

August 14, 2019

Gordon Eddington
MANCHESTER-SHORTSVILLE WWTP
3890 RT. 96
MANCHESTER, NY 14504

RE: Project: COMPOST 7/30
Pace Project No.: 7099472

Dear Gordon Eddington:

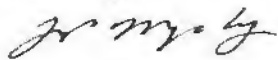
Enclosed are the analytical results for sample(s) received by the laboratory on July 31, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

Salmonella samples were subcontracted to Life Science Laboratories, Inc., 5854 Butternut Drive East Syracuse, NY 13057

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

Sincerely,



James Murphy
james.murphy@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Debbie Chase, MANCHESTER-SHORTSVILLE WWTP



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: COMPOST 7/30
Pace Project No.: 7099472

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435

Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

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SAMPLE ANALYTE COUNT

Project: COMPOST 7/30
Pace Project No.: 7099472

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
7099472001	COMPOST PILE # 1	EPA 6010C	JMW	10	PACE-MV
		EPA 7471B	JLN	1	PACE-MV
		ASTM D2216-92M	DJM	1	PACE-MV
		SM22 2540G	AK1	2	PACE-MV
		SM22 4500-P E	KM1	1	PACE-MV
		EPA 9045D	DND	2	PACE-MV
		EPA 350.1	JWL	1	PASI-PA
		EPA 351.2	SDO	1	PACE-MV
		EPA 9056A	BNK	2	PACE-MV

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ANALYTICAL RESULTS

Project: COMPOST 7/30
 Pace Project No.: 7099472

Sample: COMPOST PILE # 1 Lab ID: 7099472001 Collected: 07/30/19 09:25 Received: 07/31/19 10:35 Matrix: Solid
 Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3050B						
Arsenic	3.9	mg/kg	1.3	1	08/09/19 11:38	08/12/19 10:30	7440-38-2	
Cadmium	0.99	mg/kg	0.31	1	08/09/19 11:38	08/12/19 10:30	7440-43-9	
Chromium	28.9	mg/kg	1.3	1	08/09/19 11:38	08/12/19 10:30	7440-47-3	
Copper	708	mg/kg	3.1	1	08/09/19 11:38	08/12/19 10:30	7440-50-8	
Lead	40.6	mg/kg	0.63	1	08/09/19 11:38	08/12/19 10:30	7439-92-1	
Molybdenum	13.7	mg/kg	2.5	1	08/09/19 11:38	08/12/19 10:30	7439-98-7	
Nickel	22.9	mg/kg	5.0	1	08/09/19 11:38	08/12/19 10:30	7440-02-0	
Potassium	7860	mg/kg	629	1	08/09/19 11:38	08/12/19 10:30	7440-09-7	
Selenium	11.8	mg/kg	1.3	1	08/09/19 11:38	08/12/19 10:30	7782-49-2	
Zinc	791	mg/kg	2.5	1	08/09/19 11:38	08/12/19 10:30	7440-66-6	
7471 Mercury		Analytical Method: EPA 7471B Preparation Method: EPA 7471B						
Mercury	0.85	mg/kg	0.093	1	08/12/19 11:55	08/12/19 14:13	7439-97-6	
Percent Moisture		Analytical Method: ASTM D2216-92M						
Percent Moisture	59.4	%	0.10	1		08/01/19 14:02		
2540G Total Fixed Vol Solids		Analytical Method: SM22 2540G						
Total Solids	42.9	%	0.10	1		08/01/19 19:25		N3
Total Volatile Solids	70.5	%	0.10	1		08/01/19 19:25		N3
4500PE Total Phosphorus		Analytical Method: SM22 4500-P E Preparation Method: SM22 4500-P B						
Phosphorus	18300	mg/kg	576	100	08/01/19 09:01	08/01/19 10:30	7723-14-0	
Corrosivity pH, <20% Water		Analytical Method: EPA 9045D						
pH	5.1	Std. Units	0.10	1		07/31/19 16:37		
Temperature, Water (C)	24.3	deg C	0.10	1		07/31/19 16:37		
350.1 Ammonia		Analytical Method: EPA 350.1 Preparation Method: EPA 350.1						
Nitrogen, Ammonia	10400	mg/kg	101	10	08/05/19 09:42	08/06/19 10:05	7664-41-7	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2						
Nitrogen, Kjeldahl, Total	4090	mg/kg	154	5	08/13/19 05:59	08/13/19 12:26	7727-37-9	
9056 IC Anions 48hr		Analytical Method: EPA 9056A Preparation Method: EPA 9056A						
Nitrate as N	2960	mg/kg	245	100	07/31/19 20:48	08/01/19 07:20	14797-55-8	
Nitrite as N	2.9	mg/kg	2.4	1	07/31/19 20:48	08/01/19 07:03	14797-65-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: COMPOST 7/30
Pace Project No.: 7099472

QC Batch: 125582 Analysis Method: EPA 7471B
QC Batch Method: EPA 7471B Analysis Description: 7471 Mercury
Associated Lab Samples: 7099472001

METHOD BLANK: 598519 Matrix: Solid
Associated Lab Samples: 7099472001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.033	08/12/19 14:08	

LABORATORY CONTROL SAMPLE: 598520

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.17	0.16	95	80-120	

MATRIX SPIKE SAMPLE: 598521

Parameter	Units	7099472001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.85	0.42	1.4	119	80-120	

SAMPLE DUPLICATE: 598522

Parameter	Units	7099472001 Result	Dup Result	RPD	Qualifiers
Mercury	mg/kg	0.85	0.91	6	

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QUALITY CONTROL DATA

Project: COMPOST 7/30
Pace Project No.: 7099472

QC Batch: 125338 Analysis Method: EPA 6010C
QC Batch Method: EPA 3050B Analysis Description: 6010 MET
Associated Lab Samples: 7099472001

METHOD BLANK: 597378 Matrix: Solid
Associated Lab Samples: 7099472001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.50	08/12/19 10:23	
Cadmium	mg/kg	ND	0.12	08/12/19 10:23	
Chromium	mg/kg	ND	0.50	08/12/19 10:23	
Copper	mg/kg	ND	1.2	08/12/19 10:23	
Lead	mg/kg	ND	0.25	08/12/19 10:23	
Molybdenum	mg/kg	ND	1.0	08/12/19 10:23	
Nickel	mg/kg	ND	2.0	08/12/19 10:23	
Potassium	mg/kg	ND	250	08/12/19 10:23	
Selenium	mg/kg	ND	0.50	08/12/19 10:23	
Zinc	mg/kg	ND	1.0	08/12/19 10:23	

LABORATORY CONTROL SAMPLE: 597379

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	202	185	92	80-120	
Cadmium	mg/kg	141	123	87	80-120	
Chromium	mg/kg	167	152	91	80-120	
Copper	mg/kg	108	100	93	80-120	
Lead	mg/kg	73.8	76.5	104	80-120	
Molybdenum	mg/kg	103	97.5	95	80-120	
Nickel	mg/kg	89.4	80.0	89	80-120	
Potassium	mg/kg	2240	2000	89	70-130	
Selenium	mg/kg	49.9	46.0	92	80-120	
Zinc	mg/kg	264	240	91	80-120	

MATRIX SPIKE SAMPLE: 597381

Parameter	Units	7099479001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	1.6	43.5	42.6	94	75-125	
Cadmium	mg/kg	0.37	4.4	4.6	97	75-125	
Chromium	mg/kg	54.6	21.7	81.3	123	75-125	
Copper	mg/kg	298	21.7	337	182	75-125 M1	
Lead	mg/kg	46.9	43.5	65.2	42	75-125 M1	
Molybdenum	mg/kg	6.0	43.5	48.3	97	75-125	
Nickel	mg/kg	9.6	21.7	31.4	100	75-125	
Potassium	mg/kg	2420	4350	7150	109	75-125	
Selenium	mg/kg	1.6	65.2	64.5	96	75-125	
Zinc	mg/kg	507	87	611	120	75-125	

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QUALITY CONTROL DATA

Project: COMPOST 7/30
Pace Project No.: 7099472

SAMPLE DUPLICATE: 597380

Parameter	Units	7099479001 Result	Dup Result	RPD	Qualifiers
Arsenic	mg/kg	1.6	.95J		
Cadmium	mg/kg	0.37	ND		
Chromium	mg/kg	54.6	29.5	60	D6
Copper	mg/kg	298	170	55	D6
Lead	mg/kg	46.9	12.6	115	D6
Molybdenum	mg/kg	6.0	5.1	17	
Nickel	mg/kg	9.6	6.3	41	D6
Potassium	mg/kg	2420	1770	31	D6
Selenium	mg/kg	1.6	2.5	42	D6
Zinc	mg/kg	507	295	53	D6

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QUALITY CONTROL DATA

Project: COMPOST 7/30
 Pace Project No.: 7099472

QC Batch: 124280	Analysis Method: ASTM D2216-92M
QC Batch Method: ASTM D2216-92M	Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 7099472001	

SAMPLE DUPLICATE: 592129

Parameter	Units	7099544002 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	26.2	28.3	8	

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QUALITY CONTROL DATA

Project: COMPOST 7/30
Pace Project No.: 7099472

QC Batch: 124327 Analysis Method: SM22 2540G
QC Batch Method: SM22 2540G Analysis Description: 2540G Tot Solids/Volatile/Fixed
Associated Lab Samples: 7099472001

SAMPLE DUPLICATE: 592389

Parameter	Units	7099479001 Result	Dup Result	RPD	Qualifiers
Total Solids	%	49.8	50.4	1	N3
Total Volatile Solids	%	58.3	59.0	1	N3

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QUALITY CONTROL DATA

Project: COMPOST 7/30
Pace Project No.: 7099472

QC Batch: 124200 Analysis Method: SM22 4500-P E
QC Batch Method: SM22 4500-P B Analysis Description: 4500PE Soil Phosphorus
Associated Lab Samples: 7099472001

METHOD BLANK: 591757
Associated Lab Samples: 7099472001

Matrix: Solid

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/kg	ND	2.5	08/01/19 10:30	

LABORATORY CONTROL SAMPLE: 591758

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/kg	25	25.5	102	85-115	

MATRIX SPIKE SAMPLE: 591759

Parameter	Units	7099479001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/kg	11200	44.2	11100	-50	75-125	M6

SAMPLE DUPLICATE: 591760

Parameter	Units	7099355002 Result	Dup Result	RPD	Qualifiers
Phosphorus	mg/kg	2510	2570	3	

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QUALITY CONTROL DATA

Project: COMPOST 7/30
Pace Project No.: 7099472

QC Batch: 124149	Analysis Method: EPA 9045D
QC Batch Method: EPA 9045D	Analysis Description: 9045D Corrosivity pH in Soil
Associated Lab Samples: 7099472001	

SAMPLE DUPLICATE: 591439

Parameter	Units	7099262001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	7.5	7.5	0	H3
Temperature, Water (C)	deg C	24.5	24.5	0	H3

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QUALITY CONTROL DATA

Project: COMPOST 7/30
Pace Project No.: 7099472

QC Batch: 355025 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 7099472001

METHOD BLANK: 1724913 Matrix: Solid
Associated Lab Samples: 7099472001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/kg	ND	4.0	08/06/19 10:00	

LABORATORY CONTROL SAMPLE: 1724914

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/kg	160	158	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1724915 1724916

Parameter	Units	7098573002		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Nitrogen, Ammonia	mg/kg	4220	537	544	5670	5320	269	203	90-110	6	MH	

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QUALITY CONTROL DATA

Project: COMPOST 7/30
Pace Project No.: 7099472

QC Batch: 125630 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 7099472001

METHOD BLANK: 599140 Matrix: Solid
Associated Lab Samples: 7099472001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	ND	12.5	08/13/19 12:22	

LABORATORY CONTROL SAMPLE: 599141

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	500	536	107	90-110	

MATRIX SPIKE SAMPLE: 599142

Parameter	Units	70100010001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	72.4	784	904	106	90-110	

SAMPLE DUPLICATE: 599143

Parameter	Units	70100010001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	72.4	70.4	3	

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QUALITY CONTROL DATA

Project: COMPOST 7/30
 Pace Project No.: 7099472

QC Batch: 124190 Analysis Method: EPA 9056A
 QC Batch Method: EPA 9056A Analysis Description: 9056 IC Anions
 Associated Lab Samples: 7099472001

METHOD BLANK: 591735 Matrix: Solid
 Associated Lab Samples: 7099472001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/kg	ND	1.0	08/01/19 01:28	
Nitrite as N	mg/kg	ND	1.0	08/01/19 01:28	

LABORATORY CONTROL SAMPLE: 591736

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/kg	10	10.7	107	90-110	
Nitrite as N	mg/kg	10	9.5	95	90-110	

MATRIX SPIKE SAMPLE: 591738

Parameter	Units	7099138026 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/kg	<4.8	47.8	63.5	131	80-120	M1
Nitrite as N	mg/kg	<4.8	47.8	50.1	104	80-120	

SAMPLE DUPLICATE: 591737

Parameter	Units	7099138026 Result	Dup Result	RPD	Qualifiers
Nitrate as N	mg/kg	<4.8	8.0		
Nitrite as N	mg/kg	<4.8	ND		

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QUALIFIERS

Project: COMPOST 7/30
Pace Project No.: 7099472

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
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 TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PACE-MV Pace Analytical Services - Melville
PASI-PA Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.
H3 Sample was received or analysis requested beyond the recognized method holding time.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
MH Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
N3 Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COMPOST 7/30
Pace Project No.: 7099472

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7099472001	COMPOST PILE # 1	EPA 3050B	125338	EPA 6010C	125378
7099472001	COMPOST PILE # 1	EPA 7471B	125562	EPA 7471B	125570
7099472001	COMPOST PILE # 1	ASTM D2216-92M	124280		
7099472001	COMPOST PILE # 1	SM22 2540G	124327		
7099472001	COMPOST PILE # 1	SM22 4500-P B	124200	SM22 4500-P E	124223
7099472001	COMPOST PILE # 1	EPA 9045D	124149		
7099472001	COMPOST PILE # 1	EPA 350.1	355025	EPA 350.1	355285
7099472001	COMPOST PILE # 1	EPA 351.2	125630	EPA 351.2	125682
7099472001	COMPOST PILE # 1	EPA 9056A	124190	EPA 9056A	124191

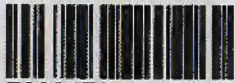
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WO#: 7099472

CHAIN-OF-CUSTODY / Analytical Request Document

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



S
R.

7099472

Location:

Section C

Invoice Information:

Page: _____ of _____

Company: <u>Manassas Shedsville</u>	Report To: <u>Gordon Eddington</u>	Attention:
Address: <u>Treatment Plant</u>	Copy To:	Company Name:
<u>3180 Rt. 96</u>		Address:
Email To: <u>gedding@yahoo.com</u>	Purchase Order No.:	Pace Quote Reference:
Phone: <u>315-277-0100</u>	Project Name: <u>Compost</u>	Pace Project Manager:
Requested Due Date/TAT:	Project Number:	Pace Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER _____

Site Location _____

STATE: _____

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	Matrix Code (see valid codes to left)	Sample Type (G=GRAB C=COMP)	COLLECTED		Sample Temp at Collection	# of Containers	Preservatives							Analysis Test ↓	Requested Analysis Filtered (Y/N)		Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					COMPOSITE START	COMPOSITE END/GRAB			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other	Y		
1	Compost Pile #1	SI	G	7/30/19	9:25											X	54/mandella		001	
2																				
3	Compost Pile #1	SL	G	7/30/19	9:25											X	Part 360			
4																				
5																				
6	Compost Pile #2	SL	G	7/30/19	9:25											X	ju			
7																				
8	Compost Pile #2	SL	G	7/30/19	9:25											X	ju			
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
As, Cd, Cr, Cu, Pb, Hg, Mo, Ni, Se, Zn, Total K	Gordon Eddington	7/30/19	9:25	<i>[Signature]</i>	7/30/19	09:25			
	<i>[Signature]</i>	7/30	1700	<i>[Signature]</i>	7/31/19	10:35	2.8	Y	Y
Results in mg/Kg									

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Gordon Eddington

SIGNATURE of SAMPLER: *[Signature]*

DATE Signed (MM/DD/YY): 7/30/19

Temp in °C _____

Received on ice (Y/N) _____

Cooler Sealed Cooler (Y/N) _____

Samples Intact (Y/N) _____

Page 17 of 22

*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 invoice not paid within 30 days. F-ALL-Q-020rev.07. 15-May-2007

WO#: 7099472

PM: JM2 Due Date: 08/14/19

CLIENT: MCSV

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: of

Section C

Invoice Information:

Company: PACE ANALYTICAL	Report to:	Attention: nysub@pacelabs.com
Address: 575 Broad Hollow Rd	Copy To:	Company Name:
Melville, NY 11747		Address:
Email To: NYSUB@PACELABS.COM	Purchase Order No.: 073019JM2003	Pace Quote Reference:
Phone: Fax:	Project Name: MANCHESTER	Pace Project Manager: James Murphy
Requested Due Date/TAT:	Project Number:	Pace Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

SITE LOCATION

GA IL N MI NC

OH SC WI OTHER_NY

Filtered (Y/N)

Requested Analysis:

Residue Volume (Y/N)

Pace Project No. Lab ID.

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							X	OO		
				COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol			Na ₂ SO ₄	
				DATE	TIME	DATE	TIME													
1	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE		SL G			7/30	9:25	1												
2	SAMPLE ID		SL G			7/30	9:25	1												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SALMONELLA SUBBED TO LSL	<i>Cy...let</i>	7-30-19	1345	<i>[Signature]</i>	7-30-19	1334	13:40	Y/N	Y/N	Y/N
				<i>[Signature]</i>	7/31/19	10:35	2:58	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed (MM / DD / YY):

Temp in °C

Received on Ice

Custody Sealed Cooler

Samples Intact



Sample Condition Upon Receipt

Client Name:

Proj

WO#: 7099472

MCSV

PM: JM2 Due Date: 08/14/19

CLIENT: MCSV

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 7758 7218 9181

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Temperature Blank Present: Yes No

Packing Material: Bubble Wrap Bubble Bags Ziploc None Other bags

Type of Ice: Wet Blue None

Thermometer Used: TH001 Correction Factor: +0.2

Samples on ice, cooling process has begun

Cooler Temperature (°C): 1.8 Cooler Temperature Corrected (°C): 2.0

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (N/A, water sample)

Date and Initials of person examining contents: 7/31/19 SP

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? YES NO

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

			COMMENTS:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	7.
Sufficient Volume: (Triple volume provided for MS/MSD)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Containers Intact:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	12.
-Includes date/time/ID/Analysis Matrix <input checked="" type="checkbox"/> SL <input type="checkbox"/> WT <input type="checkbox"/> OIL			
All containers needing preservation have been checked	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot #			Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, NaOH>12 Cyanide)	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Initial when completed: Lot # of added preservative: Date/Time preservative added
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis			
Samples checked for dechlorination:	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14. Positive for Res. Chlorine? Y N
KI starch test strips Lot #			
Residual chlorine strips Lot #			
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if applicable):			

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:



Life Science Laboratories, Inc.

Jennifer Aracri
PACE Analytical Inc.
575 Broad Hollow Rd
Melville, NY 11747 USA

Phone: (631) 694-3040

Authorization: PO# 073019JM2003

Laboratory Analysis Report For PACE Analytical Inc.

Client Project ID:

Manchester

LSL Project ID: **1912232**

Receive Date/Time: 07/30/19 13:46

Life Science Laboratories, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose. By the Client's acceptance and/or use of this report, the Client agrees that LSL is hereby released from any and all liabilities, claims, damages or causes of action affecting or which may affect the Client as regards to the results contained in this report. The Client further agrees that the only remedy available to the Client in the event of proven non-conformity with the above warranty shall be for LSL to re-perform the analytical test(s) at no charge to the Client. The data contained in this report are for the exclusive use of the Client to whom it is addressed, and the release of these data to any other party, or the use of the name, trademark or service mark of Life Science Laboratories, Inc. especially for the use of advertising to the general public, is strictly prohibited without express prior written consent of Life Science Laboratories, Inc. This report may only be reproduced in its entirety. No partial duplication is allowed. The Chain of Custody and the Shipment Condition documents submitted with these samples are considered by LSL to be an appendix of this report and may contain data qualifiers and specific information that pertains to the samples included in this report. The analytical result(s) in this report are only representative of the sample(s) submitted for analysis. LSL makes no claim of a sample's representativeness, or integrity, if sampling was not performed by LSL personnel.

Life Science Laboratories, Inc.

LSL Central Lab
5854 Butternut Drive
East Syracuse, NY 13057
Tel. (315) 445-1900
Fax (315) 445-1104

LSL North Lab
131 St. Lawrence Avenue
Waddington, NY 13694
Tel. (315) 388-4476
Fax (315) 388-4061

LSL Finger Lakes Lab
16 N. Main St., PO Box 424
Wayland, NY 14572
Tel. (585) 728-3320
Fax (585) 728-2711

LSL Southern Tier Office
Cuba, NY
Tel. (585) 209-4032

LSL MidLakes Office
Canandaigua, NY
Tel. (585) 728-3320

This report was reviewed by:

Date:

8/9/19

David J. Prichard, Director of Tech. Services

A copy of this report was sent to:

Page 1 of 2

Date Printed:

8/9/19

Page 20 of 22

-- LABORATORY ANALYSIS REPORT --

PACE Analytical Inc. Melville, NY

Sample ID: Compost Pile #1 **LSL Sample ID:** 1912232-001

Location:

Sampled: 07/30/19 9:20 **Sampled By:** Client

Sample Matrix: SHW Dry Wt, Compost

Analytical Method	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result Units			
(1) EPA 1682(2014) Salmonella by MSRV				
Salmonella	<3 MPN/4g Dry		7/30/19 14:15	DA
<i>The NYS DOH ELAP does not offer certification for this analyte.</i>				
(1) SM 2540 B-2011 Total Solids				
Total Solids @ 103-105 C	57 %		8/1/19	CBR
<i>The NYS DOH ELAP does not offer certification for this analyte in this matrix.</i>				

Analysis performed at: (1) LSL Central, (2) LSL North, (3) LSL Finger Lakes



CHAIN-OF-CUSTODY / A1912232

The Chain-of-Custody is a LEGAL DOCUMENT

PACE_Melville

7347

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Section A

Required Client Information:

Company: **PACE ANALYTICAL**
 Address: **575 Broad Hollow Rd**
Melville, NY 11747
 Email To: **NYSUB@PACELABS.COM**
 Phone: _____ Fax: _____
 Requested Due Date/TAT: _____

Section B

Required Project Information:

Report to: _____
 Copy To: _____
 Purchase Order No.: **073019JM2003**
 Project Name: **MANCHESTER**
 Project Number: _____

Section C

Invoice Information:

Attention: **nysub@pacelabs.com**
 Company Name: _____
 Address: _____
 Pace Quote Reference: _____
 Pace Project Manager: **James Murphy**
 Pace Profile #: _____

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER _____

SITE LOCATION

GA IL IN MI NC
 OH SC WI OTHER_NY _____

Filtered (Y/N) _____

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / . -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOLIDIFIED SL DE WIP AIR AW OTHER OT TUBES T	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Requested Analysis:	Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No. Lab I.D.																
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Na ₂ SO ₄																				
					DATE	TIME	DATE	TIME																														
1	COMPOST PILE #1		SL	G			7/30	9:25		1																												
2	COMPOST PILE #2		SL	G			7/30	9:25		1																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS							
SALMONELLA SUBBED TO LSL	<i>G. Milet</i>	7-30-19	1345	<i>J. S.</i>	7-30-19	1324	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples intact				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: _____

SIGNATURE of SAMPLER: _____

DATE Signed (MM / DD / YY): _____

Temp in °C _____

Received on Ice _____

Custody Sealed Cooler _____

Samples intact _____