

February 07, 2011

Ms. Jennifer Stirk Volusia County Solid Waste Management 1990 Tomoka Farms Road Port Orange, FL 32128

RE: Project: Tomoka Remediation

Pace Project No.: 3525789

Dear Ms. Stirk:

Enclosed are the analytical results for sample(s) received by the laboratory on February 03, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Baylor

jeff.baylor@pacelabs.com Project Manager

Jeff Baylor

Enclosures

cc: Ms. Lynne McDaniel, HDR Engineering, Inc.



Pace Analytical Services, Inc.

8 East Tower Circle Ormond Beach, FL 32174 (386)672-5668

CERTIFICATIONS

Project: Tomoka Remediation

Pace Project No.: 3525789

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174

Alabama Certification #: 41320 Arizona Certification #: AZ0735

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH 0216 Florida Certification #: E83079

Georgia Certification #: 955 Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383 Kentucky Certification #: 90050 Louisiana Certification #: LA090012

Louisiana Environmental Certificate #: 05007

Maine Certification #: FL1264

Massachusetts Certification #: M-FL1264

Michigan Certification #: 9911 Mississippi Certification: FL NELAC Reciprocity

Montana Certification #: Cert 0074 Nevada Certification: FL NELAC Reciprocity

New Hampshire Certification #: 2958

New Jersey Certification #: FL765 New York Certification #: 11608

North Carolina Environmental Certificate #: 667 North Carolina Certification #: 12710

Pennsylvania Certification #: 68-547 Puerto Rico Certification #: FL01264 Tennessee Certification #: TN02974 Texas Certification: FL NELAC Reciprocity

Virginia Certification #: 00432

Wyoming Certification: FL NELAC Reciprocity





SAMPLE SUMMARY

Project: Tomoka Remediation

Pace Project No.: 3525789

Lab ID	Sample ID	Matrix	Date Collected	Date Received
3525789001	EQ Blank	Water	02/02/11 10:20	02/03/11 07:15
3525789002	B-68	Water	02/02/11 11:06	02/03/11 07:15
3525789003	B-59-1	Water	02/02/11 11:36	02/03/11 07:15
3525789004	B-75	Water	02/02/11 12:19	02/03/11 07:15
3525789005	B38-2	Water	02/02/11 13:10	02/03/11 07:15
3525789006	B37-1	Water	02/02/11 13:53	02/03/11 07:15
3525789007	B-64	Water	02/02/11 14:37	02/03/11 07:15
3525789008	B-2	Water	02/02/11 16:02	02/03/11 07:15
3525789009	B-8	Water	02/02/11 16:49	02/03/11 07:15





SAMPLE ANALYTE COUNT

Project: Tomoka Remediation

Pace Project No.: 3525789

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3525789001	EQ Blank	EPA 350.1	AMD	1	PASI-O
3525789002	B-68		JSB	6	PASI-O
		EPA 350.1	AMD	1	PASI-O
3525789003	B-59-1		JSB	6	PASI-O
		EPA 350.1	AMD	1	PASI-O
3525789004	B-75		JSB	6	PASI-O
		EPA 350.1	AMD	1	PASI-O
3525789005	B38-2		JSB	6	PASI-O
		EPA 350.1	AMD	1	PASI-O
3525789006	B37-1		JSB	6	PASI-O
		EPA 350.1	AMD	1	PASI-O
3525789007	B-64		JSB	6	PASI-O
		EPA 350.1	AMD	1	PASI-O
3525789008	B-2		JSB	6	PASI-O
		EPA 350.1	AMD	1	PASI-O
3525789009	B-8		JSB	6	PASI-O
		EPA 350.1	AMD	1	PASI-O





PROJECT NARRATIVE

Project: Tomoka Remediation

Pace Project No.: 3525789

Method:

Description: Field Data

Client: Volusia County Solid Waste Management

Date: February 07, 2011

General Information:

8 samples were analyzed for . All samples were received in acceptable condition with any exceptions noted below.

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

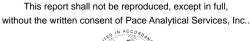
Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:











PROJECT NARRATIVE

Project: Tomoka Remediation

Pace Project No.: 3525789

Method: EPA 350.1
Description: 350.1 Ammonia

Client: Volusia County Solid Waste Management

Date: February 07, 2011

General Information:

9 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/8518

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 3525789006

J(M1): Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

• MS (Lab ID: 167963)

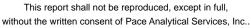
• Nitrogen, Ammonia

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.





REPORT OF LABORATORY ANALYSIS





Project: Tomoka Remediation

Pace Project No.: 3525789

Sample: EQ Blank Lab ID: 3525789001 Collected: 02/02/11 10:20 Received: 02/03/11 07:15 Matrix: Water

Parameters Results Units **PQL** MDL DF CAS No. Prepared Analyzed Qual

Analytical Method: EPA 350.1 350.1 Ammonia

0.020U mg/L 02/07/11 11:37 7664-41-7 Nitrogen, Ammonia 0.050 0.020

Date: 02/07/2011 06:12 PM

REPORT OF LABORATORY ANALYSIS

Page 7 of 19





Project: Tomoka Remediation

Pace Project No.: 3525789

Turbidity

350.1 Ammonia

Nitrogen, Ammonia

Sample: B-68	Lab ID: 3525789	002 Collec	ted: 02/02/	11 11:06	Received: 02	2/03/11 07:15 M	atrix: Water	
Parameters	Results Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	5.87 Std. Units			1		02/03/11 11:21		
Field Temperature	23.94 deg C			1		02/03/11 11:21		
Field Specific Conductance	693 umhos/cm			1		02/03/11 11:21		
Oxygen, Dissolved	0.24 mg/L			1		02/03/11 11:21	7782-44-7	
REDOX	5.9 mV			1		02/03/11 11:21		

0.050

1

0.020

02/03/11 11:21

02/07/11 11:39 7664-41-7

1.4 NTU

1.1 mg/L

Analytical Method: EPA 350.1





Project: Tomoka Remediation

Pace Project No.: 3525789

Sample: B-59-1 Lab ID: 3525789003 Collected: 02/02/11 11:36 Received: 02/03/11 07:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
Field pH	6.69	Std. Units			1		02/03/11 11:22		
Field Temperature	23.71 d	leg C			1		02/03/11 11:22		
Field Specific Conductance	666 u	ımhos/cm			1		02/03/11 11:22		
Oxygen, Dissolved	0.12 r	ng/L			1		02/03/11 11:22	7782-44-7	
REDOX	-80.9 r	nV			1		02/03/11 11:22		
Turbidity	1.0 N	NTU			1		02/03/11 11:22		
350.1 Ammonia	Analytical	Method: EPA	350.1						
Nitrogen, Ammonia	0.12 r	ng/L	0.050	0.020	1		02/07/11 11:40	7664-41-7	





Project: Tomoka Remediation

Pace Project No.: 3525789

Sample: B-75 Lab ID: 3525789004 Collected: 02/02/11 12:19 Received: 02/03/11 07:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
Field pH	6.45 S	Std. Units			1		02/03/11 11:22		
Field Temperature	22.86 d	leg C			1		02/03/11 11:22		
Field Specific Conductance	1375 U	ımhos/cm			1		02/03/11 11:22		
Oxygen, Dissolved	0.22 n	ng/L			1		02/03/11 11:22	7782-44-7	
REDOX	-77.3 n	nV			1		02/03/11 11:22		
Turbidity	9.5 N	NTU			1		02/03/11 11:22		
350.1 Ammonia	Analytical	Method: EPA	350.1						
Nitrogen, Ammonia	0.93 n	ng/L	0.050	0.020	1		02/07/11 11:42	7664-41-7	

Date: 02/07/2011 06:12 PM

REPORT OF LABORATORY ANALYSIS

Page 10 of 19





Project: Tomoka Remediation

Pace Project No.: 3525789

Sample: B38-2 Lab ID: 3525789005 Collected: 02/02/11 13:10 Received: 02/03/11 07:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
Field pH	5.95	Std. Units			1		02/03/11 11:23		
Field Temperature	17.66 d	leg C			1		02/03/11 11:23		
Field Specific Conductance	434 u	ımhos/cm			1		02/03/11 11:23		
Oxygen, Dissolved	0.16 n	ng/L			1		02/03/11 11:23	7782-44-7	
REDOX	142.6 n	nV			1		02/03/11 11:23		
Turbidity	2.8 1	NTU			1		02/03/11 11:23		
350.1 Ammonia	Analytical	Method: EPA	350.1						
Nitrogen, Ammonia	0.28 r	ng/L	0.050	0.020	1		02/07/11 11:43	7664-41-7	



02/07/11 11:47 7664-41-7

J(M1)



ANALYTICAL RESULTS

Project: Tomoka Remediation

Pace Project No.: 3525789

Nitrogen, Ammonia

Sample: B37-1	Lab ID: 35257890	06 Collec	ted: 02/02/	11 13:53	Received: 02	/03/11 07:15 Ma	atrix: Water	
Parameters	Results Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	6.62 Std. Units			1		02/03/11 11:23		
Field Temperature	22.30 deg C			1		02/03/11 11:23		
Field Specific Conductance	2127 umhos/cm			1		02/03/11 11:23		
Oxygen, Dissolved	0.18 mg/L			1		02/03/11 11:23	7782-44-7	
REDOX	-88.5 mV			1		02/03/11 11:23		
Turbidity	16 NTU			1		02/03/11 11:23		
350.1 Ammonia	Analytical Method: E	PA 350.1						

0.050

0.020 1

0.86 mg/L

Date: 02/07/2011 06:12 PM

REPORT OF LABORATORY ANALYSIS

Page 12 of 19



02/07/11 11:55 7664-41-7



ANALYTICAL RESULTS

Project: Tomoka Remediation

Pace Project No.: 3525789

350.1 Ammonia

Nitrogen, Ammonia

Sample: B-64	Lab ID: 35	525789007	Collecte	d: 02/02/1 ⁻	1 14:37	Received: 02/	03/11 07:15 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Me	ethod:							
Field pH	6.71 Std.	Units			1		02/03/11 11:24		
Field Temperature	18.62 deg	С			1		02/03/11 11:24		
Field Specific Conductance	814 umh	nos/cm			1		02/03/11 11:24		
Oxygen, Dissolved	0.25 mg/l	L			1		02/03/11 11:24	7782-44-7	
REDOX	-118.7 mV				1		02/03/11 11:24		
Turbidity	6.4 NTU	J			1		02/03/11 11:24		

0.050

0.020 1

Analytical Method: EPA 350.1

0.98 mg/L





Project: Tomoka Remediation

Pace Project No.: 3525789

Sample: B-2	Lab ID: 3525789008	Collected: 02/02/11 16:0	2 Received:	02/03/11 07:15	Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytica	l Method:							
Field pH	5.51	Std. Units			1		02/03/11 11:24		
Field Temperature	22.11 (deg C			1		02/03/11 11:24		
Field Specific Conductance	1050 (umhos/cm			1		02/03/11 11:24		
Oxygen, Dissolved	0.26 r	mg/L			1		02/03/11 11:24	7782-44-7	
REDOX	31.2 r	mV			1		02/03/11 11:24		
Turbidity	1 6.8	NTU			1		02/03/11 11:24		
350.1 Ammonia	Analytica	l Method: EPA	350.1						
Nitrogen, Ammonia	3.1 r	mg/L	0.050	0.020	1		02/07/11 11:56	7664-41-7	

Date: 02/07/2011 06:12 PM

REPORT OF LABORATORY ANALYSIS

Page 14 of 19



02/07/11 11:58 7664-41-7



ANALYTICAL RESULTS

Project: Tomoka Remediation

Pace Project No.: 3525789

350.1 Ammonia

Nitrogen, Ammonia

Sample: B-8	Lab ID: 3525789009		Collect	Collected: 02/02/11 16:49		Received: 02	2/03/11 07:15 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytica	al Method:							
Field pH	6.55	Std. Units			1		02/03/11 11:25		
Field Temperature	24.14	deg C			1		02/03/11 11:25		
Field Specific Conductance	602	umhos/cm			1		02/03/11 11:25		
Oxygen, Dissolved	0.26	mg/L			1		02/03/11 11:25	7782-44-7	
REDOX	-54.4	mV			1		02/03/11 11:25		
Turbidity	0.50	NTU			1		02/03/11 11:25		

0.050

0.020

1

Analytical Method: EPA 350.1

0.20 mg/L

Date: 02/07/2011 06:12 PM

REPORT OF LABORATORY ANALYSIS





QUALITY CONTROL DATA

Project: Tomoka Remediation

Pace Project No.: 3525789

QC Batch: WETA/8517 Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia

Associated Lab Samples: 3525789001, 3525789002, 3525789003, 3525789004, 3525789005

METHOD BLANK: 167956 Matrix: Water

Associated Lab Samples: 3525789001, 3525789002, 3525789003, 3525789004, 3525789005

Blank

Reporting

Parameter Units Result Limit Analyzed Qualifiers

Nitrogen, Ammonia mg/L 0.020U 0.050 02/07/11 11:04

LABORATORY CONTROL SAMPLE: 167957

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Nitrogen, Ammonia mg/L 1.0 101 90-110

MATRIX SPIKE SAMPLE: 167959

MS 3525729001 Spike MS % Rec Parameter Units Result Conc. Result % Rec Limits Qualifiers Nitrogen, Ammonia 0.036 I 1.0 1 99 90-110 mg/L

SAMPLE DUPLICATE: 167958

Parameter Units Result Result RPD Qualifiers

Nitrogen, Ammonia mg/L 0.036 I 0.045 I 20





QUALITY CONTROL DATA

Project: Tomoka Remediation

Pace Project No.: 3525789

QC Batch: WETA/8518 Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia

Associated Lab Samples: 3525789006, 3525789007, 3525789008, 3525789009

METHOD BLANK: 167960 Matrix: Water

Associated Lab Samples: 3525789006, 3525789007, 3525789008, 3525789009

Blank Reporting

ParameterUnitsResultLimitAnalyzedQualifiersNitrogen, Ammoniamg/L0.020U0.05002/07/11 11:45

LABORATORY CONTROL SAMPLE: 167961

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Nitrogen, Ammonia mg/L 1.0 101 90-110

MATRIX SPIKE SAMPLE: 167963

MS 3525789006 Spike MS % Rec Parameter Units Result Conc. Result % Rec Limits Qualifiers 0.86 1 1.6 76 90-110 J(M1) Nitrogen, Ammonia mg/L

SAMPLE DUPLICATE: 167962

3525789006 Dup Max RPD RPD Parameter Units Result Result Qualifiers 0.86 Nitrogen, Ammonia mg/L 0.87 2 20





QUALIFIERS

Project: Tomoka Remediation

Pace Project No.: 3525789

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

Date: 02/07/2011 06:12 PM

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

J(M1) Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS)

ecovery.







QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tomoka Remediation

Pace Project No.: 3525789

3525789003 B-59-1 FLD/ 3525789004 B-75 FLD/ 3525789005 B38-2 FLD/ 3525789006 B37-1 FLD/ 3525789007 B-64 FLD/ 3525789008 B-2 FLD/ 3525789009 B-8 FLD/ 3525789001 EQ Blank EPA 350.1 WETA/8517 3525789002 B-68 EPA 350.1 WETA/8517 3525789003 B-59-1 EPA 350.1 WETA/8517 3525789004 B-75 EPA 350.1 WETA/8517 3525789005 B38-2 EPA 350.1 WETA/8517 3525789007 B-64 EPA 350.1 WETA/8518 3525789008 B-2 EPA 350.1 WETA/8518	Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3525789004 B-75 FLD/ 3525789005 B38-2 FLD/ 3525789006 B37-1 FLD/ 3525789007 B-64 FLD/ 3525789008 B-2 FLD/ 3525789009 B-8 FLD/ 3525789001 EQ Blank EPA 350.1 WETA/8517 3525789002 B-68 EPA 350.1 WETA/8517 3525789003 B-59-1 EPA 350.1 WETA/8517 3525789004 B-75 EPA 350.1 WETA/8517 3525789005 B38-2 EPA 350.1 WETA/8518 3525789007 B-64 EPA 350.1 WETA/8518 3525789008 B-2 EPA 350.1 WETA/8518	3525789002	B-68		FLD/		
3525789005 B38-2 FLD/ 3525789006 B37-1 FLD/ 3525789007 B-64 FLD/ 3525789008 B-2 FLD/ 3525789009 B-8 FLD/ 3525789001 EQ Blank EPA 350.1 WETA/8517 3525789002 B-68 EPA 350.1 WETA/8517 3525789003 B-59-1 EPA 350.1 WETA/8517 3525789004 B-75 EPA 350.1 WETA/8517 3525789005 B38-2 EPA 350.1 WETA/8517 3525789006 B37-1 EPA 350.1 WETA/8518 3525789007 B-64 EPA 350.1 WETA/8518 3525789008 B-2 EPA 350.1 WETA/8518	3525789003	B-59-1		FLD/		
3525789006 B37-1 FLD/ 3525789007 B-64 FLD/ 3525789008 B-2 FLD/ 3525789009 B-8 FLD/ 3525789001 EQ Blank EPA 350.1 WETA/8517 3525789002 B-68 EPA 350.1 WETA/8517 3525789003 B-59-1 EPA 350.1 WETA/8517 3525789004 B-75 EPA 350.1 WETA/8517 3525789005 B38-2 EPA 350.1 WETA/8518 3525789007 B-64 EPA 350.1 WETA/8518 3525789008 B-2 EPA 350.1 WETA/8518	3525789004	B-75		FLD/		
3525789007 B-64 FLD/ 3525789008 B-2 FLD/ 3525789009 B-8 FLD/ 3525789001 EQ Blank EPA 350.1 WETA/8517 3525789002 B-68 EPA 350.1 WETA/8517 3525789003 B-59-1 EPA 350.1 WETA/8517 3525789004 B-75 EPA 350.1 WETA/8517 3525789005 B38-2 EPA 350.1 WETA/8518 3525789007 B-64 EPA 350.1 WETA/8518 3525789008 B-2 EPA 350.1 WETA/8518	3525789005	B38-2		FLD/		
3525789008 B-2 FLD/ 3525789009 B-8 FLD/ 3525789001 EQ Blank EPA 350.1 WETA/8517 3525789002 B-68 EPA 350.1 WETA/8517 3525789003 B-59-1 EPA 350.1 WETA/8517 3525789004 B-75 EPA 350.1 WETA/8517 3525789005 B38-2 EPA 350.1 WETA/8517 3525789006 B37-1 EPA 350.1 WETA/8518 3525789007 B-64 EPA 350.1 WETA/8518 3525789008 B-2 EPA 350.1 WETA/8518	3525789006	B37-1		FLD/		
3525789009 B-8 FLD/ 3525789001 EQ Blank EPA 350.1 WETA/8517 3525789002 B-68 EPA 350.1 WETA/8517 3525789003 B-59-1 EPA 350.1 WETA/8517 3525789004 B-75 EPA 350.1 WETA/8517 3525789005 B38-2 EPA 350.1 WETA/8517 3525789006 B37-1 EPA 350.1 WETA/8518 3525789007 B-64 EPA 350.1 WETA/8518 3525789008 B-2 EPA 350.1 WETA/8518	3525789007	B-64		FLD/		
3525789001 EQ Blank EPA 350.1 WETA/8517 3525789002 B-68 EPA 350.1 WETA/8517 3525789003 B-59-1 EPA 350.1 WETA/8517 3525789004 B-75 EPA 350.1 WETA/8517 3525789005 B38-2 EPA 350.1 WETA/8517 3525789006 B37-1 EPA 350.1 WETA/8518 3525789007 B-64 EPA 350.1 WETA/8518 3525789008 B-2 EPA 350.1 WETA/8518	3525789008	B-2		FLD/		
3525789002 B-68 EPA 350.1 WETA/8517 3525789003 B-59-1 EPA 350.1 WETA/8517 3525789004 B-75 EPA 350.1 WETA/8517 3525789005 B38-2 EPA 350.1 WETA/8517 3525789006 B37-1 EPA 350.1 WETA/8518 3525789007 B-64 EPA 350.1 WETA/8518 3525789008 B-2 EPA 350.1 WETA/8518	3525789009	B-8		FLD/		
3525789003 B-59-1 EPA 350.1 WETA/8517 3525789004 B-75 EPA 350.1 WETA/8517 3525789005 B38-2 EPA 350.1 WETA/8517 3525789006 B37-1 EPA 350.1 WETA/8518 3525789007 B-64 EPA 350.1 WETA/8518 3525789008 B-2 EPA 350.1 WETA/8518	3525789001	EQ Blank	EPA 350.1	WETA/8517		
3525789004 B-75 EPA 350.1 WETA/8517 3525789005 B38-2 EPA 350.1 WETA/8517 3525789006 B37-1 EPA 350.1 WETA/8518 3525789007 B-64 EPA 350.1 WETA/8518 3525789008 B-2 EPA 350.1 WETA/8518	3525789002	B-68	EPA 350.1	WETA/8517		
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3525789006 B37-1 EPA 350.1 WETA/8518 3525789007 B-64 EPA 350.1 WETA/8518 3525789008 B-2 EPA 350.1 WETA/8518	3525789004	B-75	EPA 350.1	WETA/8517		
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3525789008 B-2 EPA 350.1 WETA/8518	3525789006	B37-1	EPA 350.1	WETA/8518		
	3525789007	B-64	EPA 350.1	WETA/8518		
3525789009 B-8 EPA 350.1 WETA/8518	3525789008	B-2	EPA 350.1	WETA/8518		
	3525789009	B-8	EPA 350.1	WETA/8518		

Date: 02/07/2011 06:12 PM

REPORT OF LABORATORY ANALYSIS

Page 19 of 19



CHAIN-OF-CUSTODY / Analytical Request Document

25 55 789

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

DRINKING WATER 1421505 OTHER GROUND WATER | Page: REGULATORY AGENCY RCRA Requested Analysis Filtered (Y/N) ゼ STATE Site Location NPDES T UST Invoice Information: Company Name: Pace Quote Reference: Pace Project Manager: Pace Profile #: Section C Attention: Address: Project Name: Tomoka Remediation ががい Section B Required Project Information: Report To: Senniler ourchase Order No.: Project Number: Copy To: company Volusia Courty Address: 1990 Tomoka Farms Ro Daytona Bch, Fl. 32124 Pace Analytical" www.parelabs.com Fax: Section A Required Client Information: Requested Due Date/TAT: Email To:

1 l		-				-				Î					F				
	Section D Matrix Codes	(field)	1 :::	COLLECTED	этер		_	Pres	Preservatives	N/A									
	Drinking Water Water Waste Waler Product Soil/Soid	유 Valid codes to	COMPOSITE	SITE T	COMPOSITE END/GRAB					1						(N/Y) ə			
TEM #	SAMPLE ID OII Whe (A-Z, 0-9 /) Air Sample IDs MUST BE UNIQUE Tissue Other	WATRIX CODE (s	-D) ∃9YYE JYPR (G- A	<u>≥</u>	DATE	E TA 9M3T 3J9MAS	# OF CONTAINER	H/O3 H ^x SO ⁴ Dubteset/ved	Na ₂ S ₂ O ₃ HCI	Methanol Other LAnalysis Test	SHU					Residual Chlorin	ace Projec	Pace Project No./ Lab I.D	<u>.</u>
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1	ADDITIONAL COMMENTS		Fr. C. L.	7		11/2	12	200	1	- The same of the	المنح		2/2	11	1/5	00			
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_		4		SAMPLE	SAMPLER NAME AN	ND SIGNATURE	JRE	-						12	<i>2</i> ′′		(N	(i oetal	
					PRINT Nam	PRINT Name of SAMPLER:	$ \mathcal{S} $	taren	Smith						,	ni qm:	(Y) ea 	N/A)	ΛΥ)
					SIGNATUR	SIGNATURE of SAMPLER:		Arrivator	72		DATE	DATE Signed	22))		

F-ALL-Q-020rev.07, 15-May-2007

DATE Signed (MM/DD/YY): 2/2

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Site Na	ame: T	omol	kai Lan	dfill R	emedi	ation P	roject	•		1	Site Lo	cation	: Volusia	County, I	·L				-
Well#	Es	<u> </u>					S	Sampl	e ID:							Date:	2/2	<u>2</u> /11	
<u>_</u>					·			P	URGI	NG D	ATA			YSI.	: 026	06/26	97		
Well	A!!		ubing	2 (02)		Well Sci			Б		Sta	atic Der Water:	oth		Samp		n n		
Diamete	er: 2" olume Pur		Jiameter	: 3/8"		nterval Total W			Feet to				pacity= Well	Volume	Devi	ce:	PP		·····
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Faving	ent Volur	ne Dur	ae.	Dump \	/olume	(+ (Tobi	ing Con	-	Y Tubir	na Lenath		0.16 v Cell 3	/olume= Equ	Gallons/Fo					Gallo
Equipm	iciti voidi	iic i ui	gc.	i unip	orunic	(140)	ing Cap	acity	A Tubi	ig Congin	1) • 110•	W CCII	•	·	idillo				
Laded at D	ump or T	uhina				+(Pump o	or Tub	X)+ p.,	rging	= (Gallons Purging		To	tal Voli	ıme	
	n Well (Fe						ı in We		₆			tiated A	At:	Ended A	t:	1		iallons):	;
Time	Volume Purged	V	UMUL olume	Purg Rate	:	Depth to	pl (Stan	dard	Temp.	(μmt	luctivity hos/cm		Dissolved Oxygen	Turbidit (NTUs)		Color escribe)		dor scribe)	ORP
	(Gal)		urged (Gal)	(gpm	′ 1	Vater Feet)	Uni	its)		ОГД	ιS/cm)		cle mg/L or saturation)						
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V Ti	Well Capa ubing Insi	city (Ga de DIA	allons Pe A. Capac	er Foot): ity (Gal./	0.75" Ft.): 1	= 0.02; /8" = 0.0	1" = 0	3/16"	= 0.0014	0.06; 1/4" ING]); 5/°	= 0.37; 4 ³ 16" = 0.004;	" = 0.65; 3/8" = 0.)2; 6" : 1/2" = 0.		12" 5/8" =	= 5.88 = 0.016
-	ed By (Pri									Signature	S.	И.	,		Samp	ling Initia	ated		ing Ended
	y Smitl					Pace		<u> </u>	1	Huc		MIN			At: (20		At:	I Don't are
Pump ((Feet):	or Tubing	Deptl	ı in Wel			Pump or minut 100-		ate	Tubin	g Materia PE	il Code:	Fi	eld Decontan		Fi	Field-F [Yes] Iter Size:	M 0	: μm	Duplicat [Yes]
Sample Code		# Contai		Material Code				Volur		Preservati Used	I	rotal Vo Added i (mL)	-	Final pH		led Analy r Method	,		npling iipment ie
		Ī			PE			250	ml						Anior	ıs		1	PP
																		<u> </u>	
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Weath	ier		[] Su	rface W	ater			T	aken Fro	m:		[]V	Vaste Water	:: Start Tim	ie		ish Tin	ne	
onditi	ions			Depth:_ [] Lal	(a []	Ctranm			Shore Boat	[] Sur [] Mid			Sampling Po	int: Composite		Volt	ume:		
Sunny				rer []C				Ĩ)	Bridge	[] Bo	ttom		mL per: [iour[]		½ Ho	our[]	
	/ Cloud	ly	[]Soi	ls/Sedin	ent	9	ampling	LJ	Wading		ner ple Dept	h.	· ·	Composite	: []G	rab			
Cloud	•		L	ım Wast			ype:	5 - VIIII	-,	_	ers [Yes]			Composite					
	ature: 6		[]Oth				ampling	g Point	†-		ple Dep			Composite			 -		
	es] [N		Field I					5 · OIII		Juni	-Fra Dob		1.	1 00111h0010					
	eed: 10																		
			On Ice	@			Bottle	s Prese	erved <2	рН									
	Sheets		See	Wo	ork	Ord	ler/	Bo	ttle (Orde	er				,				

Site	lame:	Tom	okal Lar	ıdfill Rer	nediation l	Project			Site	Loc	ation: Volusia	County, F	⁷ L			
Well	#: B.	-68				S	ampl	e ID:				-	Da	te: 2/;	2/11	
		70,0		-			Pl	JRGIN	G DA	ГА		YSI:	02606	12697	·	
Well			Tubing	·	Well So						ic Depth /ater: 3.23		Sampling			
Diame			Diameter	r: 3/8"	Interval			Feet to		to W	/ater: 0.20		Device:	PP		
Well V	olume P	urge:								X We	ell Capacity= Wel	l Volume				
		-	· · · · · · ·		(35			8.18			0.16	Gallons/Fo		40		Gallons
Equipn	nent Vol	lume P	urge:	Pump Vo	lume + (Tub	oing Cap	acity :	X Tubing	Length) +	Flow	Cell Volume= Eq	uipment Vol	ume			
-					+(x	.)+		≂ (Gallons				
Initial I	Pump or	Tubin	g		Final	Pump o	r Tubi	ng		Purg	ging	Purging		Total Vo	lume	: 7.50
	in Well			1.5		h in Wel	1 1				ated At: 1050		: 1105			
Time	Volur Purge (Gal	đ	CUMUL Volume Purged (Gal)	Purge Rate (gpm)	Depth to Water (Feet)	pF (Stand Uni	dard	Temp. (^O C)	Conducti (µmhos/conduction) (µmhos/conduction)	.m	Dissolved Oxygen (circle(mg/Lor % saturation)	Turbidit (NTUs)			Odor escribe)	ÖRP
1059	4.51) (0 < 0	12.40	-0		22 011	691		· · · · · · · · · · · · · · · · · · ·	1.3	-			6.3
1	1.50			10.50		5.8		23.94			0.25		_ lov	_ 1	norre	 -
1102			0.00	 	12.31	5.8		23.97	688		0.21	0.95	+ 1		1	6.(
1105	1,5	/ 	7.50		12.23	5.3	4	23.94	693		0.24	1.4	+	<u> </u>		5.9
-	<u> </u>		·			 						· · · · · ·				
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		+		<u> </u>	ļ								- 			
		-		 	-								<u> </u>			
Stace	ed By (F ey Smi	th			/ Pace			npler(s) Si	ng DA	-th			Sampling At:	Initiated		ing Ended
Pump (Feet):	or Tubii ५	ıg Dep	th in Well		mple Pump L per minu 100		ate	Tubing l	Material Co PE	de:	Field Decontar			eld-Filtere Yes] [100] Size:		Duplicate: [Yes]
Sampl	e ID			Material			Volum	ie Pre	servative		otal Volume	Final	Intended A	Analysis	San	npling
Code		Cont	ainers	Code		٠ .		Us	ed	1	dded in Field iL)	pН	and/or Me	thod	Equ Coc	iipment Ia
			1		PE	——— 	250 1	ml		(11)	110)		Anions	-	1000	PP
					•					<u>† </u>						
															-	
						<u> </u> -		· · ·		 					<u> </u>	
	,					- -				1.		 		•	 -	
Weath	ıer		[]Sur	face Wate	er		T:	ken From	: ::::::::::::::::::::::::::::::::::::	1 7	[] Waste Water	r: Start Tim	e	Finish T	ime	
C <mark>onditi</mark>] Sunny	ions y		Total I	Depth:	[] Stream		[] []X []	Shore Boat Bridge	[] Surface [] Mid-Dep [] Bottom	oth	Sampling Po	int:] Composite		Volume:_ Grab	Hour []	
Partly		ay	[]Soil	ls/Sedimer	ıt S	ampling		Wading	[] Other Sample I	epth:	:] Composite	Grab			
Cloud	•	۸		m Waste		ype:			Layers [] Composite				
empera ain: [Y			[] Oth			ampling	Point:		Sample] Composite				•
ind Sp ind Di	eed:/	0-15	Field N													
		-	On Ice	@[108)	Bottles	Prese	rved <2pH	I ,							
ield\Field	Sheets		See	Wor	k Oro	der/]	Bot	tle O	rder						,	

1			andfill Rei	nediation l	Project		Site	Loca	tion: Volusia	County, F	řL			
Well #	#:b59-	-1			San	ple ID:	I				Dat	e: 2/3	Z / 11	
L	<u> </u>				· · · · · · · · · · · · · · · · · · ·	PURGI	NG DAT	Γ A	104011	YSI:	02606/	2627)		
Well Diamet Well V	ter: 2" olume Pur		er: 3/8"	Well So Interval (Total V	Depth:	Feet to – Static De	oth to Water)	Static to Wa X Wel	Depth 3.97- lter: 8.97-		Sampling Device:	PP		
							97) X 0	.16	Gallons/Fo	ot = 4.	В		Gallons
Equipm	nent Volun	ne Purge:	Pump Vo	lume + (Tub	ing Capacit	ty X Tubii	ıg Length) + I	Flow C	Cell Volume= Equ	uipment Vol	ume			
Initial I	Pump or Ti	ubing		+(Final	Pump or T	X ubing)+ 	Purgi	na	Gallons Purging		Total Vo	lume	
Depth i	in Well (Fe	eet): 13		Dept	h in Well:	<u>13 </u>		Initiat	ted At: 20	Ended At				7.5
Time	Volume Purged (Gal)	CUMUI Volume Purged (Gal)		Depth to Water (Feet)	pH (Standard Units)	d (°C)	Conductiv (µmhos/coorgaS/co	m	Dissolved Oxygen (circle ng/Dor % saturation)	Turbidit (NTUs)			Odor escribe)	ORP
1129	4.50	4.50	0.50	11.35	6.69	23.48	3 667	-	0.11	1.0	none	No	ne	-79.8
1132	1.50	6.90		11.20	6.69	23.6			0.15	0.85			1	80.1
1135_	1.50	7.50	<u> </u>	11.25	6.69	23.7	1 660	,	0.12	1.0	+		<u>} </u>	-80.9
				<u> </u>	ļ <u>.</u>						-			ļ
								\dashv		-				<u> </u>
		1 .											······································	
T	ubing Insid	de DIA. Capa	Per Foot): (acity (Gal./Fi	.75" = 0.02; .): 1/8" = 0.0	S	6" = 0.0014 SAMPL	$\frac{1/4" = 0.0}{\text{ING DA}}$		3" = 0.37; 4 5/16" = 0.004;			6" = 1.47 = 0.010;	5/8" =	= 5.88 : 0.016
1 -	ed By (Pri ey Smith			/Pace			Signatures Vi	th			Sampling I At: 113			ing Ended 1137
		Depth in We		ample Pump nL per minu 100			g Material Co		Field Decontai		Fie	ld-Filtered (es] [70]	d:	Duplicate: [Yes]
Sampl Code	e ID	# Containers	Material Code		Vo		Preservative Used		al Volume ded in Field _)	Final pH	Intended A and/or Me	nalysis		npling ripment
		1		PE	2	50 ml					Anions			PP
Weath	ıer	[]]\$	urface Wat	er		Taken Fro	om;		[] Waste Wate	r: Start Tim	ie	Finish Ti	me	
C <mark>ondi</mark> ti] Sunn	ions y	Tota Type []R	Depth: : [] Lake	[] Stream	ı	[] Shore [] Boat [] Bridge [] Wading	[] Surface [] Mid-Dej [] Bottom	oth	Sampling Po	oint:		Volume:_ irab		
Cloud	/ Cloud iv	[]8	oils/Sedime	nt S	Sampling Po		Sample I	Depth:] Composit				
empera	ature:60	, 130	rum Waste		Type:		Layers [] Composite				
_	es] [Ne eed: 10	- I Field	ther: Notes:		Sampling Po	oint:	Sample	Depth:	[] Composit	e []Grab			
-	irection	:N	<u>ما. م</u>	a	ga an e		,,							
		On I	^{ce} @ 3	B	Bottles Pr	reserved <2	рН							
Field\Field	Sheets	Se	e Wo	rk Or	der/B	ottle (Order							

	Site N	lame:	Tomokal	Landfil	l Ren	nediation l	Projec	t			Site	Loca	ition: Volusia	County, F	FL.				į
	Well	#: B	-75			-	1	Samp	le ID:		<u> </u>				D:	ate:	2/ Z	/ 11	
	L							P	URC	ING	DAT	À		YSI:	02606	/269	D		 J
	Well	ter: 2"	Tub	ing neter: 3	/Q"	Well Sc Interval			Feet	· fo		Statio to Wa	Depth ater: [.2]		Sampling		PP		
		olume Pu		neter.	70								ll Capacity= Well	Volume	Device:		rr		
						120	80	_	. []	1-21		v ().16	Gallons/Fo	ot = 1.5	53			Gallons
	Equip	nent Volu	me Purge:	Pun	ıp Vol				X Tu	bing Le	ngth) + F	low (Cell Volume= Equ	ipment Vol	lume				Ganons
						+(Х)+		= (Gallons					
	Initial I Depth	Pump or T in Well (F	Tubing Feet): 5			Final Dept	Pump h in We	or Tub	ning			Purgi Initia		Purging Ended At	t 1218		l Volui ged (Ga		2.75
	Time	Volum Purged (Gal)		me l ed (g	urge Rate gpm)	Depth to Water (Feet)	(Star	H ndard its)	Tem	\$\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Conductiv (µmhos/ci or µS/cm	ity m	Dissolved Oxygen (circle mg/Lor % saturation)	Turbidity (NTUs)		•	Od (Desc		ORP
md.	1207	1.75	1,7	<u> </u>	13	11.95	6.4	·<	137		1374	-+	0.21	12	yello		Non	А	-73.4
	124	0.50	2.2		<u>, , , , , , , , , , , , , , , , , , , </u>	1.73	6.4		22.8		1375	-	0.22	11	Jon		1001		-74. I
1218-		0.50	27		,	5	6.4		22.8		1375		0.27	9.5	1		7		77.3
1000	,						<u> </u>	-			7								
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			· ·							+		_		<u> </u>	-				
		l Well Capa	icity (Galloi	s Per Fo	ot): 0.	<u> </u> 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
	T	ubing Ins	ide DIA. C	apacity (C	al./Ft.)	: 1/8" = 0.0	0006;	3/161	' = 0.00	14; 1	/4" = 0.00	026;	5/16" = 0.004;	3/8" = 0.	006; 1/2	2" = 0.0	110;	5/8" =	0.016
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. SAMPLING DATA																			
		ed By (Pr						Sa	mpler(s) Signa	tures	'n			Sampling				ng Ended
		ey Smit	h Depth in	Wali	l Ca	/ Pace		lata.	T15	1810	terial Co	<u> </u>	Field Decontar		ALIU	ield-Fi		^{At.} 17	Duplicate:
	(Feet):	1	, Depui in	VV CII		L per minut	te):		1 40	•		uc.	[N			[Yes]			[Yes]
	Sampl		#	Mate	rial	100-	-200ml	Volu	me		PE rvative	Tot	 tal Volume	Final	Filter Intended	Size:		m Sam	[Mo] nline
	Code		Container					, 0,0		Used	.,	Ad	ded in Field	pH	and/or M	-	2.6	Equi	pment
٠			1		-	PE		250	ml		_	(m	L)		Anions			Code	PP P
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																	_		
	Weath			Surface		r			Taken F		C	-	[] Waste Water		ne		sh Time	===	
	onditi		T		Lake	[] Stream		[]] Shore Boat		Surface Mid-Dep	th	Sampling Po	ont:] Composite	[]	Volu Grab	me;		_
	Sunny	y 7 Cloud		River [] Othe	er] Bridg] Wadii		Bottom Other		mL per:	[] I	Hour []		1/2 Hou	ır []	
	Cloud		iy [Soils/Se	dimen	t S	amplin				ample D	epth:	[] Composite	e [] Grab				
		∙, iture:‰	5 T	Drum W	aste	T	уре:			I	Layers [Y	es] [[No] [] Composite	e []Grab				
	-	es] [Na	∐ اہ	Other:		S	amplin	g Poin	t:	,	Sample I	Depth	[] Composit	e []Grab				
W	ind Sp	eed:10	-15	eld Notes	:														
W	ind Di	rection	i: ル																
			0	lce @[[21		Bottle	s Pres	erved <	<2pH									
V:\Fi	eld\Field	Sheets	S	ee V	Vor	k Org	ler/	Во	ttle	Or	der								•

1	Jame:		kal Lar	ndfill R	temed	lation l	Projec	t			Site	Loc	ation: Volusia	County, I	FL				
Well	#: (539	3-2	-					Samp	le ID	:	. I					Date:	2/7	2 / 11	
				•			•	P	URO	GING	DAT	'Α	,	YSI.	: 026	06/26	97)	-	
Well Diame	ter 2"		Fubing Diameter	r: 3/9°	,]	Well So Interval			Fee	t to		Stati	c Depth 4, 44		Samp	ling		•	-
	olume Pu		Janete	. 5/0							Water)	X We	ell Capacity= Wel	l Volume	Devic	e:	PP		· · · · · · · · · · · · · · · · · · ·
							47			1.44			0.16		2	LAB			0.11
Equip	nent Volu	me Pu	ge:	Pump	Volum							low	0.16 Cell Volume= Eq	uipment Vol	lume	.00		•	Gallons
						+(х)+		= 1	Gallons					
Initial	Pump or	lubing			-		Pump		ing		1	Purg	ing	Purging			al Vo		
	in Well (I		_l				h in Wo						ated At: 1254	Ended A					3.75
Time	Volum Purged		UMUL olume	Purg Rate		Depth to		H idard	Ten (°0	np. C	onductiv (µmhos/c		Dissolved Oxygen	Turbidit (NTUs)		Color escribe)		Odor scribe)	ORP
	(Gal)		urged (Gal)	(gpn	' I	Water	Un	its)	,		or (15/cm		(circle ng/L) or % saturation)	()	`	,	`-	,	
			(Gai)			(Feet)							76 Saturation)						
303	2.25	<u> 2.</u>	2 <i>5</i>	0.25	(j.	89	5.8		17.	78	437		0.23	3.7	u	المنا	دي	ne.	156.3
	0.75		00			.01	5.9		17.0	ele	435		0.19	2.3	0				148.6
1309	0.75	3.	<u>75</u>	レ	<u> 1</u>	M_{\odot}	5.9	5	nle	6	434		0.16	2.8		+		/	142.6
				<u> </u>			ļ					_							
										<u>.</u>		_					<u> </u>		
							ļ			<u> </u>		_			_		 		
		+		-			 					\dashv		-			 		ļ
,	1	+												1				7	
-		+			-				ļ- -								-		
Sampl Stace	ed By (Pr	int) h			/	Pace		SA	MP	LIN(acty	TA			· ·		ated	Sample At:	0.016 ing Ended
Pump (Feet):	or Tubing	g Depth	in Well			e Pump er minut 100-		ate	Tut	_	terial Cod	ie:	Field Decontar		Eil	Field-F [Yes] ter Size:	N_0	l: µm	Duplicate: [Yes]
Sample		#		Materia	!	****	200111	Volu	ne	Preser	vative		tal Volume	Final	Intend	ed Analy	/sis	San	pling
Code		Соптат	ners	Code						Used		Ad (m)	ded in Field L)	pН	and/or	Method		Equ Cod	ipment e
		1			PE	!		250	ml						Anion	S		1	PP
										<u> </u>									_
Weath			536				<u> </u>					<u> </u>							
weau onditi Sunny	ons		Total I Type:	[] Lak	(e []	Stream		[]	aken I Shore Boat	[]	Surface Mid-Dep	th		int: Composite			ish Tir ıme:		 -
	Cloud	v I	[]KIV	er []C	nner _				Bridg Wadi		Bottom Other		mL per:	[] F	lour []		1/2 H	our[]	
Cloud		· [[] Soil	s/Sedim	ent	Si	ampling	g Point	:	S	ample D	epth:	[] Composite	e []Gr	ab		1.	
	ture:6) [m Wast	е		ype:			I	ayers [Y	es] [[No] [] Composite	: []Gr	ab			
in: [Y	es] [N	1]	[] Oth			S	amplin	Point			Sample D	epth	: [] Composite	[]Gra	ıb			
	eed: ₁₀ - rection		riela N	OICS:															
171	COHOI	, 	Оп Ісе	@ [3	r		Bottle	s Prese	erved <	<2pH									
eld\Field	Sheets		See	Wo	rk	Ord	ler/	Bo	ttle	Or	der								

	lame:		kal Lar	idfill R	emed	liation	Projec	t			Site	Loca	tion: Volusia	i County, l	FL					_
Well	#: B3:	7-1						Samp	le ID:		-1					Date:	2/2	/ 11		
								P	URG	ING	DAT	À		YSI	: 026	606/26	97			_
Well Diame	ter: '2"		Tubing Diameter	r. 3/8"		Well So Interval			Feet	to		Statio	Depth 1.18		Sam		DD	•		
	olume P		Diamoto	. 5/0							Water) 2	X We	II Capacity= Wel	l Volume	Devi	ce:	PP			_
						(37.	68	_	2.	28		X (116	Gallons/Fo	oot =	5.6	ما		Gallon	_
Equip	nent Vol	ıme Pu	rge:	Pump \	/olum			pacity	X Tub	ing Ler	igth) + F	low (Cell Volume= Eq	uipment Vo	lume	<u> </u>	-		Салоп	5
						+(Х)+		=	Gallons						
	ump or					Fina	Pump		oing	••••		Purgi	ng	Purging		To	tal Vol			_
	in Well (I		8		<u></u> -г		h in We		·				ted At: 334	Ended A					9.0	
Time	Volum Purge (Gal)	/ b	UMUL /olume Purged	Purg Rate (gpm	:	Depth to Water		H idard its)	Tem (°C) (onductiv µmhos/c on iS/cm	m	Dissolved Oxygen (circlezno?) or	Turbidit (NTUs)		Color escribe))dor scribe)	ORP	
	, ,		(Gal)			(Feet)							% saturation)							
	6.00		,00	0.51	2 4	.30_	66		22.1		<u>اماوہ</u>	_	0.19	19	4	سوال	100	لا	-873	
349	1.50	- ; ·	.50		<u> </u>	<u> </u>	<i>(₀.</i> ≤¹		22.2		<u> </u>		0.18	18	y	1	1		88.3	
352	1.50	19	.00	レ	\perp	<u> レ</u>	6.6	<u>}</u>	22.3	0 2	1127		0.18	16		4	+		83.5	
							<u> </u>		-					<u> </u>					-	
									ļ <u>.</u>					ļ <u></u>					<u>-</u>	_
		- -		-					 			-						· · · ·	1	
					_				-	+					_		 -			_
					+		 		ļ										 	_
														_						
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														_						
T	ubing Ins	ide DIA	\. Capac	ity (Gal./	Ft.): '	1/8" = 0.0	0006;				4" = 0.00		5/16" = 0.004;	3/8" = 0.	.006;	1/2" = 0	010;	5/8" =	0.016	
								SA	AMP	LING	DA'	ГА								
_	ed By (Pr	-	1.7			/ Pace		Sa	mpler(s) Signa	245	VI VI	n		Samp At:	ling Initi	ated		ing Ended	_
Pump	or Tubing		in Well		Samp	le Pump	Flow R	ate	Tub		erial Cod		Field Deconta	mination:	1	Field-F	iltered		Duplicate:	┥
(Feet):	a				(mL p	er minu	te); -200ml			מ	E .		(S)	[o]		[Yes]			[Yes]	
Sample		#		Material		100	-2001111	Volu	me [Preser		Tot	al Volume	Final		iter Size: led Anal		μm San	[Po] ipling	\dashv
Code		Contai	iners	Code						Used		Ad	ded in Field	pН	and/o	r Method	ĺ	Equ	ipment	
		l			PI	<u> </u>		250	ml			(ml	-)		Anior	ıs		Cod	PP	╣
																		 		-
																		 		\dashv
																		1-		٦
																				٦
Neath	er			face Wa	iter	-	•		aken F			T	[] Waste Wate		ne			ne		=!
onditi			Total I)epth: [] Lak	e []	Stream] Shore Boat		Surface Aid-Dep	rin	Sampling Po	oint:	P.	Vol	ume:			
Sunny		_	[]Riv	er []C	ther_				Bridge	; []	Bottom		mL per:		Hour[]			our[]		
-	Cloud	ly	[]Soil	s/Sedim	ent	S	ampling] Wadin t:		Other ample D	enth:] Composite	e []G	rah				
Cloud	•	_		m Waste			ype:				ayers [Y	-] Composite						
	ture: (/ es] [N	1	[]Oth	er:			ampling	g Poin	t:		ample D] Composit						_
	eed: 5		Field N	lotes:				-			•	-				•				_
nd Di	rection	البأنا																		
<i></i> 11			On Ice	@135	ζ		Bottle	s Pres	erved <	2рН										
ld\Field	Sheets		See	Wo	rk	Ora	ler/	Βo	ttle	Ord	ler									
		l		. , .		`				~										

Site N	lame: T	omokal L	andfill Rei	mediation	Project	t		Si	te Loc	ation: Volusia	a County, I	FL		_	
Well #	#: B-61	ķ			15	Samp	le ID:					Da	te: 2/	Z / 11	
						P	URG	ING DA	TA	•	YSI	: 02606	12693		
Well Diamet	or: 7"	Tubing	er: 3/8"	Well So			Feet	4-		c Depth		Sampling			
	olume Purg				l Depth: Well Der) X We	/ater: 213 ell Capacity= Wel	I Volume	Device:	PP	·	
		,			1.50		7.					pot = 3.9	کان		
Equipm	ent Volum	e Purge:	Pump Vo) X	0.16 Cell Volume= Eq	Gallons/Fo	oot = σ_{\cdot}	1.J		Gallon
		Ü									•	•••••			
Initial F	ump or Tu	bing		+(Fina	l Pump o	or Tub	X ing		+ Purg	ing	Gallons Purging		Total V	olume	
Depth i	п Well (Fe	et): 3			th in Ŵe		8		Initia	ated At: 14 20	Ended A	±1436	Purged	(Gallons)	: 4.0
Time	Volume	CUMUI	1 0	Depth	pl		Tem		tivity	Dissolved	Turbidit	y Cole	ог	Odor	ORP
	Purged (Gal)	Volume Purged	Rate (gpm)	to Water	(Stan		(°C) (µmho or µS	s/cm cm2)	Oxygen (circle/mg/Lor	(NTUs)) (Descr	ibe) (D	escribe)	1
	()	(Gal)	(Sr)	(Feet)		,			_	% saturation)					
1430	1 < 11	2.50	0.15	4.83	6.7	0	100	2 812		0 24-	6.3		,		-118.0
	0.75	3.25	1	1.05	6.6		18.5			0.26	6.7	ydlo	<u> </u>	ore_	118.6
1434	0.75	4.90	+ 1		6.7		18.6			0.25	6.4				-1B. 7
1434	0.10	4.50		-	U. T		10.0	<i>v</i> 913		0.73	 φ. 4			4	-1p: 7
				-	-			 		· <u>. </u>		-			 -
	•														
				†						.					
					1			· ·			 				
		 	-		ļ										
	ed By (Prin	t)		/ Pace	,			Signatures	2 L			Sampling At: 143	Initiated		ing Ended
Pump ((Feet):	or Tubing I	Depth in Wo		ample Pump nL per minu	te):	ate	Tub	ng Material		Field Deconta] [eld-Filtere Yes] (No	:d;	Duplicate [Yes]
Sample		#	Material	100	-200ml	Volur	ne T	PE Preservative	To	tal Volume	Final	Filter Intended		_μm Sar	[10] npling
Code		ontainers				,		Used	Ad	lded in Field	рН	and/or Me		Equ	ipment
		1		PE		250	ml		(m	L)	1	Anions		Cod	le PP
															
								· · · · · · · · · · · · · · · · · · ·							
									+			<u> </u>			
Weath	er	-[1Si	ırface Wat	er		Ť	aken F	om:	<u> </u>	[] Waste Wate	r: Start Tim	1 ne	Finish T	ime	
onditi			Depth:	[] Stream			Shore	[]Surfa		Sampling Po	oint:		Volume:		
Sunny	,		ver [] Oth				Boat Bridge	[] Mid-I Botto []		mL per:] Composite [] I	ε []∖ Hour[]	Grab ½ 1	Hour []	
-	Cloudy	1350	oils/Sedimer	at S	ampling		Wadin	g [] Othe Sample] Composit	a [] Grah			
Cloud	•	(11)	rum Waste		ype:	5 1 01111			[Yes]] Composite				
-	ture:65				sampling	, Point	h•		Depth] Composit				*****
	es] [Nø]	Field	Notes:		ampinig	5 1 OHI	•	занф	- Depili	· [1 Composit	C [] GIAU			
	eed: 5 -(. rection:														
		On Io	:e@ 439	•	Bottles	s Prese	erved <	2pH		i					
	Sheets	So	o W.o.	ole Ore	dar/	Rai	ttla	Ordei				•			

Site N	Vame:	Tom	okal Laı	ndfill Re	mediation	Project			Site	Loca	ation: Volusia	County, I	FL			
Well	#: B	-2				S	Samp	le ID:					Da	ate: 2/	7/11	
							P	URGI	NG DA	ΓA		YSI	: 02606	/2697	>	
Well Diame	ter: 2"		Tubing Diamete	r: 3/8"	Well S	creen l Depth:		Feet to		Statio	c Depth ater: 8.17		Sampling Device:	P	D .	
	olume l									X We	Il Capacity= Wel	Volume	Device.		<u> </u>	.,
					(27	1.21	-	8	3.17) X (0.16	Gallons/Fo	ot = 3.	05		Gallons
Equip	nent Vo	lume Pi	ırge:	Pump V	olume + (Tu	bing Cap	acity	X Tubin	g Length) +	Flow (Cell Volume= Eq	uipment Vo	lume			
		m 1:			+(X)+			Gallons				
Initial I Depth	rump or in Well	(Feet):	13			l Pump o th in We		ing 3		Purgi Initia	ing ited At: 1539	Purging Ended A	¹ 60		/olume (Gallons)	5.5
Time	Volu: Purg	1	CUMUL Volume	Purge Rate	Depth to	pł (Stan		Temp.	Conducti	vity	Dissolved Oxygen	Turbidit (NTUs)			Odor Describe)	ORP
	(Ga		Purged (Gal)	(gpm)		Uni		(0,	o µS/cr		(circle mg/L or % saturation)	(11105)	Desc	1100) (1	Describe)	
552	3.25	3	.15	0.25	11.02	5.5	1	21.62	105		0.42	5.9	non	,	Sulhir	39.1
	0.75		·02	1	11.04	5.53		21.97			0.29	6.7	1		1	34.5
	0.75	_	. 75	\ <u>\</u>	11.06	5.5		22.05			0.26	9.1	1		1	39.8
601	0.79	5 5	.50	1	11.05	5.5	<u> </u>	22.11	1050)	0.26	3.9	ل	-	<u> </u>	31.2
					-	-			<u> </u>			1			·	
				-					-		.	1				
						 			 			 				
-																
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																
1.1	unitig iii	iside Di	A. Capac	ity (Gas./r	1.). 176 = 0	.0006;	_		NG DA		5/16" = 0.004;	3/8" = 0.	006; 1/2	= 0.010	5/8" =	0.016
01	- 4 D (1				-										T	
	ed By (I ey Smi				/Pace	2	Sar	npler(s) S	ignatures	X	th		Sampling At{(のる		1	ing Ended しつろ
Pumn	or Tubir		h in Well		ample Pump	Flow R	ate	Tubing	Material Co		Field Decontai		Fi	eld-Filter	red:	Duplicate:
(Feet):	13			(1	mL per minu 100	ite);)-200ml			PE		Yes [N	o]	Filter	[Yes] [∭ Size:	o)) μm	[Yes] [2√0])
Sample Code		# Conta		Material Code			Volun		reservative Ised		tal Volume ded in Field	Final pH	Intended and/or M			ipling
										(ml		pri		emou	Cod	
		1			PE		250	ml					Anions			PP
																
										-					_	
Veath	er			face Wa	ter			aken Froi			[] Waste Wate	r: Start Tim	ie	_ Finish '		
nditi			Total I		[] Stream	1		Shore Boat	[] Surface [] Mid-Dep		Sampling Po	int: Composite	<u> </u>	Volume Grab	i	
Sunny		.d	[]Riv	er []Ot	her		[]	Bridge Wading	[] Bottom		mL per:		lour []		Hour []	
Partly Cloud		ay	[] Soil	s/Sedime	nt S	Sampling			Sample D	epth:	[] Composit	e []Grab			
mpera		67	[] Dru	m Waste		Гуре:			Layers [res] [No] [] Composite	[]Grab			
in: [Y		•	[] Oth			Sampling	Point	:	Sample 1	Depth:	. [] Composit	e []Grab			
nd Sp	eed: <	5-10	Field N	otes:												
nd Di	rectio	n:N														
			On Ice	@lle04		Bottles	Prese	rved <2p	Н							
ld\Field	Sheets		See	Wo	rk Or	der/	Bot	ttle ()rder							

Site N	lame:	Tomo	kal Lar	idfill R	eme	diation I	roject				Site Lo	ocat	ion: Volusia	County, F	L					
Well #	#: B-	3					5	Samp	le ID:	1						Date	e: 2	12	/11	
		•	• •					P	URGI	NG I	DATA	<u> </u>		YSI:	: 0.	2606/2	X697)		
Well			Tubing	2 (0)		Well Sc			**	-			Depth er: 15.5	<u> </u>		mpling	•) D		
Diamet Well V	olume P		Diameter	. 3/8		Interval (Total V			Feet to			Wat	Capacity= Well		De	evice:	<u>r</u>	PP		
******	0141110 1					47.		P		5,50	-			Gallons/Fo		5	12			
Fauinn	nent Vol	ıme Pı	irge.	Pump	Volu			- nacity				<u>C 0.</u> w Ce	16 ell Volume= Equ	Gallons/Fo	ot ≃ Iume	<u> </u>	I Q			Gallons
Defailti	10111 101	wiii 0 1 c		1 winp	7 0144		ing out	zaolej		'E Dell'E										
Initial I	Pump or	Tubins	<u> </u>			+(Final	Pump	or Tub	X)+ Pi	ırgin		Gallons Purging			Total	Volun	ne	 -
Depth i	in Well (Feet):	íŦ				ı in We				In	itiate	ed At:	Ended A	:: /(048	Purge	d (Gal	lons):	B.25
Time	Volun		UMUL	Purg		Depth		H	Temp.		iductivity	y	Dissolved	Turbidit	у	Color	, , ,	Odo	or	ORP
	Purge (Gal		Volume Purged	Rat (gpn	. 1	to Water	(Stan Un		(°C)		nhos/cm)	- 1	Oxygen (circle mo/Lor	(NTUs)	'	(Descril	ne)	(Desci	noe)	
	(3,		(Gal)	(SF-	~	(Feet)				'			% saturation)							
it 21.	5.25	<u> </u>	5.25	0.05		5.70	1.	SD	24.18	, ,	519	┪-	0.34	0.30	. +	None	, ,	معر		-41.1
1642	1.50		1.05 1.75	0.0.	' '	1	6.5		24.16		591		0.31	0.20	_	1	- '	1	<u> </u>	48.9
648	1.50		. V5	+ 1	\dashv	1	6.5		24.14		202	- -	0.26	0.50	- 1	-		1		54.4
1840	11.00	- V	. <i>UJ</i>	 •	\dashv	<u> </u>	$Q \cdot D$	>	24.19) U D-	+	<i>V.20</i>	-0.50		~~~ <u>\</u>	+			24.1
		\dashv								 -		+	·							
-		_								+							\dashv			
										_		_				; `				
												\top								
								•						1		-				
Stace	ed By (P ey Smi	th				/Pace			impler(s)	AT	the					mpling I	9			ng Ended
Pump (Feet):	or Tubic 14	g Dept	h in Well	1		ple Pump per minut 100-		Late	Tubin	ıg Mater PE	rial Gode :	:	Field Decontain (Yes) [N				ld-Filt [es] [lize:	(D)	m	Duplicate: [Yes]
Sample Code	e ID			Materia Code	!			Volu		Preserva Used		Add	al Volume led in Field	Final pH		tended A d/or Met		is		pling ipment
		1	l		3	PE		250) ml			(mL	·)		Ar	nions				PP
<u> </u>																				
																			-	· · ·
	-																			
Weath onditi Sunny	ions y		Total I	[] La	ke	[] Stream		[[] [Faken Fro] Shore Boat] Bridge	[]S []M []E	urface id-Depth Bottom		[] Waste Wate Sampling Po [mL per:	oint:		_ []	Volun Irab	h Time ne: ½ Hou		
Partly		dy	[] Soi	ls/Sedir	nent	S	amplin] Wading it:		Other mple Dep	 oth:] Composit	te ſ] Grab				
-Cloud	•	1 0	ļ	ım Was			ype:				yers [Ye] Composit					-	
mpera			[] Oth				amplin	g Poir	ıt:		ımple De] Composit						
iin: [Y ind Sp		_	Field 1	Notes:	leci	ded +	5 tr	u -	to our	90	well	ھ	less +	whing /			6).	TI	nis	
ind Di				٧.	oork	ed bul	Cou	dd e	only 1	purge	skeve	, s)	wly.	J (
			On Ice	@ \ (g	51		Bottle	es Pres	served <2	рН										
eld\Field	Sheets		See	W	ori	k Ore	der/	Βo	ttle	Ord	ler									

Sample Condition Upon Receip	t Form (SCUR) Table Number:
Pace Analytical Client Name: 100	SC (Quity Project # 3525789
/ Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial	Pace B&B D Other
Tracking #	<u> </u>
	Date and Initials of person examining contents:
Packing Material: Bubble Wrap Bubble Bags None	
Thermometer Used Type of ice: Well Cooler Temperature (Actual) (Temp should be about	Initiale:
Receipt of samples satisfactory:	
If yes, then all conditions below were met:	If no, then mark box & describe issue (use comments area if necessary):
Chain of Custody Present	
Chain of Custody Filled Out	
Relinquished Signature & Sampler Name COC	
Samples Arrived within Hold Time	
Sufficient Volume	
Correct Containers Used	
Containers Intact	
Sample Labels match COC (sample IDs & date/time of collection)	
	No Labels: No Time/Date on Labels:
All containers needing preservation are found to be in compliance with EPA recommendation.	
No Headspace in VOA Vials (>6mm):	
Client Notification/ Resolution:	
	/Time:
Comments/ Resolution (use back for additional comments):	
Product Monacon Review	Date: 2/2/1
Project Manager Review:	Dutc.
Finished Product I	nformation Only
	Oire 9 Otr of Pottles Pessived
F.P. Sample ID:	Size & Qty of Bottles Received
Production Code:	x 5 Gal x 2.5 Gal
· · · · · · · · · · · · · · · · · · ·	x 1 Gal
Date/Time Opened:	x 1 Liter
	x 500 mL
Number of Unopened Bottles Remaining:	x 250 mL x Other:
Extra Sample in Shed: Yes No	