



Mosaic Fertilizer, L.L.C.

Environmental Lab



NELAP Certification #
E 84578

ANALYTICAL TEST REPORT

THESE RESULTS MEET NELAP STANDARDS

Work Order Number: S108182

Client: DeSoto County

Project Name: DeSoto County - Split Sampling

Date Received: 08/19/2021

Time Received: 12:05

Lab ID: S108182-01 (Water) Sample Description: SFM D 002
 Date Sampled: 08/19/2021 Sample Method: Grab
 Time Sampled: 10:50 Source ID: 003002

Parameter	Result	Error	Qualifier	Units	MDL	PQL	Procedure	Analysis		Analyst
								Date	Time	
Chlorophyll a	1.33			ug/L	0.14	0.56	EPA 445	09/10/2021	08:57	DJ
Nitrate-Nitrite	0.0960			mg/L	0.0100	0.0380	EPA 353.2	08/31/2021	08:08	KW
Phosphorus, Total	0.214			mg/L	0.0100	0.0400	EPA 365.4	09/01/2021	11:13	KW
Residue-fixed	1.00		U	mg/L	1.00	1.00	EPA 160.4	08/24/2021	10:04	DJ
Residue-nonfilterable (TSS)	1.00		U	mg/L	1.00	1.00	SM 2540 D	08/24/2021	10:04	DJ
Total Kjeldahl Nitrogen	0.330		I	mg/L	0.100	0.400	EPA 351.2	09/01/2021	11:13	KW
Total N	0.426		I	mg/L	0.110	0.438	TKN + Total nitrate-nitrite	09/01/2021	11:13	KW
Dissolved Oxygen Saturation	56.6			per cent			FT 1500	08/19/2021	10:50	KC
Flow Rate	24.1			MGD			FT 1800	08/19/2021	10:50	KC
pH	7.60			SU			FT 1100	08/19/2021	10:50	KC
Specific Conductance	704			umhos/cm			FT 1200	08/19/2021	10:50	KC
Staff Gauge	1.36			feet			Calculated	08/19/2021	10:50	KC
Water Temperature	31.2			°C			FT 1400	08/19/2021	10:50	KC
Turbidity	0.360			NTU			FT 1600	08/19/2021	10:50	KC
Gross-Alpha	6.9	+/- 1.8		pCi/L	1.5	1.5	EPA 900.0	08/26/2021	09:43	FRS
Arsenic	2.19		I	UG/L	0.689	2.756	SM 3113 B	08/23/2021	15:22	Bench
Fluoride	5.05			MG/L	0.300	1.2	EPA 300.0	09/08/2021	15:03	Bench
Oil and Grease	1.37		U	MG/L	1.37	5.48	EPA 1664A	08/23/2021	10:27	Bench
Sulfate	208			MG/L	0.339	1.356	EPA 300.0	09/14/2021	02:52	Bench



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Wet Chemistry - Quality Control

Analyte	Result	Qualifiers	Units	MDL	PQL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B108308 - DEFAULT PREP Wet Chem											
Blank (B108308-BLK1)				Prepared & Analyzed: 08/24/21							
Residue-nonfilterable (TSS)	1.00	U	mg/L	1.00	1.00						
LCS (B108308-BS1)				Prepared & Analyzed: 08/24/21							
Residue-nonfilterable (TSS)	48.0		mg/L	1.00	1.00	46.2		104	90-110		
Duplicate (B108308-DUP1)				Source: S108161-01				Prepared & Analyzed: 08/24/21			
Residue-nonfilterable (TSS)	5.20		mg/L	1.00	1.00		5.20			0.00	5
Duplicate (B108308-DUP2)				Source: S108214-03				Prepared & Analyzed: 08/24/21			
Residue-nonfilterable (TSS)	4.00	J-2	mg/L	1.00	1.00		5.00			22.2	5
Batch B108310 - DEFAULT PREP Wet Chem											
Blank (B108310-BLK1)				Prepared & Analyzed: 08/24/21							
Residue-fixed	1.00	U	mg/L	1.00	1.00						
Duplicate (B108310-DUP1)				Source: S108161-01				Prepared & Analyzed: 08/24/21			
Residue-fixed	2.40	J-2	mg/L	1.00	1.00		2.80			15.4	5
Batch B108361 - Nutrient Prep											
Blank (B108361-BLK1)				Prepared & Analyzed: 09/01/21							
Phosphorus, Total	0.0100	U	mg/L	0.0100	0.0400						
Total Kjeldahl Nitrogen	0.100	U	mg/L	0.100	0.400						
Blank (B108361-BLK2)				Prepared & Analyzed: 09/01/21							
Phosphorus, Total	0.0100	U	mg/L	0.0100	0.0400						
Total Kjeldahl Nitrogen	0.100	U	mg/L	0.100	0.400						



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Analyte	Result	Qualifiers	Units	MDL	PQL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B108361 - Nutrient Prep											
Blank (B108361-BLK3)						Prepared & Analyzed: 09/02/21					
Total Kjeldahl Nitrogen	0.100	U	mg/L	0.100	0.400						
Phosphorus, Total	0.0100	U	mg/L	0.0100	0.0400						
Blank (B108361-BLK4)						Prepared & Analyzed: 09/02/21					
Total Kjeldahl Nitrogen	0.100	U	mg/L	0.100	0.400						
Phosphorus, Total	0.0100	U	mg/L	0.0100	0.0400						
LCS (B108361-BS1)						Prepared & Analyzed: 09/01/21					
Total Kjeldahl Nitrogen	2.10		mg/L	0.100	0.400	2.00		105	90-110		
Phosphorus, Total	2.01		mg/L	0.0100	0.0400	2.00		100	90-110		
LCS (B108361-BS2)						Prepared & Analyzed: 09/01/21					
Total Kjeldahl Nitrogen	2.12		mg/L	0.100	0.400	2.00		106	90-110		
Phosphorus, Total	2.00		mg/L	0.0100	0.0400	2.00		100	90-110		
LCS (B108361-BS3)						Prepared & Analyzed: 09/02/21					
Total Kjeldahl Nitrogen	2.06		mg/L	0.100	0.400	2.00		103	90-110		
Phosphorus, Total	2.03		mg/L	0.0100	0.0400	2.00		102	90-110		
LCS (B108361-BS4)						Prepared & Analyzed: 09/02/21					
Phosphorus, Total	2.02		mg/L	0.0100	0.0400	2.00		101	90-110		
Total Kjeldahl Nitrogen	2.09		mg/L	0.100	0.400	2.00		105	90-110		
Duplicate (B108361-DUP1)						Source: S108175-01		Prepared & Analyzed: 09/01/21			
Phosphorus, Total	0.0220	I	mg/L	0.0100	0.0400		0.0220			0.00	30
Total Kjeldahl Nitrogen	0.201	I	mg/L	0.100	0.400		0.202			0.496	30
Duplicate (B108361-DUP2)						Source: S108181-01		Prepared & Analyzed: 09/01/21			
Phosphorus, Total	0.0350	I	mg/L	0.0100	0.0400		0.0350			0.00	30
Total Kjeldahl Nitrogen	0.100	U	mg/L	0.100	0.400		U				30



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Wet Chemistry - Quality Control

Analyte	Result	Qualifiers	Units	MDL	PQL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B108361 - Nutrient Prep											
Duplicate (B108361-DUP3)			Source: S108204-01			Prepared & Analyzed: 09/01/21					
Total Kjeldahl Nitrogen	2.46	J-3	mg/L	0.100	0.400		2.57			4.14	30
Phosphorus, Total	1.05		mg/L	0.0100	0.0400		1.05			0.00	30
Duplicate (B108361-DUP4)			Source: S108213-01			Prepared & Analyzed: 09/01/21					
Phosphorus, Total	0.231		mg/L	0.0100	0.0400		0.226			2.19	30
Total Kjeldahl Nitrogen	0.832		mg/L	0.100	0.400		0.831			0.120	30
Duplicate (B108361-DUP5)			Source: S108219-03			Prepared & Analyzed: 09/02/21					
Phosphorus, Total	0.396		mg/L	0.0100	0.0400		0.399			0.755	30
Total Kjeldahl Nitrogen	1.20	J-3	mg/L	0.100	0.400		1.27			5.26	30
Duplicate (B108361-DUP6)			Source: S108221-01			Prepared & Analyzed: 09/02/21					
Phosphorus, Total	0.821		mg/L	0.0100	0.0400		0.817			0.488	30
Total Kjeldahl Nitrogen	0.789		mg/L	0.100	0.400		0.825			4.46	30
Duplicate (B108361-DUP7)			Source: S108237-01			Prepared & Analyzed: 09/02/21					
Phosphorus, Total	0.578		mg/L	0.0100	0.0400		0.577			0.173	30
Total Kjeldahl Nitrogen	1.81	J-3	mg/L	0.100	0.400		1.85			2.18	30
Duplicate (B108361-DUP8)			Source: S108242-01			Prepared & Analyzed: 09/02/21					
Total Kjeldahl Nitrogen	2.87	J-3	mg/L	0.100	0.400		2.79			2.79	30
Phosphorus, Total	1.38		mg/L	0.0100	0.0400		1.35			2.12	30
Matrix Spike (B108361-MS1)			Source: S108175-01			Prepared & Analyzed: 09/01/21					
Total Kjeldahl Nitrogen	1.11		mg/L	0.100	0.400	1.00	0.202	90.7	90-110		
Phosphorus, Total	1.01		mg/L	0.0100	0.0400	1.00	0.0220	99.0	90-110		
Matrix Spike (B108361-MS2)			Source: S108181-01			Prepared & Analyzed: 09/01/21					
Total Kjeldahl Nitrogen	1.10		mg/L	0.100	0.400	1.00	U	110	90-110		
Phosphorus, Total	1.04		mg/L	0.0100	0.0400	1.00	0.0350	100	90-110		



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Batch B108361 - Nutrient Prep											
Matrix Spike (B108361-MS3)			Source: S108204-01			Prepared & Analyzed: 09/01/21					
Total Kjeldahl Nitrogen	3.37	J-3	mg/L	0.100	0.400	1.00	2.57	80.0	90-110		
Phosphorus, Total	1.98		mg/L	0.0100	0.0400	1.00	1.05	92.8	90-110		
Matrix Spike (B108361-MS4)			Source: S108213-01			Prepared & Analyzed: 09/01/21					
Total Kjeldahl Nitrogen	1.85		mg/L	0.100	0.400	1.00	0.831	102	90-110		
Phosphorus, Total	1.21		mg/L	0.0100	0.0400	1.00	0.226	98.7	90-110		
Matrix Spike (B108361-MS5)			Source: S108219-03			Prepared & Analyzed: 09/02/21					
Phosphorus, Total	1.37		mg/L	0.0100	0.0400	1.00	0.399	97.5	90-110		
Total Kjeldahl Nitrogen	2.15	J-3	mg/L	0.100	0.400	1.00	1.27	87.8	90-110		
Matrix Spike (B108361-MS6)			Source: S108221-01			Prepared & Analyzed: 09/02/21					
Phosphorus, Total	1.78		mg/L	0.0100	0.0400	1.00	0.817	96.2	90-110		
Total Kjeldahl Nitrogen	1.83		mg/L	0.100	0.400	1.00	0.825	100	90-110		
Matrix Spike (B108361-MS7)			Source: S108237-01			Prepared & Analyzed: 09/02/21					
Total Kjeldahl Nitrogen	2.64	J-3	mg/L	0.100	0.400	1.00	1.85	78.3	90-110		
Phosphorus, Total	1.52		mg/L	0.0100	0.0400	1.00	0.577	94.5	90-110		
Matrix Spike (B108361-MS8)			Source: S108242-01			Prepared & Analyzed: 09/02/21					
Total Kjeldahl Nitrogen	3.63	J-3	mg/L	0.100	0.400	1.00	2.79	83.5	90-110		
Phosphorus, Total	2.28		mg/L	0.0100	0.0400	1.00	1.35	93.2	90-110		
Reference (B108361-SRM1)			Prepared & Analyzed: 09/02/21								
Total Kjeldahl Nitrogen	2.11		mg/L	0.100	0.400	2.00		105	90-110		
Phosphorus, Total	2.02		mg/L	0.0100	0.0400	2.00		101	90-110		



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Analyte	Result	Qualifiers	Units	MDL	PQL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B108362 - Nutrient Prep											
Blank (B108362-BLK1)											
Prepared & Analyzed: 08/31/21											
Nitrate-Nitrite	0.0100	U	mg/L	0.0100	0.0380						
Blank (B108362-BLK2)											
Prepared & Analyzed: 08/31/21											
Nitrate-Nitrite	0.0100	U	mg/L	0.0100	0.0380						
Blank (B108362-BLK3)											
Prepared & Analyzed: 08/31/21											
Nitrate-Nitrite	0.0100	U	mg/L	0.0100	0.0380						
LCS (B108362-BS1)											
Prepared & Analyzed: 08/31/21											
Nitrate-Nitrite	1.04		mg/L	0.0100	0.0380	1.00		104	90-110		
LCS (B108362-BS2)											
Prepared & Analyzed: 08/31/21											
Nitrate-Nitrite	1.03		mg/L	0.0100	0.0380	1.00		103	90-110		
LCS (B108362-BS3)											
Prepared & Analyzed: 08/31/21											
Nitrate-Nitrite	1.08		mg/L	0.0100	0.0380	1.00		108	90-110		
Duplicate (B108362-DUP1)											
Source: S108180-01 Prepared & Analyzed: 08/31/21											
Nitrate-Nitrite	0.0380	J-2	mg/L	0.0100	0.0380		0.0540			34.8	30
Duplicate (B108362-DUP2)											
Source: S108180-02 Prepared & Analyzed: 08/31/21											
Nitrate-Nitrite	0.0720		mg/L	0.0100	0.0380		0.0730			1.38	30
Duplicate (B108362-DUP3)											
Source: S108219-02 Prepared & Analyzed: 08/31/21											
Nitrate-Nitrite	0.435	J-3	mg/L	0.0100	0.0380		0.415			4.71	30
Duplicate (B108362-DUP4)											
Source: S108228-01 Prepared & Analyzed: 08/31/21											
Nitrate-Nitrite	0.304		mg/L	0.0100	0.0380		0.305			0.328	30



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Analyte	Result	Qualifiers	Units	MDL	PQL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B108362 - Nutrient Prep											
Duplicate (B108362-DUP5)			Source: S108239-01			Prepared & Analyzed: 08/31/21					
Nitrate-Nitrite	0.0610		mg/L	0.0100	0.0380		0.0650			6.35	30
Duplicate (B108362-DUP6)			Source: S108248-01			Prepared & Analyzed: 08/31/21					
Nitrate-Nitrite	0.0580		mg/L	0.0100	0.0380		0.0590			1.71	30
Matrix Spike (B108362-MS1)			Source: S108180-01			Prepared & Analyzed: 08/31/21					
Nitrate-Nitrite	0.530		mg/L	0.0100	0.0380	0.500	0.0540	95.2	90-110		
Matrix Spike (B108362-MS2)			Source: S108180-02			Prepared & Analyzed: 08/31/21					
Nitrate-Nitrite	0.544		mg/L	0.0100	0.0380	0.500	0.0730	94.2	90-110		
Matrix Spike (B108362-MS3)			Source: S108219-02			Prepared & Analyzed: 08/31/21					
Nitrate-Nitrite	0.857	J-3	mg/L	0.0100	0.0380	0.500	0.415	88.4	90-110		
Matrix Spike (B108362-MS4)			Source: S108228-01			Prepared & Analyzed: 08/31/21					
Nitrate-Nitrite	0.802		mg/L	0.0100	0.0380	0.500	0.305	99.4	90-110		
Matrix Spike (B108362-MS5)			Source: S108239-01			Prepared & Analyzed: 08/31/21					
Nitrate-Nitrite	0.550		mg/L	0.0100	0.0380	0.500	0.0650	97.0	90-110		
Matrix Spike (B108362-MS6)			Source: S108248-01			Prepared & Analyzed: 08/31/21					
Nitrate-Nitrite	0.542		mg/L	0.0100	0.0380	0.500	0.0590	96.6	90-110		
Reference (B108362-SRM1)						Prepared & Analyzed: 08/31/21					
Nitrate-Nitrite	1.08		mg/L	0.0100	0.0380	1.00		108	90-110		
Batch B109096 - DEFAULT PREP Wet Chem											
Blank (B109096-BLK1)						Prepared: 08/18/21 Analyzed: 09/10/21					
Chlorophyll a	0.14	U	ug/L	0.14	0.56						



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Wet Chemistry - Quality Control

Analyte	Result	Qualifiers	Units	MDL	PQL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B109096 - DEFAULT PREP Wet Chem											
LCS (B109096-BS1)											
						Prepared: 09/09/21 Analyzed: 09/10/21					
Chlorophyll a	61.2		ug/L	0.14	0.56	58.7		104	90-110		
Duplicate (B109096-DUP1)											
						Source: S108164-09 Prepared: 08/18/21 Analyzed: 09/10/21					
Chlorophyll a	0.40	I	ug/L	0.14	0.56		0.54			29.8	30



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Courtney McManus

09/16/2021

Courtney McManus For Joshua Lipham / Technical Director

Date

DATA QUALIFIERS THAT MAY APPLY:

- U = Not detected at or above the adjusted reporting limit
- I = The value is between the MDL and the PQL
- V = The analyte was detected in both the sample and the associated method blank
- J-3 = A sample matrix interference is suspected. Does not interfere with data usability.
- J-2 = The reported value failed to meet the established quality control criteria for either precision or accuracy. The data usability is not effected.

NOTES:

- MDL = Method Detection Limit
- PQL = Practical Quantification Limit
- %REC = Percent Recovery
- RPD = Relative Percent Difference

For questions and comments regarding these results, please contact Joshua Lipham @ (863) 428-2732 (email: Joshua.Lipham@mosaicco.com).
Results relate only to the samples.

Mosaic
Minerals Environmental
13830 Circa Crossing Drive
Lithia, FL 33547

Date: 8-19-21
COC #: _____

Mosaic Environmental Lab
7450 C.R. 630
Mulberry, FL. 33860
(863) 428 - 2761

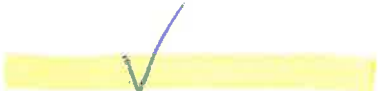
0108182

Owner: Mike Mooneyham

Samples For: Compliance: _____
Non-Compliance: _____
Revised Date: 08/16/2021

Sampled By (Print):		Report to:													
Sampler Signature:		Project Name: South Fort Meade D 002 - DeSoto County Split Sample													
Date:	Time:	LAB ID #	SOURCE ID #	Sample ID	Type	A Unpreserved 950ml: TSS, FSS	B Unpreserved 250 ml: F, SO4	C H2SO4 500 ml: Total P, Total N	D Unpreserved 500 ml Amber: Chloro-a	E H2SO4 950ml Glass Amber: Oil and Grease	F HNO3 250 ml: As	G HNO3 1/2 gal: GA 1500 Ra226/228			
8-19-21	10:50		003002	SFM D 002	G	1	1	1	1	1	1	1			

Items:	Relinquished By:	Accepted By:	Date / Time:
7	<i>Phillip Baxter</i>	<i>Kathy Copponen</i>	8-19-21 @ 12:05
			8-19-21 @ 13:05



TEMP 5.1 C
THERMOMETER ID
1080409
PHX2 INIT. *W*
PH PAPER ID
0091201

SURFA **Mosaic** DATA SHEET



Project: South Fort Meade D 002- DeSoto County Split Sample

Source ID	Location	TYPE Grab/Comp.	TIME	FDEP-FT-1100	FDEP-FT-1200	FDEP-FT-1400	FDEP-FT-1600	FDEP-FT-1500	DO Sat	SAMPLE DEPTH Feet	FLOW MGD	STAFF GAUGE Feet	WATER ELEVATION MSL	COLOR
				PH 6.0< PH <8.5 S.U.	COND <1275 µS	TEMP °C	Turbidity <29 NTU's	DO >5.0 mg/L						
003002	SFM D 002	G	10:50	7.60	704	31.2	36	-	56.6	TOWE	24.11	1.36	-	Clear

Source ID	Location	Width (ft)	x Depth (ft)	x Velocity (ft/s)	= CFS	x 0.64632 = MGD

Sampling Sequence: VOC, Organics, Metals, Microbio, Inorganics/Physical, Rad

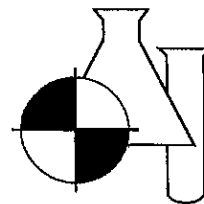
BEGIN TIME 10:50 END TIME 11:05

FIELD CONDITIONS FOR SAMPLING DATE : CLOUD COVER: Clear / Scattered / Broken / Overcast
 AMBIENT TEMP. (°C) start: 31.0 end: 31.0 WIND DIRECTION: C / NE / E / SE / S / SW / W / NW / Variable / Calm
 VISIBILITY start: Clear end: Clear

COMMENTS:

BENCHMARK

EnviroAnalytical Inc.



NELAC Certification #E84167

ANALYTICAL TEST REPORT

THESE RESULTS MEET NELAC STANDARDS

Submission Number : 21081261

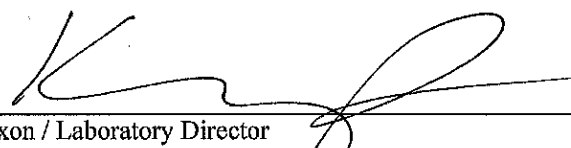
Mosaic Fertilizer, L L C
13830 Circa Crossing Drive
Lithia, FL 33547

Project Name : SOUTH FORT MEADE OUTFALLS - SFM
Project ID : S108182
Date Received : 08/20/2021
Time Received : 1340

Joshua Lipham

Submission Number:	21081261	Sample Point:	003002
Sample Number:	001	Sample ID:	S108182-01
Sample Date:	08/19/2021	Sample Description:	SFM D 002
Sample Time:	1050	Sample Method:	Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis Date/Time	Analyst
OIL & GREASE	1.37 U	MG/L	1.37	5.48	1664A	08/23/2021 10:27	CE
ARSENIC	2.19 I	UG/L	0.689	2.756	SM3113B	08/23/2021 15:22	IE


Dale D. Dixon / Laboratory Director
Tulay Tanrisever - Technical Director/QC Officer
Kara Peterson / QA Officer

08/30/2021
Date

DATA QUALIFIERS THAT MAY APPLY:

A = Value reported is an average of two or more determinations.
G2 = Accuracy standard exceeds acceptable control limits. Duplicate and spike values are within control limits. Reported data are usable.
B = Results based upon colony counts outside the ideal range.
H = Value based on field kit determination. Results may not be accurate.
I = Reported value is between the laboratory MDL and the PQL.
J1 = Estimated value. Surrogate recovery limits exceeded.
J2 = Estimated value. No quality control criteria exists for component.
J3 = Estimated value. Quality control criteria for precision or accuracy not met.
J4 = Estimated value. Sample matrix interference suspected.
J5 = Estimated value. Data questionable due to improper lab or field protocols.
K = Off-scale low. Value is known to be < the value reported.
L = Off-scale high. Value is known to be > the value reported.
N = Presumptive evidence of presence of material.
O = Sampled, but analysis lost or not performed.
Q = Sample held beyond accepted hold time.

T = Value reported is < MDL. Reported for informational purposes only and shall not be used in statistical analysis.
U = Analyte analyzed but not detected at the value indicated.
V = Analyte detected in sample and method blank. Results for this analyte in associated samples may be biased high. Standard, Duplicate and Spike values are within control limits. Reported data are usable.
Y = Analysis performed on an improperly preserved sample. Data may be inaccurate.
Z = Too many colonies were present (TNTC). The numeric value represents the filtration volume.
| = Data deviate from historically established concentration ranges.
? = Data rejected and should not be used. Some or all of QC data were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
* = Not reported due to interference.
Oil & Grease - If client does not send sufficient sample quantity for spike evaluation surface water samples are supplied by the laboratory.

NOTES:

PQL = 4xMDL.
MBAS calculated as LAS; molecular weight = 340.
ND = Not detected at or above the adjusted reporting limit.

COMMENTS:

For questions and comments regarding these results, please contact us at (941) 723-9986.
Results relate only to the samples.

SUBCONTRACT ORDER
Mosaic Fertilizer, LLC Environmental Laboratory



South Fort Meade

Outfalls - SFM D-002 DeSoto County Split

S108182

SENDING LABORATORY:

Mosaic Fertilizer, LLC Environmental Laboratory
7450 CR 630 Building 1
Mulberry, FL 33865
Phone: 863-428-2764
Project Manager: Joshua Lipham

RECEIVING LABORATORY:

Benchmark Analytical
1711 12th St. E.
Palmetto, FL 34221
Phone : (941) 723-9986

Sub Lab ID

Sample ID: S108182-01 003002

SFMD 002

Water Sampled: 08/19/21 10:50

21081261-1

Oil & Grease, EPA 1664A

As, Total SM3113 B

Sample Receipt Temp. 02 °C

Thermometer ID: 250

pH < 2 1 Init. kr

Containers:

2

Released By

[Signature]

Received By

[Signature]

8-20-21 1245

Date

2

Released By

[Signature]

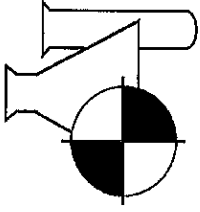
Received By

[Signature]

8/20/21 1340

Date

2 of 2
Page 1 of 1



BENCHMARK

EnviroAnalytical Inc.

NELAC Certification #E84167

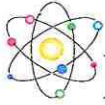
Submission Number: 21081261
 Project Name: SOUTH FORT MEADE OUTFALLS - SFM

QC REPORT

SUBMISSION NUMBER	SAMPLE NUMBER	METHOD	ANALYTE	ANALYSIS DATE/TIME	QC FLAG	QC VALUE	SAMPLE RESULT	LR RESULT	LR %RSD	SPK RESULT	STD-SPK %REC
		1664A	OIL & GREASE	08/23/2021 10:27	MB	0.00	0.500				
		1664A	OIL & GREASE	08/23/2021 10:27	MB	0.00	0.500				
21071476 - 001	589405	1664A	OIL & GREASE	08/23/2021 10:27	SPK	40.00	0.200			39.400	98.0
21080982 - 01B	591814	1664A	OIL & GREASE	08/23/2021 10:27	SPK	200.00	14.000			172.000	79.0
		1664A	OIL & GREASE	08/23/2021 10:27	STD	40.00	42.900				107.3
		1664A	OIL & GREASE	08/23/2021 10:27	STD	40.00	37.400				93.5
		SM3113B	ARSENIC	08/23/2021 15:09	LCS MID	20.00	20.500				102.5
		SM3113B	ARSENIC	08/23/2021 13:15	MB	0.00	0.290				
		SM3113B	ARSENIC	08/23/2021 14:57	MB	0.00	-0.335				
21081142 - 001	592149	SM3113B	ARSENIC	08/23/2021 13:37	MS	20.00	0.445			23.400	114.8
21081142 - 001	592149	SM3113B	ARSENIC	08/23/2021 13:43	MSD	20.00	23.400	23.400	27.60		
		SM3113B	ARSENIC	08/23/2021 13:18	QCS	20.00	20.100				100.0

Comments:

QC FLAGS: MB or BLK = METHOD BLANK LR = LAB REPLICATE MSD = MATRIX SPIKE DUPLICATE STD or LCS = STANDARD SPK or MS = MATRIX SPIKE



Florida Radiochemistry Services, Inc.

Contact: Michael J. Naumann

5456 Hoffner Ave., Suite 201 Orlando, FL 32812

Phone: (407) 382-7733 Fax: (407)382-7744

Certification I. D. # E83033

Work Order #: 2108204

Report Date: 08/27/21

Report to:

Mosaic Fertilizer, LLC.

13830 Circe Crossing Drive

Lithia, FL 33547

Attention: Joshua Lipham / Adriana Rivers

I do hereby affirm that this record contains no willful misrepresentations and that this information given by me is true to the best of my knowledge and belief. I further certify that the methods and quality control measures used to produce these laboratory results were implemented in accordance with the requirements of this laboratory's certification and TNI Standards. The test results in this report relate only to the samples received.

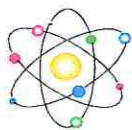
Signed

Michael J. Naumann – President

Shawn M. Naumann – Laboratory Manager

Date

8.27.21



Florida Radiochemistry Services, Inc.

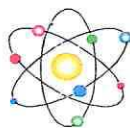
Sample Login

Client:	The Mosaic Company	Date / Time Received	Work order #
Client Contact:	Joshua Lipham/Adriana Rivers	08/24/21 11:40	2108204
Project I.D.	South Fort Meade Outfalls - SFM D-002 DeSoto County Split		
Lab Sample I.D.	Client Sample I.D.	Sample Date/Time	Analysis Requested
2108204-01	S108182-01 SFM D 002	08/19/21 10:50	Gross Alpha

Analysis Results

Gross Alpha	6.9
Error +/-	1.8
MDL	1.5
EPA Method	900.0
Prep Date	08/25/21
Prep Time	08:30
Analysis Date	08/26/21
Analysis Time	09:43
Analyst	MJN

Units **pCi/l**



QA Page

Analyte	Sample #	Date Analyzed	Sample Result	Amount Spiked	Spike Result	Spike /Dup Result	Spike % Rec.	Spike Dup % Rpd
Gross Alpha	2108210-01	08/26/21	3.7	10.0	13.5	14.5	98	7.1

	Quality	Control	Limits
	% RPD		% Rec.
Gross Alpha	20.0		70-130

SUBCONTRACT ORDER
Mosaic Fertilizer, LLC Environmental Laboratory



South Fort Meade
Outfalls - SFM D-002 DeSoto County Split

S108182

SENDING LABORATORY:

Mosaic Fertilizer, LLC Environmental Laboratory
7450 CR 630 Building 1
Mulberry, FL 33865
Phone: 863-428-2764
Project Manager: Joshua Lipham

RECEIVING LABORATORY:

Florida Radiochemistry Service
5456 Hoffner Avenue #201
Orlando, FL 32812-2517
Phone :(407) 382-7733

Sub Lab ID

Sample ID: S108182-01 003002

SFM D 002

Water

Sampled: 08/19/21 10:50



GA 15

Containers:

Alappony

Released By

M. V. ...

Received By

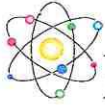
8.24.21 @ 11:40

Date

Released By

Received By

Date



Florida Radiochemistry Services, Inc.

Contact: Michael J. Naumann

5456 Hoffner Ave., Suite 201 Orlando, FL 32812

Phone: (407) 382-7733 Fax: (407)382-7744

Certification I. D. # E83033

Work Order #: 2108204

Report Date: 08/27/21

Report to:

Mosaic Fertilizer, LLC.

13830 Circe Crossing Drive

Lithia, FL 33547

Attention: Joshua Lipham / Adriana Rivers

I do hereby affirm that this record contains no willful misrepresentations and that this information given by me is true to the best of my knowledge and belief. I further certify that the methods and quality control measures used to produce these laboratory results were implemented in accordance with the requirements of this laboratory's certification and TNI Standards. The test results in this report relate only to the samples received.

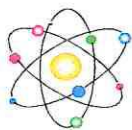
Signed

Michael J. Naumann – President

Shawn M. Naumann – Laboratory Manager

Date

8.27.21



Florida Radiochemistry Services, Inc.

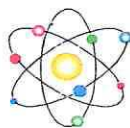
Sample Login

Client:	The Mosaic Company	Date / Time Received	Work order #
Client Contact:	Joshua Lipham/Adriana Rivers	08/24/21 11:40	2108204
Project I.D.	South Fort Meade Outfalls - SFM D-002 DeSoto County Split		
Lab Sample I.D.	Client Sample I.D.	Sample Date/Time	Analysis Requested
2108204-01	S108182-01 SFM D 002	08/19/21 10:50	Gross Alpha

Analysis Results

Gross Alpha	6.9
Error +/-	1.8
MDL	1.5
EPA Method	900.0
Prep Date	08/25/21
Prep Time	08:30
Analysis Date	08/26/21
Analysis Time	09:43
Analyst	MJN

Units **pCi/l**



QA Page

Analyte	Sample #	Date Analyzed	Sample Result	Amount Spiked	Spike Result	Spike /Dup Result	Spike % Rec.	Spike Dup % Rpd
Gross Alpha	2108210-01	08/26/21	3.7	10.0	13.5	14.5	98	7.1

	Quality	Control	Limits
	% RPD		% Rec.
Gross Alpha	20.0		70-130

SUBCONTRACT ORDER
Mosaic Fertilizer, LLC Environmental Laboratory



South Fort Meade
Outfalls - SFM D-002 DeSoto County Split

S108182

SENDING LABORATORY:

Mosaic Fertilizer, LLC Environmental Laboratory
7450 CR 630 Building 1
Mulberry, FL 33865
Phone: 863-428-2764
Project Manager: Joshua Lipham

RECEIVING LABORATORY:

Florida Radiochemistry Service
5456 Hoffner Avenue #201
Orlando, FL 32812-2517
Phone :(407) 382-7733

Sub Lab ID

Sample ID: S108182-01 003002

SFM D 002

Water

Sampled: 08/19/21 10:50



GA 15

Containers:

Alappony

Released By

M. V. ...

Received By

8.24.21 @ 11:40

Date

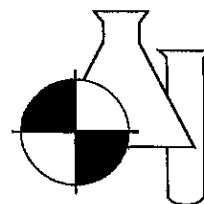
Released By

Received By

Date

BENCHMARK

EnviroAnalytical Inc.



NELAC Certification #E84167

ANALYTICAL TEST REPORT

THESE RESULTS MEET NELAC STANDARDS

Submission Number : 21081261

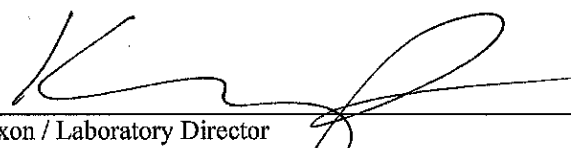
Mosaic Fertilizer, L L C
13830 Circa Crossing Drive
Lithia, FL 33547

Project Name : SOUTH FORT MEADE OUTFALLS - SFM
Project ID : S108182
Date Received : 08/20/2021
Time Received : 1340

Joshua Lipham

Submission Number:	21081261	Sample Point:	003002
Sample Number:	001	Sample ID:	S108182-01
Sample Date:	08/19/2021	Sample Description:	SFM D 002
Sample Time:	1050	Sample Method:	Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis Date/Time	Analyst
OIL & GREASE	1.37 U	MG/L	1.37	5.48	1664A	08/23/2021 10:27	CE
ARSENIC	2.19 I	UG/L	0.689	2.756	SM3113B	08/23/2021 15:22	IE


 Dale D. Dixon / Laboratory Director 08/30/2021
Date
 Tülay Tanrisever - Technical Director/QC Officer
 Kara Peterson / QA Officer

DATA QUALIFIERS THAT MAY APPLY:

A = Value reported is an average of two or more determinations.
 G2 = Accuracy standard exceeds acceptable control limits. Duplicate and spike values are within control limits. Reported data are usable.
 B = Results based upon colony counts outside the ideal range.
 H = Value based on field kit determination. Results may not be accurate.
 I = Reported value is between the laboratory MDL and the PQL.
 J1 = Estimated value. Surrogate recovery limits exceeded.
 J2 = Estimated value. No quality control criteria exists for component.
 J3 = Estimated value. Quality control criteria for precision or accuracy not met.
 J4 = Estimated value. Sample matrix interference suspected.
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 N = Presumptive evidence of presence of material.
 O = Sampled, but analysis lost or not performed.
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 Y = Analysis performed on an improperly preserved sample. Data may be inaccurate.
 Z = Too many colonies were present (TNTC). The numeric value represents the filtration volume.
 | = Data deviate from historically established concentration ranges.
 ? = Data rejected and should not be used. Some or all of QC data were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
 * = Not reported due to interference.
 Oil & Grease - If client does not send sufficient sample quantity for spike evaluation surface water samples are supplied by the laboratory.

COMMENTS:

NOTES:

PQL = 4xMDL.
 MBAS calculated as LAS; molecular weight = 340.
 ND = Not detected at or above the adjusted reporting limit.

For questions and comments regarding these results, please contact us at (941) 723-9986.
 Results relate only to the samples.

SUBCONTRACT ORDER
Mosaic Fertilizer, LLC Environmental Laboratory



South Fort Meade

Outfalls - SFM D-002 DeSoto County Split

S108182

SENDING LABORATORY:

Mosaic Fertilizer, LLC Environmental Laboratory
7450 CR 630 Building 1
Mulberry, FL 33865
Phone: 863-428-2764
Project Manager: Joshua Lipham

RECEIVING LABORATORY:

Benchmark Analytical
1711 12th St. E.
Palmetto, FL 34221
Phone : (941) 723-9986

Sub Lab ID

Sample ID: S108182-01 003002

SFMD 002

Water Sampled: 08/19/21 10:50

21081261-1

Oil & Grease, EPA 1664A

As, Total SM3113 B

Sample Receipt Temp. 02 °C

Thermometer ID: 250

pH < 2 1 Init. JK

Containers:

2

Released By

[Signature]

Received By

[Signature]

8-20-21 1245

Date

2

Released By

[Signature]

Received By

[Signature]

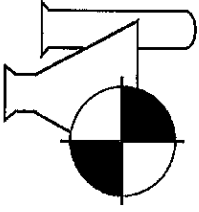
8/20/21 1340

Date

2 of 2
Page 1 of 1

BENCHMARK

EnviroAnalytical Inc.



NELAC Certification #E84167

Submission Number: 21081261
 Project Name: SOUTH FORT MEADE OUTFALLS - SFM

QC REPORT

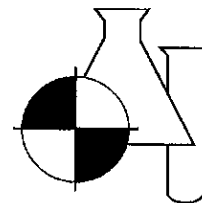
SUBMISSION NUMBER	SAMPLE NUMBER	METHOD	ANALYTE	ANALYSIS DATE/TIME	QC FLAG	QC VALUE	SAMPLE RESULT	LR RESULT	LR %RSD	SPK RESULT	STD-SPK %REC
		1664A	OIL & GREASE	08/23/2021 10:27	MB	0.00	0.500				
		1664A	OIL & GREASE	08/23/2021 10:27	MB	0.00	0.500				
21071476 - 001	589405	1664A	OIL & GREASE	08/23/2021 10:27	SPK	40.00	0.200			39.400	98.0
21080982 - 01B	591814	1664A	OIL & GREASE	08/23/2021 10:27	SPK	200.00	14.000			172.000	79.0
		1664A	OIL & GREASE	08/23/2021 10:27	STD	40.00	42.900				107.3
		1664A	OIL & GREASE	08/23/2021 10:27	STD	40.00	37.400				93.5
		SM3113B	ARSENIC	08/23/2021 15:09	LCS MID	20.00	20.500				102.5
		SM3113B	ARSENIC	08/23/2021 13:15	MB	0.00	0.290				
		SM3113B	ARSENIC	08/23/2021 14:57	MB	0.00	-0.335				
21081142 - 001	592149	SM3113B	ARSENIC	08/23/2021 13:37	MS	20.00	0.445			23.400	114.8
21081142 - 001	592149	SM3113B	ARSENIC	08/23/2021 13:43	MSD		23.400	23.400	27.60		
		SM3113B	ARSENIC	08/23/2021 13:18	QCS	20.00	20.100				100.0

Comments:

QC FLAGS: MB or BLK = METHOD BLANK LR = LAB REPLICATE MSD = MATRIX SPIKE DUPLICATE STD or LCS = STANDARD SPK or MS = MATRIX SPIKE

BENCHMARK

EnviroAnalytical Inc.



NELAC Certification #E84167

ANALYTICAL TEST REPORT

THESE RESULTS MEET NELAC STANDARDS

Submission Number : 21090046

Mosaic Fertilizer, L L C
13830 Circa Crossing Drive
Lithia, FL 33547

Project Name : SOUTH FORT MEADE GW - SFM D-002

Project ID : S108182

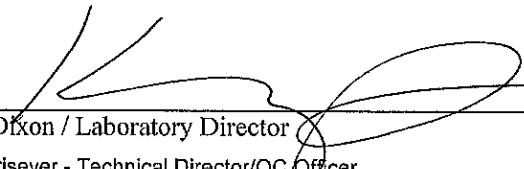
Date Received : 09/01/2021

Time Received : 1410

Joshua Lipham

Submission Number:	21090046	Sample Point:	003002
Sample Number:	001	Sample ID:	S108182-01
Sample Date:	08/19/2021	Sample Description:	SFM D 002
Sample Time:	1050	Sample Method:	Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis Date/Time	Analyst
FLUORIDE	5.05	MG/L	0.300	1.200	300.0	09/08/2021 15:03	CM
SULFATE	208	MG/L	0.339	1.356	300.0	09/14/2021 02:52	LG/CM


Dale D. Dixon / Laboratory Director 09/15/2021
Date
Tulay Tarrisever - Technical Director/QC Officer
Kara Peterson / QA Officer

DATA QUALIFIERS THAT MAY APPLY:

A = Value reported is an average of two or more determinations.
G2 = Accuracy standard exceeds acceptable control limits. Duplicate and spike values are within control limits. Reported data are usable.
B = Results based upon colony counts outside the ideal range.
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I = Reported value is between the laboratory MDL and the PQL.
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J3 = Estimated value. Quality control criteria for precision or accuracy not met.
J4 = Estimated value. Sample matrix interference suspected.
J5 = Estimated value. Data questionable due to improper lab or field protocols.
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L = Off-scale high. Value is known to be > the value reported.
N = Presumptive evidence of presence of material.
O = Sampled, but analysis lost or not performed.
Q = Sample held beyond accepted hold time.

T = Value reported is < MDL. Reported for informational purposes only and shall not be used in statistical analysis.
U = Analyte analyzed but not detected at the value indicated.
V = Analyte detected in sample and method blank. Results for this analyte in associated samples may be biased high. Standard, Duplicate and Spike values are within control limits. Reported data are usable.
Y = Analysis performed on an improperly preserved sample. Data may be inaccurate.
Z = Too many colonies were present (TNTC). The numeric value represents the filtration volume.
I = Data deviate from historically established concentration ranges.
? = Data rejected and should not be used. Some or all of QC data were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
* = Not reported due to interference.
Oil & Grease - If client does not send sufficient sample quantity for spike evaluation surface water samples are supplied by the laboratory.

COMMENTS:

NOTES:

PQL = 4xMDL.
MBAS calculated as LAS; molecular weight = 340.
ND = Not detected at or above the adjusted reporting limit.

For questions and comments regarding these results, please contact us at (941) 723-9986.

Results relate only to the samples.

SUBCONTRACT ORDER
Mosaic Fertilizer, LLC Environmental Laboratory



South Fort Meade

Outfalls - SFM D-002 DeSoto County Split

S108182

SENDING LABORATORY:

Mosaic Fertilizer, LLC Environmental Laboratory
7450 CR 630 Building 1
Mulberry, FL 33865
Phone: 863-428-2764
Project Manager: Joshua Lipham

RECEIVING LABORATORY:

Benchmark Analytical
1711 12th St. E.
Palmetto, FL 34221
Phone: (941) 723-9986

Sub Lab ID

Sample ID: S108182-01 003002

SFM D 002

Water Sampled: 08/19/21 10:50

21090046-1

~~Oil & Grease, EPA 1664A~~

Sulfate, EPA 300.0

Fluoride, EPA 300.0

~~As, Total SM3113 B~~

Sample Receipt Temp. 0.2 °C

Thermometer ID: 256

pH < 2 3 Init. mm

Containers:

1

Released By

[Signature]

Received By

[Signature]

Date

9-1-21 1300

1

Released By

[Signature]

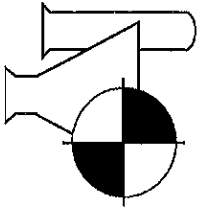
Received By

[Signature]

Date

9/1/21 1410

2 of 2



BENCHMARK

EnviroAnalytical Inc.

NELAC Certification #E84167

Submission Number: 21090046
 Project Name: SOUTH FORT MEADE GW - SFM D-002

QC REPORT

SUBMISSION NUMBER	SAMPLE NUMBER	METHOD	ANALYTE	ANALYSIS DATE/TIME	QC FLAG	QC VALUE	SAMPLE RESULT	LR RESULT	LR %RSD	SPK RESULT	STD-SPK %REC
21090046 - 001	593528	300.0	FLUORIDE	09/08/2021 15:12	LR		5.050	4.870	2.57		
21090062 - 002	593548	300.0	FLUORIDE	09/08/2021 22:13	LR		6.740	7.030	2.98		
		300.0	FLUORIDE	09/08/2021 00:34	MB	0.00	0.030				
		300.0	FLUORIDE	09/08/2021 14:04	MB	0.00	0.030				
		300.0	FLUORIDE	09/08/2021 16:34	MB	0.00	0.030				
		300.0	FLUORIDE	09/08/2021 23:35	MB	0.00	0.030				
21090197 - 001	593796	300.0	FLUORIDE	09/08/2021 14:53	SPK	3.00	0.710			3.500	93.0
21090197 - 002	593797	300.0	FLUORIDE	09/08/2021 17:02	SPK	3.00	0.671			3.600	97.6
		300.0	FLUORIDE	09/08/2021 00:43	STD	2.40	2.590				107.9
		300.0	FLUORIDE	09/08/2021 16:43	STD	2.40	2.560				106.7
		300.0	FLUORIDE	09/08/2021 23:44	STD	2.40	2.630				109.6
21090041 - 001	593519	300.0	SULFATE	09/14/2021 02:33	LR		178.000	176.000	0.80		
21090057 - 002	593540	300.0	SULFATE	09/14/2021 06:51	LR		311.000	322.000	2.46		
21090212 - 013	593830	300.0	SULFATE	09/14/2021 12:08	LR		25.000	23.900	3.18		
		300.0	SULFATE	09/14/2021 01:01	MB	0.00	0.339				
		300.0	SULFATE	09/14/2021 05:19	MB	0.00	0.339				
		300.0	SULFATE	09/14/2021 10:36	MB	0.00	0.339				
		300.0	SULFATE	09/14/2021 12:27	MB	0.00	0.339				
21090051 - 001	593533	300.0	SULFATE	09/14/2021 06:15	SPK	500.00	567.000			1017.000	90.0
21090059 - 002	593543	300.0	SULFATE	09/14/2021 01:56	SPK	100.00	120.000			215.000	95.0
21090212 - 006	593823	300.0	SULFATE	09/14/2021 11:31	SPK	500.00	413.000			953.000	108.0
		300.0	SULFATE	09/14/2021 01:19	STD	120.00	108.000				90.0
		300.0	SULFATE	09/14/2021 05:38	STD	120.00	113.000				94.2
		300.0	SULFATE	09/14/2021 10:54	STD	120.00	114.000				95.0
		300.0	SULFATE	09/14/2021 12:45	STD	120.00	119.000				99.2

QC FLAGS: MB or BLK = METHOD BLANK LR = LAB REPLICATE MSD = MATRIX SPIKE DUPLICATE STD or LCS = STANDARD SPK or MS = MATRIX SPIKE