U	111	60-135			
4-Chloro-3-methylphenol	46.2	10.0	ug/L	40.00	U	115	60-135			
Di-n-octylphthalate	42.0	10.0	ug/L	40.00	U	105	60-135			
Hexachlorobenzene	46.1	10.0	ug/L	40.00	U	115	60-135			
2-Methylphenol	43.5	10.0	ug/L	40.00	U	109	60-135			
Nitrobenzene	46.1	10.0	ug/L	40.00	U	115	60-135			

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LOG #: 0014701
COC#: 23391
REPORTED: 8/22/2016 4:34:50PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8100 PAH List - Quality Control										
Batch B608164 - EPA 3510C										
Matrix Spike (B608164-MS1) Continued		**Source: 0014692-01**		Prepared: 08/17/16 Analyzed: 08/18/16						
Surrogate: Nitrobenzene-d5	*12*		*ug/L*	*10.00*		*120*	*60-135*			
Surrogate: 2-Fluorobiphenyl	*12*		*ug/L*	*10.00*		*124*	*60-135*			
Surrogate: p-Terphenyl-d14	*12*		*ug/L*	*10.00*		*118*	*60-135*			
Matrix Spike Dup (B608164-MSD1)		**Source: 0014692-01**		Prepared: 08/17/16 Analyzed: 08/18/16						
Naphthalene	41.7	10.0	ug/L	40.00	U	104	60-135	1.31	20	
Acenaphthylene	42.1	10.0	ug/L	40.00	U	105	60-135	2.00	20	
Pyrene	43.0	10.0	ug/L	40.00	U	107	60-135	3.45	20	
4-Chloro-3-methylphenol	42.2	10.0	ug/L	40.00	U	106	60-135	8.98	20	
Di-n-octylphthalate	43.3	10.0	ug/L	40.00	U	108	60-135	3.05	20	
Hexachlorobenzene	45.0	10.0	ug/L	40.00	U	112	60-135	2.42	20	
2-Methylphenol	40.4	10.0	ug/L	40.00	U	101	60-135	7.32	20	
Nitrobenzene	41.4	10.0	ug/L	40.00	U	103	60-135	10.7	20	
Surrogate: Nitrobenzene-d5	*10*		*ug/L*	*10.00*		*102*	*60-135*			
Surrogate: 2-Fluorobiphenyl	*11*		*ug/L*	*10.00*		*112*	*60-135*			
Surrogate: p-Terphenyl-d14	*10*		*ug/L*	*10.00*		*103*	*60-135*			
FLPRO - Quality Control										
Batch B608165 - EPA 3510C										
Blank (B608165-BLK1)				Prepared & Analyzed: 08/17/16						
FLPRO Total	U	0.500	mg/L							U
Surrogate: o-Terphenyl	*0.0590*		*mg/L*	*0.05000*		*118*	*70-130*			
Surrogate: Nonatriacontane	*0.388*		*mg/L*	*0.3000*		*129*	*42-193*			
LCS (B608165-BS1)				Prepared & Analyzed: 08/17/16						
FLPRO Total	1.19	0.500	mg/L	1.360		87.3	60-120			
Surrogate: o-Terphenyl	*0.0599*		*mg/L*	*0.05000*		*120*	*70-130*			
Surrogate: Nonatriacontane	*0.416*		*mg/L*	*0.3000*		*139*	*42-193*			
LCS Dup (B608165-BSD1)				Prepared & Analyzed: 08/17/16						
FLPRO Total	1.31	0.500	mg/L	1.360		96.2	60-120	9.71	30	
Surrogate: o-Terphenyl	*0.0574*		*mg/L*	*0.05000*		*115*	*70-130*			
Surrogate: Nonatriacontane	*0.450*		*mg/L*	*0.3000*		*150*	*42-193*			
Calibration Check (B608165-CCV1)				Prepared & Analyzed: 08/17/16						
FLPRO Total	1.09		mg/L	1.360		80.2	70-130			
Surrogate: o-Terphenyl	*0.0561*		*mg/L*	*0.05000*		*112*	*0-200*			
Surrogate: Nonatriacontane	*0.292*		*mg/L*	*0.3000*		*97.3*	*0-200*			
Calibration Check (B608165-CCV2)				Prepared: 08/17/16 Analyzed: 08/18/16						

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LOG #: 0014701
COC#: 23391
REPORTED: 8/22/2016 4:34:50PM
PROJECT #: 8514018
PROJECT: Palm Beach Cnty Transit Auth

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
FLPRO - Quality Control										
Batch B608165 - EPA 3510C										
Calibration Check (B608165-CCV2) Continued				Prepared: 08/17/16 Analyzed: 08/18/16						
FLPRO Total	1.14		mg/L	1.360		84.1	70-130			
Surrogate: o-Terphenyl	*0.0587*		*mg/L*	*0.05000*		*117*	*0-200*			
Surrogate: Nonatriacontane	*0.350*		*mg/L*	*0.3000*		*117*	*0-200*			
Duplicate (B608165-DUP1)		**Source: 0014692-01**		Prepared & Analyzed: 08/17/16						
FLPRO Total	0.073	0.500	mg/L		0.062			16.9	200	I
Surrogate: o-Terphenyl	*0.0592*		*mg/L*	*0.05000*		*118*	*70-130*			
Surrogate: Nonatriacontane	*0.238*		*mg/L*	*0.3000*		*79.3*	*42-193*			
Matrix Spike (B608165-MS1)		**Source: 0014692-01**		Prepared & Analyzed: 08/17/16						
FLPRO Total	1.05	0.500	mg/L	1.360	0.062	72.4	40-155			
Surrogate: o-Terphenyl	*0.0534*		*mg/L*	*0.05000*		*107*	*70-130*			
Surrogate: Nonatriacontane	*0.205*		*mg/L*	*0.3000*		*68.5*	*42-193*			
Matrix Spike Dup (B608165-MSD1)		**Source: 0014692-01**		Prepared: 08/17/16 Analyzed: 08/18/16						
FLPRO Total	1.11	0.500	mg/L	1.360	0.062	77.1	40-155	5.91	30	
Surrogate: o-Terphenyl	*0.0548*		*mg/L*	*0.05000*		*110*	*70-130*			
Surrogate: Nonatriacontane	*0.229*		*mg/L*	*0.3000*		*76.4*	*42-193*			

Notes and Definitions

U	Analyte included in the analysis, but not detected
I	The reported value is between the laboratory Method Detection Limit & the laboratory Practical Quantitation Limit

Palm Beach Environmental Laboratories, Inc.

Log #: 14701
PO #:
Quote #:
FDEP :

CHAIN OF CUSTODY RECORD

Company Name: Terracon
Address: 1225 Omar Rd
City: WPB State: FL Zip: 33405
Attn: Andrew Pettric Phone#: 561 689 4299
email: andrew.pettric@terracon.com Fax#: 561 689 5955
Project Name: Former PalmTran Proj#: N0167057
Sampler Signature / Name: Randall Murphy / Randall Murphy

LAB ANALYSIS

#	Sample Label (Client ID)	Collect Date	Collect Time	Matrix	Field Filtered	Integrity OK	Total # of containers	pH	PRES CODE	Parameters: BTEX - MTBE by 8260	Parameters: PAH by 527W	Parameters: TRPH by FL PRO	Parameters: 8/16/16 & HEAPNO
										I	I	IE	
1	MW 6	8/15/16	0914	GW	-		4			X	X	X	<2
2	MW 7		1004		-		4			X	X	X	<2
3	MW 8		1057		-		4			X	X	X	<2
4	MW 3		1149		-		4			X	X	X	<2
5	MW 5		1233		-		8			X	X	X	<2
6	~~Duplicate~~						4			X	X	X	PS
7	MW 4		1407		-		4			X	X	X	<2
8	MW 2		1500		-		4			X	X	X	<2
9	MW 1D		1539		-		4			X	X	X	<2
10	MW 1		1619		-		6			X	X	X	<2

Matrix Codes

SD	Solid Waste	OL	Oil
GW	Ground Water	SL	Sludge
EFF	Effluent	SO	Soil Sediment
AFW	Analyte Free H2O	AQ	Aqueous
WW	Waste Water	NA	Nonaqueous
DW	Drinking Water		
SW	Surface Water	O	Other (Please Specify)

Press Codes

A. None	E. HCL	O. Other
B. HNO3	F. MeOH	
C. H2SO4	G. Na2S2O3	
D. NaOH	I. Ice	

#4.1
"
"
"

T.A.T. Request: Standard (Y/N) RUSH: 24 Hour, 48 Hour Date Due

QA/QC Report Level: None ___ 1 ___ 2 ___ 3 ✓ Other DMP1

COC OK: (Y) N

Initials: DM

Item	Relinquished by	Affiliation	Date	Time	Received By	Affiliation	Date	Time
All	Randall Murphy	Terracon	8/15/16	16:31		PBEL	8/15/16	16:31

Lab Use Only

	Yes	No	N/A
Sample INTACT upon arrival?	✓		
Received on Wet Ice? Temp ___ °C	✓		
Proper Preservatives Indicated?	✓		
Received within holding time?	✓		
Custody seals intact?			
Volatile rec'd without headspace?	✓		
Proper Containers Used?	✓		