

Effluent Quality Assessment

Mosaic Fertilizer, L.L.C. – Fort Lonesome Mine

Hillsborough County

NPDES #FL0033332

Sampled September 5, 2012

February 2013

Biology Section
Bureau of Laboratories
Division of Environmental Assessment and Restoration

Quality Manual No. 870346G
NELAC Certification No. E31780

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Mosaic Fertilizer, L.L.C. – Fort Lonesome Mine, 14305 Lonesome Mine Road, Lithia, Hillsborough County, Florida, 33547. NPDES #FL0033332. Effluent grab samples for biological and chemical analyses for this facility were collected on September 5, 2012.

Introduction

Mosaic Fertilitzer, L.L.C. – Fort Lonesome Mine is a phosphate ore mining and washing operation that settles solids in clay settling areas to treat process wastewater. Discharge is rainfall dependent. (See Appendix C for detailed facility information provided by Jacki Champion of FDEP Southwest District.)

Methods

Samples were collected from the EFF-003 NPDES sampling point for Outfall D-003 by Jacki Champion and Melani Dickenson (FDEP Southwest District) following DEP-SOP-001/01 FS 2400 Wastewater Sampling. All DEP SOPs are available on the web at: http://www.dep.state.fl.us/water/sas/sop/index.htm.

The Algal growth potential test (AGP) was performed following internal DEP SOPs TA08_01 through TA08_09. All internal DEP SOPs are available on the web at: http://www.dep.state.fl.us/labs/library/lab_sops.htm.

See Appendix A for the completed chain of custody form.

Results and Discussion

- **Toxicity Test Results**
  Bioassay samples were not collected during this sampling event.

- **Algal Growth Potential**
  The effluent Algal Growth Potential (AGP) was 6.88 A mg dry wt/L of the unicellular green alga, *Pseudokirchneriella subcapitata*, formerly known as *Selenastrum capricornutum*. Raschke and Schultz (1987) determined that AGP values above 5.0 mg dry weight/L represent a “problem” threshold for fresh receiving waters, implying nutrient enrichment. The ratio (3.7:1) of total nitrogen to total phosphorus suggests that the effluent is nitrogen-limited.(Table 1; Miller et al. 1978).

  See Table 1 for AGP results and qualifiers.

- **Chemistry Results**
  The total ammonia concentration in the grab sample collected and preserved for chemical analysis was 0.015 I mg N/L. Based on the pH, salinity, and temperature of the effluent as collected, the calculated unionized ammonia concentration was < 0.02 mg/L, which complies with Class III Freshwater Quality Criteria (62-302.530, F.A.C.).

  Arsenic, total phosphorus, total nitrogen, turbidity, fluoride, and radium 226 + 228 were detected in the effluent at levels that comply with Class III Freshwater quality criteria (62-302.530, F.A.C.) and/or permitted limits. Dissolved oxygen, pH, and conductivity were detected in the effluent at levels that comply with Class III Freshwater quality criteria (62-302.530, F.A.C.) and permitted limits. Chromium-III, iron, nickel, selenium, total suspended solids, and oils and greases were detected between the laboratory method detection limits (MDL) and practical quantitation limits (PQL).

  See Table 2 for results of analytes detected in the effluent, corresponding limits, and qualifiers. See Appendix B for a complete list of chemical analyses performed.

Conclusion

The effluent sample was collected from the EFF-003 NPDES sampling point for this facility on September 5, 2012. The effluent AGP result was greater than the "problem" threshold for fresh receiving waters suggesting that nutrient enrichment may be an issue. Effluent water quality samples collected on September 5, 2012, did not exceed any applicable water quality standards or violate any permit conditions.

Literature Cited

Miller, W. E., T. E. Maloney, and J. C. Greene. 1978. The *Selenastrum capricornutum* Printz algal assay bottle test. EPA-600/9-78-018. U. S. EPA, Cincinnati, Ohio. 126 p.

Raschke, R. L. and D. A. Schultz. 1987. The use of the algal growth potential test for data assessment. J. Wat. Poll. Cont. Fed. 59(4): 222-227.

Table 1. Measured and predicted algal growth potential (AGP; mg dry weight/L) for total soluble inorganic nitrogen (TSIN) and total nitrogen (TN) limitation of the freshwater species *Pseudokirchneriella subcapitata* and ratios of nitrogen to phosphorus.

Mosaic Fertilizer, L.L.C. - Fort Lonesome Mine				
Location	AGP (measured)	Predicted AGP (TSIN) ± 20%	Predicted AGP (TN) ± 20%	Inorganic N:P ratio	Total N:P ratio
Effluent	6.88 A	0.8 ± 0.2	30.6 ± 6.1	0.2	3.7

A - Value reported is the mean of two or more determinations

Table 2. Effluent limits, Class III Freshwater Criteria and chemical data.

Mosaic Fertilizer, L.L.C. - Fort Lonesome Mine	Class III Criteria	Effluent Limits	Effluent	
Organic Constituents (µg/L)				
None Detected	-	-	None Detected	
Metals (µg/L unless otherwise noted)				
Aluminum	-	-	210	A
Arsenic	≤ 50	-	2.77	A
Cadmium	≤ 0.1 b	-	0.050	U
Calcium (mg/L)	-	-	22.4	A
Chromium-III	≤ 27.7 b	-	0.93	I
Copper	≤ 2.9 b	-	0.50	U
Iron	≤ 1,000	-	90	I
Lead	≤ 0.5 b	-	0.20	U
Magnesium (mg/L)	-	-	12.8	A
Nickel	≤ 16.1 b	-	0.42	I
Selenium	≤ 5.0	-	0.76	I
Silver	≤ 0.07	-	0.025	U
Sodium (mg/L)	-	-	45.2	A
Zinc	≤ 37.0 b	-	5.0	U
Nutrients (mg/L)				
Ortho-phosphate	-	-	0.089	
Total Phosphorus	-	≤ 5.0	0.22	
Total Ammonia	-	-	0.015	I
Un-ionized Ammonia	< 0.02 s	-	≤ 0.02	c
Nitrate and Nitrite	-	Report	0.006	I
Total Kjeldahl Nitrogen	-	-	0.80	
Organic Nitrogen	-	-	0.785	c
Total Nitrogen	-	≤ 3.0	0.806	c
General Physical and Chemical Parameters				
Dissolved Oxygen (mg/L)	≥ 5.0	≥ 5.0	6.0	
pH (SU)	6.0 - 8.5	6.0 - 8.5	7.9	
Conductivity (µmhos/cm)	≤ 1,275	≤ 1,275	394	
Temperature (°C)	-	Report	29.4	
Alkalinity (mg CaCO3/L)	-	-	100	
Chlorophyll *a* (µg/L) - Corrected	-	Report	19	
Phaeophytin (µg/L)	-	-	4.3	
Total Suspended Solids (mg/L)	-	≤ 60.0	5	I
Total Dissolved Solids (mg/L)	-	-	248	A
Turbidity (NTU)	< 29 t	< 29 t	3.78	
Oils and Greases (mg/L)	≤ 5.0	-	0.80	I
Chloride (mg/L)	-	-	8.4	
Fluoride (mg/L)	≤ 10.0	≤ 10.0	0.81	
Sulfate (mg/L)	-	Report	75	
Alpha, Total (pCi/L)	≤ 15	-	2.6	U
Alpha-Counting Error (pCi/L)	-	-	1.8	
Radium 226 (pCi/L)	-	-	0.5	
Radium 226-Counting Error (pCi/L)	-	-	0.2	
Radium 228 (pCi/L)	-	-	0.8	U
Radium 228-Counting Error (pCi/L)	-	-	0.5	
Radium 226 + 228 (pCi/L)	≤ 5	-	0.5	c
Flow (MGD)	-	Report	10.2	
Hardness (mg $CaCO_3$)	-	-	108.64	c

Value exceeds the Class III Water Quality Criteria or permit limits

b - Value is calculated based on hardness

c - Value is calculated

s - Single sample

t - Shall not exceed 29 NTUs above background

A - Value reported is the mean of two or more determinations

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

U - Material analyzed for but not detected; value reported is the method detection limit

Appendix A. Chain of Custody Form

Florida Department of Environmental Protection

Central Laboratory Sample Submittal Form

Event ID *

Request Number: RQ-2012-09-03-40
FYI3 Mosaic Fort Lonesome Mine

Requester: Jacquelyn M. Champion
Field Report Prepared By: Jacki Champion
Collected By: Jacki Champion / Melani Dickenson
Send Final Report To: Jacki Champion
Sampling Agency: FDEP

Customer: BMR-TAMPA
Project ID: FYI3
PMAS:

From Sample Rec'd 9-6-12.

Lab ID *	Location	Collection (comp begin or grab)	Composite end	Bottle Group(s)**
	Mosaic Lonesome	☐ Comp ☒ Grab Date 9/5/12 Time 10:10 ☐ Eastern ☐ Central	Date Time ☐ Eastern ☐ Central	A
	Field ID D-003	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L) 5.95	Storet Station Number
	Matrix (include type e.g. Salt, Fresh, etc) Fresh Water	Temp (C) 29.40	pH 7.88	Sample Depth ☐ m ☐ ft 394 ☐ Salinity (PPTh) ☒ Sp Conductance (umho/cm)
	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	NPDES Number FL0033332	Comments Turbidity – 3.78 NTU

Lab ID *	Location	Collection (comp begin or grab)	Composite end	Bottle Group(s)**
	Blank	☐ Comp ☒ Grab Date 9/5/12 Time 9:55 ☐ Eastern ☐ Central	Date Time ☐ Eastern ☐ Central	B
	Field ID Blank	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number
	Matrix (include type e.g. Salt, Fresh, etc) Fresh Water	Temp (C)	pH	Sample Depth ☐ m ☐ ft ☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)
	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	NPDES Number	Comments D.I. H_2O

Lab ID *	Location	Collection (comp begin or grab)	Composite end	Bottle Group(s)**
		☐ Comp ☐ Grab Date Time ☐ Eastern ☐ Central	Date Time ☐ Eastern ☐ Central	
	Field ID	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number
	Matrix (include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Sample Depth ☐ m ☐ ft ☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)
	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	NPDES Number	Comments

Lab ID *	Location	Collection (comp begin or grab)	Composite end	Bottle Group(s)**
		☐ Comp ☐ Grab Date Time ☐ Eastern ☐ Central	Date Time ☐ Eastern ☐ Central	
	Field ID	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number
	Matrix (include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Sample Depth ☐ m ☐ ft ☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)
	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	NPDES Number	Comments

Relinquished By:	Date/Time	Shipping Method:	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time
JaChampion	9/5/12 11:45 am	FedEx	[illegible]	9/6/12 09:25				

* Shaded Areas for Lab use only.

** Please see reverse side for Bottle Group information.

last revised October 1, 2003

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Appendix B. Chemical Analyses performed on the effluent from the Mosaic Fertilizer, L.L.C. – Lonesome Mine Outfall D-003, sampled on September 5, 2012.

Date_Sampled	UDL	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
9/5/2012 10:10	Effluent	AGP/LN	Algal Growth Potential	6.88	A	mg DryWt/L		
9/5/2012 10:10	Effluent	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	19		ug/L	0.55	1.7
9/5/2012 10:10	Effluent	Chlorophyll/Grain Size/BOD	Phaeophytin-a	4.3		ug/L	0.4	1.2
9/5/2012 10:10	Effluent	Metals	Sodium	45.2	A	mg/L	0.5	2
9/5/2012 10:10	Effluent	Metals	Arsenic	2.77	A	ug/L	0.25	1
9/5/2012 10:10	Effluent	Metals	Iron	90	I	ug/L	30	120
9/5/2012 10:10	Effluent	Metals	Cadmium	0.05	U	ug/L	0.05	0.2
9/5/2012 10:10	Effluent	Metals	Aluminum	210	A	ug/L	5	20
9/5/2012 10:10	Effluent	Metals	Copper	0.5	U	ug/L	0.5	1
9/5/2012 10:10	Effluent	Metals	Magnesium	12.8	A	mg/L	0.04	0.16
9/5/2012 10:10	Effluent	Metals	Silver	0.025	U	ug/L	0.025	0.1
9/5/2012 10:10	Effluent	Metals	Lead	0.2	U	ug/L	0.2	0.8
9/5/2012 10:10	Effluent	Metals	Nickel	0.42	I	ug/L	0.25	1
9/5/2012 10:10	Effluent	Metals	Zinc	5	U	ug/L	5	20
9/5/2012 10:10	Effluent	Metals	Chromium	0.93	I	ug/L	0.3	1.2
9/5/2012 10:10	Effluent	Metals	Calcium	22.4	A	mg/L	0.075	0.3
9/5/2012 10:10	Effluent	Metals	Selenium	0.76	I	ug/L	0.2	0.8
9/5/2012 10:10	Effluent	Nutrients	Chloride	8.4		mg Cl/L	0.2	0.5
9/5/2012 10:10	Effluent	Nutrients	Total-P	0.22		mg P/L	0.004	0.01
9/5/2012 10:10	Effluent	Nutrients	TDS	248	A	mg/L	15	25
9/5/2012 10:10	Effluent	Nutrients	Alkalinity	100		mg CaCO3/L	0.65	2.5
9/5/2012 10:10	Effluent	Nutrients	TSS	5	I	mg/L	2	10
9/5/2012 10:10	Effluent	Nutrients	Sulfate	75		mg SO4/L	0.2	0.5
9/5/2012 10:10	Effluent	Nutrients	NO2NO3-N	0.006	I	mg N/L	0.004	0.01
9/5/2012 10:10	Effluent	Nutrients	O-Phosphate-P	0.089		mg P/L	0.004	0.01
9/5/2012 10:10	Effluent	Nutrients	Kjeldahl Nitrogen	0.8		mg N/L	0.08	0.2
9/5/2012 10:10	Effluent	Nutrients	Fluoride	0.81		mg F/L	0.035	0.1
9/5/2012 10:10	Effluent	Nutrients	Ammonia-N	0.015	I	mg N/L	0.01	0.02
9/5/2012 10:10	Effluent	Overflow	Radium 226-Counting Error	0.2		pCi/L		
9/5/2012 10:10	Effluent	Overflow	Oil and Grease	0.8	I	mg/L	0.7	2.5
9/5/2012 10:10	Effluent	Overflow	Alpha-Counting Error	1.8		pCi/L		
9/5/2012 10:10	Effluent	Overflow	Radium 228	0.8	U	pCi/L		
9/5/2012 10:10	Effluent	Overflow	Radium 226	0.5		pCi/L		

Date_Sampled	UDL	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
9/5/2012 10:10	Effluent	Overflow	Alpha, Total	2.6	U	pCi/L		
9/5/2012 10:10	Effluent	Overflow	Radium 228-Counting Error	0.5		pCi/L		
9/5/2012 10:10	Effluent	Pesticides	Butylate	0.1	U	ug/L	0.1	0.4
9/5/2012 10:10	Effluent	Pesticides	Chlorpyrifos Methyl	0.05	U	ug/L	0.05	0.2
9/5/2012 10:10	Effluent	Pesticides	Fenamiphos	0.15	U	ug/L	0.15	0.6
9/5/2012 10:10	Effluent	Pesticides	Metolachlor	0.3	U	ug/L	0.3	1.2
9/5/2012 10:10	Effluent	Pesticides	Mevinphos	0.05	U	ug/L	0.05	0.2
9/5/2012 10:10	Effluent	Pesticides	Chlorpyrifos Ethyl	0.05	U	ug/L	0.05	0.2
9/5/2012 10:10	Effluent	Pesticides	Malathion	0.05	U	ug/L	0.05	0.2
9/5/2012 10:10	Effluent	Pesticides	Ametryn	0.05	U	ug/L	0.05	0.2
9/5/2012 10:10	Effluent	Pesticides	Metribuzin	0.1	U	ug/L	0.1	0.4
9/5/2012 10:10	Effluent	Pesticides	Prometryn	0.1	U	ug/L	0.1	0.4
9/5/2012 10:10	Effluent	Pesticides	Alachlor	0.3	U	ug/L	0.3	1.2
9/5/2012 10:10	Effluent	Pesticides	Ethion	0.05	U	ug/L	0.05	0.2
9/5/2012 10:10	Effluent	Pesticides	Parathion Ethyl	0.1	U	ug/L	0.1	0.4
9/5/2012 10:10	Effluent	Pesticides	Parathion Methyl	0.05	U	ug/L	0.05	0.2
9/5/2012 10:10	Effluent	Pesticides	Simazine	0.05	U	ug/L	0.05	0.2
9/5/2012 10:10	Effluent	Pesticides	Atrazine	0.05	U	ug/L	0.05	0.2
9/5/2012 10:10	Effluent	Pesticides	Azinphos Methyl	0.1	U	ug/L	0.1	0.4
9/5/2012 10:10	Effluent	Pesticides	Bromacil	0.2	U	ug/L	0.2	0.8
9/5/2012 10:10	Effluent	Pesticides	Hexazinone	0.15	U	ug/L	0.15	0.6
9/5/2012 10:10	Effluent	Pesticides	Diazinon	0.05	U	ug/L	0.05	0.2
9/5/2012 10:10	Effluent	Pesticides	Metalaxyl	0.2	U	ug/L	0.2	0.8
9/5/2012 10:10	Effluent	Pesticides	Naled	0.2	U	ug/L	0.2	0.8
9/5/2012 10:10	Effluent	Pesticides	Norflurazon	0.15	U	ug/L	0.15	0.6
9/5/2012 10:10	Effluent	Pesticides	Ethoprop	0.025	U	ug/L	0.025	0.1
9/5/2012 10:10	Effluent	Pesticides	Fonofos	0.05	U	ug/L	0.05	0.2
9/5/2012 10:10	Effluent	Pesticides	Phorate	0.025	U	ug/L	0.025	0.1
9/5/2012 10:10	Effluent	Priority Organic Pollutants	2,4,6-Trichlorophenol	1.1	U	ug/L	1.1	4.3
9/5/2012 10:10	Effluent	Priority Organic Pollutants	2-Chloronaphthalene	1.1	U	ug/L	1.1	4.3
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Chrysene	0.21	U	ug/L	0.21	0.85
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	16	U	ug/L	16	64
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	3.2	U	ug/L	3.2	13
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	1.1	U	ug/L	1.1	4.3
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.21	U	ug/L	0.21	0.85
9/5/2012 10:10	Effluent	Priority Organic Pollutants	4-Nitrophenol	16	U	ug/L	16	64

Date_Sampled	UDL	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Diethyl phthalate	1.1	U	ug/L	1.1	4.3
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Hexachlorobenzene	1.1	U	ug/L	1.1	4.3
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Hexachlorobutadiene	3.2	U	ug/L	3.2	13
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Naphthalene	0.21	U	ug/L	0.21	0.85
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Nitrobenzene	2.1	U	ug/L	2.1	8.5
9/5/2012 10:10	Effluent	Priority Organic Pollutants	2,4-Dinitrophenol	16	U	ug/L	16	64
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Benzo(a)anthracene	0.21	U	ug/L	0.21	0.85
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Butyl benzyl phthalate	5.3	U	ug/L	5.3	21
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Isophorone	1.1	U	ug/L	1.1	4.3
9/5/2012 10:10	Effluent	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	3.2	U	ug/L	3.2	13
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Pentachlorophenol	3.2	U	ug/L	3.2	13
9/5/2012 10:10	Effluent	Priority Organic Pollutants	2,4-Dinitrotoluene	1.1	U	ug/L	1.1	4.3
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Bis(2-chloroethyl)ether	1.1	U	ug/L	1.1	4.3
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.21	U	ug/L	0.21	0.85
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Hexachlorocyclopentadiene	3.2	U	ug/L	3.2	13
9/5/2012 10:10	Effluent	Priority Organic Pollutants	2,4-Dichlorophenol	1.1	U	ug/L	1.1	4.3
9/5/2012 10:10	Effluent	Priority Organic Pollutants	2-Chlorophenol	1.1	U	ug/L	1.1	4.3
9/5/2012 10:10	Effluent	Priority Organic Pollutants	3,3'-Dichlorobenzidine	43	U	ug/L	43	170
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Acenaphthene	0.21	U	ug/L	0.21	0.85
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Benzidine	110	U	ug/L	110	430
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Benzo(b)fluoranthene	0.21	U	ug/L	0.21	0.85
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.21	U	ug/L	0.21	0.85
9/5/2012 10:10	Effluent	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	2.1	U	ug/L	2.1	8.5
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Phenanthrene	0.21	U	ug/L	0.21	0.85
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Phenol	1.1	U	ug/L	1.1	4.3
9/5/2012 10:10	Effluent	Priority Organic Pollutants	2,6-Dinitrotoluene	1.1	U	ug/L	1.1	4.3
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Benzo(k)fluoranthene	0.21	U	ug/L	0.21	0.85
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Hexachloroethane	3.2	U	ug/L	3.2	13
9/5/2012 10:10	Effluent	Priority Organic Pollutants	2,4-Dimethylphenol	11	U	ug/L	11	43
9/5/2012 10:10	Effluent	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	2.1	U	ug/L	2.1	8.5
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Acenaphthylene	0.21	U	ug/L	0.21	0.85
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Benzo(a)pyrene	0.21	U	ug/L	0.21	0.85
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Dimethyl phthalate	11	U	ug/L	11	43
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Fluoranthene	0.21	U	ug/L	0.21	0.85
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Fluorene	0.21	U	ug/L	0.21	0.85
9/5/2012 10:10	Effluent	Priority Organic Pollutants	N-Nitrosodimethylamine	2.1	U	ug/L	2.1	8.5

Date_Sampled	UDL	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Pyrene	0.21	U	ug/L	0.21	0.85
9/5/2012 10:10	Effluent	Priority Organic Pollutants	1,2,4-Trichlorobenzene	1.1	U	ug/L	1.1	4.3
9/5/2012 10:10	Effluent	Priority Organic Pollutants	2-Nitrophenol	1.1	U	ug/L	1.1	4.3
9/5/2012 10:10	Effluent	Priority Organic Pollutants	4-Chloro-3-methylphenol	1.1	U	ug/L	1.1	4.3
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Anthracene	0.21	U	ug/L	0.21	0.85
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Di-n-butyl phthalate	5.3	U	ug/L	5.3	21
9/5/2012 10:10	Effluent	Priority Organic Pollutants	Di-n-octyl phthalate	1.1	U	ug/L	1.1	4.3
9/5/2012 10:10	Effluent	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.2	U	ug/L	3.2	13
9/5/2012 10:10	Effluent	Priority Organic Pollutants	4-Bromophenyl phenyl ether	1.1	U	ug/L	1.1	4.3
9/5/2012 10:10	Effluent	Field Parameter	Specific Conductance	394		umhos/cm		
9/5/2012 10:10	Effluent	Field Parameter	Dissolved Oxygen	5.95		mg/L		
9/5/2012 10:10	Effluent	Field Parameter	pH	7.88				
9/5/2012 10:10	Effluent	Field Parameter	Temperature	29.4		C		
9/5/2012 9:55	Field Blank	Metals	Sodium	0.5	U	mg/L	0.5	2
9/5/2012 9:55	Field Blank	Metals	Selenium	0.2	U	ug/L	0.2	0.8
9/5/2012 9:55	Field Blank	Metals	Zinc	5	U	ug/L	5	20
9/5/2012 9:55	Field Blank	Metals	Calcium	0.075	U	mg/L	0.075	0.3
9/5/2012 9:55	Field Blank	Metals	Magnesium	0.04	U	mg/L	0.04	0.16
9/5/2012 9:55	Field Blank	Metals	Iron	30	U	ug/L	30	120
9/5/2012 9:55	Field Blank	Metals	Nickel	0.25	U	ug/L	0.25	1
9/5/2012 9:55	Field Blank	Metals	Chromium	0.3	U	ug/L	0.3	1.2
9/5/2012 9:55	Field Blank	Metals	Lead	0.2	U	ug/L	0.2	0.8
9/5/2012 9:55	Field Blank	Metals	Arsenic	0.25	U	ug/L	0.25	1
9/5/2012 9:55	Field Blank	Metals	Silver	0.025	U	ug/L	0.025	0.1
9/5/2012 9:55	Field Blank	Metals	Aluminum	5	U	ug/L	5	20
9/5/2012 9:55	Field Blank	Metals	Cadmium	0.05	U	ug/L	0.05	0.2
9/5/2012 9:55	Field Blank	Metals	Copper	0.5	U	ug/L	0.5	1
9/5/2012 9:55	Field Blank	Nutrients	Fluoride	0.035	U	mg F/L	0.035	0.1
9/5/2012 9:55	Field Blank	Nutrients	O-Phosphate-P	0.004	U	mg P/L	0.004	0.01
9/5/2012 9:55	Field Blank	Nutrients	Chloride	0.2	U	mg Cl/L	0.2	0.5
9/5/2012 9:55	Field Blank	Nutrients	Sulfate	0.2	U	mg SO4/L	0.2	0.5
9/5/2012 9:55	Field Blank	Nutrients	Kjeldahl Nitrogen	0.08	U	mg N/L	0.08	0.2
9/5/2012 9:55	Field Blank	Nutrients	Total-P	0.004	U	mg P/L	0.004	0.01
9/5/2012 9:55	Field Blank	Nutrients	Ammonia-N	0.01	U	mg N/L	0.01	0.02
9/5/2012 9:55	Field Blank	Nutrients	NO2NO3-N	0.004	U	mg N/L	0.004	0.01
9/5/2012 9:55	Field Blank	Overflow	Radium 226	0.2	U	pCi/L		

Date_Sampled	UDL	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
9/5/2012 9:55	Field Blank	Overflow	Radium 228	0.8	U	pCi/L		
9/5/2012 9:55	Field Blank	Overflow	Radium 228-Counting Error	0.5		pCi/L		
9/5/2012 9:55	Field Blank	Overflow	Oil and Grease	0.71	U	mg/L	0.71	2.5
9/5/2012 9:55	Field Blank	Overflow	Alpha-Counting Error	0.4		pCi/L		
9/5/2012 9:55	Field Blank	Overflow	Alpha, Total	0.5	U	pCi/L		
9/5/2012 9:55	Field Blank	Overflow	Radium 226-Counting Error	0.1		pCi/L		
9/5/2012 9:55	Field Blank	Pesticides	Chlorpyrifos Ethyl	0.047	U	ug/L	0.047	0.19
9/5/2012 9:55	Field Blank	Pesticides	Azinphos Methyl	0.094	U	ug/L	0.094	0.38
9/5/2012 9:55	Field Blank	Pesticides	Parathion Methyl	0.047	U	ug/L	0.047	0.19
9/5/2012 9:55	Field Blank	Pesticides	Metalaxyl	0.19	U	ug/L	0.19	0.75
9/5/2012 9:55	Field Blank	Pesticides	Naled	0.19	U	ug/L	0.19	0.75
9/5/2012 9:55	Field Blank	Pesticides	Mevinphos	0.047	U	ug/L	0.047	0.19
9/5/2012 9:55	Field Blank	Pesticides	Bromacil	0.19	U	ug/L	0.19	0.75
9/5/2012 9:55	Field Blank	Pesticides	Atrazine	0.047	U	ug/L	0.047	0.19
9/5/2012 9:55	Field Blank	Pesticides	Hexazinone	0.14	U	ug/L	0.14	0.57
9/5/2012 9:55	Field Blank	Pesticides	Ethion	0.047	U	ug/L	0.047	0.19
9/5/2012 9:55	Field Blank	Pesticides	Ethoprop	0.024	U	ug/L	0.024	0.094
9/5/2012 9:55	Field Blank	Pesticides	Ametryn	0.047	U	ug/L	0.047	0.19
9/5/2012 9:55	Field Blank	Pesticides	Phorate	0.024	U	ug/L	0.024	0.094
9/5/2012 9:55	Field Blank	Pesticides	Fenamiphos	0.14	U	ug/L	0.14	0.57
9/5/2012 9:55	Field Blank	Pesticides	Butylate	0.094	U	ug/L	0.094	0.38
9/5/2012 9:55	Field Blank	Pesticides	Simazine	0.047	U	ug/L	0.047	0.19
9/5/2012 9:55	Field Blank	Pesticides	Chlorpyrifos Methyl	0.047	U	ug/L	0.047	0.19
9/5/2012 9:55	Field Blank	Pesticides	Alachlor	0.28	U	ug/L	0.28	1.1
9/5/2012 9:55	Field Blank	Pesticides	Prometryn	0.094	U	ug/L	0.094	0.38
9/5/2012 9:55	Field Blank	Pesticides	Norflurazon	0.14	U	ug/L	0.14	0.57
9/5/2012 9:55	Field Blank	Pesticides	Malathion	0.047	U	ug/L	0.047	0.19
9/5/2012 9:55	Field Blank	Pesticides	Parathion Ethyl	0.094	U	ug/L	0.094	0.38
9/5/2012 9:55	Field Blank	Pesticides	Metribuzin	0.094	U	ug/L	0.094	0.38
9/5/2012 9:55	Field Blank	Pesticides	Metolachlor	0.28	U	ug/L	0.28	1.1
9/5/2012 9:55	Field Blank	Pesticides	Fonofos	0.047	U	ug/L	0.047	0.19
9/5/2012 9:55	Field Blank	Pesticides	Diazinon	0.047	U	ug/L	0.047	0.19
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	2,4-Dinitrotoluene	0.98	U	ug/L	0.98	3.9
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	2,6-Dinitrotoluene	0.98	U	ug/L	0.98	3.9
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Di-n-octyl phthalate	0.98	U	ug/L	0.98	3.9
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Hexachlorocyclopentadiene	2.9	U	ug/L	2.9	12

Date_Sampled	UDL	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	2	U	ug/L	2	7.8
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Phenol	0.98	U	ug/L	0.98	3.9
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	2,4-Dichlorophenol	0.98	U	ug/L	0.98	3.9
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	2-Chlorophenol	0.98	U	ug/L	0.98	3.9
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Anthracene	0.2	U	ug/L	0.2	0.78
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Benzo(a)anthracene	0.2	U	ug/L	0.2	0.78
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.98	U	ug/L	0.98	3.9
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.98	U	ug/L	0.98	3.9
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	2,4-Dimethylphenol	9.8	U	ug/L	9.8	39
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Chrysene	0.2	U	ug/L	0.2	0.78
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Diethyl phthalate	0.98	U	ug/L	0.98	3.9
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Fluorene	0.2	U	ug/L	0.2	0.78
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Hexachlorobutadiene	2.9	U	ug/L	2.9	12
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Isophorone	0.98	U	ug/L	0.98	3.9
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Benzidine	98	U	ug/L	98	390
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	2.9	U	ug/L	2.9	12
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Hexachloroethane	2.9	U	ug/L	2.9	12
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Nitrobenzene	2	U	ug/L	2	7.8
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Pentachlorophenol	2.9	U	ug/L	2.9	12
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	2-Chloronaphthalene	0.98	U	ug/L	0.98	3.9
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	2,4-Dinitrophenol	15	U	ug/L	15	59
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.98	U	ug/L	0.98	3.9
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	2	U	ug/L	2	7.8
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	4-Nitrophenol	15	U	ug/L	15	59
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Acenaphthylene	0.2	U	ug/L	0.2	0.78
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	2.9	U	ug/L	2.9	12
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Phenanthrene	0.2	U	ug/L	0.2	0.78
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	3,3'-Dichlorobenzidine	39	U	ug/L	39	160
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Benzo(b)fluoranthene	0.2	U	ug/L	0.2	0.78
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.98	U	ug/L	0.98	3.9
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	15	U	ug/L	15	59
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Di-n-butyl phthalate	4.9	U	ug/L	4.9	20
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Fluoranthene	0.2	U	ug/L	0.2	0.78
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.2	U	ug/L	0.2	0.78
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Dimethyl phthalate	9.8	U	ug/L	9.8	39
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.98	U	ug/L	0.98	3.9

Date_Sampled	UDL	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	2.9	U	ug/L	2.9	12
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.98	U	ug/L	0.98	3.9
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Benzo(a)pyrene	0.2	U	ug/L	0.2	0.78
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Butyl benzyl phthalate	4.9	U	ug/L	4.9	20
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	N-Nitrosodimethylamine	2	U	ug/L	2	7.8
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Naphthalene	0.2	U	ug/L	0.2	0.78
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	2-Nitrophenol	0.98	U	ug/L	0.98	3.9
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Acenaphthene	0.2	U	ug/L	0.2	0.78
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.2	U	ug/L	0.2	0.78
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Benzo(k)fluoranthene	0.2	U	ug/L	0.2	0.78
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Hexachlorobenzene	0.98	U	ug/L	0.98	3.9
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.2	U	ug/L	0.2	0.78
9/5/2012 9:55	Field Blank	Priority Organic Pollutants	Pyrene	0.2	U	ug/L	0.2	0.78

Appendix C. Facility Summary, Effluent Limits, and Permit Violations Recorded on Discharge Monitoring Report

State of Florida
Department of Environmental Protection
Facility Introduction & Summary

PART I: Information gathered prior to sampling event	
Prepared By: Jacki Champion	Contact Number: 813-632-7600 X133
Facility Name (as it appears on permit): Mosaic Fertilizer, L.L.C.-Fort Lonesome Mine	Former Names: IMC Phosphates-Fort Lonesome Mine
NPDES Permit Number: FL0033332	Permit Expiration Date: 4/17/13
Physical Address: 14305 Lonesome Mine Road, Lithia, FL 33547	
District: BMMR-PM located in SW	County: Hillsborough
Function of Facility: Mining and washing of phosphate ore	
Facility Type: Phosphate Mine	Permitted Capacity (MGD):
Mean Flow for previous 12 months for all EXTERNAL outfalls listed in permit (list date range including months):9/11-8/12 D-003=0.20 MGD, D-002=0 MGD	
If applicable, Mean Flow for previous 12 months for REUSE outfall(s) (list date range including months):	
Description of type of Discharge: ☐ Continuous ☐ Intermittent ☐ Seasonal ☒ Rainfall Dependent ☐ Other, please specify	
Description of Sampling Location(s) - actual permit designation of permitted sampling point(s): EFF-002, EFF-003, EFF-006	
Description of Permitted Outfall(s): D-002 is a 10 foot wide rectangular weir D-003 is a 12 foot wide rectangular weir D-006 is a pipeline	
Description of Treatment Process (if multiple discharge points, include a detailed map or diagram of facility): Settling of solids in clay settling areas.	

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PART I: Continued										
List <u>current</u> Effluent Limits of Outfall(s) to be Sampled: This should include any AO or CO limits the facility may be under (Leave cell blank if not applicable)										
			Effluent Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes

A. Surface Water Discharges

1. a. During the period beginning on the effective date and lasting through the expiration date of this permit, the permittee is authorized to discharge from Outfalls D-002 and D-003 (See **Attachment A**) wastewater as described above. The discharge shall not exceed the effluent limitations and shall be limited and monitored by the permittee as specified below. The sample shall be taken at the point nearest the discharge prior to mixing with the receiving water body.

PARAMETERS (UNITS)	DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS		
	Daily Minimum	Monthly Average	Daily Maximum	Monitoring Frequency	Sample Type	Sample Point
Flow (MGD)	N/A	Report	Report	Continuous	Recorder	EFF-002 EFF-003
pH (standard units) (See Condition I.A.2.)	6.0	Report	8.5	1/Week	Grab	EFF-002 EFF-003
Turbidity (NTUs)	N/A	Report	See Condition I.A.12.	1/Week	Grab	EFF-002 EFF-003
Solids, Total Suspended (TSS) (mg/l)	N/A	30.0	60.0	1/Week	Grab	EFF-002 EFF-003
Solids, Fixed (FS) (mg/l) *	N/A	12.0	25.0	1/Week	Grab	EFF-002 EFF-003
Phosphorus, Total (as P) (mg/l)	N/A	3.0 **	5.0	1/Week	Grab	EFF-002 EFF-003
Phosphorus, Total (as P) (lbs/day)	N/A	Report †	Report †	1/Week	Calculated	EFF-002 EFF-003
$NO_2 + NO_3$ (as N) (mg/l)	N/A	N/A	Report	1/Month	Grab	EFF-002 EFF-003
Specific Conductance (µmhos/cm)	N/A	N/A	See Condition I.A.3.	1/Month	Grab	EFF-002 EFF-003
Oxygen, Dissolved (DO) (mg/l) (See Condition I.A.6.)	5.0	N/A	N/A	1/Month	Grab	EFF-002 EFF-003
Temperature (°C)	N/A	N/A	Report	1/Month	Grab	EFF-002 EFF-003
						EFF-002

Temperature (°C)	N/A	N/A	Report	1/Month	Grab	EFF-003
Nitrogen, Total (as N) (mg/l)	N/A	N/A	3.0 ***	1/Month	Grab	EFF-002 EFF-003
Nitrogen, Total (as N) (lbs/day)	N/A	N/A	Report †	1/Month	Calculated	EFF-002 EFF-003
Sulfate, Total (as SO_4) (mg/l)	N/A	N/A	Report	1/Quarter	Grab	EFF-002 EFF-003

Chlorophyll a (µg/l)	N/A	N/A	Report	1/Quarter	Grab	EFF-002 EFF-003
Fluoride, Total (as F) (mg/l)	N/A	N/A	10.0	1/Quarter	Grab	EFF-002 EFF-003
Phosphorus, Total (as P) (lbs/year)	N/A	N/A	Report † [Annual Total]	Annually	Calculated	EFF-002 EFF-003
Nitrogen, Total (as N) (lbs/year)	N/A	N/A	Report † [Annual Total]	Annually	Calculated	EFF-002 EFF-003
Whole Effluent Toxicity – Chronic	See Permit Conditions I.A.4.					

PART I: Continued

Receiving Waters: Hurrah Creek (D-003)	Classification (indicate whether fresh or marine): Class III Fresh Waters

Toxicity Test Requirements (routine and/or additional test language, test species, salinity adjustment, etc.): Annual fresh water definitive chronic testing is required at D-002 and D-003

Administrative or Consent Orders (date executed, specific requirements, interim limit dates-if applicable, etc.): None

Facility Mixing Zone Details (if applicable): None

List Permit Violations (DMR data) and plant upsets that occurred at the plant within the last year: None

Date	Parameter and Units	Limit	Result

Describe previous FYI and WQBEL study:

Describe previous or current Enforcement Actions (including WLs):
None

Describe any violations or problems noted in previous inspection:
None

Discuss whether DMR trends within previous five years are improving or declining:

Additional Comments (this should include a trend of the Effluent, i.e. if the facility is now Reuse):

PART II: Sampling Event Information

Date(s) sample collected: 9/5/12	Sampler(s): Jacki Champion, Melani Dickenson
Temperature (Deg C): 29.40	pH (SU): 7.88
Dissolved Oxygen (mg/L): 5.95	Conductivity (umhos/cm): 394
Total Residual Chlorine (mg/L): NA	Total Residual Chlorine - after Disinfection (mg/L): NA

Method of Chlorination: NA	**Method of De-chlorination: NA**
Flow During Sample Collection for each outfall(MGD): 10.2 MGD	
Mean Flow for each outfall for previous 12 months based on sampling date (If samples are taken on more than one day, indicate Mean Flow for each day): 9/11-8/12 0.20 MGD	
Describe Discharge during Sampling Event: ☐ **Continuous** ☐ **Intermittent** ☐ **Seasonal** ☒ **Rainfall Dependent** ☐ **Other, please specify**	
Describe any conditions, difficulties or abnormal events that occurred during the sample collection and any other additional comments here: Only Outfall D-003 was discharging and sampled.	

Appendix D. EPA End Sheet

The Priority Pollutants Analysis of Mosaic Fertilizer, L.L.C. - Lonesome Mine effluent sampled on September 5, 2012. NPDES #FL0033332.

Fill Out This Section For All Surface Water Discharger Inspections(CEI, CSI, CBI, PAI, XSI-RI Optional)

Transaction Code	NPDES NUMBER	YR/MO/DA	Insp Type	Inspector	Fac Type
1 N 2 5	3 F L 0 0 3 3 3 3 2 11	12 1 2 0 9 0 5	18 X	19 S	20 2

Remarks

66

Biological Analyses of Mosaic Fertilizer, L.L.C. - Lonesome Mine effluent sampled on September 5, 2012. NPDES #FL0033332.

Fill Out This Section For All Surface Water Discharger Inspections(CEI, CSI, CBI, PAI, XSI-RI Optional)

Transaction Code	NPDES NUMBER	YR/MO/DA	Insp Type	Inspector	Fac Type
1 N 2 5	3 F L 0 0 3 3 3 3 2 11	12 1 2 0 9 0 5	18 S	19 S	20 2

Remarks

66