

Invoice

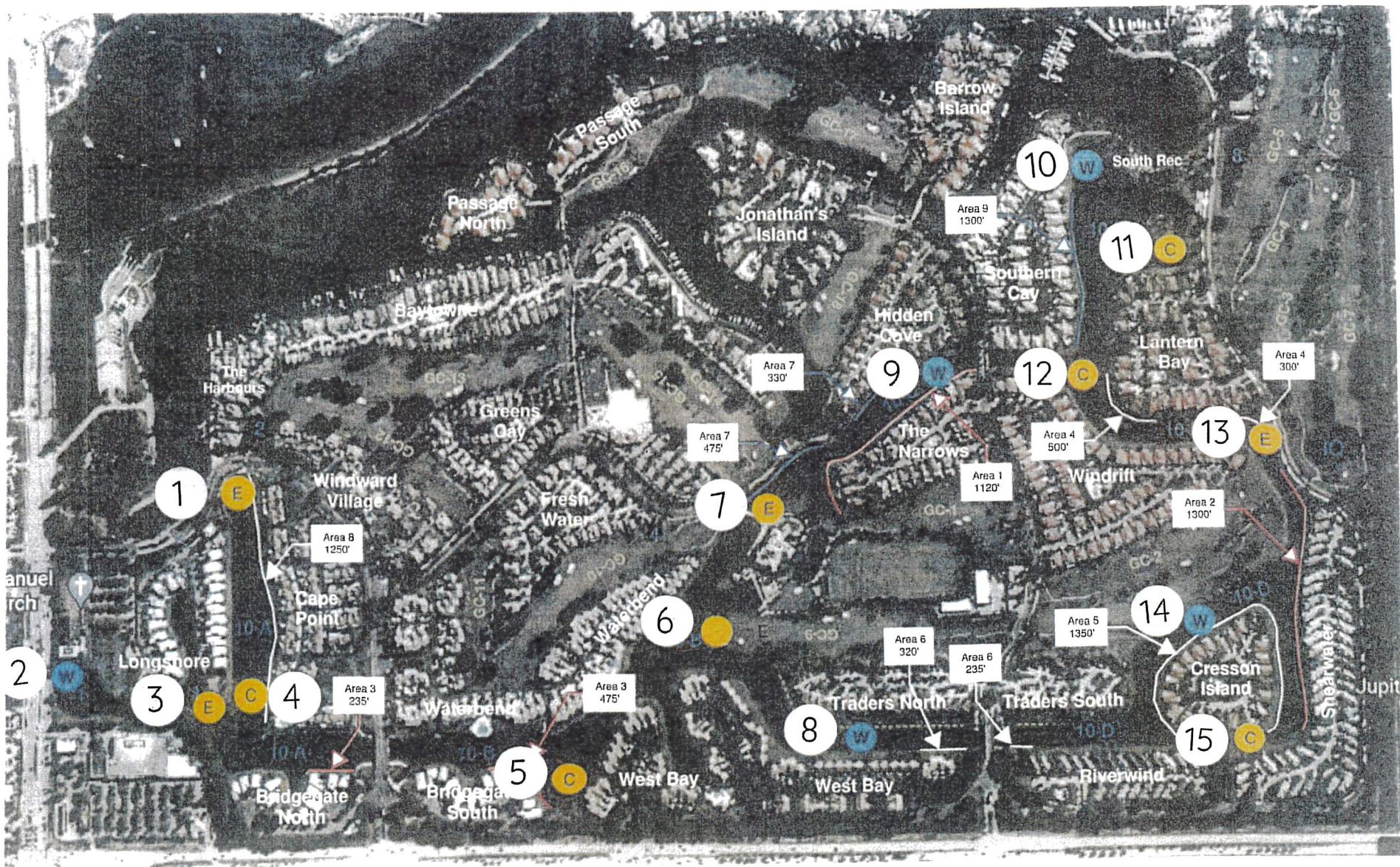
Date 1/23/2023

Elroy Timmer
482 SW Deer Run
Port Saint Lucie, FL 34953

To Jonathan's Landing, Jupiter FL
Contact
Luke Jones

Item

Collect water samples
Have evaluated by Jupiter Environmental Laboratories
Analysis of samples



Tabulation of the Analitical Results of Jonathan's Landing

	A	B	C	D	E	F	G	H	I
1	Sample	Copper in water	Copper	in	Water	Copper in soil	Percent dryweight	PQL	MDL
2	No.	dissolved or total	ug/L	%	ppm	mg/Kg	(solids)		
3	1a	Copper	150	0.00015	15			2.0	0.14
4	1b					43	66.7	1.2	1.25
5	2	Copper	11	0.0000011	0.011			2.0	0.14
6	3					410	31.4	2.6	0.52
7	4					19	72.4	1.1	0.23
8	5					5.3	38.6	2.1	0.42
9	6					100	33.6	2.4	0.49
10	7					48	54.0	0.1	0.3
11	8a	Copper	10	0.000001	0.01			2.0	0.14
12	8b	Dissolved copper	8.5	0.00000085	0.0085			2.0	0.14
13	9a	Copper	11	0.0000011	0.011			2.0	0.14
14	9b	Dissolved copper	9.2	0.00000092	0.0092			2.0	0.14
15	10a	Copper	11	0.0000011	0.011			2.0	0.14
16	10b	Dissolved copper	10	0.000001	0.01			2.0	0.14
17	11					5.8	72.4	1.1	0.23
18	12					39	68.7	1.2	0.24
19	13					33	71.5	1.1	0.23
20	14a	Copper	13	0.0000013	0.013			2.0	0.14
21	14b	Dissolved copper	9.9	0.0000009	0.009			2.0	0.14
22	15					2.5	76.6	1.1	0.21
23	Total					705.6	585.9		
24	Ave					70.56 mg	58.6		
25	Ave					0.000071 Kg			
26									
27	1. (PQL) Practical Quantitation Limit means the lowest constituent concentration								
28	at which a numerical concentration can be assigned with reasonable certainty.								
29									
30	2. (MDL) The method detection limit								
31									
32	3. (mg/Kg) = 1 part per billion ppb								
33									
34	4. ug/L = micrograms/liter or 1 ug/L = 0.001 ppm; 1 ppm = 1000 ug/L								

Analysis of Jonathan's Landing Copper Test Results

Soil and water samples analyzed by
Jupiter Environmental Laboratories

Four different types of samples were analyzed.

1. Water – unfiltered. This would include copper particles that were **both dissolved and undissolved**, labeled as **Copper** (2, 8a, 9a, 10a, and 14a).
2. Water – filtered. The water was filtered of most of the particulate matter and tested for **dissolved copper only**. This was labeled as **dissolved copper**. (8b, 9b, 10b, and 14b).
3. Water that was filtered from soil with a coffee strainer that obviously did not get all the mud out because the sample was still dark in color. This was sample **1a**.
4. Copper in Soil. All samples were all **subjected to acid to dissolve and extract both dissolved and solidified copper**.

Sample **1a** was described in No. 3 and was not indicative of the other water samples. The water contained both dissolved and undissolved copper. Since it had substantial organic or mud in the sample it should be disregarded and has little test value.

Water – unfiltered. Five water samples **2, 8a, 9a, 10a, and 14a** labeled as copper were unfiltered and contained both dissolved and undissolved copper and thus were slightly higher than all samples that were filtered.

Water – filtered. Four water samples (**8b, 9b, 10b, and 14b**) had the particulate copper filtered out, labeled as dissolved copper were lower than the unfiltered water and is what would be expected.

All water samples contained **very low levels of copper**. The tabulation included ug/L, %, and ppm. Some measurements might be more familiar than others. Regardless, ug/L (micrograms per liter) is very small. A microgram is one millionth of a gram per 1 liter of water.

Copper in soil. All 10 soil samples (1b, 3, 4, 5, 6, 7, 11, 12, 13, and 15) are anticipated to be higher because **copper precipitates as an insoluble form (copper carbonate)** which

stays inactive unless re-dissolved with acid. Even in its inactive form it can again become active if it is eaten by an animal with acid in its stomach to reactivate it. **Almost all Florida soils contain high levels of calcium carbonate which reacts with copper to form copper carbonate.** These results were considerable higher but still very low when one considers it is expressed at 1000ths of a gram per Kilogram.

Copper

Copper is not ideal herbicide because it stays in the lake. It precipitates as an inactive, insoluble form that does not affect the plants and animals that survive in the soil. EPA has considered restricting copper but the consequences of not managing plants economically and adequately is one reason it prohibited that action. Since it also forms an insoluble form of copper, is another reason it has not been prohibited. A little copper is essential and a trace mineral necessary for survival. It is found in all body tissues and plays a role in making red blood cells and maintaining nerve cells and the immune system.

It also helps the body form collagen and absorbs iron, and plays a role in energy production. Most copper in the body is found in the liver, brain, heart, kidneys, and skeletal muscle.

Copper carbonate is a **water-insoluble** chemical compound. It can be converted into other copper compounds. It is commonly used to develop compounds for the treatment of timber. Copper carbonate is commercially used for veterinary applications. While high concentration can be toxic to humans, in minimal quantities, it is used in cosmetics. From the food industry to pharmaceutical products, copper carbonate is used in a wide variety of applications.

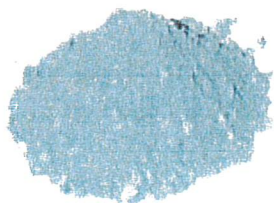


Photo of copper carbonate

Lyngbya

The alga that is in your waterways is called Lyngbya. It has a gel or slime sheath that protects it from herbicides. It is even somewhat resistant to copper but without copper it is almost impossible to control.

Lake Bottom

The bottom of the lake contained sand with very little organic material in it. As long as I have evaluated lakes (since 1960), I have never seen a lake as old as yours with so little organic material in it. I was a diver for USDA, ARS, Aquatic Weed Control for 14 years and in the aquatic plant management business for a total of 60 years and have seen my share of lake bottoms. The aeration system and the associated bottom oxygen have maintained a healthy probiotic bacteria population digesting the muck and organics on the bottom. The only organic material was along the shore was not substantial. Bio-Zyme may also have responsible for utilizing the muck. It is also evident that the copper carbonate did not substantially affect the action of the bacteria which is sensitive to active copper.

Probiotic Bacteria

Probiotic bacteria (Bio-Zyme) utilize the organic material in water in the presence of oxygen. The bacteria are eaten by protozoa and then by fish thereby converting the nutrients into fish rather than into plants. This helps the lake manager, resulting in fewer treatments per year.

Thank you

Elroy Timmer
Senior Scientist



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January 16, 2023

Elroy Timmer
 1860 W 10th St
 West Palm Beach, FL 33404

RE: LOG# 2383599
 Project ID: Elroy Trimmer

Dear Elroy Timmer:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, January 05, 2023. Results reported herein conform to the most current NELAC standards, where applicable, unless indicated by * in the body of the report. The enclosed Chain of Custody is a component of this package and should be retained with the package and incorporated therein.

Results for all solid matrices are reported in dry weight unless otherwise noted. Results for all liquid matrices are reported as received in the laboratory unless otherwise noted. Results relate only to the samples received. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

Samples are disposed of after 30 days of their receipt by the laboratory unless extended storage is requested in writing. The laboratory maintains the right to charge storage fees for archived samples. This report will be archived for 5 years after which time it will be destroyed without further notice, unless prior arrangements have been made.

Certain analyses are subcontracted to outside NELAC certified laboratories, please see the Project Summary section of this report for NELAC certification numbers of laboratories used. A Statement of Qualifiers is available upon request.

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

Sincerely,

Alex Garcia for
 Kacia Baldwin
 kaciab@jupiterlabs.com

Report ID: 2383599

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SAMPLE ANALYTE COUNT

Workorder: 2383599

Project ID: Elroy Trimmer

Lab ID	Sample ID	Method	Analytes Reported
2383599001	1	EPA 6020	1
		SM 2540G	1
2383599002	2	EPA 200.8 (Total)	1
2383599003	3	EPA 6020	1
		SM 2540G	1
2383599004	4	EPA 6020	1
		SM 2540G	1
2383599005	5	EPA 6020	1
		SM 2540G	1
2383599006	6	EPA 6020	1
		SM 2540G	1
2383599007	7	EPA 6020	1
		SM 2540G	1
2383599008	8	EPA 200.8 (Dissolved)	1
		EPA 200.8 (Total)	1
2383599009	9	EPA 200.8 (Dissolved)	1
		EPA 200.8 (Total)	1
2383599010	10	EPA 200.8 (Dissolved)	1
		EPA 200.8 (Total)	1
2383599011	11	EPA 6020	1
		SM 2540G	1
2383599012	12	EPA 6020	1
		SM 2540G	1
2383599013	13	EPA 6020	1
		SM 2540G	1
2383599014	14	EPA 200.8 (Dissolved)	1
		EPA 200.8 (Total)	1
2383599015	15	EPA 6020	1
		SM 2540G	1
2383599016	1	EPA 200.8 (Dissolved)	1

Report ID: 2383599

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SAMPLE SUMMARY

Workorder: 2383599
Project ID: Elroy Trimmer

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2383599001	1	Soil/Solid	1/4/2023 09:00	1/5/2023 10:38
2383599002	2	Aqueous Liquid	1/4/2023 10:00	1/5/2023 10:38
2383599003	3	Soil/Solid	1/4/2023 10:30	1/5/2023 10:38
2383599004	4	Soil/Solid	1/4/2023 11:00	1/5/2023 10:38
2383599005	5	Soil/Solid	1/4/2023 11:30	1/5/2023 10:38
2383599006	6	Soil/Solid	1/4/2023 12:00	1/5/2023 10:38
2383599007	7	Soil/Solid	1/4/2023 13:00	1/5/2023 10:38
2383599008	8	Aqueous Liquid	1/4/2023 13:30	1/5/2023 10:38
2383599009	9	Aqueous Liquid	1/4/2023 14:00	1/5/2023 10:38
2383599010	10	Aqueous Liquid	1/4/2023 14:30	1/5/2023 10:38
2383599011	11	Soil/Solid	1/4/2023 15:30	1/5/2023 10:38
2383599012	12	Soil/Solid	1/4/2023 16:00	1/5/2023 10:38
2383599013	13	Soil/Solid	1/4/2023 16:30	1/5/2023 10:38
2383599014	14	Aqueous Liquid	1/4/2023 17:00	1/5/2023 10:38
2383599015	15	Soil/Solid	1/4/2023 17:30	1/5/2023 10:38
2383599016	1	Aqueous Liquid	1/4/2023 09:00	1/5/2023 10:38

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ANALYTICAL RESULTS

Workorder: 2383599
 Project ID: Elroy Trimmer

Lab ID: 2383599001 Date Received: 1/5/2023 10:38 Matrix: Soil/Solid
 Sample ID: 1 Date Collected: 1/4/2023 09:00

Parameters	Results	Units	PQL	MDL	DF Prepared	By	Analyzed	By	Qual
Wet Chemistry									
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G				
Percent Solids (Dryweight)	66.7 %		0.1		1		1/9/2023 09:11	CT	
Analysis Desc: EPA 6020 Metals SCAN by ICP/MS (S)					Preparation Method: EPA 3050B (mod)				
					Analytical Method: EPA 6020				
Copper	43mg/Kg		1.2	0.25	2 1/11/2023 10:26	ECW	1/11/2023 15:27	JR	





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ANALYTICAL RESULTS

Workorder: 2383599
Project ID: Elroy Trimmer

Lab ID: 2383599002 Date Received: 1/5/2023 10:38 Matrix: Aqueous Liquid
Sample ID: 2 Date Collected: 1/4/2023 10:00

Parameters	Results	Units	PQL	MDL	DF Prepared	By	Analyzed	By	Qual
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Analysis Desc: EPA 200.8 Metals (W)					Preparation Method: EPA 200.2 mod.				
					Analytical Method: EPA 200.8 (Total)				
Copper	11 ug/L		2.0	0.14	4 1/6/2023 14:02	ECW	1/6/2023 15:24	JR	

Report ID: 2383599

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ANALYTICAL RESULTS

Workorder: 2383599
 Project ID: Elroy Trimmer

Lab ID: 2383599003 Date Received: 1/5/2023 10:38 Matrix: Soil/Solid
 Sample ID: 3 Date Collected: 1/4/2023 10:30

Parameters	Results Units	PQL	MDL	DF Prepared	By	Analyzed	By	Qual
Wet Chemistry								
Analysis Desc: 2540G Percent Solids (Dryweight)				Analytical Method: SM 2540G				
Percent Solids (Dryweight)	31.4 %	0.1		1		1/9/2023 09:15	CT	
Analysis Desc: EPA 6020 Metals SCAN by ICP/MS (S)				Preparation Method: EPA 3050B (mod)				
				Analytical Method: EPA 6020				
Copper	410 mg/Kg	2.6	0.52	2	1/11/2023 10:26	ECW 1/11/2023 15:44	JR	L1

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ANALYTICAL RESULTS

Workorder: 2383599
 Project ID: Elroy Trimmer

Lab ID: 2383599004 Date Received: 1/5/2023 10:38 Matrix: Soil/Solid
 Sample ID: 4 Date Collected: 1/4/2023 11:00

Parameters	Results	Units	PQL	MDL	DF Prepared	By	Analyzed	By	Qual
Wet Chemistry									
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G				
Percent Solids (Dryweight)	72.4 %		0.1		1		1/9/2023 09:23	CT	
Analysis Desc: EPA 6020 Metals SCAN by ICP/MS (S)					Preparation Method: EPA 3050B (mod)				
					Analytical Method: EPA 6020				
Copper	19 mg/Kg		1.1	0.23	2 1/11/2023 10:26	ECW	1/11/2023 15:48	JR	

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ANALYTICAL RESULTS

Workorder: 2383599
 Project ID: Elroy Trimmer

Lab ID: 2383599005 Date Received: 1/5/2023 10:38 Matrix: Soil/Solid
 Sample ID: 5 Date Collected: 1/4/2023 11:30

Parameters	Results	Units	PQL	MDL	DF Prepared	By	Analyzed	By	Qual
Wet Chemistry									
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G				
Percent Solids (Dryweight)	38.6%		0.1		1		1/9/2023 09:37	CT	
Analysis Desc: EPA 6020 Metals SCAN by ICP/MS (S)					Preparation Method: EPA 3050B (mod)				
					Analytical Method: EPA 6020				
Copper	5.3mg/Kg		2.1	0.42	2	1/11/2023 10:26	ECW	1/11/2023 15:53	JR

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ANALYTICAL RESULTS

Workorder: 2383599
 Project ID: Elroy Trimmer

Lab ID: 2383599006 Date Received: 1/5/2023 10:38 Matrix: Soil/Solid
 Sample ID: 6 Date Collected: 1/4/2023 12:00

Parameters	Results	Units	PQL	MDL	DF Prepared	By	Analyzed	By	Qual
Wet Chemistry									
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G				
Percent Solids (Dryweight)	33.6%		0.1		1		1/9/2023 09:42	CT	
Analysis Desc: EPA 6020 Metals SCAN by ICP/MS (S)					Preparation Method: EPA 3050B (mod)				
					Analytical Method: EPA 6020				
Copper	100mg/Kg		2.4	0.49	2	1/11/2023 10:26	ECW 1/11/2023 15:58	JR	

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ANALYTICAL RESULTS

Workorder: 2383599
 Project ID: Elroy Trimmer

Lab ID: 2383599007 Date Received: 1/5/2023 10:38 Matrix: Soil/Solid
 Sample ID: 7 Date Collected: 1/4/2023 13:00

Parameters	Results Units	PQL	MDL	DF Prepared	By	Analyzed	By	Qual
Wet Chemistry								
Analysis Desc: 2540G Percent Solids (Dryweight)				Analytical Method: SM 2540G				
Percent Solids (Dryweight)	54.0%	0.1		1		1/9/2023 09:55	CT	
Analysis Desc: EPA 6020 Metals SCAN by ICP/MS (S)				Preparation Method: EPA 3050B (mod)				
				Analytical Method: EPA 6020				
Copper	48mg/Kg	1.5	0.30	2	1/11/2023 10:26	ECW 1/11/2023 16:02	JR	

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ANALYTICAL RESULTS

Workorder: 2383599
 Project ID: Elroy Trimmer

Lab ID: 2383599008 Date Received: 1/5/2023 10:38 Matrix: Aqueous Liquid
 Sample ID: 8 Date Collected: 1/4/2023 13:30

Parameters	Results Units	PQL	MDL	DF Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 200.8 Metals (W)				Preparation Method: EPA 200.2 mod.				
				Analytical Method: EPA 200.8 (Total)				
Copper	10 ug/L	2.0	0.14	4	1/16/2023 12:53	ECW	1/16/2023 13:48	JR
Analysis Desc: EPA 200.8 Dissolved Metals (W)				Preparation Method: EPA 200.2 mod.				
				Analytical Method: EPA 200.8 (Dissolved)				
Copper	8.5 ug/L	2.0	0.14	4	1/16/2023 12:47	ECW	1/16/2023 13:38	JR

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ANALYTICAL RESULTS

Workorder: 2383599
 Project ID: Elroy Trimmer

Lab ID: 2383599009 Date Received: 1/5/2023 10:38 Matrix: Aqueous Liquid
 Sample ID: 9 Date Collected: 1/4/2023 14:00

Parameters	Results	Units	PQL	MDL	DF Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 200.8 Metals (W)					Preparation Method: EPA 200.2 mod.				
					Analytical Method: EPA 200.8 (Total)				
Copper	11	ug/L	2.0	0.14	4	1/16/2023 12:53	ECW	1/16/2023 13:57	JR
Analysis Desc: EPA 200.8 Dissolved Metals (W)					Preparation Method: EPA 200.2 mod.				
					Analytical Method: EPA 200.8 (Dissolved)				
Copper	9.2	ug/L	2.0	0.14	4	1/16/2023 12:47	ECW	1/16/2023 13:52	JR

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ANALYTICAL RESULTS

Workorder: 2383599
 Project ID: Elroy Trimmer

Lab ID: 2383599010 Date Received: 1/5/2023 10:38 Matrix: Aqueous Liquid
 Sample ID: 10 Date Collected: 1/4/2023 14:30

Parameters	Results	Units	PQL	MDL	DF Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 200.8 Metals (W)					Preparation Method: EPA 200.2 mod.				
					Analytical Method: EPA 200.8 (Total)				
Copper	11	ug/L	2.0	0.14	4	1/6/2023 14:02	ECW	1/6/2023 17:28	JR
Analysis Desc: EPA 200.8 Dissolved Metals (W)					Preparation Method: EPA 200.2 mod.				
					Analytical Method: EPA 200.8 (Dissolved)				
Copper	10	ug/L	2.0	0.14	4	1/10/2023 11:55	JR	1/11/2023 13:09	JR





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ANALYTICAL RESULTS

Workorder: 2383599
 Project ID: Elroy Trimmer

Lab ID: 2383599011 Date Received: 1/5/2023 10:38 Matrix: Soil/Solid
 Sample ID: 11 Date Collected: 1/4/2023 15:30

Parameters	Results Units	PQL	MDL	DF Prepared	By	Analyzed	By	Qual
Wet Chemistry								
Analysis Desc: 2540G Percent Solids (Dryweight)				Analytical Method: SM 2540G				
Percent Solids (Dryweight)	72.4 %	0.1		1		1/9/2023 09:59	CT	
Analysis Desc: EPA 6020 Metals SCAN by ICP/MS (S)				Preparation Method: EPA 3050B (mod)				
				Analytical Method: EPA 6020				
Copper	5.8 mg/Kg	1.1	0.23	2 1/11/2023 10:26	ECW	1/11/2023 16:06	JR	





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ANALYTICAL RESULTS

Workorder: 2383599
 Project ID: Elroy Trimmer

Lab ID: 2383599012 Date Received: 1/5/2023 10:38 Matrix: Soil/Solid
 Sample ID: 12 Date Collected: 1/4/2023 16:00

Parameters	Results Units	PQL	MDL	DF Prepared	By	Analyzed	By	Qual
Wet Chemistry								
Analysis Desc: 2540G Percent Solids (Dryweight)				Analytical Method: SM 2540G				
Percent Solids (Dryweight)	68.7 %	0.1		1		1/9/2023 10:07	CT	
Analysis Desc: EPA 6020 Metals SCAN by ICP/MS (S)				Preparation Method: EPA 3050B (mod)				
				Analytical Method: EPA 6020				
Copper	39 mg/Kg	1.2	0.24	2	1/11/2023 10:26	ECW 1/11/2023 16:11	JR	

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ANALYTICAL RESULTS

Workorder: 2383599
 Project ID: Elroy Trimmer

Lab ID: 2383599013 Date Received: 1/5/2023 10:38 Matrix: Soil/Solid
 Sample ID: 13 Date Collected: 1/4/2023 16:30

Parameters	Results Units	PQL	MDL	DF Prepared	By	Analyzed	By	Qual
Wet Chemistry								
Analysis Desc: 2540G Percent Solids (Dryweight)				Analytical Method: SM 2540G				
Percent Solids (Dryweight)	71.5%	0.1		1		1/9/2023 10:18	CT	
Analysis Desc: EPA 6020 Metals SCAN by ICP/MS (S)				Preparation Method: EPA 3050B (mod)				
				Analytical Method: EPA 6020				
Copper	33mg/Kg	1.1	0.23	2	1/11/2023 10:26	ECW 1/11/2023 16:29	JR	

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 150 S. Old Dixie Highway
 Jupiter, FL 33458
 Phone: (561)575-0030
 Fax: (561)575-4118

ANALYTICAL RESULTS

Workorder: 2383599
 Project ID: Elroy Trimmer

Lab ID: 2383599014 Date Received: 1/5/2023 10:38 Matrix: Aqueous Liquid
 Sample ID: 14 Date Collected: 1/4/2023 17:00

Parameters	Results	Units	PQL	MDL	DF Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 200.8 Metals (W)					Preparation Method: EPA 200.2 mod.				
					Analytical Method: EPA 200.8 (Total)				
Copper	13	ug/L	2.0	0.14	4 1/6/2023 14:02	ECW	1/6/2023 17:32	JR	
Analysis Desc: EPA 200.8 Dissolved Metals (W)					Preparation Method: EPA 200.2 mod.				
					Analytical Method: EPA 200.8 (Dissolved)				
Copper	9.9	ug/L	2.0	0.14	4 1/10/2023 11:55	JR	1/11/2023 13:19	JR	

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ANALYTICAL RESULTS

Workorder: 2383599
 Project ID: Elroy Trimmer

Lab ID: 2383599015 Date Received: 1/5/2023 10:38 Matrix: Soil/Solid
 Sample ID: 15 Date Collected: 1/4/2023 17:30

Parameters	Results	Units	PQL	MDL	DF Prepared	By	Analyzed	By	Qual
Wet Chemistry									
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G				
Percent Solids (Dryweight)	76.6%		0.1		1		1/9/2023 10:17	CT	
Analysis Desc: EPA 6020 Metals SCAN by ICP/MS (S)					Preparation Method: EPA 3050B (mod)				
					Analytical Method: EPA 6020				
Copper	2.5mg/Kg		1.1	0.21	2	1/11/2023 10:26	ECW 1/11/2023 16:33	JR	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 2383599

Project ID: Elroy Trimmer

PARAMETER QUALIFIERS

L1 Reported value is above the calibration range but is within the instrument LDR (Linear Dynamic Range).

PROJECT COMMENTS

2383599 A reported value of U indicates that the compound was analyzed for but not detected above the MDL. A value flagged with an "I" flag indicates that the reported value is between the laboratory method detection limit and the practical quantitation limit.



QUALITY CONTROL DATA

Workorder: 2383599
 Project ID: Elroy Trimmer

QC Batch:	MXX/14934		Analysis Method:	EPA 200.8 (Total)		
QC Batch Method:	EPA 200.2 mod.					
Associated Lab Samples:	2383571001	2383576001	2383597001	2383597002	2383598001	2383598002
	2383599002	2383599010	2383599014	2383602002	2383619001	2383620001

METHOD BLANK: 272637

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Copper	ug/L	U	0.034	

LABORATORY CONTROL SAMPLE & LCSD: 272638 272639

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Copper	ug/L	50	48	48	95.9	95.5	85-115	0	20	

MATRIX SPIKE SAMPLE: 272641 Original: 2383599002

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	11	50	57	91.9	70-130	

MATRIX SPIKE SAMPLE: 272643 Original: 2383620001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	5.7	50	50	89.2	70-130	

SAMPLE DUPLICATE: 272640 Original: 2383599002

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Copper	ug/L	11	9.8	11.5	20	



QUALITY CONTROL DATA

Workorder: 2383599

Project ID: Elroy Trimmer

SAMPLE DUPLICATE: 272642

Original: 2383620001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Copper	ug/L	5.7	5.8	1.74	20	





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QUALITY CONTROL DATA

Workorder: 2383599
 Project ID: Elroy Trimmer

QC Batch: MXX/14941 Analysis Method: EPA 200.8 (Dissolved)
 QC Batch Method: EPA 200.2 mod.
 Associated Lab Samples: 2383599010 2383599014 2383599016 2383635003 2383635004 2383645001

METHOD BLANK: 272826

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Copper	ug/L	U	0.034	

LABORATORY CONTROL SAMPLE & LCSD: 272827 272828

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Copper	ug/L	50	46	47	92.5	94.6	85-115	2.15	20	



QUALITY CONTROL DATA

Workorder: 2383599
 Project ID: Elroy Trimmer

QC Batch:	MXX/14945	Analysis Method:		EPA 6020		
QC Batch Method:	EPA 3050B (mod)					
Associated Lab Samples:	2383558090	2383599001	2383599003	2383599004	2383599005	2383599006
	2383599007	2383599011	2383599012	2383599013	2383599015	2383621129
	2383688001					

METHOD BLANK: 272957

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Copper	mg/Kg	U	0.082	

LABORATORY CONTROL SAMPLE & LCSD: 272958 272959

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Copper	mg/Kg	10	9.4	9.5	94.2	95	80-120	1.06	20	

MATRIX SPIKE SAMPLE: 272961 Original: 2383595024

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Copper	mg/Kg	1.5	20	17	79	75-125	

SAMPLE DUPLICATE: 272960 Original: 2383595024

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Copper	mg/Kg	1.5	1.7	6.9	20	





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QUALITY CONTROL DATA

Workorder: 2383599
 Project ID: Elroy Trimmer

QC Batch: MXX/14960 Analysis Method: EPA 200.8 (Dissolved)
 QC Batch Method: EPA 200.2 mod.
 Associated Lab Samples: 2383599008 2383599009

METHOD BLANK: 273368

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Copper	ug/L	U	0.034	

LABORATORY CONTROL SAMPLE & LCSD: 273369 273370

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Copper	ug/L	50	47	47	94.2	94.4	85-115	0	20	

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QUALITY CONTROL DATA

Workorder: 2383599
 Project ID: Elroy Trimmer

QC Batch:	MXX/14961	Analysis Method:	EPA 200.8 (Total)			
QC Batch Method:	EPA 200.2 mod.					
Associated Lab Samples:	2383599008	2383599009	2383751001	2383783001	2383783002	2383783003
	2383783004	2383783005	2383783006	2383783007	2383783008	2383783009
	2383783010	2383783011	2383783012	2383783013		

METHOD BLANK: 273373

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Copper	ug/L	U	0.034	

LABORATORY CONTROL SAMPLE & LCSD: 273374 273375

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Copper	ug/L	50	47	47	94.2	94.4	85-115	0	20	

MATRIX SPIKE SAMPLE: 273377 Original: 2383783003

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	1.1	50	49	95.4	70-130	

SAMPLE DUPLICATE: 273376 Original: 2383783003

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Copper	ug/L	1.1	1.1i	0	20	





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QUALITY CONTROL DATA CROSS

Workord 2383599 Elroy Trimmer

Lab ID	Sample	Batch Method	QC	Method	Analytical Batch
2383599001	1	SM 2540G	WGR/5744	SM 2540G	WGR/5744
2383599003	3	SM 2540G	WGR/5744	SM 2540G	WGR/5744
2383599004	4	SM 2540G	WGR/5744	SM 2540G	WGR/5744
2383599005	5	SM 2540G	WGR/5744	SM 2540G	WGR/5744
2383599006	6	SM 2540G	WGR/5744	SM 2540G	WGR/5744
2383599007	7	SM 2540G	WGR/5744	SM 2540G	WGR/5744
2383599011	11	SM 2540G	WGR/5744	SM 2540G	WGR/5744
2383599012	12	SM 2540G	WGR/5744	SM 2540G	WGR/5744
2383599013	13	SM 2540G	WGR/5744	SM 2540G	WGR/5744
2383599015	15	SM 2540G	WGR/5744	SM 2540G	WGR/5744
2383599002	2	EPA 200.2 mod.	MXX/14934	EPA 200.8 (Total)	MMS/13277
2383599010	10	EPA 200.2 mod.	MXX/14934	EPA 200.8 (Total)	MMS/13277
2383599014	14	EPA 200.2 mod.	MXX/14934	EPA 200.8 (Total)	MMS/13277
2383599010	10	EPA 200.2 mod.	MXX/14941	EPA 200.8 (Dissolved)	MMS/13289
2383599014	14	EPA 200.2 mod.	MXX/14941	EPA 200.8 (Dissolved)	MMS/13289
2383599016	1	EPA 200.2 mod.	MXX/14941	EPA 200.8 (Dissolved)	MMS/13289
2383599001	1	EPA 3050B (mod)	MXX/14945	EPA 6020	MMS/13288
2383599003	3	EPA 3050B (mod)	MXX/14945	EPA 6020	MMS/13288
2383599004	4	EPA 3050B (mod)	MXX/14945	EPA 6020	MMS/13288
2383599005	5	EPA 3050B (mod)	MXX/14945	EPA 6020	MMS/13288
2383599006	6	EPA 3050B (mod)	MXX/14945	EPA 6020	MMS/13288
2383599007	7	EPA 3050B (mod)	MXX/14945	EPA 6020	MMS/13288
2383599011	11	EPA 3050B (mod)	MXX/14945	EPA 6020	MMS/13288
2383599012	12	EPA 3050B (mod)	MXX/14945	EPA 6020	MMS/13288
2383599013	13	EPA 3050B (mod)	MXX/14945	EPA 6020	MMS/13288
2383599015	15	EPA 3050B (mod)	MXX/14945	EPA 6020	MMS/13288
2383599008	8	EPA 200.2 mod.	MXX/14960	EPA 200.8 (Dissolved)	MMS/13301
2383599009	9	EPA 200.2 mod.	MXX/14960	EPA 200.8 (Dissolved)	MMS/13301
2383599008	8	EPA 200.2 mod.	MXX/14961	EPA 200.8 (Total)	MMS/13301
2383599009	9	EPA 200.2 mod.	MXX/14961	EPA 200.8 (Total)	MMS/13301

NELAP Accredited
 FDOH# E86546

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J.E.L. Log # 2383 599

P.O. # _____

Quote # _____

Company Name						LAB ANALYSIS												Requested Turnaround Time	
Elroy Timmer																		Note: Rush requests subject to acceptance by the laboratory.	
Address																		Standard <input checked="" type="checkbox"/>	
City State Zip																		Expedited <input type="checkbox"/>	
Sampling Site Address																		Due ___/___/___	
Attn: Elroy Tel: 561-575-0032 Email: concest.net																		Comments	
Project Name																			
Sampler Name/Signature: Elroy Timmer																			
#	Sample Label (Client ID)	Collected Date	Collected Time	Matrix Code*	# of Cont	Parameters	Field Filtered (Y/N)												
1	1	1-4-23	9:00 AM	S	1	Copper													
2	2		10:00 AM	W	1	dissolved													
3	3		10:30	S	1														
4	4		11:00	S	1														
5	5		11:30	S	1														
6	6		12:00	S	1														
7	7		1:00	S	1														
8	8		1:30	W	2														
9	9		2:00	W	2														
10	10		2:30	W	2														

Matrix Codes*		Pres Codes		Relinquished by		Date	Time	Received by	Date	Time
<input checked="" type="checkbox"/> Soil/Solid Sediment	<input checked="" type="checkbox"/> Surface Water	A- none	- Ice	Elroy Timmer		1/5/23	10:30	[Signature]	1/5/23	10:30
<input type="checkbox"/> GW Ground Water	<input type="checkbox"/> S- Sludge	B- HNO ₃	C- Citric							
<input type="checkbox"/> WW Waste Water	<input type="checkbox"/> O- Other (Please Specify)	C- H ₂ SO ₄	M- NaOH							
<input type="checkbox"/> DW Drinking Water		D- NaOH	N- Na ₂ S ₂ O ₈							
		E- HCl	Z- ZnAc							

QA/QC level with report
 None 1 2 3 See price guide for applicable fees

FDEP Dry Cleaning FDEP UST Pre-Approval
 SFWMD ADaPT DOI

Temp Control: 23.2 °C

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J.E.L. Log # 2383 599

P.O. # _____

Quote # _____

Company Name						LAB ANALYSIS										Requested Turnaround Time			
Address						Parameters										Note: Rush requests subject to acceptance by the laboratory			
City																Field Filtered (Y/N)		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Expedited	
State																Due ___/___/___			
Zip																			
Sampling Site Address																			
Attn:																Comments			
Project Name																			
Sampler Name/Signature																			
#	Sample Label (Client ID)	Collected Date	Collected Time	Matrix Code*	# of Cont	Pres Codes													
1	11	4/23	3:30	S	1														
2	12		4:00	S	1														
3	13		4:30	S	1														
4	14		5:00	W	2														
5	15		5:30	S	1														
6																			
7																			
8																			
9																			
0																			

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Report ID: 2383599 - 3624918

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J.E.L. Log # 2383599

P.O. # _____

Quote # _____

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LAB ANALYSIS							Requested Turnaround Time				
							Note: Rush requests subject to acceptance by the laboratory.				
							Standard				
							Expedited				
							Due ___/___/___				
							Comments				
Company Name	Edroy Timmer						Parameters Copper (diss)	Field Filtered (Y/N)			
Address	482 SW Deer Run										
City	PSL	State	FL	Zip	34953						
Sampling Site Address	Jonathan's Landing										
Att: Edroy	celroy2@comcast.net										
Project Name	Project #										
Sampler Name/Signature	Edroy Timmer										
#	Sample Label (Client ID)	Collected Date	Collected Time	Matrix Code	# of Cont						
1	1	1/4/23	9:00	W	1	X					
2											
3											
4											
5											
6											
7											
8											
9											
0											
Matrix Codes*		Pres Codes		Relinquished by		Date	Time	Received by	Date	Time	
S	Soil/Solid Sediment	SW	Surface Water	A- none	F- Ice	Edroy Timmer	1/5/23	10:30	Jana June	1/5/23	10:30
GW	Ground Water	S	Sludge	B- HNO ₃	O Other						
WW	Waste Water	C	Other (Please Specify)	C- H ₂ SO ₄	M- MeOH						
DW	Drinking Water			D- NaOH	N- Na ₂ S ₂ O ₈						
				E- HCl	Z- ZnAc						
QA/QC level with report None ___ 1 ___ 2 ___ 3 ___ See price guide for applicable fees											
FDEP Dry Cleaning <input type="checkbox"/> FDEP UST Pre-Approval <input type="checkbox"/> Temp Control: <u>23.2</u> °C											
SEWIND <input type="checkbox"/> ADAPT <input type="checkbox"/> DOT <input type="checkbox"/>											

SAMPLE RECEIPT CONFIRMATION SHEET

Client Information

SDG: 2383599	Profile: 2641
Client: PRIVATE	Project: E. Timmer
Level: 1	Date Rec'd: 1/5/2023 10:38:00 AM
Rec'd via: courier	

Label Check to confirm JEL ID matches Client ID performed by _____ on _____

Cooler Check

ID	Temp (C)	# of samples	Arrived on Ice	Security Tape Present	Intact	Comments	Temp Gun ID
	23.2	16	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Temp Gun 2

Checked By: KS

Sample Verification

Loose Caps?	No	All Samples on COC accounted For?	Yes
Broken Containers?	No	All Samples on COC?	Yes
pH Verified?	Yes	Written on Internal COC?	No
pH Strip Lot #	HC203864	Sample Vol. Suff. For Analysis?	Yes
Acid Preserved Samples Lot #	23893	Samples Rec'd W/ Hold Time?	Yes
Base Preserved Samples Lot #		Are All Samples to be Analyzed?	Yes
Samples Received From	courier	Correct Sample Containers?	Yes
Soil Origin (Domestic/Foreign)	Domestic	COC Comments written on COC?	No
Site Location/Project on COC?	Yes	Samplers Initials on COC?	Yes
Client Project # on COC?	Yes	Sample Date/Time Indicated?	Yes
Project Mgr. Indicated on COC	Yes	TAT Requested:	STD
COC relinquished/Dated by Client?	Yes	Client Requests Verbal Results?	No
COC Received/Dated by JEL	Yes	Client Notified of discrepancies?	No
JEL to Conduct ALL Analyses?	Yes	Do VOC vials have headspace or a bubble >6mm (1/4")?	N/A
Number of Encores	0	Number of Lab Filtered Metals	0

Label Check to confirm JEL ID matches Client ID performed by _____ on _____

Subcontract Analysis

Parameter	Via	Lab Name	Comments
-----------	-----	----------	----------

Client Information

SDG:	2383599	Profile:	2541
Client:	PRIVATE	Project:	E. Timmer
Level:	1	Date Rec'd:	1/5/2023 10:38:00 AM
Rec'd via:	courier		