



**ITB #24-006**  
**Disposal of Domestic**  
**Wastewater Treatment Plant**  
**Biosolids**

**Addendum #2**  
**Q's & A's**

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This addendum is being issued to answer questions received regarding ITB# 24-006: Disposal of Domestic Wastewater Treatment Plant Biosolids

**Question:**

Will the City provide the Contractors with all PFAS / PFOA or other 40 CFR 503 Regulated Materials testing data for the last 10 years, if available on the materials specified to be hauled in the Scope of Work of the RFP? Are there plans by the City to test the materials articulated within the Scope of Work for PFAS / PFOA or other 40 CFR 503 Regulated Materials during the duration of the proposed contract agreement, including the extension periods?

**Answer:**

*Attached*, is the most recent sludge analysis for Cemetery Rd. WWTP (2023), Sebring Airport WWTP (2018), Western Blvd. WWTP (2018), Highlands Ridge WWTP (2018), Country Club of Sebring (2018), as available. The permits for each Wastewater Treatment Facility do not require an Annual Sludge Analysis after 2018. The City will collect an annual sludge sample from each facility in June 2024.

**Question:**

Will the City agree to include language Articulating NET 30 Payment terms in the Contract, Specifically that Progress Payments are to be made "30 days upon receipt of properly formatted invoice" under the "Payments " Subsection on page 10 of 32?

**Answer:**

Although many payments are made in less time, it is the City's policy to pay in NET 45. The payment policy will not be changed for this contract. Please see purchase order terms, section 14 below.

- 14. After each delivery, the vendor shall provide an original invoice to the bill to: address listed hereunder. The invoice must include vendor's name, address, phone, City's PO number, date of invoice, date of shipping, and delivery date. Payment will be made by the CITY after the item awarded to a vendor has been received, inspected, and found to comply with the award specifications, free of damage or defect, and properly invoiced. All payments must be approved by Sebring City Council, which meets the first and third Tuesday of each month. To be considered for payment at any meeting, the invoice must be signed by the department head of each location and then received by Accounts Payable 368 South Commerce Avenue, Sebring, Florida 33870 ten (10) days prior to a City Council meeting. Separate invoices must be rendered for each purchase order. No purchase of materials, supplies, equipment, and/or services will be recognized unless made through a purchase order by the purchasing department. By filing said order vendor agrees to Terms of net 45 days.*

**Question:**

Will the City agree to include a subsection in the contract document articulating rights and remedies under Force Majeure Events, Changes in Law or Circumstances beyond the control of the contractor (Sample Language Below) "Relief for Force Majeure/Uncontrollable Circumstances; Change in Law" Neither Party shall be liable to the other Party for breach or for failure or delay in the performance of its obligations hereunder caused by any act or occurrence beyond its reasonable control, including, but not limited to: fires; floods; strikes (except any strikes involving a Party's personnel); a change in Federal, State, or local law or ordinance; orders or judgments of any Federal, State or local court, administrative agency or governmental body; change in permit conditions or requirements; accidents; extreme weather conditions including, for example, hurricanes, tornadoes, unusually high amounts of precipitation, unusual extremes of temperature or wind, or unusually extended periods of adverse

weather conditions; acts of war, aggression or terrorism (foreign or domestic); riot, insurrection; equipment failure (other than due to the inadequate maintenance thereof); and acts of God. It is specifically understood that, without limitation, none of the following acts, events or circumstances shall constitute an act or occurrence beyond a Party's reasonable control: (i) reasonably anticipated weather conditions normal for the region in which the work is performed or (ii) any failure to pay any sums in accordance with the terms of this Contract. Whenever the provisions of this Section are believed to apply, the Party relying thereon shall give prompt notice to the other Party of the circumstances, the basis for applicability of this Section and the time required to cure such breach or delay. Contractor shall promptly provide notice of the need, if any, for additional compensation or for renegotiation of terms in order to mitigate the effects of such event or to comply with a change in law or regulation or interpretation thereof. Contractor shall be entitled to additional time and compensation if such event delays performance into a season different from that assumed when this Contract was executed. Contractor and City shall use reasonable best efforts to agree on appropriate mitigating actions under the circumstances. "

**Answer:**

The City will agree to include a subsection in the contract document as follows:

"Neither Party shall be liable to the other Party for breach or for failure or delay in the performance of its obligations hereunder caused by any act or occurrence beyond its reasonable control, including, but not limited to: fires; floods; strikes (except any strikes involving a Party's personnel); a change in Federal, State, or local law or ordinance; orders or judgments of any Federal, State or local court, administrative agency or governmental body; change in permit conditions or requirements; accidents; extreme weather conditions including, for example, hurricanes, tornadoes, unusually high amounts of precipitation, unusual extremes of temperature or wind, or unusually extended periods of adverse weather conditions; acts of war, aggression or terrorism (foreign or domestic); riot, insurrection; equipment failure (other than due to the inadequate maintenance thereof); and acts of God. It is specifically understood that, without limitation, none of the following acts, events or circumstances shall constitute an act or occurrence beyond a Party's reasonable control: (i) reasonably anticipated weather conditions normal for the region in which the work is performed or (ii) any failure to pay any sums in accordance with the terms of this Contract. Whenever the provisions of this Section are believed to apply, the Party relying thereon shall give prompt notice to the other Party of the circumstances, the basis for applicability of this Section and the time required to cure such breach or delay. Contractor shall promptly provide notice of the need, if any, for additional compensation or for renegotiation of terms in order to mitigate the effects of such event or to comply with a change in law or regulation or interpretation thereof. Contractor and City shall use reasonable best efforts to agree on appropriate mitigating actions under the circumstances. "

**Question:**

Contractor requests the addition of to the Contract – "Mutual Waiver of Consequential Damages"  
" Mutual Waiver of Consequential Damages - Neither party shall be liable for consequential or punitive damages on any claims arising out of the performance or non-performance of obligations under the Contract."

**Answer:**

No, the city will not agree to this addition.

**Question:**

Will the Contractor be allowed to include annual CPI Increases for the contract, including any extension terms, based on the US Bureau of Labor Statistics CPI annual calculation for the geographic area where the work is to be Performed?

**Answer:**

No.

**Question:**

Will the contract be subject to quarterly fuel adjustments and surcharges based on the US Dept of Transportation, Division of Highways (PADD-3) Fuel Adjustment Surcharge for the geographic location where the work is being performed?

**Answer:**

No.

**Question:**

Contractor requests that the contract be amended on Page 8 of 32 for the section "Early Termination" to include the following language;

"However, if the City exercises its discretionary right to terminate for convenience, the City will pay Contractor for expenses incurred because of early termination. These expenses include, but are not limited to, recovery of capital costs, demobilization, employee severance payments and costs to terminate subcontractors and equipment leases."

**Answer:**

No, the city will not agree to this change.

//attachments:

Cemetery 05/24/23 Sludge Report

Airport 02/06/18 Sludge Report

Western 02/06/18 Sludge Report

Highlands Ridge 06/06/18 Sludge Report

Country Club 02/06/18 Sludge Report

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ACKNOWLEDGEMENT

It is the vendor's responsibility to ensure their receipt of all addenda, and to clearly acknowledge all addenda within their initial bid or proposal response in the space provided on the Submittal Checklist included in the original solicitation document. Failure to do so may subject the bidder to disqualification.



July 10, 2023

Mary Jane Faircloth  
City of Sebring-Wastewater  
4200 Cemetery Rd  
Sebring, FL 33870

RE: Project: Cemetery WWTP-Digester  
Pace Project No.: 35801733

Dear Mary Faircloth:

Enclosed are the analytical results for sample(s) received by the laboratory on May 24, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Ormond Beach

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

Sincerely,

Cameron Meynardie  
cameron.meynardie@pacelabs.com  
813-855-1844  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Cemetery WWTP-Digester

Pace Project No.: 35801733

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### Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

DoD-ANAB #:ADE-3199

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maine Certification #: FL01264

Maryland Certification: #346

Massachusetts Certification #: M-FL1264

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

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### SAMPLE SUMMARY

Project: Cemetery WWTP-Digester  
Pace Project No.: 35801733

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
35801733001	Digester-East	Solid	05/24/23 06:45	05/24/23 14:55

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### SAMPLE ANALYTE COUNT

Project: Cemetery WWTP-Digester

Pace Project No.: 35801733

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Lab ID	Sample ID	Method	Analysts	Analytes Reported
35801733001	Digester-East	EPA 6010	KC2	9
		EPA 7471	JNK	1
		ASTM D2974-87	BMA	1
		SM 2540G	WW1	1
		EPA 9045	SWB	1
		TKN+NOx Calculation	AGS	1
		EPA 351.2	AGS	1
		EPA 353.2	KW1	1
		EPA 365.4	AGS	1

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PASI-O = Pace Analytical Services - Ormond Beach

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## ANALYTICAL RESULTS

Project: Cemetery WWTP-Digester

Pace Project No.: 35801733

Sample: Digester-East Lab ID: 35801733001 Collected: 05/24/23 06:45 Received: 05/24/23 14:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Pace Analytical Services - Ormond Beach									
Arsenic	7.2 U	mg/kg	14.4	7.2	1	06/08/23 11:39	06/09/23 01:03	7440-38-2	
Cadmium	0.72 U	mg/kg	1.4	0.72	1	06/08/23 11:39	06/09/23 01:03	7440-43-9	
Copper	245	mg/kg	7.2	3.6	1	06/08/23 11:39	06/09/23 01:03	7440-50-8	
Lead	11.8 I	mg/kg	14.4	7.2	1	06/08/23 11:39	06/09/23 01:03	7439-92-1	
Molybdenum	13.1 I	mg/kg	14.4	7.2	1	06/08/23 11:39	06/09/23 01:03	7439-98-7	
Nickel	9.0	mg/kg	7.2	3.6	1	06/08/23 11:39	06/09/23 01:03	7440-02-0	
Potassium	0.96	% (w/w)	0.14	0.072	1	06/08/23 11:39	06/09/23 01:03	7440-09-7	J(M1)
Selenium	10.8 U	mg/kg	21.6	10.8	1	06/08/23 11:39	06/09/23 01:03	7782-49-2	
Zinc	774	mg/kg	144	51.9	1	06/08/23 11:39	06/09/23 01:03	7440-66-6	
<b>7471 Mercury</b>									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Ormond Beach									
Mercury	0.49	mg/kg	0.29	0.14	1	06/05/23 10:45	06/06/23 09:48	7439-97-6	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Ormond Beach									
Percent Moisture	96.8	%	0.10	0.10	1		05/30/23 13:07		
<b>2540G Total Solids</b>									
Analytical Method: SM 2540G									
Pace Analytical Services - Ormond Beach									
Total Solids	3.3	%	0.0010	0.0010	1		05/28/23 11:15		
<b>9045 pH Soil</b>									
Analytical Method: EPA 9045									
Pace Analytical Services - Ormond Beach									
pH at 25 Degrees C	6.6	Std. Units	0.10	0.10	1		05/25/23 14:31		Q
<b>Total Nitrogen Calculation</b>									
Analytical Method: TKN+NOx Calculation									
Pace Analytical Services - Ormond Beach									
Total Nitrogen Soil	5.6	% (w/w)	0.062	0.034	1		06/07/23 16:40		
<b>351.2 Total Kjeldahl Nitrogen</b>									
Analytical Method: EPA 351.2 Preparation Method: EPA 351.2									
Pace Analytical Services - Ormond Beach									
Nitrogen, Kjeldahl, Total	56300	mg/kg	23400	12800	10	06/06/23 11:45	06/07/23 11:33	7727-37-9	
<b>353.2 Nitrogen, NOx</b>									
Analytical Method: EPA 353.2 Preparation Method: EPA 353.2									
Pace Analytical Services - Ormond Beach									
Nitrogen, NO2 plus NO3	25.4	mg/kg	15.5	7.7	1	05/27/23 18:50	05/27/23 21:58		
<b>365.4 Phosphorus, Total</b>									
Analytical Method: EPA 365.4 Preparation Method: EPA 365.4									
Pace Analytical Services - Ormond Beach									
Phosphorus, Total (as P)	2.3	% (w/w)	0.70	0.61	10	06/06/23 11:45	06/07/23 13:49	7723-14-0	

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**QUALITY CONTROL DATA**

Project: Cemetery WWTP-Digester

Pace Project No.: 35801733

QC Batch: 923221	Analysis Method: EPA 7471
QC Batch Method: EPA 7471	Analysis Description: 7471 Mercury
	Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35801733001

METHOD BLANK: 5073789 Matrix: Solid

Associated Lab Samples: 35801733001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/kg	0.0046 U	0.0091	0.0046	06/06/23 10:08	

LABORATORY CONTROL SAMPLE: 5073790

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.094	0.096	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5073791 5073792

Parameter	Units	5073791		5073792		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		35802219001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	mg/kg	1.5 I	27.6	27.3	31.8	29.0	110	101	80-120	9	20

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**QUALITY CONTROL DATA**

Project: Cemetery WWTP-Digester  
Pace Project No.: 35801733

QC Batch: 924294 Analysis Method: EPA 6010  
QC Batch Method: EPA 3050 Analysis Description: 6010 MET Solid  
Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35801733001

METHOD BLANK: 5079605 Matrix: Solid  
Associated Lab Samples: 35801733001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	0.30 U	0.60	0.30	06/09/23 00:55	
Cadmium	mg/kg	0.030 U	0.060	0.030	06/09/23 00:55	
Copper	mg/kg	0.25 I	0.30	0.15	06/09/23 00:55	
Lead	mg/kg	0.30 U	0.60	0.30	06/09/23 00:55	
Molybdenum	mg/kg	0.30 U	0.60	0.30	06/09/23 00:55	
Nickel	mg/kg	0.15 U	0.30	0.15	06/09/23 00:55	
Potassium	% (w/w)	0.0030 U	0.0060	0.0030	06/09/23 00:55	
Selenium	mg/kg	0.45 U	0.90	0.45	06/09/23 00:55	
Zinc	mg/kg	2.2 U	6.0	2.2	06/09/23 00:55	

LABORATORY CONTROL SAMPLE: 5079606

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	14.8	14.1	95	80-120	
Cadmium	mg/kg	1.5	1.5	101	80-120	
Copper	mg/kg	14.8	14.8	100	80-120	
Lead	mg/kg	14.8	15.3	103	80-120	
Molybdenum	mg/kg	14.8	15.2	103	80-120	
Nickel	mg/kg	14.8	15.4	104	80-120	
Potassium	% (w/w)	0.074	0.070	95	80-120	
Selenium	mg/kg	14.8	13.2	89	80-120	
Zinc	mg/kg	73.9	74.5	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5079607 5079608

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		35801733001 Result	Spike Conc.	Spike Conc.	Result						
Arsenic	mg/kg	7.2 U	367	373	346	357	93	95	75-125	3	20
Cadmium	mg/kg	0.72 U	37	37	37.5	38.0	101	101	75-125	1	20
Copper	mg/kg	245	367	373	623	628	103	103	75-125	1	20
Lead	mg/kg	11.8 I	367	373	389	397	103	103	75-125	2	20
Molybdenum	mg/kg	13.1 I	367	373	382	389	100	101	75-125	2	20
Nickel	mg/kg	9.0	367	373	388	407	103	107	75-125	5	20
Potassium	% (w/w)	0.96	1.9	1.9	2.8	2.8	100	99	75-125	0	20 J(M1)
Selenium	mg/kg	10.8 U	367	373	324	333	87	88	75-125	3	20
Zinc	mg/kg	774	1840	1860	2640	2650	102	101	75-125	0	20

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### QUALITY CONTROL DATA

Project: Cemetery WWTP-Digester

Pace Project No.: 35801733

QC Batch: 921792

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35801733001

SAMPLE DUPLICATE: 5067292

Parameter	Units	35801701017 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	76.8	76.9	0	10	

SAMPLE DUPLICATE: 5067293

Parameter	Units	35802028014 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	76.5	76.2	0	10	

SAMPLE DUPLICATE: 5067294

Parameter	Units	35802436001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	46.3	44.1	5	10	

SAMPLE DUPLICATE: 5067295

Parameter	Units	35802563004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.1	17.9	6	10	

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### QUALITY CONTROL DATA

Project: Cemetery WWTP-Digester

Pace Project No.: 35801733

QC Batch: 921550

Analysis Method: SM 2540G

QC Batch Method: SM 2540G

Analysis Description: 2540G Total Solids

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35801733001

SAMPLE DUPLICATE: 5066650

Parameter	Units	35802569001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	%	2.8	2.8	0	10	

SAMPLE DUPLICATE: 5066651

Parameter	Units	35802569002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	%	3.1	3.4	9	10	

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**QUALITY CONTROL DATA**

Project: Cemetery WWTP-Digester

Pace Project No.: 35801733

QC Batch:	923054	Analysis Method:	EPA 351.2
QC Batch Method:	EPA 351.2	Analysis Description:	351.2 TKN
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35801733001

METHOD BLANK: 5073419 Matrix: Solid  
 Associated Lab Samples: 35801733001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	49.8 U	90.6	49.8	06/07/23 11:28	

LABORATORY CONTROL SAMPLE: 5073420

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	3010	2830	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5073422 5073421

Parameter	Units	5073422		5073421		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Nitrogen, Kjeldahl, Total	mg/kg	61500	22900	85600	82900	105	93	90-110	3	20	

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**QUALITY CONTROL DATA**

Project: Cemetery WWTP-Digester

Pace Project No.: 35801733

QC Batch:	921380	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrogen, NOx
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35801733001

METHOD BLANK: 5065816 Matrix: Solid

Associated Lab Samples: 35801733001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/kg	0.25 U	0.50	0.25	05/27/23 21:50	

LABORATORY CONTROL SAMPLE: 5065817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/kg	19.9	19.5	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5065819 5065818

Parameter	Units	5065819		5065818		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		35801972001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Nitrogen, NO2 plus NO3	mg/kg	0.98 U	78.8	78.8	27.6	22.4	34	27	80-120	21	20	J(M1), J(R1)

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**QUALITY CONTROL DATA**

Project: Cemetery WWTP-Digester

Pace Project No.: 35801733

QC Batch: 923055	Analysis Method: EPA 365.4
QC Batch Method: EPA 365.4	Analysis Description: 365.4 Total Phosphorus
	Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35801733001

METHOD BLANK: 5073423 Matrix: Solid

Associated Lab Samples: 35801733001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphorus, Total (as P)	% (w/w)	0.0024 U	0.0027	0.0024	06/07/23 13:53	

LABORATORY CONTROL SAMPLE: 5073424

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	% (w/w)	0.06	0.055	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5073426 5073425

Parameter	Units	5073426		5073425		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		35802580001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Phosphorus, Total (as P)	% (w/w)	12100 mg/kg	0.45	0.45	1.8	1.7	135	98	80-120	10	20 J(M1)

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, LLC.



## QUALIFIERS

Project: Cemetery WWTP-Digester

Pace Project No.: 35801733

---

### 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

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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

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

U Compound was analyzed for but not detected.

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

J(R1) Estimated Value. RPD value was outside control limits.

Q Sample held beyond the accepted holding time. Analysis initiated more than 15 minutes after sample collection.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Cemetery WWTP-Digester

Pace Project No.: 35801733

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35801733001	Digester-East	EPA 3050	924294	EPA 6010	924428
35801733001	Digester-East	EPA 7471	923221	EPA 7471	923309
35801733001	Digester-East	ASTM D2974-87	921792		
35801733001	Digester-East	SM 2540G	921550		
35801733001	Digester-East	EPA 9045	920807		
35801733001	Digester-East	TKN+NOx Calculation	924056		
35801733001	Digester-East	EPA 351.2	923054	EPA 351.2	923830
35801733001	Digester-East	EPA 353.2	921380	EPA 353.2	921531
35801733001	Digester-East	EPA 365.4	923055	EPA 365.4	923831

### REPORT OF LABORATORY ANALYSIS

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**CHAIN-OF-CUSTODY Analytical Request Document**

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>  
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Wor

WO#: 35801733



Page 15 of 21

Company: City of Sebring Cemetery WWTP		Billing Information:	
Address: 4200 Cemetery Road			
Report To: cameron.maynardie@pacelabs.com		Email To: maryjanefaircloth@mysebring.com	
Copy To: maryjanefaircloth@mysebring.com		Site Collection Info/Address: Cemetery Digester - East	
Customer Project Name/Number: Cemetery Sludge		State: County/City: Time Zone Collected:	

ALL BOLD OUT

Container Preservative

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Phone: (863) 471-5114	Site/Facility ID #: FLA014311	Compliance Monitoring?
Email:		[ ] Yes [ ] No
Collected By (print): Mary Jane Faircloth	Purchase Order #:	DW PWS ID #:
Collected By (signature): <i>MJ Faircloth</i>	Quote #:	DW Location Code:
Sample Disposal:	Turnaround Date Required:	Immediately Packed on Ice:
[ ] Dispose as appropriate		[ ] Yes [ ] No
[ ] Return	Rush: (Expedite Charges Apply)	Field Filtered (if applicable):
[ ] Archive:	[ ] Same Day [ ] Next Day	[ ] Yes [ ] No
[ ] Hold:	[ ] 2 Day [ ] 3 Day	Analysis: _____
	[ ] 4 Day [ ] 5 Day	

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)
			Date	Time	Date	Time			
Digester - East	Solids	G	5/24/23	06:45				1	P

Analyses	Lab Profile/Line:
Sludge	Lab Sample Receipt Checklist:
	Custody Seals Present/Intact Y N NA
	Custody Signatures Present Y N NA
	Collector Signature Present Y N NA
	Bottles Intact Y N NA
	Correct Bottles Y N NA
	Sufficient Volume Y N NA
	Samples Received on Ice Y N NA
	VOA - Headspace Acceptable Y N NA
	USDA Regulated Soils Y N NA
	Samples in Holding Time Y N NA
	Residual Chlorine Present Y N NA
	Cl Strips: _____
	Sample pH Acceptable Y N NA
	pH Strips: _____
	Sulfide Present Y N NA
	Lead Acetate Strips: _____
	LAB USE ONLY:
	Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None	SHORT HOLDS PRESENT (<72 hours): Y N N/A
Packing Material Used:	Lab Tracking #:
Radchem sample(s) screened (<500 cpm): Y N NA	Samples received via: FEDEX UPS Client Courier Pace Courier

Relinquished by/Company: (Signature) <i>M.J. Faircloth</i>	Date/Time: 5/24/23 @	Received by/Company: (Signature) <i>Ken Baerl</i>	Date/Time: 5/24/23 635	MTJL LAB USE ONLY
Relinquished by/Company: (Signature) <i>Ken Baerl</i>	Date/Time: 5/24/23 1955	Received by/Company: (Signature) <i>DS</i>	Date/Time: 5-24-23 1455	Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum:
				Template:
				Prelogin:
				PM:
				PB:

LAB Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: \_\_\_\_\_

Cooler 1 Temp Upon Receipt: \_\_\_\_oC

Cooler 1 Therm Corr. Factor: \_\_\_\_oC

Cooler 1 Corrected Temp: \_\_\_\_oC

Comments:

---

Trip Blank Received: Y N NA

HCL MeOH TSP Other

---

Non Conformance(s): Page: \_\_\_\_\_

YES / NO of: \_\_\_\_\_



Sample Condition Upon Receipt Form (SCUR)

**WO#: 35801733**  
**PM: CEM Due Date: 06/08/23**  
**CLIENT: CITSEB**

**Project #**  
**Project Manager:**  
**Client:**

Date and Initials of person: \_\_\_\_\_  
 Examining contents: DS  
 Label: 5-24-23 ↓  
 Deliver: \_\_\_\_\_  
 pH: \_\_\_\_\_  
 Initials: DS

Thermometer Used: T-202

Date: 5-24-23 Time: 1455

State of Origin: FL  For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp. °C 4.1 (Visual) +0.2 (Correction Factor) 4.3 (Actual)  
 Cooler #2 Temp. °C \_\_\_\_\_ (Visual) \_\_\_\_\_ (Correction Factor) \_\_\_\_\_ (Actual)  
 Cooler #3 Temp. °C \_\_\_\_\_ (Visual) \_\_\_\_\_ (Correction Factor) \_\_\_\_\_ (Actual)  
 Cooler #4 Temp. °C \_\_\_\_\_ (Visual) \_\_\_\_\_ (Correction Factor) \_\_\_\_\_ (Actual)  
 Cooler #5 Temp. °C \_\_\_\_\_ (Visual) \_\_\_\_\_ (Correction Factor) \_\_\_\_\_ (Actual)  
 Cooler #6 Temp. °C \_\_\_\_\_ (Visual) \_\_\_\_\_ (Correction Factor) \_\_\_\_\_ (Actual)  
 Recheck for OOT °C \_\_\_\_\_ (Visual) \_\_\_\_\_ (Correction Factor) \_\_\_\_\_ (Actual)

Samples on ice, cooling process has begun.  
 Samples on ice, cooling process has begun.  
 Samples on ice, cooling process has begun.  
 Samples on ice, cooling process has begun.  
 Samples on ice, cooling process has begun.  
 Samples on ice, cooling process has begun.  
 Time: \_\_\_\_\_ Initials: \_\_\_\_\_

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other:

Shipping Method:  Standard Overnight  First Overnight  Priority Overnight  Ground  International Priority  Other:

Billing:  Recipient  Sender  Third Party  Credit Card  Unknown

Tracking # \_\_\_\_\_

Custody Seal Present:  Yes  No Seal properly placed and intact:  Yes  No

Ice:  Wet  Blue  Dry  None  Melted

Packing Material:  Bubble Wrap  Bubble Bags  None  Other:

Samples shorted to lab:  Yes  No (If yes, complete the following)

Shorted Date: \_\_\_\_\_ Shorted Time: \_\_\_\_\_  
 Bottle Quantity / Type: \_\_\_\_\_

Chain of Custody:	Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   Filled Out: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A   Pace Relinquished: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A   Sampler Accepted: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
	Sampler Name: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A   Sampler Relinquished: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A   Sampling Date(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A   Sampling Time(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Samples Arrived within Hold Time.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Comments:	
Rush Turnaround Requested on COC.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Comments:	
Sufficient Volume.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Comments:	
Correct Containers Used.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Comments:	
Containers Intact.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Comments:	
Sample Labels Match COC (Sample ID, Date/Time of Collection).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Comments:	
All containers needing acid / base preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<b>Preservation Information</b> Preservative: _____ Date: _____ Lot / Trace: _____ Time: _____ Amount added (mL): _____ Initials: _____	
All containers needing preservation are found to be in compliance with EPA recommendation: <small>Exceptions: Vials, Microbiology, O&amp;G, PFAS</small>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Headspace in Volatile Vials? (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

Comments / Resolutions (use back for additional comments):  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



6/5/2023

Pace Analytical Tampa  
Cameron Meynardie  
110 S Bayview Blvd  
Oldsmar, FL, 34677

Ref: Analytical Testing  
Report Number: 23-146-0014  
Project Description: Cemetery WWTP-Digester  
35801733

Dear Cameron Meynardie:

Waypoint Analytical Virginia, Inc. received sample(s) on 5/26/2023 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method. Sub-contracted testing is noted on the Sample Summary Table if applicable.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2012) and NELAC unless otherwise indicated.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Brandi Watson

**Sample Summary Table**

**Report Number:** 23-146-0014  
**Client Project Description:** Cemetery WWTP-Digester  
35801733

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
62112	Digester-East 35801733001	Solids	05/24/2023 06:45	05/26/2023	SM-2540G	WP MTN
62112	Digester-East 35801733001	Solids	05/24/2023 06:45	05/26/2023	AOAC 955.01	WP MTN

14079

Pace Analytical Tampa  
Cameron Meynardie  
110 S Bayview Blvd  
Oldsmar , FL 34677

Project Cemetery WWTP-Digester  
Information : 35801733

Report Date : 06/05/2023  
Received : 05/26/2023



Report Number : **23-146-0014**

**REPORT OF ANALYSIS**

Brandi Watson

Lab No : **62112**

Matrix: **Solids**

Sample ID : **Digester-East 35801733001**

Sampled: **5/24/2023 6:45**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Solids	<b>3.32</b>	%	0.010	1	05/31/23 18:23	CJR	SM-2540G
Calcium Carbonate Equivalent	<b>6.1</b>	%	0.1	1	06/02/23 12:00	DXT	AOAC 955.01

**Analytical Method:** SM-2540G

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Moisture	<b>96.7</b>	%	0.010	1	05/31/23 18:23	CJR	L685103

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



### Shipment Receipt Form

Customer Number: **14079**  
 Customer Name: **Pace Analytical Tampa**  
 Report Number: **23-146-0014**

#### Shipping Method

Fed Ex     
  US Postal     
  Lab     
  Other :   
 UPS     
  Client     
  Courier     
 Thermometer ID:

Shipping container/cooler uncompromised?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Number of coolers/boxes received	<input type="text" value="1"/>		
Custody seals intact on shipping container/cooler?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Present
Custody seals intact on sample bottles?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Present
Chain of Custody (COC) present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC agrees with sample label(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC properly completed	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples in proper containers?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample containers intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sufficient sample volume for indicated test(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
All samples received within holding time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler temperature in compliance?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Water - Sample containers properly preserved	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Water - VOA vials free of headspace	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Trip Blanks received with VOAs	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Soil VOA method 5035 – compliance criteria met	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
<input type="checkbox"/> High concentration container (48 hr)		<input type="checkbox"/> Low concentration EnCore samplers (48 hr)	
<input type="checkbox"/> High concentration pre-weighed (methanol -14 d)		<input type="checkbox"/> Low conc pre-weighed vials (Sod Bis -14 d)	
Special precautions or instructions included?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

Comments:

Signature:

Date & Time:

# Chain of Custody

PASI Ormond Beach Laboratory



Workorder: 35801733

Workorder Name: Cemetery WWTP-Digester

Results Requested By: 6/8/2023

Report / Invoice To

Subcontract To

Requested Analysis

Cameron Meynardie  
Pace Analytical Tampa  
110 South Bayview Blvd.  
Oldsmar, FL 34677  
Phone 813-855-1844  
Email: cameron.meynardie@pacelabs.com

Waypoint Analytical  
7621 Whitepine Raod  
Richmond, VA 23237  
(804) 743-9401

P.O. 35801733

23-146-0014  
14079  
05-26-2023  
13:19:42



Pace Analytical Tampa  
Cemetery WWTP-Digester

State of Sample Origin: FL

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Calcium Carbonate
1	Digester-East	5/24/2023 06:45	35801733001	Solid	General 1	X
2						
3						
4						
5						

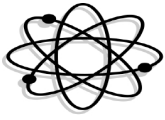
LAB USE ONLY

Comments

Transfers	Released By	Date/Time	Received By	Date/Time
1	Emily C	5/25/23 16:00	Fedex	5/25/23 16:00
2	Fedex	5/26/23	[Signature]	
3				

Cooler Temperature on Receipt °C Custody Seal Y or N Received on Ice Y or N Samples Intact Y or N





# FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs, FL 32715-0597  
571 NW Mercantile Pl, Suite 111, Port St. Lucie, FL 34986  
812 SW Harvey Green Dr, Madison, FL 32340  
3980 Overseas Hwy, Suite 103, Marathon, FL 33050

Phone: 407-339-5984 E83018 (Main Lab)  
Phone: 772-343-8006 E86562 (South Lab)  
Phone: 850-973-6878 E82405 (North Lab)  
Phone: 305-743-8598 E35834 (Keys Lab)

City of Sebring Wastewater Plants  
368 South Commerce Ave.  
Sebring, FL 33870

PO #: 180057  
Client Project #: Airport Sludge  
Date Sampled: Feb 6, 2018  
Feb 21, 2018; Invoice: 356766

## Report Summary

Date Received: Feb 8, 2018

FCL Project Manager: Kathryn M. Nordmark

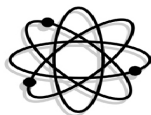
Laboratory #	Sample Description	Analysis	Chemist	Location	Sample Matrix
356766SL1	Digester	CaluSL			Sludge
		EPA351.2	VLB	Main Lab	
		EPA353.2	CCP	Main Lab	
		EPA365.4	VLB	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7471	EVB	Main Lab	
		SM2540 B	PLB	Main Lab	
		SM4500-H B	IAD	Main Lab	

### Certificate of Results

Sample integrity was certified prior to analysis. Test results meet all requirements of the NELAC Standards except as noted in the Quality Control Report. Uncertainties for these data are available on request. This report may not be reproduced in part; results relate only to items tested.



Jefferson S. Flowers, Ph.D.  
President/Technical Director



# FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs, FL 32715-0597  
571 NW Mercantile Pl, Suite 111, Port St. Lucie, FL 34986  
812 SW Harvey Green Dr, Madison, FL 32340  
3980 Overseas Hwy, Suite 103, Marathon, FL 33050

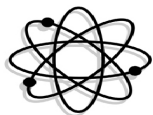
Phone: 407-339-5984 E83018 (Main Lab)  
Phone: 772-343-8006 E86562 (South Lab)  
Phone: 850-973-6878 E82405 (North Lab)  
Phone: 305-743-8598 E35834 (Keys Lab)

City of Sebring Wastewater Plants  
368 South Commerce Ave.  
Sebring, FL 33870

PO #: 180057  
Client Project #: Airport Sludge  
Date Sampled: Feb 6, 2018  
Feb 21, 2018; Invoice: 356766

## Analysis Report

Lab #: 356766SL1	Sampled: 02/06/18 12:00 PM	Desc: Digester									
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analized		
Total Nitrogen(as N)	8.35		0				CaluSL	17778-88-0			
Lab pH (units)	7.00	pH	1.00	0.0100	0.0200	10356847	SM4500-H B	39-38-4	02/16/18	01:00 AM	
Total Solids	1.65	%Wt	1.00	0.000250	0.000500	10363532	SM2540 B	C-008	02/08/18		
Potassium	0.323	%DW	1.00	0.0000200	0.0000400	10363622	EPA6010	7440-09-7	02/08/18		
Arsenic	3.44	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7440-38-2	02/08/18		
Cadmium	5.01	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7440-43-9	02/08/18		
Chromium	4740	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7440-47-3	02/08/18		
Copper	240	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7440-50-8	02/08/18		
Lead	24.3	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7439-92-1	02/08/18		
Molybdenum	19.1	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7439-98-7	02/08/18		
Nickel	29.9	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7440-02-0	02/08/18		
Selenium	3.31	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7782-49-2	02/08/18		
Zinc	558	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7440-66-6	02/08/18		
TKN(as N)	8.25	%DW	300	0.00300	0.00600	10363738	EPA351.2	7727-37-9	02/09/18		
Total Phosphorus(as P)	2.09	%DW	300	0.00300	0.00600	10363761	EPA365.4	7723-14-0	02/09/18		
NO3+NO2(as N)	0.102	%DW	10.0	0.000100	0.000200	10364122	EPA353.2	I-005	02/15/18		
Mercury	0.0200 U	mg/kgDW	20.0	0.0200	0.0400	10364554	EPA7471	7439-97-6	02/15/18		



# FLOWERS CHEMICAL LABORATORIES INC.

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City of Sebring Wastewater Plants  
368 South Commerce Ave.  
Sebring, FL 33870

PO #: 180057  
Client Project #: Airport Sludge  
Date Sampled: Feb 6, 2018  
Feb 21, 2018; Invoice: 356766

## Quality Report

**Quality Control Batch:** 10363532

**Analyst:** PLB

<b>Blank</b>	<b>Result</b>	<b>Units</b>
Total Solids	0.000250U	%Wt

**Quality Control Batch:** 10363622

**Analyst:** EVB

<b>Blank</b>	<b>Result</b>	<b>Units</b>
Potassium	0.0000200U	%DW

**Laboratory Control Sample**

	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>
Potassium	4.80	%DW	5.00	95.96	80.00-120.00

**Matrix Spike**

	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>
Potassium	5.40	%DW	5.00	107.96	80.00-120.00	0.0000200U

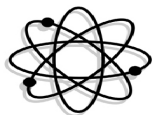
**Matrix Spike Duplicate**

	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>RPD</b>	<b>RPD Lim</b>
Potassium	5.42	%DW	5.00	108.36	80.00-120.00	0.0000200U	0.37	20.00

**Quality Control Batch:** 10363645

**Analyst:** EVB

<b>Blank</b>	<b>Result</b>	<b>Units</b>
Arsenic	0.000100U	mg/kgDW
Cadmium	0.000100U	mg/kgDW
Chromium	0.000100U	mg/kgDW
Copper	0.000100U	mg/kgDW
Lead	0.000100U	mg/kgDW
Molybdenum	0.000100U	mg/kgDW
Nickel	0.000100U	mg/kgDW
Selenium	0.000100U	mg/kgDW



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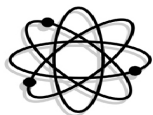
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Phone: 305-743-8598 E35834 (Keys Lab)

City of Sebring Wastewater Plants  
368 South Commerce Ave.  
Sebring, FL 33870

PO #: 180057  
Client Project #: Airport Sludge  
Date Sampled: Feb 6, 2018  
Feb 21, 2018; Invoice: 356766

Quality Control Batch: 10363645		Analyst: EVB						
<b>Blank</b>	<b>Result</b>	<b>Units</b>						
Zinc	0.000100U	mg/kgDW						
<b>Laboratory Control Sample</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>			
Arsenic	0.0989	mg/kgDW	0.100	98.90	80.00-120.00			
Cadmium	0.100	mg/kgDW	0.100	100.30	80.00-120.00			
Chromium	0.101	mg/kgDW	0.100	100.90	80.00-120.00			
Copper	0.107	mg/kgDW	0.100	107.40	80.00-120.00			
Lead	0.103	mg/kgDW	0.100	102.90	80.00-120.00			
Molybdenum	0.104	mg/kgDW	0.100	103.90	80.00-120.00			
Nickel	0.103	mg/kgDW	0.100	103.20	80.00-120.00			
Selenium	0.107	mg/kgDW	0.100	107.00	80.00-120.00			
Zinc	0.0999	mg/kgDW	0.100	99.90	80.00-120.00			
<b>Matrix Spike</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>		
Arsenic	0.117	mg/kgDW	0.100	116.70	80.00-120.00	0.000100U		
Cadmium	0.104	mg/kgDW	0.100	104.30	80.00-120.00	0.000100U		
Chromium	0.101	mg/kgDW	0.100	101.10	80.00-120.00	0.000100U		
Copper	0.102	mg/kgDW	0.100	95.00	80.00-120.00	0.00740		
Lead	0.0967	mg/kgDW	0.100	96.70	80.00-120.00	0.000100U		
Molybdenum	0.0821	mg/kgDW	0.100	82.10	80.00-120.00	0.000100U		
Nickel	0.0976	mg/kgDW	0.100	96.50	80.00-120.00	0.00110		
Selenium	0.117	mg/kgDW	0.100	117.30	80.00-120.00	0.000100U		
Zinc	0.167	mg/kgDW	0.100	121.40	80.00-120.00	0.0452		
<b>Matrix Spike Duplicate</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>RPD</b>	<b>RPD Lim</b>
Arsenic	0.115	mg/kgDW	0.100	115.40	80.00-120.00	0.000100U	1.12	20.00
Cadmium	0.103	mg/kgDW	0.100	103.10	80.00-120.00	0.000100U	1.16	20.00
Chromium	0.0982	mg/kgDW	0.100	98.20	80.00-120.00	0.000100U	2.91	20.00
Copper	0.101	mg/kgDW	0.100	93.50	80.00-120.00	0.00740	1.48	20.00



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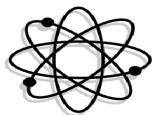
City of Sebring Wastewater Plants  
368 South Commerce Ave.  
Sebring, FL 33870

PO #: 180057  
Client Project #: Airport Sludge  
Date Sampled: Feb 6, 2018  
Feb 21, 2018; Invoice: 356766

Quality Control Batch: 10363645		Analyst: EVB						
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Lead	0.0965	mg/kgDW	0.100	96.50	80.00-120.00	0.000100U	0.21	20.00
Molybdenum	0.0857	mg/kgDW	0.100	85.70	80.00-120.00	0.000100U	4.29	20.00
Nickel	0.0959	mg/kgDW	0.100	94.80	80.00-120.00	0.00110	1.76	20.00
Selenium	0.113	mg/kgDW	0.100	113.20	80.00-120.00	0.000100U	3.56	20.00
Zinc	0.164	mg/kgDW	0.100	119.10	80.00-120.00	0.0452	1.39	20.00

Quality Control Batch: 10363738		Analyst: VLB						
Blank	Result	Units						
TKN(as N)	3.03	%DW						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
TKN(as N)	3.03	%DW	3.00	100.94	90.00-110.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
TKN(as N)	3.26	%DW	3.00	91.23	85.00-115.00	0.521		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
TKN(as N)	3.51	%DW	3.00	99.51	85.00-115.00	0.521	7.35	20.00

Quality Control Batch: 10363761		Analyst: VLB						
Blank	Result	Units						
Total Phosphorus(as P)	0.0000100U	%DW						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Total Phosphorus(as P)	1.45	%DW	1.50	96.83	90.00-110.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Total Phosphorus(as P)	2.00	%DW	2.00	86.25	85.00-115.00	0.277		



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City of Sebring Wastewater Plants  
368 South Commerce Ave.  
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PO #: 180057  
Client Project #: Airport Sludge  
Date Sampled: Feb 6, 2018  
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Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Total Phosphorus(as P)	2.09	%DW	2.00	90.86	85.00-115.00	0.277	4.51	20.00

Quality Control Batch: 10364122

Analyst: CCP

Blank	Result	Units
NO3+NO2(as N)	0.0344	%DW

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
NO3+NO2(as N)	2.11	%DW	2.00	105.50	85.00-115.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
NO3+NO2(as N)	4.52	%DW	4.00	102.52	85.00-115.00	0.419

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
NO3+NO2(as N)	4.48	%DW	4.00	101.52	85.00-115.00	0.419	0.89	20.00

Quality Control Batch: 10364554

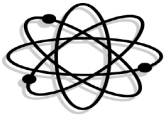
Analyst: EVB

Blank	Result	Units
Mercury	0.00100U	mg/kgDW

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Mercury	0.000983	mg/kgDW	0.00100	98.29	80.00-120.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Mercury	0.00283	mg/kgDW	0.00300	94.85	80.00-120.00	-0.0000186

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Mercury	0.00282	mg/kgDW	0.00300	94.59	80.00-120.00	-0.0000186	0.28	20.00



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PO #: 180057  
Client Project #: Airport Sludge  
Date Sampled: Feb 6, 2018  
Feb 21, 2018; Invoice: 356766

## Narrative Report

### Sample Handling

Sample handling and holding time criteria were met for all samples. Samples collected by submitter. No unusual events occurred during analysis. Results are reported on a wet weight basis for aqueous matrices and on a dry weight basis for sludge and soil matrices unless otherwise noted.

### Quality Control

Enclosed analyses met method or FCL criteria, unless otherwise denoted on the sample results. Applied data qualifiers are defined below.

### Attachments

Chain of Custody

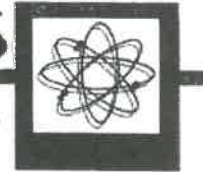
Qualifier	Meaning
U	Compound was analyzed for but not detected.
J	Estimated value; one or more QC components associated with this data value exceed current QC limits.
Q	Sample held beyond the accepted holding time.
L	Off-scale high; reported concentration exceeds the highest standard.
V	Analyte was detected in both the sample and the associated method blank.
W	The dissolved oxygen blank was above 0.2 mg/L but less than the MDL.
Z	Too numerous to count colonies on plate.
A	Absent
P	Present
T	Value reported is less than the statistical method detection limit. Reported for informational purposes only.
M	Value reported is greater than the statistical method detection limit, but less than the reported MDL.
G	The greatest of the dilutions performed did not yield sufficient oxygen depletion for valid data.
S	The least of the dilutions performed did not yield sufficient oxygen residual for valid data.
O	Result is greater than (over) the specified value.
I	Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
B	Results based upon colony plate count outside ideal range.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.

Check Box that Applies to your location

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Fax: 407-280-8110
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West Park Industrial Plaza  
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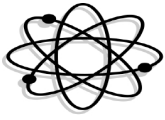
Client <b>City of Sebring Wastewater Plants</b>	Project Name <b>Alrport Monthly <u>SLUDGE</u></b>	P.O. # <b>180057</b>
Address <b>4200 Cemetary Rd. Sebring, FL 33870</b>	Client Contact <b>Jack Pollard</b>	Fax <b>863.471.5144</b>
Phone <b>863.471.5114</b>	FCL Project Manager <b>Kathryn Nordmark</b>	Email <b>JackPollard@mysebring.com</b>
Due Date 10 day standard <b>OR</b> <input type="checkbox"/> <b>Rush Charges May Apply</b>		

Sampled by (Print) <b>Mary Jane Faircloth</b>	Pick up Fee \$	Vehicle Surchar \$	Sampling Fee \$
Sampler Signature <b>MJ Faircloth</b>	Date Sampled <b>12/06/18</b>		
GW-groundwater SW-surface water <input checked="" type="checkbox"/> DW-drinking water <input type="checkbox"/> S-soil/solid <input type="checkbox"/> SL-sludge <input type="checkbox"/> WW-wastewater <input type="checkbox"/> HW-waste			

Item No	Sample ID	Date	Time	Matrix	(Lab use only) Lab Number	None	Preservatives					62-640 Sludge	Analyses Requested				Comments	No of Containers	
							H2SO4	HNO3	HCl	Na2S2O3	Other								
1	Digester	12/06/18	1200	SL		X						X							
						356766541													
Relinquished by/Affiliation		Date	Time	Received by/Affiliation		Date	Time	Relinquished by/Affiliation		Date	Time	Received by/Affiliation		Date	Time				
S.2 S		2-7-18	1025	Jimmy		2/1/18	10:25	Jimmy		2/7/18	14:50	JMM/KCC		2/7	14:50				

Finance Charges Applied to Past Due Invoices





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City of Sebring Wastewater Plants  
368 South Commerce Ave.  
Sebring, FL 33870

PO #: 180057  
Client Project #: Western Sludge  
Date Sampled: Feb 6, 2018  
Feb 16, 2018; Invoice: 356768

## Report Summary

Date Received: Feb 8, 2018

FCL Project Manager: Kathryn M. Nordmark

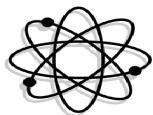
Laboratory #	Sample Description	Analysis	Chemist	Location	Sample Matrix
356768SL1	Digester	CaluSL			Sludge
		EPA351.2	VLB	Main Lab	
		EPA353.2	CCP	Main Lab	
		EPA365.4	VLB	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7471	EVB	Main Lab	
		SM2540 B	PLB	Main Lab	
		SM4500-H B	IAD	Main Lab	

### Certificate of Results

Sample integrity was certified prior to analysis. Test results meet all requirements of the NELAC Standards except as noted in the Quality Control Report. Uncertainties for these data are available on request. This report may not be reproduced in part; results relate only to items tested.



Jefferson S. Flowers, Ph.D.  
President/Technical Director



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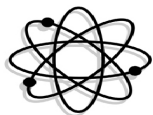
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PO #: 180057  
Client Project #: Western Sludge  
Date Sampled: Feb 6, 2018  
Feb 16, 2018; Invoice: 356768

## Analysis Report

Lab #: 356768SL1	Sampled: 02/06/18 09:05 AM	Desc: Digester									
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analized		
Total Nitrogen(as N)	10.8		0				CaluSL	17778-88-0			
Lab pH (units)	6.30	pH	1.00	0.0100	0.0200	10356847	SM4500-H B	39-38-4	02/16/18	01:00 AM	
Total Solids	1.05	%Wt	1.00	0.000250	0.000500	10363532	SM2540 B	C-008	02/08/18		
Potassium	0.719	%DW	1.00	0.0000200	0.0000400	10363622	EPA6010	7440-09-7	02/08/18		
Arsenic	0.949	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7440-38-2	02/08/18		
Cadmium	0.636	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7440-43-9	02/08/18		
Chromium	6.33	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7440-47-3	02/08/18		
Copper	174	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7440-50-8	02/08/18		
Lead	4.36	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7439-92-1	02/08/18		
Molybdenum	0.152	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7439-98-7	02/08/18		
Nickel	8.43	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7440-02-0	02/08/18		
Selenium	2.45	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7782-49-2	02/08/18		
Zinc	312	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7440-66-6	02/08/18		
TKN(as N)	10.8	%DW	300	0.00300	0.00600	10363738	EPA351.2	7727-37-9	02/09/18		
Total Phosphorus(as P)	3.36	%DW	300	0.00300	0.00600	10363761	EPA365.4	7723-14-0	02/09/18		
Mercury	0.767	mg/kgDW	20.0	0.0200	0.0400	10364036	EPA7471	7439-97-6	02/15/18		
NO3+NO2(as N)	0.00695	%DW	10.0	0.000100	0.000200	10364122	EPA353.2	I-005	02/15/18		



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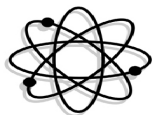
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Sebring, FL 33870

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Date Sampled: Feb 6, 2018  
Feb 16, 2018; Invoice: 356768

## Quality Report

<b>Quality Control Batch:</b> 10363532		<b>Analyst:</b> PLB						
<b>Blank</b>	<b>Result</b>	<b>Units</b>						
Total Solids	0.000250U	%Wt						
<b>Quality Control Batch:</b> 10363622		<b>Analyst:</b> EVB						
<b>Blank</b>	<b>Result</b>	<b>Units</b>						
Potassium	0.0000200U	%DW						
<b>Laboratory Control Sample</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>			
Potassium	4.80	%DW	5.00	95.96	80.00-120.00			
<b>Matrix Spike</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>		
Potassium	5.40	%DW	5.00	107.96	80.00-120.00	0.0000200U		
<b>Matrix Spike Duplicate</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>RPD</b>	<b>RPD Lim</b>
Potassium	5.42	%DW	5.00	108.36	80.00-120.00	0.0000200U	0.37	20.00
<b>Quality Control Batch:</b> 10363645		<b>Analyst:</b> EVB						
<b>Blank</b>	<b>Result</b>	<b>Units</b>						
Arsenic	0.000100U	mg/kgDW						
Cadmium	0.000100U	mg/kgDW						
Chromium	0.000100U	mg/kgDW						
Copper	0.000100U	mg/kgDW						
Lead	0.000100U	mg/kgDW						
Molybdenum	0.000100U	mg/kgDW						
Nickel	0.000100U	mg/kgDW						
Selenium	0.000100U	mg/kgDW						



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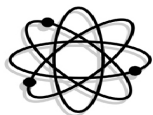
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City of Sebring Wastewater Plants  
368 South Commerce Ave.  
Sebring, FL 33870

PO #: 180057  
Client Project #: Western Sludge  
Date Sampled: Feb 6, 2018  
Feb 16, 2018; Invoice: 356768

Quality Control Batch: 10363645		Analyst: EVB						
Blank	Result	Units						
Zinc	0.000100U	mg/kgDW						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Arsenic	0.0989	mg/kgDW	0.100	98.90	80.00-120.00			
Cadmium	0.100	mg/kgDW	0.100	100.30	80.00-120.00			
Chromium	0.101	mg/kgDW	0.100	100.90	80.00-120.00			
Copper	0.107	mg/kgDW	0.100	107.40	80.00-120.00			
Lead	0.103	mg/kgDW	0.100	102.90	80.00-120.00			
Molybdenum	0.104	mg/kgDW	0.100	103.90	80.00-120.00			
Nickel	0.103	mg/kgDW	0.100	103.20	80.00-120.00			
Selenium	0.107	mg/kgDW	0.100	107.00	80.00-120.00			
Zinc	0.0999	mg/kgDW	0.100	99.90	80.00-120.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Arsenic	0.117	mg/kgDW	0.100	116.70	80.00-120.00	0.000100U		
Cadmium	0.104	mg/kgDW	0.100	104.30	80.00-120.00	0.000100U		
Chromium	0.101	mg/kgDW	0.100	101.10	80.00-120.00	0.000100U		
Copper	0.102	mg/kgDW	0.100	95.00	80.00-120.00	0.00740		
Lead	0.0967	mg/kgDW	0.100	96.70	80.00-120.00	0.000100U		
Molybdenum	0.0821	mg/kgDW	0.100	82.10	80.00-120.00	0.000100U		
Nickel	0.0976	mg/kgDW	0.100	96.50	80.00-120.00	0.00110		
Selenium	0.117	mg/kgDW	0.100	117.30	80.00-120.00	0.000100U		
Zinc	0.167	mg/kgDW	0.100	121.40	80.00-120.00	0.0452		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Arsenic	0.115	mg/kgDW	0.100	115.40	80.00-120.00	0.000100U	1.12	20.00
Cadmium	0.103	mg/kgDW	0.100	103.10	80.00-120.00	0.000100U	1.16	20.00
Chromium	0.0982	mg/kgDW	0.100	98.20	80.00-120.00	0.000100U	2.91	20.00
Copper	0.101	mg/kgDW	0.100	93.50	80.00-120.00	0.00740	1.48	20.00



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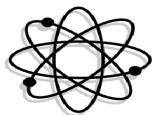
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Quality Control Batch: 10363645		Analyst: EVB						
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Lead	0.0965	mg/kgDW	0.100	96.50	80.00-120.00	0.000100U	0.21	20.00
Molybdenum	0.0857	mg/kgDW	0.100	85.70	80.00-120.00	0.000100U	4.29	20.00
Nickel	0.0959	mg/kgDW	0.100	94.80	80.00-120.00	0.00110	1.76	20.00
Selenium	0.113	mg/kgDW	0.100	113.20	80.00-120.00	0.000100U	3.56	20.00
Zinc	0.164	mg/kgDW	0.100	119.10	80.00-120.00	0.0452	1.39	20.00

Quality Control Batch: 10363738		Analyst: VLB						
Blank	Result	Units						
TKN(as N)	3.03	%DW						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
TKN(as N)	3.03	%DW	3.00	100.94	90.00-110.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
TKN(as N)	3.26	%DW	3.00	91.23	85.00-115.00	0.521		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
TKN(as N)	3.51	%DW	3.00	99.51	85.00-115.00	0.521	7.35	20.00

Quality Control Batch: 10363761		Analyst: VLB						
Blank	Result	Units						
Total Phosphorus(as P)	0.0000100U	%DW						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Total Phosphorus(as P)	1.45	%DW	1.50	96.83	90.00-110.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Total Phosphorus(as P)	2.00	%DW	2.00	86.25	85.00-115.00	0.277		



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City of Sebring Wastewater Plants  
368 South Commerce Ave.  
Sebring, FL 33870

PO #: 180057  
Client Project #: Western Sludge  
Date Sampled: Feb 6, 2018  
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Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Total Phosphorus(as P)	2.09	%DW	2.00	90.86	85.00-115.00	0.277	4.51	20.00

Quality Control Batch: 10364036

Analyst: EVB

Blank	Result	Units
Mercury	0.00100U	mg/kgDW

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Mercury	0.000983	mg/kgDW	0.00100	98.29	80.00-120.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Mercury	0.00283	mg/kgDW	0.00300	94.85	80.00-120.00	-0.0000186

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Mercury	0.00282	mg/kgDW	0.00300	94.59	80.00-120.00	-0.0000186	0.28	20.00

Quality Control Batch: 10364122

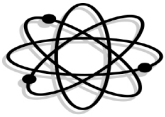
Analyst: CCP

Blank	Result	Units
NO3+NO2(as N)	0.0344	%DW

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
NO3+NO2(as N)	2.11	%DW	2.00	105.50	85.00-115.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
NO3+NO2(as N)	4.52	%DW	4.00	102.52	85.00-115.00	0.419

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
NO3+NO2(as N)	4.48	%DW	4.00	101.52	85.00-115.00	0.419	0.89	20.00



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Sebring, FL 33870

PO #: 180057  
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Date Sampled: Feb 6, 2018  
Feb 16, 2018; Invoice: 356768

## Narrative Report

### Sample Handling

Sample handling and holding time criteria were met for all samples. Samples collected by submitter. No unusual events occurred during analysis. Results are reported on a wet weight basis for aqueous matrices and on a dry weight basis for sludge and soil matrices unless otherwise noted.

### Quality Control

Enclosed analyses met method or FCL criteria, unless otherwise denoted on the sample results. Applied data qualifiers are defined below.

### Additional Comments

The sample selected for the Zinc MS/MSD was not from this project and had matrix interference. The LCS validates the batch.

### Attachments

Chain of Custody

Qualifier	Meaning
U	Compound was analyzed for but not detected.
J	Estimated value; one or more QC components associated with this data value exceed current QC limits.
Q	Sample held beyond the accepted holding time.
L	Off-scale high; reported concentration exceeds the highest standard.
V	Analyte was detected in both the sample and the associated method blank.
W	The dissolved oxygen blank was above 0.2 mg/L but less than the MDL.
Z	Too numerous to count colonies on plate.
A	Absent
P	Present
T	Value reported is less than the statistical method detection limit. Reported for informational purposes only.
M	Value reported is greater than the statistical method detection limit, but less than the reported MDL.
G	The greatest of the dilutions performed did not yield sufficient oxygen depletion for valid data.
S	The least of the dilutions performed did not yield sufficient oxygen residual for valid data.
O	Result is greater than (over) the specified value.
I	Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
B	Results based upon colony plate count outside ideal range.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.

Check Box that Applies to your location

Flowers Chemical Laboratories, Inc.  
481 Newbury Port Ave  
Altamonte Springs, FL 32701  
Bus: 407-339-5984  
Fax: 407-280-8110

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West Park Industrial Plaza  
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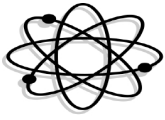
Client	City of Sebring Wastewater Plants	Project Name	Western Biweekly SLUDGE	P.O. #	180057
Address	4200 Cemetary Rd. Sebring, FL 33870	Client Contact	Jack Pollard	Fax	863.471.5144
Phone	863.471.5114	FCL Project Manager	Kathryn Nordmark	Email	JackPollard@mysebring.com
		Due Date 10 day standard	OR	Rush Charges May Apply	

Sampled by (Print)	Mary Jane Faircloth	Pick up Fee \$	Vehicle Surcharge \$	Sampling Fee \$
Sampler Signature	<i>MJ Faircloth</i>	Date Sampled 02/06/18		
<input type="checkbox"/> GW-groundwater <input type="checkbox"/> SW-surface water	<input type="checkbox"/> DW-drinking water <input type="checkbox"/> S-soil/solid	<input type="checkbox"/> WW-wastewater <input type="checkbox"/> HW-waste		

Item No	Sample ID	Date	Time	Matrix	(Lab use only) Lab Number	Preservatives						62-640 Sludge	Analyses Requested				Comments	No of Containers
						None	H2SO4	HNO3	HCl	Na2S2O3	Other							
1	Digester	02/06/18	0905	SL	356768541	X						X						1
Relinquished by/Affiliation	Date	Time	Received by/Affiliation	Date	Time	Relinquished by/Affiliation	Date	Time	Received by/Affiliation	Date	Time	Received by/Affiliation	Date	Time				
S. J. S.	2-7-18	1025	<i>Jenny</i>	2/7/18	10:35	<i>Jenny</i>	2/7/18	14:50	<i>MPC/KCL</i>	2/7				14:50				

Finance Charges Applied to Past Due Invoices





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City of Sebring Wastewater Plants  
368 South Commerce Ave.  
Sebring, FL 33870

PO #: 180057  
Client Project #: Highlands Ridge Sludge  
Date Sampled: Feb 6, 2018  
Feb 16, 2018; Invoice: 356769

### Report Summary

Date Received: Feb 8, 2018

FCL Project Manager: Kathryn M. Nordmark

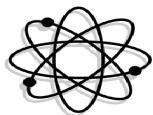
Laboratory #	Sample Description	Analysis	Chemist	Location	Sample Matrix
356769SL1	Digester	CaluSL			Sludge
		EPA351.2	VLB	Main Lab	
		EPA353.2	CCP	Main Lab	
		EPA365.4	VLB	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7471	EVB	Main Lab	
		SM2540 B	PLB	Main Lab	
		SM4500-H B	IAD	Main Lab	

### Certificate of Results

Sample integrity was certified prior to analysis. Test results meet all requirements of the NELAC Standards except as noted in the Quality Control Report. Uncertainties for these data are available on request. This report may not be reproduced in part; results relate only to items tested.



Jefferson S. Flowers, Ph.D.  
President/Technical Director



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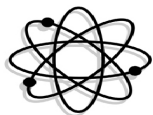
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## Analysis Report

Lab #: 356769SL1	Sampled: 02/06/18 08:00 AM	Desc: Digester									
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analized		
Total Nitrogen(as N)	10.6		0				CaluSL	17778-88-0			
Lab pH (units)	5.70	pH	1.00	0.0100	0.0200	10356847	SM4500-H B	39-38-4	02/16/18	01:00 AM	
Total Solids	1.09	%Wt	1.00	0.000250	0.000500	10363532	SM2540 B	C-008	02/08/18		
Potassium	0.717	%DW	1.00	0.0000200	0.0000400	10363622	EPA6010	7440-09-7	02/08/18		
Arsenic	1.43	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7440-38-2	02/08/18		
Cadmium	0.667	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7440-43-9	02/08/18		
Chromium	3.72	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7440-47-3	02/08/18		
Copper	161	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7440-50-8	02/08/18		
Lead	5.76	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7439-92-1	02/08/18		
Molybdenum	3.19	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7439-98-7	02/08/18		
Nickel	7.05	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7440-02-0	02/08/18		
Selenium	2.80	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7782-49-2	02/08/18		
Zinc	569	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7440-66-6	02/08/18		
TKN(as N)	10.6	%DW	300	0.00300	0.00600	10363738	EPA351.2	7727-37-9	02/09/18		
Total Phosphorus(as P)	2.98	%DW	300	0.00300	0.00600	10363761	EPA365.4	7723-14-0	02/09/18		
Mercury	0.667	mg/kgDW	20.0	0.0200	0.0400	10364036	EPA7471	7439-97-6	02/15/18		
NO3+NO2(as N)	0.00524	%DW	10.0	0.000100	0.000200	10364122	EPA353.2	I-005	02/15/18		



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## Quality Report

**Quality Control Batch:** 10363532

**Analyst:** PLB

<b>Blank</b>	<b>Result</b>	<b>Units</b>
Total Solids	0.000250U	%Wt

**Quality Control Batch:** 10363622

**Analyst:** EVB

<b>Blank</b>	<b>Result</b>	<b>Units</b>
Potassium	0.0000200U	%DW

**Laboratory Control Sample**

	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>
Potassium	4.80	%DW	5.00	95.96	80.00-120.00

**Matrix Spike**

	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>
Potassium	5.40	%DW	5.00	107.96	80.00-120.00	0.0000200U

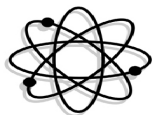
**Matrix Spike Duplicate**

	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>RPD</b>	<b>RPD Lim</b>
Potassium	5.42	%DW	5.00	108.36	80.00-120.00	0.0000200U	0.37	20.00

**Quality Control Batch:** 10363645

**Analyst:** EVB

<b>Blank</b>	<b>Result</b>	<b>Units</b>
Arsenic	0.000100U	mg/kgDW
Cadmium	0.000100U	mg/kgDW
Chromium	0.000100U	mg/kgDW
Copper	0.000100U	mg/kgDW
Lead	0.000100U	mg/kgDW
Molybdenum	0.000100U	mg/kgDW
Nickel	0.000100U	mg/kgDW
Selenium	0.000100U	mg/kgDW



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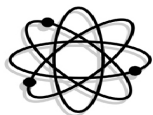
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Date Sampled: Feb 6, 2018  
Feb 16, 2018; Invoice: 356769

Quality Control Batch: 10363645		Analyst: EVB						
<b>Blank</b>	<b>Result</b>	<b>Units</b>						
Zinc	0.000100U	mg/kgDW						
<b>Laboratory Control Sample</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>			
Arsenic	0.0989	mg/kgDW	0.100	98.90	80.00-120.00			
Cadmium	0.100	mg/kgDW	0.100	100.30	80.00-120.00			
Chromium	0.101	mg/kgDW	0.100	100.90	80.00-120.00			
Copper	0.107	mg/kgDW	0.100	107.40	80.00-120.00			
Lead	0.103	mg/kgDW	0.100	102.90	80.00-120.00			
Molybdenum	0.104	mg/kgDW	0.100	103.90	80.00-120.00			
Nickel	0.103	mg/kgDW	0.100	103.20	80.00-120.00			
Selenium	0.107	mg/kgDW	0.100	107.00	80.00-120.00			
Zinc	0.0999	mg/kgDW	0.100	99.90	80.00-120.00			
<b>Matrix Spike</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>		
Arsenic	0.117	mg/kgDW	0.100	116.70	80.00-120.00	0.000100U		
Cadmium	0.104	mg/kgDW	0.100	104.30	80.00-120.00	0.000100U		
Chromium	0.101	mg/kgDW	0.100	101.10	80.00-120.00	0.000100U		
Copper	0.102	mg/kgDW	0.100	95.00	80.00-120.00	0.00740		
Lead	0.0967	mg/kgDW	0.100	96.70	80.00-120.00	0.000100U		
Molybdenum	0.0821	mg/kgDW	0.100	82.10	80.00-120.00	0.000100U		
Nickel	0.0976	mg/kgDW	0.100	96.50	80.00-120.00	0.00110		
Selenium	0.117	mg/kgDW	0.100	117.30	80.00-120.00	0.000100U		
Zinc	0.167	mg/kgDW	0.100	121.40	80.00-120.00	0.0452		
<b>Matrix Spike Duplicate</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>RPD</b>	<b>RPD Lim</b>
Arsenic	0.115	mg/kgDW	0.100	115.40	80.00-120.00	0.000100U	1.12	20.00
Cadmium	0.103	mg/kgDW	0.100	103.10	80.00-120.00	0.000100U	1.16	20.00
Chromium	0.0982	mg/kgDW	0.100	98.20	80.00-120.00	0.000100U	2.91	20.00
Copper	0.101	mg/kgDW	0.100	93.50	80.00-120.00	0.00740	1.48	20.00



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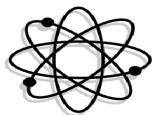
City of Sebring Wastewater Plants  
368 South Commerce Ave.  
Sebring, FL 33870

PO #: 180057  
Client Project #: Highlands Ridge Sludge  
Date Sampled: Feb 6, 2018  
Feb 16, 2018; Invoice: 356769

Quality Control Batch: 10363645		Analyst: EVB						
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Lead	0.0965	mg/kgDW	0.100	96.50	80.00-120.00	0.000100U	0.21	20.00
Molybdenum	0.0857	mg/kgDW	0.100	85.70	80.00-120.00	0.000100U	4.29	20.00
Nickel	0.0959	mg/kgDW	0.100	94.80	80.00-120.00	0.00110	1.76	20.00
Selenium	0.113	mg/kgDW	0.100	113.20	80.00-120.00	0.000100U	3.56	20.00
Zinc	0.164	mg/kgDW	0.100	119.10	80.00-120.00	0.0452	1.39	20.00

Quality Control Batch: 10363738		Analyst: VLB						
Blank	Result	Units						
TKN(as N)	3.03	%DW						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
TKN(as N)	3.03	%DW	3.00	100.94	90.00-110.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
TKN(as N)	3.26	%DW	3.00	91.23	85.00-115.00	0.521		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
TKN(as N)	3.51	%DW	3.00	99.51	85.00-115.00	0.521	7.35	20.00

Quality Control Batch: 10363761		Analyst: VLB						
Blank	Result	Units						
Total Phosphorus(as P)	0.0000100U	%DW						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Total Phosphorus(as P)	1.45	%DW	1.50	96.83	90.00-110.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Total Phosphorus(as P)	2.00	%DW	2.00	86.25	85.00-115.00	0.277		



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City of Sebring Wastewater Plants  
368 South Commerce Ave.  
Sebring, FL 33870

PO #: 180057  
Client Project #: Highlands Ridge Sludge  
Date Sampled: Feb 6, 2018  
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Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Total Phosphorus(as P)	2.09	%DW	2.00	90.86	85.00-115.00	0.277	4.51	20.00

Quality Control Batch: 10364036

Analyst: EVB

Blank	Result	Units
Mercury	0.00100U	mg/kgDW

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Mercury	0.000983	mg/kgDW	0.00100	98.29	80.00-120.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Mercury	0.00283	mg/kgDW	0.00300	94.85	80.00-120.00	-0.0000186

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Mercury	0.00282	mg/kgDW	0.00300	94.59	80.00-120.00	-0.0000186	0.28	20.00

Quality Control Batch: 10364122

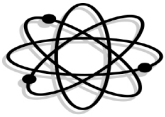
Analyst: CCP

Blank	Result	Units
NO3+NO2(as N)	0.0344	%DW

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
NO3+NO2(as N)	2.11	%DW	2.00	105.50	85.00-115.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
NO3+NO2(as N)	4.52	%DW	4.00	102.52	85.00-115.00	0.419

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
NO3+NO2(as N)	4.48	%DW	4.00	101.52	85.00-115.00	0.419	0.89	20.00



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368 South Commerce Ave.  
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## Narrative Report

### Sample Handling

Sample handling and holding time criteria were met for all samples. Samples collected by submitter. No unusual events occurred during analysis. Results are reported on a wet weight basis for aqueous matrices and on a dry weight basis for sludge and soil matrices unless otherwise noted.

### Quality Control

Enclosed analyses met method or FCL criteria, unless otherwise denoted on the sample results. Applied data qualifiers are defined below.

### Additional Comments

The sample selected for the Zinc MS/MSD was not from this project and had matrix interference. The LCS validates the batch.

### Attachments

Chain of Custody

Qualifier	Meaning
U	Compound was analyzed for but not detected.
J	Estimated value; one or more QC components associated with this data value exceed current QC limits.
Q	Sample held beyond the accepted holding time.
L	Off-scale high; reported concentration exceeds the highest standard.
V	Analyte was detected in both the sample and the associated method blank.
W	The dissolved oxygen blank was above 0.2 mg/L but less than the MDL.
Z	Too numerous to count colonies on plate.
A	Absent
P	Present
T	Value reported is less than the statistical method detection limit. Reported for informational purposes only.
M	Value reported is greater than the statistical method detection limit, but less than the reported MDL.
G	The greatest of the dilutions performed did not yield sufficient oxygen depletion for valid data.
S	The least of the dilutions performed did not yield sufficient oxygen residual for valid data.
O	Result is greater than (over) the specified value.
I	Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
B	Results based upon colony plate count outside ideal range.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.

Check Box that Applies to your location

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- Flowers Chemical Labs - South West Park Industrial Plaza 571 NW Mercantile Pl., Ste 111 Port St. Lucie, FL 34989 Bus: 772-343-8008 Fax: 772-343-8089
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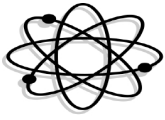
Client <b>City of Sebring Wastewater Plants</b>		Project Name <b>Highlands Ridge Monthly SLUDGE</b>		P.O.# <b>180057</b>	
Address <b>4200 Cemetary Rd. Sebring, FL 33870</b>		Client Contact <b>Jack Pollard</b>		Fax <b>863.471.5144</b>	
Phone <b>863.471.5114</b>		FCL Project Manager <b>Kathryn Nordmark</b>		Email <b>JackPollard@mysebring.com</b>	
		Due Date 10 day standard <input type="checkbox"/> OR <input type="checkbox"/>		Rush Charges May Apply <input type="checkbox"/>	

Sampled by (Print) <b>Mary Jane Faircloth</b>		Pick up Fee \$		Vehicle Surcharge \$		Sampling Fee \$	
Sampler Signature <i>MJ Faircloth</i>		Date Sampled <b>02/06/18</b>					
GW-groundwater <input type="checkbox"/> SW-surface water <input type="checkbox"/>		DW-drinking water <input type="checkbox"/> S-soil/soild <input type="checkbox"/> SL-sludge <input type="checkbox"/>		WW-wastewater <input type="checkbox"/> HW-waste <input type="checkbox"/>			

Item No	Sample ID	Date	Time	Matrix	(Lab use only) Lab Number	Preservatives						62-640 Sludge	Analyses Requested				Comments	No of Containers				
						None	H2SO4	HNO3	HCl	Na2S2O3	Other											
1	Digester	02/06/18	0800	SL	3567695L1	X						X										
Relinquished by/Affiliation	Date	Time	Received by/Affiliation	Date	Time	Relinquished by/Affiliation	Date	Time	Received by/Affiliation	Date	Time	Received by/Affiliation	Date	Time								
<i>S. L. T.</i>	2-7-18	1025	<i>[Signature]</i>	2/7/18	10:25	<i>[Signature]</i>	2/7/18	14:50	<i>[Signature]</i>	2/7	14:50	<i>[Signature]</i>	2/7	14:50								

Finance Charges Applied to Past Due Invoices





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City of Sebring Wastewater Plants  
368 South Commerce Ave.  
Sebring, FL 33870

PO #: 180057  
Client Project #: Country Club Sludge  
Date Sampled: Feb 6, 2018  
Feb 16, 2018; Invoice: 356770

### Report Summary

Date Received: Feb 8, 2018

FCL Project Manager: Kathryn M. Nordmark

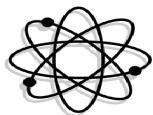
Laboratory #	Sample Description	Analysis	Chemist	Location	Sample Matrix
356770SL1	Digester	CaluSL			Sludge
		EPA351.2	VLB	Main Lab	
		EPA353.2	CCP	Main Lab	
		EPA365.4	VLB	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7471	EVB	Main Lab	
		SM2540 B	PLB	Main Lab	
		SM4500-H B	IAD	Main Lab	

### Certificate of Results

Sample integrity was certified prior to analysis. Test results meet all requirements of the NELAC Standards except as noted in the Quality Control Report. Uncertainties for these data are available on request. This report may not be reproduced in part; results relate only to items tested.



Jefferson S. Flowers, Ph.D.  
President/Technical Director



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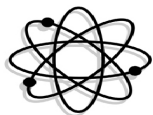
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368 South Commerce Ave.  
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PO #: 180057  
Client Project #: Country Club Sludge  
Date Sampled: Feb 6, 2018  
Feb 16, 2018; Invoice: 356770

## Analysis Report

Lab #: 356770SL1	Sampled: 02/06/18 10:30 AM	Desc: Digester									
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analized		
Total Nitrogen(as N)	10.2		0				CaluSL	17778-88-0			
Lab pH (units)	5.70	pH	1.00	0.0100	0.0200	10356847	SM4500-H B	39-38-4	02/16/18	01:00 AM	
Total Solids	1.47	%Wt	1.00	0.000250	0.000500	10363532	SM2540 B	C-008	02/08/18		
Potassium	0.721	%DW	1.00	0.0000200	0.0000400	10363622	EPA6010	7440-09-7	02/08/18		
Arsenic	1.03	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7440-38-2	02/08/18		
Cadmium	0.468	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7440-43-9	02/08/18		
Chromium	4.21	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7440-47-3	02/08/18		
Copper	419	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7440-50-8	02/08/18		
Lead	5.82	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7439-92-1	02/08/18		
Molybdenum	0.652	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7439-98-7	02/08/18		
Nickel	7.63	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7440-02-0	02/08/18		
Selenium	0.000100 U	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7782-49-2	02/08/18		
Zinc	459	mg/kgDW	1.00	0.000100	0.000200	10363645	EPA6020	7440-66-6	02/08/18		
TKN(as N)	10.2	%DW	300	0.00300	0.00600	10363738	EPA351.2	7727-37-9	02/09/18		
Total Phosphorus(as P)	2.99	%DW	300	0.00300	0.00600	10363761	EPA365.4	7723-14-0	02/09/18		
Mercury	0.382	mg/kgDW	20.0	0.0200	0.0400	10364036	EPA7471	7439-97-6	02/15/18		
NO3+NO2(as N)	0.00828	%DW	10.0	0.000100	0.000200	10364122	EPA353.2	I-005	02/15/18		



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## Quality Report

**Quality Control Batch:** 10363532

**Analyst:** PLB

Blank	Result	Units
Total Solids	0.000250U	%Wt

**Quality Control Batch:** 10363622

**Analyst:** EVB

Blank	Result	Units
Potassium	0.0000200U	%DW

**Laboratory Control Sample**

Potassium	Result	Units	Spike	%REC	%REC Lim
Potassium	4.80	%DW	5.00	95.96	80.00-120.00

**Matrix Spike**

Potassium	Result	Units	Spike	%REC	%REC Lim	Sample
Potassium	5.40	%DW	5.00	107.96	80.00-120.00	0.0000200U

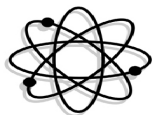
**Matrix Spike Duplicate**

Potassium	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Potassium	5.42	%DW	5.00	108.36	80.00-120.00	0.0000200U	0.37	20.00

**Quality Control Batch:** 10363645

**Analyst:** EVB

Blank	Result	Units
Arsenic	0.000100U	mg/kgDW
Cadmium	0.000100U	mg/kgDW
Chromium	0.000100U	mg/kgDW
Copper	0.000100U	mg/kgDW
Lead	0.000100U	mg/kgDW
Molybdenum	0.000100U	mg/kgDW
Nickel	0.000100U	mg/kgDW
Selenium	0.000100U	mg/kgDW



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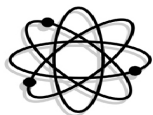
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Client Project #: Country Club Sludge  
Date Sampled: Feb 6, 2018  
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Quality Control Batch: 10363645		Analyst: EVB						
Blank	Result	Units						
Zinc	0.000100U	mg/kgDW						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Arsenic	0.0989	mg/kgDW	0.100	98.90	80.00-120.00			
Cadmium	0.100	mg/kgDW	0.100	100.30	80.00-120.00			
Chromium	0.101	mg/kgDW	0.100	100.90	80.00-120.00			
Copper	0.107	mg/kgDW	0.100	107.40	80.00-120.00			
Lead	0.103	mg/kgDW	0.100	102.90	80.00-120.00			
Molybdenum	0.104	mg/kgDW	0.100	103.90	80.00-120.00			
Nickel	0.103	mg/kgDW	0.100	103.20	80.00-120.00			
Selenium	0.107	mg/kgDW	0.100	107.00	80.00-120.00			
Zinc	0.0999	mg/kgDW	0.100	99.90	80.00-120.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Arsenic	0.117	mg/kgDW	0.100	116.70	80.00-120.00	0.000100U		
Cadmium	0.104	mg/kgDW	0.100	104.30	80.00-120.00	0.000100U		
Chromium	0.101	mg/kgDW	0.100	101.10	80.00-120.00	0.000100U		
Copper	0.102	mg/kgDW	0.100	95.00	80.00-120.00	0.00740		
Lead	0.0967	mg/kgDW	0.100	96.70	80.00-120.00	0.000100U		
Molybdenum	0.0821	mg/kgDW	0.100	82.10	80.00-120.00	0.000100U		
Nickel	0.0976	mg/kgDW	0.100	96.50	80.00-120.00	0.00110		
Selenium	0.117	mg/kgDW	0.100	117.30	80.00-120.00	0.000100U		
Zinc	0.167	mg/kgDW	0.100	121.40	80.00-120.00	0.0452		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Arsenic	0.115	mg/kgDW	0.100	115.40	80.00-120.00	0.000100U	1.12	20.00
Cadmium	0.103	mg/kgDW	0.100	103.10	80.00-120.00	0.000100U	1.16	20.00
Chromium	0.0982	mg/kgDW	0.100	98.20	80.00-120.00	0.000100U	2.91	20.00
Copper	0.101	mg/kgDW	0.100	93.50	80.00-120.00	0.00740	1.48	20.00



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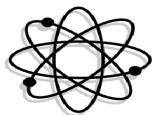
City of Sebring Wastewater Plants  
368 South Commerce Ave.  
Sebring, FL 33870

PO #: 180057  
Client Project #: Country Club Sludge  
Date Sampled: Feb 6, 2018  
Feb 16, 2018; Invoice: 356770

Quality Control Batch: 10363645		Analyst: EVB						
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Lead	0.0965	mg/kgDW	0.100	96.50	80.00-120.00	0.000100U	0.21	20.00
Molybdenum	0.0857	mg/kgDW	0.100	85.70	80.00-120.00	0.000100U	4.29	20.00
Nickel	0.0959	mg/kgDW	0.100	94.80	80.00-120.00	0.00110	1.76	20.00
Selenium	0.113	mg/kgDW	0.100	113.20	80.00-120.00	0.000100U	3.56	20.00
Zinc	0.164	mg/kgDW	0.100	119.10	80.00-120.00	0.0452	1.39	20.00

Quality Control Batch: 10363738		Analyst: VLB						
Blank	Result	Units						
TKN(as N)	3.03	%DW						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
TKN(as N)	3.03	%DW	3.00	100.94	90.00-110.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
TKN(as N)	3.26	%DW	3.00	91.23	85.00-115.00	0.521		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
TKN(as N)	3.51	%DW	3.00	99.51	85.00-115.00	0.521	7.35	20.00

Quality Control Batch: 10363761		Analyst: VLB						
Blank	Result	Units						
Total Phosphorus(as P)	0.0000100U	%DW						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Total Phosphorus(as P)	1.45	%DW	1.50	96.83	90.00-110.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Total Phosphorus(as P)	2.00	%DW	2.00	86.25	85.00-115.00	0.277		



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3980 Overseas Hwy, Suite 103, Marathon, FL 33050

Phone: 407-339-5984 E83018 (Main Lab)  
Phone: 772-343-8006 E86562 (South Lab)  
Phone: 850-973-6878 E82405 (North Lab)  
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Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Total Phosphorus(as P)	2.09	%DW	2.00	90.86	85.00-115.00	0.277	4.51	20.00

Quality Control Batch: 10364036

Analyst: EVB

Blank	Result	Units
Mercury	0.00100U	mg/kgDW

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Mercury	0.000983	mg/kgDW	0.00100	98.29	80.00-120.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Mercury	0.00283	mg/kgDW	0.00300	94.85	80.00-120.00	-0.0000186

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Mercury	0.00282	mg/kgDW	0.00300	94.59	80.00-120.00	-0.0000186	0.28	20.00

Quality Control Batch: 10364122

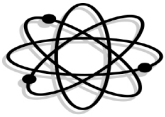
Analyst: CCP

Blank	Result	Units
NO3+NO2(as N)	0.0344	%DW

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
NO3+NO2(as N)	2.11	%DW	2.00	105.50	85.00-115.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
NO3+NO2(as N)	4.52	%DW	4.00	102.52	85.00-115.00	0.419

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
NO3+NO2(as N)	4.48	%DW	4.00	101.52	85.00-115.00	0.419	0.89	20.00



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## Narrative Report

### Sample Handling

Sample handling and holding time criteria were met for all samples. Samples collected by submitter. No unusual events occurred during analysis. Results are reported on a wet weight basis for aqueous matrices and on a dry weight basis for sludge and soil matrices unless otherwise noted.

### Quality Control

Enclosed analyses met method or FCL criteria, unless otherwise denoted on the sample results. Applied data qualifiers are defined below.

### Additional Comments

The sample selected for the Zinc MS/MSD was not from this project and had matrix interference. The LCS validates the batch.

### Attachments

Chain of Custody

Qualifier	Meaning
U	Compound was analyzed for but not detected.
J	Estimated value; one or more QC components associated with this data value exceed current QC limits.
Q	Sample held beyond the accepted holding time.
L	Off-scale high; reported concentration exceeds the highest standard.
V	Analyte was detected in both the sample and the associated method blank.
W	The dissolved oxygen blank was above 0.2 mg/L but less than the MDL.
Z	Too numerous to count colonies on plate.
A	Absent
P	Present
T	Value reported is less than the statistical method detection limit. Reported for informational purposes only.
M	Value reported is greater than the statistical method detection limit, but less than the reported MDL.
G	The greatest of the dilutions performed did not yield sufficient oxygen depletion for valid data.
S	The least of the dilutions performed did not yield sufficient oxygen residual for valid data.
O	Result is greater than (over) the specified value.
I	Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
B	Results based upon colony plate count outside ideal range.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.

