



# Final Analytical Report

CF Environmental Laboratory, LLC  
 3711 Vanguard Drive Suite D  
 Fort Wayne, IN 46809

**Customer:** Girod Farms  
 Dan Girod  
 6615 N. 400 W.  
 Decatur, IN 46733

**Report Date:** 10/17/2024

**Date Received:** 9/25/2024  
**Time Received:** 12:35 PM

**Laboratory ID:** A2410718  
**Project:** Sat-light Lagoon  
**Sample Location:** Sat-light Lagoon

**Sampler:** DG  
**Date Sampled:** 9/25/2024  
**Time Sampled:** 11:30 AM

Parameter	Wet Weight Basis			Dry Weight Basis		Table 1	Table 3	Loading Rate		Analyst	Analysis Date	Method Reference
	Result	Units	LOQ	Result	Units	mg/kg	mg/kg	lbs/Wet Ton	lbs/Dry Ton			
Mercury, Total	0.0005	mg/kg	0.0002	0.00684	mg/kg	57	17	0.000001	0.000013	BP-Purves	10/16/24	SW846 7471A
Arsenic, Total	<0.140	mg/kg	0.140	<1.78	mg/kg	75	41	0.000280	0.003553	csf	09/27/24	SW846 6010D
Cadmium, Total	0.045	mg/kg	0.020	0.571	mg/kg	85	39	0.000090	0.001142	csf	09/27/24	SW846 6010D
Copper, Total	1.34	mg/kg	0.040	17	mg/kg	4300	1500	0.002680	0.034010	csf	09/27/24	SW846 6010D
Lead, Total	<0.100	mg/kg	0.100	<1.27	mg/kg	840	300	0.000200	0.002538	csf	09/27/24	SW846 6010D
Selenium, Total	<0.040	mg/kg	0.040	<0.508	mg/kg	100	100	0.000080	0.001015	csf	09/27/24	SW846 6010D
Zinc, Total	9.14	mg/kg	0.060	116	mg/kg	7500	2800	0.018280	0.231980	csf	09/27/24	SW846 6010D
Nickel, Total	1.80	mg/kg	0.200	22.8	mg/kg	420	420	0.003600	0.045685	csf	09/27/24	SW846 6010D
Molybdenum, Total	0.241	mg/kg	0.200	3.06	mg/kg	75		0.000482	0.006117	csf	09/27/24	SW846 6010D
Potassium, Total	2963	mg/kg	200	3.76	%			5.468000	69.390863	csf	09/27/24	EPA 200.7
K2O	3569	mg/kg	241	4.53	%			7.138000	90.583756	csf	09/27/24	Calculated
Phosphorus, Total	2734	mg/kg	60.0	3.47	%			5.468000	69.390863	csf	09/27/24	EPA 200.7
P2O5, Total	6265	mg/kg	137	7.95	%			0.001108	0.014061	csf	09/27/24	Calculated
Ammonia as N, Total	614	mg/kg	56.3	0.779	%			1.22800	15.583756	jl	09/28/24	SM4500-NH3 B+D
Nitrate as N	<1.99	mg/kg	1.99	<0.002	%			0.003980	0.050508	ams	09/30/24	EPA 353.2
Nitrogen, Total Kjeldahl	3155	mg/kg	250	4.00	%			6.31000	80.076142	ams	10/04/24	EPA 351.2 rev 2
Nitrogen, Total	3157	mg/kg	252	4.01	%			6.31400	80.126904	kmh	10/17/24	Calculated
Moisture, Percent	92.12	%	0.1							ams	09/26/24	SM2540 G (2017)
Solids, Total (%)	7.88	%	0.1	100	%			157.6	2000	ams	09/26/24	SM2540 G (2017)
PAN - Aerobic									lbs PAN/Dry Ton	kmh	10/16/24	Calculated
PAN - Anaerobic									lbs PAN/Dry Ton	kmh	10/16/24	Calculated

The reported results relate only to the samples as they have been received by the laboratory. The analytical methods used conform to the current version of 40 CFR part 136.3 unless otherwise noted. All Standard Methods for the Examination of Water and Wastewater test procedures, are performed in accordance with the 22nd edition (2012). Upon receipt at the laboratory, all samples were stored at 6°C or below.

"<" = analyzed for but not detected at or above the reported limit  
 "N" = see case narrative  
 "Alloway" = subcontract laboratory

"LOQ" = Limit of Quantification  
 BDL = Below Detection Limit  
 Table 1 & 3 : mg/kg Dry Weight Basis

Approved By:   
 Cindi Fuhrman, General Manager

# Purves Environmental, Inc.

Mercury Analysis

Analytical Report  
EPA Method 245.1/7471A

Report #: 241016-01 CF ENV 245.1 Sludge

Page 1 of 1

Customer Name:

CF Environmental Labs  
1314 Meyer Road  
Fort Wayne, IN 46803

10/16/24

Attention:

Project/PO#

cfe01

Lab / (Field ID) or (Customer ID)	Results mg/Kg	Results mg/Kg	Results ug/L	Results ug/L	Purves Env ID
Girod Farms - Sat-Light Lagoon	0.000539	As received			241015-01
		0.00684	Dry Weight Basis		
Sample Type	Sludge				
Date Sampled:	09/25/24				
Date Received:	10/15/24				
Date Prepared:	10/15/24				
Date Analyzed:	10/16/24				
Time Analyzed	8:11:31 AM				
Dilution Factor					
High Cal Range Used 1-1000 ng/L					QCS/MS/MSD
Method Detection Limit	0.1ug/L				Acceptable Range
QCS (Quality Control Standard)	102%				71-125%
Method Blank Result	<0.1 ug/L	Method Blank Requirement			<0.2

**M= Modified: See Below for Explanation**

Dilution Factors are calculated into the results.

**Method Reporting Limit**

0.19ug/L

RPD Acceptable Range <20%

Matrix Spike/ Matrix Spike Duplicate Recoveries

MS/MSD Acceptable Range

71-125%

**Sample ID**

**MS %Recovery**

**MSD %Recovery**

**RPD**

%TS provided by CF ENV

%TS 7.88%

Normal Calibration range 0.5-100ng/L

The results are related only to the samples presented on this report.

The test results are certified to meet all requirements of the certifying authority

West Virginia Cert # 348

Other Codes

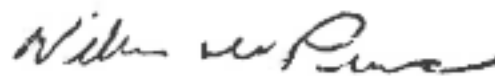
J\* = Estimated result ,

\* A value found between the Reporting Limit and the Method Detection Limit is considered estimated or the sample was not received in proper condition as required by the method.

R\* = Rejected, Sample may not have met Method or sampling requirements.

CLYM

William W. Purves



Rev 4 6/23/11

Phone: 330-687-3360

77 Maple Dr. Hudson, OH 44236



Company Name: **Girod Farms SAT-light Lagoon**  
**DAN GIROD**  
 Contact: **DAN GIROD @ Ben Biew**  
 Address: **6615N 400W**  
**Decatur IN 46733**  
 Phone: **260 433-5162**  
 Fax: **ben@girodfarms.com**  
 Email: **dan@girodfarms.com**

PO Number: \_\_\_\_\_ Project Name: \_\_\_\_\_  
 PWSID Number: \_\_\_\_\_  
 Quote Number: \_\_\_\_\_ Samplers Signature: *Dan Girod*  
 Standard Turn Time  Rush   
 Standard turn time is normally 6-10 business days  
 Preservatives: None, HNO<sub>3</sub> (nitric acid), HCl (hydrochloric acid)  
 H<sub>2</sub>SO<sub>4</sub> (sulfuric acid), NaT (sodium thiosulfate), ZnOAc (zinc acetate)  
 NaOH (sodium hydroxide)

**Sample Matrix Codes**  
 AQ = Aqueous      GW = Ground Water  
 DI = Deionized Water      O = Oil  
 DW = Drinking Water      L = Liquid (non-aqueous)  
 S = Solid      RGW = reagent grade water  
 SL = Sludge      SW = Storm Water  
 WW = Wastewater  
 SO = Soil

If billing address is different please list in comments section  
 Prior approval from the lab is needed for Rush analysis

Container Type: P=plastic, G=glass, V=vial, O=other **A2110718**

COLLECTION		SAMPLE LOCATION DESCRIPTION	SAMPLE PRESERVATIVE	SAMPLE TYPE			CONTAINER		ANALYTICAL TESTS REQUESTED	CF Environmental workorder number
DATE	TIME			Grab	Comp	Matrix	Type	Quantity		
9-25	1:30	SAT-light Lagoon 7427N 400W	None	X		SL	P	1	Nutrients, 503 Metals, O&TS	-01A
	1:30									
	KH 9/25									

Relinquished by (signature)	DATE	TIME	Received by (signature)	DATE	TIME	Received at lab on ice?    Yes <input checked="" type="radio"/> No	Field Data:
<i>Dan Girod</i>	9-25	12:35	<i>Ben Biew</i>	9/25/24	1235		
Relinquished by (signature)	DATE	TIME	Received by (signature)	DATE	TIME	Temperature Upon Receipt at lab: <b>22.3 °C</b>	temp:      C
Relinquished by (signature)	DATE	TIME	Received by (signature)	DATE	TIME	Delivery Method:    UPS <b>FED-EX</b> CF ENV USPS <b>Walk-in</b> Other	

COMMENTS: