



EPAC

Environmental Services, Inc.



January 10, 2019

Mr. Adnan Velic
Shredded Tire Inc.
6742 NW 17th Avenue
Ft. Lauderdale, FL 33309

Re: **EPAC Project #: 2189147**
Potable Water Sampling
Shredded Tire Product
6742 NW 17th Ave
Fort Lauderdale, FL

Dear Mr. Velic:

EPAC Environmental Services Inc. (EPAC) has completed the Potable Water Sampling for the above referenced property (subject property). The following letter includes a brief history, results, and conclusion.

On December 4, 2018, EPAC personnel collected one (1) water sample at the above-referenced property. At the request of Shredded Tire, the sample was collected from distilled water flowing through a 4" thick ECHO™ product through a sterile funnel and into the sample vials to be analyzed for several routine water potability tests including pH, total dissolved solids, hardness, turbidity, copper, lead, iron, arsenic, nitrate, fluoride, coliform, nitrite, chloride, bromine, phosphate, and sulfate; inorganic and Secondary Drinking water contaminants including antimony, barium, beryllium, cadmium, chromium, cyanide, mercury, manganese, selenium, thallium, zinc, color, odor, and corrosivity. The same day, the sample was packed on ice, and transported to Florida Spectrum Environmental Services, Inc. (DOH ID#: E86006).

DEP Standard Operating Procedures, FS 2300 Drinking Water Sampling, were used as a reference in collection of the potable water sample.

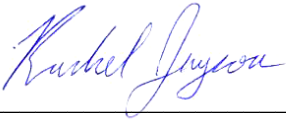
Laboratory analytical results indicated all analytes tested were within drinking water standards with exception to aluminum. The result for aluminum was 0.545 mg/L and the secondary maximum contaminant level (SMCL) is 0.2 mg/L. However, under EPA's Safe Drinking Water Act, secondary standards are **not** federally enforceable as they are **not** recognized as a health threat.

Aluminum levels were tested a second time on December 27, 2018. The sample (designated DW-2) was collected using an identical procedure to the original. Laboratory analytical results for the second sample indicated aluminum levels at 0.0551 mg/L, which was within acceptable levels. As such, results of both sampling events indicated all contaminant levels tested were within applicable regulated standards for drinking water with exception to aluminum, which was within the standard when sampled a second time. Please note, EPAC cannot make testimony as to the ECHO™ product quality, any analysis excluded from this sampling agreement, and/or method of water collection with exception to DEP Standard Operating Procedures.

Site photos and laboratory analytical results are attached.

Should you have any questions or comments regarding the above, please contact us at (954) 974-7055 at your convenience.

EPAC Environmental Services, Inc.



Rachel Jayson
Project Manager



Beda C. Dondi, P.G.
Principal



4" THICK ECHO™ & DISTILLED WATER

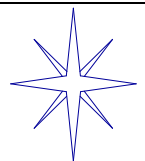


SAMPLE COLLECTION PROCEDURE



SHREDDED TIRE PRODUCT
6742 NW 17TH AVE
FORT LAUDERDALE, BROWARD COUNTY
FLORIDA

**Project
No.:**
2189147





1460 West McNab Road
Fort Lauderdale, FL 33309
1-800-ANALYTE Phone
(954) 978-6400 Phone
(954) 978-2233 Fax

NELAP Certificate No. E86006

Rachel Jayson
EPAC
1001 SW 46th Avenue
Pompano Beach, FL 33069

19 December 2018
Lab Work Order (COC): 18L0049

RE: 2189147 Shredded Tire

Project Location: 6742 NW 17th Avenue, Ft. Lauderdale, FL 33309

Dear Rachel Jayson:

This report details the analytical results of samples collected at the above-referenced project location as well as the results of any associated quality control samples. These samples were received by Florida Spectrum Environmental Services at **12/04/2018 09:35**.

All Analyses were performed according to the TNI/NELAP standard unless indicated by a "~" on the report.

Your samples will be retained by Florida Spectrum Environmental for a period of at least 30 days following sample receipt or until the longest of the preparation and/or analytical hold times expires, whichever is shorter. After that time, they will be properly disposed without further notice, unless there exists an explicit contractual agreement to the contrary. We reserve the right to return any unused samples, extracts, or related materials or solutions to you if we consider it necessary. Examples might include those samples identified as hazardous wastes, submissions where the sample sizes significantly exceed those required for analysis, samples containing controlled substances, etc.

We thank you for selecting Florida Spectrum Environmental to serve your analytical needs. Should you have any questions or require additional information regarding any of the information in this report, please feel free to contact us at any time. We appreciate the opportunity to be of service.

Florida Spectrum Environmental Inc.

A handwritten signature in black ink, appearing to be "D. P. ...", written over a horizontal line. There is a small "x" mark to the left of the signature.



Report To:
 Rachel Jayson
 EPAC
 1001 SW 46th Avenue
 Pompano Beach FL, 33069

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Report Printed: 12/19/2018

Work Order # 18L0049

Project: 2189147 Shredded Tire

6742 NW 17th Avenue, Ft. Lauderdale, FL
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DETECTED ANALYTE SUMMARY

Client Sample ID	Laboratory ID	Matrix	Analyte	Result	Units	Collection Date	Collection Time
SS-1	18L0049-01	Water	Antimony	0.000185	mg/L	12/4/2018	9:20
SS-1	18L0049-01	Water	Lead	0.00126	mg/L	12/4/2018	9:20
SS-1	18L0049-01	Water	Copper	0.00553	mg/L	12/4/2018	9:20
SS-1	18L0049-01	Water	Chromium	0.00208	mg/L	12/4/2018	9:20
SS-1	18L0049-01	Water	Turbidity	0.15	NTU	12/4/2018	9:20
SS-1	18L0049-01	Water	Arsenic	0.000403	mg/L	12/4/2018	9:20
SS-1	18L0049-01	Water	Zinc	0.0167	mg/L	12/4/2018	9:20
SS-1	18L0049-01	Water	Sodium	1.21	mg/L	12/4/2018	9:20
SS-1	18L0049-01	Water	Manganese	0.0138	mg/L	12/4/2018	9:20
SS-1	18L0049-01	Water	Iron	0.267	mg/L	12/4/2018	9:20
SS-1	18L0049-01	Water	Aluminum	0.545	mg/L	12/4/2018	9:20
SS-1	18L0049-01	Water	Barium	0.00424	mg/L	12/4/2018	9:20
SS-1	18L0049-01	Water	Total Dissolved Solids	15.0	mg/L	12/4/2018	9:20
SS-1	18L0049-01	Water	Color	0/7.09	Pt-Co	12/4/2018	9:20
SS-1	18L0049-01	Water	Orthophosphate as P	0.0630	mg/L	12/4/2018	9:20
SS-1	18L0049-01	Water	Sulfate	2.18	mg/L	12/4/2018	9:20
SS-1	18L0049-01	Water	Fluoride	0.0900	mg/L	12/4/2018	9:20
SS-1	18L0049-01	Water	Bromide	0.0270	mg/L	12/4/2018	9:20
SS-1	18L0049-01	Water	Total Hardness	28100	ug/L	12/4/2018	9:20
SS-1	18L0049-01	Water	Coliform-Total (E-Coli) t	Absent	.	12/4/2018	9:20
SS-1	18L0049-01	Water	pH	7.09	pH Units	12/4/2018	9:20

Florida-Spectrum Environmental Services, Inc.
 1460 W. McNab Road, Fort Lauderdale, FL 33309

Pembroke Laboratory
 528 Gooch Rd.
 Fort Mead, FL 33841

Big Lake Laboratory
 610 Parrot Ave. N.
 Okeechobee, FL 34972

Lakeland Laboratory
 1910 Harden Blvd.
 Lakeland, FL 33803

Savannah Laboratory
 108 Airport Park Dr.
 Garden City, GA 31408



Report To:
Rachel Jayson
EPAC
1001 SW 46th Avenue
Pompano Beach FL, 33069

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Report Printed: 12/19/2018
Work Order # 18L0049
Project: 2189147 Shredded Tire
6742 NW 17th Avenue, Ft. Lauderdale, FL 33309

Lab ID: 18L0049-01
Client Sample ID: SS-1
Matrix: Water

Collection Date: 12/04/18 09:20
Received Date: 12/04/18 09:35
Collected By: Rachel Jayson

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
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Classical Chemistry Parameters

Turbidity	0.15		NTU	1	0.050	0.15	EPA 180.1	12/05 14:00	12/05 14:00	AR
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Wet Chemistry

Bromide	0.0270	I	mg/L	1	0.0110	0.100	EPA 300.0	12/04 12:11	12/04 23:25	OC
Chloride	ND	U	mg/L	1	0.608	1.82	EPA 300.0	12/04 12:11	12/04 23:25	OC
Color	0/7.09	U	Pt-Co	1	5.00	15.0	SM 2120B	12/05 14:40	12/05 14:40	AR
Cyanide (total)	ND	U	mg/L	1	0.00430	0.0129	SM4500CN-E	12/10 12:05	12/10 13:52	SA
Fluoride	0.0900		mg/L	1	0.0210	0.0630	EPA 300.0	12/04 12:11	12/04 23:25	OC
MBAS as LAS, mol wt. 340	ND	U	mg/L	1	0.0603	0.181	SM5540C	12/06 09:00	12/06 09:00	SA
Nitrate as N	ND	U	mg/L	1	0.0870	0.260	EPA 300.0	12/04 12:11	12/04 23:25	OC
Nitrate/Nitrite as N	ND	U	mg/L	1	0.0870	0.260	EPA 300.0	12/04 12:11	12/04 23:25	OC
Nitrite as N	ND	U	mg/L	1	0.0480	0.150	EPA 300.0	12/04 12:11	12/04 23:25	OC
Odor	ND	U	T.O.N.	1	1.00	3.00	SM 2150B	12/04 11:00	12/04 11:00	SA
pH	7.09	Q	pH Units	1	0.100	0.300	SM4500-H+-B	12/05 14:30	12/05 14:30	AR
Orthophosphate as P	0.0630	I	mg/L	1	0.0260	0.100	EPA 300.0	12/05 17:16	12/05 18:22	OC
Sulfate	2.18		mg/L	1	0.335	1.00	EPA 300.0	12/04 12:11	12/04 23:25	OC
Total Dissolved Solids	15.0	I	mg/L	1	10.0	30.0	SM 2540C	12/05 17:30	12/06 15:53	SY

Metals (Drinking Water) by EPA 200 Series Methods

Aluminum	0.545		mg/L	1	0.0021	0.0100	EPA 200.7	12/05 08:00	12/05 10:26	MAZ
Antimony	0.000185	I	mg/L	1	0.0000692	0.000207	EPA 200.8	12/10 09:00	12/10 14:28	IN

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 Project: 2189147 Shredded Tire
 6742 NW 17th Avenue, Ft. Lauderdale, FL
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Lab ID: 18L0049-01
 Client Sample ID: SS-1
 Matrix: Water

Collection Date: 12/04/18 09:20
 Received Date: 12/04/18 09:35
 Collected By: Rachel Jayson

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
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Metals (Drinking Water) by EPA 200 Series Methods

Arsenic	0.000403		mg/L	1	0.0000729	0.000219	EPA 200.8	12/10 09:00	12/10 14:28	IN
Barium	0.00424		mg/L	1	0.000253	0.000760	EPA 200.8	12/10 09:00	12/10 14:28	IN
Beryllium	ND	U	mg/L	1	0.0000685	0.000205	EPA 200.8	12/10 09:00	12/10 14:28	IN
Cadmium	ND	U	mg/L	1	0.0000131	0.0000393	EPA 200.8	12/10 09:00	12/10 14:28	IN
Chromium	0.00208		mg/L	1	0.000690	0.00207	EPA 200.8	12/10 09:00	12/10 14:28	IN
Copper	0.00553		mg/L	1	0.000365	0.00109	EPA 200.8	12/10 09:00	12/10 14:28	IN
Iron	0.267		mg/L	1	0.0020	0.0100	EPA 200.7	12/05 08:00	12/05 10:26	MAZ
Lead	0.00126		mg/L	1	0.0000562	0.000169	EPA 200.8	12/10 09:00	12/10 14:28	IN
Manganese	0.0138		mg/L	1	0.00011	0.00100	EPA 200.7	12/05 08:00	12/05 10:26	MAZ
Mercury	ND	U	mg/L	1	0.00006	0.00019	EPA 245.1	12/05 08:00	12/05 10:56	EN
Nickel	ND	U	mg/L	1	0.000689	0.00207	EPA 200.8	12/10 09:00	12/10 14:28	IN
Selenium	ND	U	mg/L	1	0.000686	0.00206	EPA 200.8	12/10 09:00	12/10 14:28	IN
Silver	ND	U	mg/L	1	0.00018	0.00100	EPA 200.7	12/05 08:00	12/05 10:26	MAZ
Sodium	1.21	I	mg/L	1	0.390	2.00	EPA 200.7	12/05 08:00	12/05 10:26	MAZ
Thallium	ND	U	mg/L	1	0.00000254	0.00000762	EPA 200.8	12/10 09:00	12/10 14:28	IN
Zinc	0.0167		mg/L	1	0.0007	0.0050	EPA 200.7	12/05 08:00	12/05 10:26	MAZ

Total Recoverable Metals by EPA 200 Series Methods

Total Hardness	28100		ug/L	1			EPA 200.7 Calc	12/05 08:00	12/05 10:26	MAZ
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Microbiology

Coliform-Total (E-Coli) by Colilert	Absent	U	.	1	1.00	1.00	SM 9223B	12/04 10:30	12/05 10:30	BRM
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Classical Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 18L0249 - Default Prep GenChem										
Blank (18L0249-BLK1)					Prepared & Analyzed: 12/05/2018					
Turbidity	ND	0.15	NTU							U
LCS (18L0249-BS1)					Prepared & Analyzed: 12/05/2018					
Turbidity	50.0	0.15	NTU	49.60		101	90-110			
Duplicate (18L0249-DUP1)					Source: 18L0076-02 Prepared & Analyzed: 12/05/2018					
Turbidity	0.150	0.15	NTU		0.150			0.00	20	

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Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 18L0151 - Default Prep GenChem										
Blank (18L0151-BLK1) Prepared & Analyzed: 12/03/2018										
Odor	ND	3.00	T.O.N.							U
Batch 18L0163 - Default Prep GenChem										
Blank (18L0163-BLK1) Prepared & Analyzed: 12/04/2018										
Nitrate/Nitrite as N	ND	0.260	mg/L							U
Fluoride	ND	0.0630	"							U
Nitrite as N	ND	0.150	"							U
Nitrate as N	ND	0.260	"							U
Sulfate	ND	1.00	"							U
Chloride	ND	1.82	"							U
Bromide	ND	0.100	"							U
LCS (18L0163-BS1) Prepared & Analyzed: 12/04/2018										
Fluoride	2.63	0.0630	mg/L	2.500		105	90-110			
Nitrite as N	8.06	0.150	"	7.500		107	90-110			
Nitrate/Nitrite as N	15.6	0.260	"	15.00		104	90-110			
Nitrate as N	7.52	0.260	"	7.500		100	90-110			
Sulfate	50.9	1.00	"	50.00		102	90-110			
Chloride	50.6	1.82	"	50.00		101	90-110			
Bromide	4.64	0.100	"	5.000		92.8	90-110			
Duplicate (18L0163-DUP1) Source: 18L0030-08 Prepared & Analyzed: 12/04/2018										
Nitrite as N	ND	0.150	mg/L		ND				20	U
Fluoride	0.588	0.0630	"		0.599			1.85	20	
Nitrate/Nitrite as N	7.69	0.260	"		7.83			1.80	20	
Nitrate as N	7.69	0.260	"		7.83			2	20	
Chloride	76.8	1.82	"		78.2			1.81	20	
Sulfate	19.2	1.00	"		19.6			2.06	20	
Bromide	ND	0.100	"		ND				20	U

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Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
Batch 18L0163 - Default Prep GenChem										
Matrix Spike (18L0163-MS1)		Source: 18L0030-08			Prepared & Analyzed: 12/04/2018					
Fluoride	5.52	0.0630	mg/L	5.000	0.599	98.4	90-110			
Nitrite as N	5.60	0.150	"	5.000	ND	112	90-110			J3
Nitrate as N	12.2	0.260	"	5.000	7.83	87	90-110			J3
Nitrate/Nitrite as N	17.8	0.260	"	10.00	7.83	99.7	90-110			
Chloride	121	1.82	"	50.00	78.2	85.6	90-110			J3
Sulfate	70.8	1.00	"	50.00	19.6	102	90-110			
Bromide	4.91	0.100	"	5.000	ND	98.2	90-110			
Matrix Spike (18L0163-MS2)		Source: 18L0067-01			Prepared: 12/04/2018 Analyzed: 12/05/2018					
Nitrite as N	5.15	0.150	mg/L	5.000	ND	103	90-110			
Fluoride	4.87	0.0630	"	5.000	ND	97.4	90-110			
Nitrate/Nitrite as N	10.1	0.260	"	10.00	ND	101	90-110			
Nitrate as N	4.94	0.260	"	5.000	ND	99	90-110			
Sulfate	53.9	1.00	"	50.00	0.390	107	90-110			
Chloride	64.5	1.82	"	50.00	16.0	97.0	90-110			
Bromide	4.96	0.100	"	5.000	ND	99.2	90-110			
Batch 18L0182 - Default Prep GenChem										
LCS (18L0182-BS1)		Prepared & Analyzed: 12/05/2018								
pH	4.04	0.300	pH Units	4.000		101	97.5-102.5			
LCS (18L0182-BS2)		Prepared & Analyzed: 12/05/2018								
pH	13.0	0.300	pH Units	13.00		99.6	97.5-102.5			
Duplicate (18L0182-DUP1)		Source: 18L0050-04			Prepared & Analyzed: 12/05/2018					
pH	12.9	0.300	pH Units		12.9			0.0776	20	Q

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 33309

Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 18L0182 - Default Prep GenChem										
Duplicate (18L0182-DUP2)		Source: 18L0077-03			Prepared & Analyzed: 12/05/2018					
pH	8.93	0.300	pH Units		8.94			0.112	20	Q
Batch 18L0185 - Default Prep GenChem										
Blank (18L0185-BLK1)		Prepared: 12/05/2018 Analyzed: 12/06/2018								
Total Dissolved Solids	ND	30.0	mg/L							U
LCS (18L0185-BS1)		Prepared: 12/05/2018 Analyzed: 12/06/2018								
Total Dissolved Solids	504	120	mg/L	500.0		101	80-120			
Duplicate (18L0185-DUP1)		Source: 18L0077-03			Prepared: 12/05/2018 Analyzed: 12/06/2018					
Total Dissolved Solids	182	60.0	mg/L		174			4.49	20	
Duplicate (18L0185-DUP2)		Source: 18L0102-04			Prepared: 12/05/2018 Analyzed: 12/06/2018					
Total Dissolved Solids	88.0	60.0	mg/L		86.0			2.30	20	
Batch 18L0240 - Default Prep GenChem										
Blank (18L0240-BLK1)		Prepared & Analyzed: 12/05/2018								
Orthophosphate as P	ND	0.100	mg/L							U
LCS (18L0240-BS1)		Prepared & Analyzed: 12/05/2018								
Orthophosphate as P	4.83	0.100	mg/L	5.000		97	90-110			
Duplicate (18L0240-DUP1)		Source: 18L0106-01			Prepared & Analyzed: 12/05/2018					
Orthophosphate as P	ND	0.100	mg/L		ND				20	U

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Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 18L0240 - Default Prep GenChem										
Matrix Spike (18L0240-MS1)		Source: 18L0106-01			Prepared & Analyzed: 12/05/2018					
Orthophosphate as P	5.06	0.100	mg/L	5.000	ND	101	90-110			
Matrix Spike (18L0240-MS2)		Source: 18L0112-01			Prepared: 12/05/2018 Analyzed: 12/06/2018					
Orthophosphate as P	5.01	0.100	mg/L	5.000	ND	100	90-110			
Batch 18L0247 - Default Prep GenChem										
Blank (18L0247-BLK1)		Prepared & Analyzed: 12/05/2018								
Color	0/5.87	15.0	Pt-Co							U
LCS (18L0247-BS1)		Prepared & Analyzed: 12/05/2018								
Color	20/1.66	15.0	Pt-Co	20.00		100	90-110			
Duplicate (18L0247-DUP1)		Source: 18L0076-02			Prepared & Analyzed: 12/05/2018					
Color	0/8.93	15.0	Pt-Co		0/8.55			20		U
Batch 18L0262 - Default Prep GenChem										
Blank (18L0262-BLK1)		Prepared & Analyzed: 12/06/2018								
MBAS as LAS, mol wt. 340	ND	0.181	mg/L							U
LCS (18L0262-BS1)		Prepared & Analyzed: 12/06/2018								
MBAS as LAS, mol wt. 340	0.472	0.181	mg/L	0.5000		94.4	90-110			
Duplicate (18L0262-DUP1)		Source: 18L0049-01			Prepared & Analyzed: 12/06/2018					
MBAS as LAS, mol wt. 340	ND	0.181	mg/L		ND			20		U

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Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 18L0262 - Default Prep GenChem										
Matrix Spike (18L0262-MS1)		Source: 18L0049-01			Prepared & Analyzed: 12/06/2018					
MBAS as LAS, mol wt. 340	0.468	0.181	mg/L	0.5000	ND	93.6	90-110			
Matrix Spike Dup (18L0262-MSD1)		Source: 18L0049-01			Prepared & Analyzed: 12/06/2018					
MBAS as LAS, mol wt. 340	0.474	0.181	mg/L	0.5000	ND	94.8	90-110	1.27	20	
Batch 18L0322 - Default Prep GenChem										
Blank (18L0322-BLK1)		Prepared & Analyzed: 12/10/2018								
Cyanide (total)	ND	0.0129	mg/L							U
LCS (18L0322-BS1)		Prepared & Analyzed: 12/10/2018								
Cyanide (total)	0.212	0.0129	mg/L	0.2000		106	90-110			
Duplicate (18L0322-DUP1)		Source: 18L0049-01			Prepared & Analyzed: 12/10/2018					
Cyanide (total)	ND	0.0129	mg/L		ND				20	U
Matrix Spike (18L0322-MS1)		Source: 18L0049-01			Prepared & Analyzed: 12/10/2018					
Cyanide (total)	0.205	0.0129	mg/L	0.2000	ND	102	90-110			
Matrix Spike Dup (18L0322-MSD1)		Source: 18L0049-01			Prepared & Analyzed: 12/10/2018					
Cyanide (total)	0.205	0.0129	mg/L	0.2000	ND	102	90-110	0.00	20	

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Metals (Drinking Water) by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 18L0005 - EPA 3010A										
Blank (18L0005-BLK1) Prepared & Analyzed: 12/05/2018										
Manganese	ND	0.00100	mg/L							U
Silver	ND	0.00100	"							U
Copper	ND	0.0050	"							U
Sodium	ND	2.00	"							U
Zinc	ND	0.0050	"							U
Aluminum	ND	0.0100	"							U
Iron	ND	0.0100	"							U
LCS (18L0005-BS1) Prepared & Analyzed: 12/05/2018										
Silver	0.4922	0.00100	mg/L	0.5000		98.4	85-115			
Sodium	22.1	2.00	"	25.50		86.5	85-115			
Zinc	0.5116	0.0050	"	0.5000		102	85-115			
Aluminum	0.4987	0.0100	"	0.5000		99.7	85-115			
Copper	0.5149	0.0050	"	0.5000		103	85-115			
Iron	0.4974	0.0100	"	0.5000		99.5	85-115			
Manganese	0.4840	0.00100	"	0.5000		96.8	85-115			
Matrix Spike (18L0005-MS1) Source: 18L0049-01 Prepared & Analyzed: 12/05/2018										
Silver	0.4836	0.00100	mg/L	0.5000	ND	96.7	70-130			
Copper	0.5133	0.0050	"	0.5000	0.0061	101	70-130			
Sodium	22.9	2.00	"	25.50	1.21	85.1	70-130			
Zinc	0.5173	0.0050	"	0.5000	0.0167	100	70-130			
Aluminum	1.037	0.0100	"	0.5000	0.5449	98.4	70-130			
Manganese	0.4971	0.00100	"	0.5000	0.0138	96.7	70-130			
Iron	0.7545	0.0100	"	0.5000	0.2672	97.5	70-130			
Matrix Spike Dup (18L0005-MSD1) Source: 18L0049-01 Prepared & Analyzed: 12/05/2018										
Silver	0.4858	0.00100	mg/L	0.5000	ND	97.2	70-130	0.454	20	
Copper	0.5134	0.0050	"	0.5000	0.0061	101	70-130	0.0197	20	
Zinc	0.5207	0.0050	"	0.5000	0.0167	101	70-130	0.677	20	
Aluminum	1.045	0.0100	"	0.5000	0.5449	100	70-130	1.63	20	
Sodium	23.1	2.00	"	25.50	1.21	85.7	70-130	0.641	20	

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Metals (Drinking Water) by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 18L0005 - EPA 3010A										
Matrix Spike Dup (18L0005-MSD1)		Source: 18L0049-01			Prepared & Analyzed: 12/05/2018					
Manganese	0.4976	0.00100	mg/L	0.5000	0.0138	96.8	70-130	0.103	20	
Iron	0.7556	0.0100	"	0.5000	0.2672	97.7	70-130	0.146	20	
Batch 18L0019 - EPA 200.8										
Blank (18L0019-BLK1)		Prepared & Analyzed: 12/10/2018								
Cadmium	ND	0.0000393	mg/L							U
Beryllium	ND	0.000205	"							U
Barium	ND	0.000760	"							U
Arsenic	ND	0.000219	"							U
Antimony	ND	0.000207	"							U
Lead	ND	0.000169	"							U
Copper	ND	0.00109	"							U
Selenium	ND	0.00206	"							U
Thallium	ND	0.00000762	"							U
Chromium	ND	0.00207	"							U
Nickel	ND	0.00207	"							U
LCS (18L0019-BS1)		Prepared & Analyzed: 12/10/2018								
Cadmium	0.0245	0.0000393	mg/L	0.02500		97.8	85-115			
Beryllium	0.0248	0.000205	"	0.02500		99.2	85-115			
Barium	0.0249	0.000760	"	0.02500		99.6	85-115			
Antimony	0.0246	0.000207	"	0.02500		98.2	85-115			
Arsenic	0.0244	0.000219	"	0.02500		97.4	85-115			
Selenium	0.0236	0.00206	"	0.02500		94.6	85-115			
Lead	0.0243	0.000169	"	0.02500		97.0	85-115			
Copper	0.0243	0.00109	"	0.02500		97.1	85-115			
Nickel	0.0242	0.00207	"	0.02500		96.8	85-115			
Chromium	0.0241	0.00207	"	0.02500		96.3	85-115			
Thallium	0.0241	0.00000762	"	0.02500		96	85-115			

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Metals (Drinking Water) by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 18L0019 - EPA 200.8										
Matrix Spike (18L0019-MS1)		Source: 18L0152-01			Prepared & Analyzed: 12/10/2018					
Nickel	0.0243	0.00207	mg/L	0.02500	ND	97.1	70-130			
Cadmium	0.0245	0.0000393	"	0.02500	ND	97.9	70-130			
Beryllium	0.0249	0.000205	"	0.02500	ND	99.7	70-130			
Barium	0.0241	0.000760	"	0.02500	ND	96.6	70-130			
Thallium	0.0245	0.00000762	"	0.02500	ND	98	70-130			
Arsenic	0.0244	0.000219	"	0.02500	ND	97.8	70-130			
Antimony	0.0220	0.000207	"	0.02500	ND	87.9	70-130			
Selenium	0.0249	0.00206	"	0.02500	ND	99.8	70-130			
Lead	0.0246	0.000169	"	0.02500	ND	98.4	70-130			
Copper	0.0244	0.00109	"	0.02500	ND	97.4	70-130			
Chromium	0.0243	0.00207	"	0.02500	ND	97.2	70-130			
Matrix Spike Dup (18L0019-MSD1)		Source: 18L0152-01			Prepared & Analyzed: 12/10/2018					
Beryllium	0.0245	0.000205	mg/L	0.02500	ND	97.8	70-130	1.91	20	
Arsenic	0.0242	0.000219	"	0.02500	ND	96.8	70-130	1.01	20	
Antimony	0.0220	0.000207	"	0.02500	ND	88.0	70-130	0.123	20	
Nickel	0.0234	0.00207	"	0.02500	ND	93.7	70-130	3.54	20	
Barium	0.0240	0.000760	"	0.02500	ND	96.1	70-130	0.537	20	
Lead	0.0249	0.000169	"	0.02500	ND	99.8	70-130	1.39	20	
Copper	0.0238	0.00109	"	0.02500	ND	95.2	70-130	2.32	20	
Cadmium	0.0243	0.0000393	"	0.02500	ND	97.3	70-130	0.617	20	
Chromium	0.0236	0.00207	"	0.02500	ND	94.5	70-130	2.83	20	
Thallium	0.0252	0.00000762	"	0.02500	ND	101	70-130	3	20	
Selenium	0.0248	0.00206	"	0.02500	ND	99.3	70-130	0.471	20	
Batch 18L0186 - EPA 245.1/245.2 Prep										
Blank (18L0186-BLK1)		Prepared & Analyzed: 12/05/2018								
Mercury	ND	0.00019	mg/L							U

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Metals (Drinking Water) by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 18L0186 - EPA 245.1/245.2 Prep										
LCS (18L0186-BS1)				Prepared & Analyzed: 12/05/2018						
Mercury	0.011	0.00019	mg/L	0.01000		105	85-115			
Matrix Spike (18L0186-MS1)				Source: 18K0957-01		Prepared & Analyzed: 12/05/2018				
Mercury	0.010	0.00019	mg/L	0.01000	ND	99.0	70-130			
Matrix Spike Dup (18L0186-MSD1)				Source: 18K0957-01		Prepared & Analyzed: 12/05/2018				
Mercury	0.010	0.00019	mg/L	0.01000	ND	99.4	70-130	0.317	20	

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Microbiology - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 18L0164 - Colilert Preparation										
Blank (18L0164-BLK1)					Prepared: 12/04/2018 Analyzed: 12/05/2018					
Coliform-Total (E-Coli) by Colilert	Absent	1.00	.							U
Blank (18L0164-BLK2)					Prepared: 12/04/2018 Analyzed: 12/05/2018					
Coliform-Total (E-Coli) by Colilert	Absent	1.00	.							U

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Notes and Definitions

- U Indicated that the compound was analyzed for but not detected. This shall be used to indicate that the specific component was not detected. The value associated with the qualifier shall be the laboratory method detection limit.
- Q Sample held beyond accepted holding time.
- J3 The matrix spike recovery outside method acceptance limits indicating matrix interference.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the detection limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- V Indicated that the analyte was detected in both the sample and the associated method blank.
- I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- Z Too many colonies were present for accurate counting.

QC=Qualifier Codes as defined by DEP 62-160
 Unless indicated, soil results are reported on actual (wet) weight basis.
 Work performed by outside (subcontracted) labs denoted by SUB in Analyst Field.
 Results relate only to this sample.

Enrique Ochoa - CSM



Authorized CSM Signature (954) 978-6400
 Florida-Spectrum Environmental Services, Inc.
 Certification# E86006

All NELAP certified analysis are performed in accordance with Chapter 64E-1 Florida Administrative code, which has been determined to be equivalent to NELAC standards. Analysis certified by programs other than NELAP are designated with a "~".

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WORK ORDER #
182044



Doc. Ctrl: 040118-002
Date: 9/22/18 Rev. 1

Report to: (company name) **EPAC**

Invoice to: (company name) **EPAC**

Project Name and/or Number: **2189147 Shredded Tire**

Project Contact: **Rachel Jayson**

Sampler Name: **Rachel Jayson**

ORDER # **55-1**

Lab Control Number

Shaded Areas For Laboratory Use Only

CHAIN OF CUSTODY RECORD

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610 Parrot Ave. N, Okeechobee, FL 34972
1910 Harden Blvd, Suite 101, Lakeland, FL 33803

Yellow-Lab File Copy
Pink - Sampler Copy

Report to Address:

Invoice to Address:

Site Location:

Sampler Signature: **Rachel Jayson**

Number of Containers Received & NELAC Letter Suffixes A-?

Matrix

Bottle & Pres.

Time Sampled

Date Sampled

Sample ID

Analysis Required

Field Tests

Temp °C

pH

Chlor

Conduct

Other

Remarks

Signature

Date/Time

Affiliation

Relinquished by:

Received by:

Relinquished by:

Received by:

Relinquished by:

Received by:

Relinquished by:

Received by:

Relinquished by:

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Project Name and/or Number: **2189147 Shredded Tire**

Project Contact: **Rachel Jayson**

Sampler Name: **Rachel Jayson**

ORDER # **55-1**

Lab Control Number

Shaded Areas For Laboratory Use Only

DUE DATE Requested

RUSH RESERVATION #

Rush Surcharges apply

Report to Address: **1001 SW 46th Ave, Pompano Beach**

Invoice to Address: **Same**

Site Location: **9690 HWY 45th Ave to 6792 NW 17th Ave**

Sampler Signature: **Rachel Jayson**

Number of Containers Received & NELAC Letter Suffixes A-?

Matrix

Bottle & Pres.

Time Sampled

Date Sampled

Sample ID

Analysis Required

Field Tests

Temp °C

pH

Chlor

Conduct

Other

Remarks

Signature

Date/Time

Affiliation

Relinquished by:

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WORK ORDER #
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Doc. Ctrl: 040118-002
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Report to: (company name) **EPAC**

Invoice to: (company name) **EPAC**

Project Name and/or Number: **2189147 Shredded Tire**

Project Contact: **Rachel Jayson**

Sampler Name: **Rachel Jayson**

ORDER # **55-1**

Lab Control Number

Shaded Areas For Laboratory Use Only

DUE DATE Requested

RUSH RESERVATION #

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Report to Address: **1001 SW 46th Ave, Pompano Beach**

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Site Location: **9690 HWY 45th Ave to 6792 NW 17th Ave**

Sampler Signature: **Rachel Jayson**

Number of Containers Received & NELAC Letter Suffixes A-?

Matrix

Bottle & Pres.

Time Sampled

Date Sampled

Sample ID

Analysis Required

Field Tests

Temp °C

pH

Chlor

Conduct

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Signature

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Affiliation

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WORK ORDER #
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Invoice to: (company name) **EPAC**

Project Name and/or Number: **2189147 Shredded Tire**

Project Contact: **Rachel Jayson**

Sampler Name: **Rachel Jayson**

ORDER # **55-1**

Lab Control Number

Shaded Areas For Laboratory Use Only

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RUSH RESERVATION #

Rush Surcharges apply

Report to Address: **1001 SW 46th Ave, Pompano Beach**

Invoice to Address: **Same**

Site Location: **9690 HWY 45th Ave to 6792 NW 17th Ave**

Sampler Signature: **Rachel Jayson**

Number of Containers Received & NELAC Letter Suffixes A-?

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Relinquished by:

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Received by:

Relinquished by:

Received by:

Relinquished by:

Received by:

Relinquished by:

Received by:

WORK ORDER #
182044



Doc. Ctrl: 040118-002
Date: 9/22/18 Rev. 1

Report to: (company name) **EPAC**

Invoice to: (company name) **EPAC**

Project Name and/or Number: **2189147 Shredded Tire**

Project Contact: **Rachel Jayson**

Sampler Name: **Rachel Jayson**

ORDER # **55-1**

Lab Control Number

Shaded Areas For Laboratory Use Only

DUE DATE Requested

RUSH RESERVATION #

Rush Surcharges apply

Report to Address: **1001 SW 46th Ave, Pompano Beach**

Invoice to Address: **Same**

Site Location: **9690 HWY 45th Ave to 6792 NW 17th Ave**

Sampler Signature: **Rachel Jayson**



1460 West McNab Road
Fort Lauderdale, FL 33309
1-800-ANALYTE Phone
(954) 978-6400 Phone
(954) 978-2233 Fax

NELAP Certificate No. E86006

09 January 2019

Lab Work Order (COC): 18L0786

Rachel Jayson
EPAC
1001 SW 46th Avenue
Pompano Beach, FL 33069

RE: 2189147 Shredded Tire Product

Project Location: 6742 NW 17th Avenue, Ft. Lauderdale, FL 33309

Dear Rachel Jayson:

This report details the analytical results of samples collected at the above-referenced project location as well as the results of any associated quality control samples. These samples were received by Florida Spectrum Environmental Services at **12/27/2018 13:35**.

All Analyses were performed according to the TNI/NELAP standard unless indicated by a "~" on the report.

Your samples will be retained by Florida Spectrum Environmental for a period of at least 30 days following sample receipt or until the longest of the preparation and/or analytical hold times expires, whichever is shorter. After that time, they will be properly disposed without further notice, unless there exists an explicit contractual agreement to the contrary. We reserve the right to return any unused samples, extracts, or related materials or solutions to you if we consider it necessary. Examples might include those samples identified as hazardous wastes, submissions where the sample sizes significantly exceed those required for analysis, samples containing controlled substances, etc.

We thank you for selecting Florida Spectrum Environmental to serve your analytical needs. Should you have any questions or require additional information regarding any of the information in this report, please feel free to contact us at any time. We appreciate the opportunity to be of service.

Florida Spectrum Environmental Inc.

A handwritten signature in black ink, appearing to be "D. P. ...", written over a horizontal line. There is a small "x" mark to the left of the signature.



Report To:
Rachel Jayson
EPAC
1001 SW 46th Avenue
Pompano Beach FL, 33069

Page 2 of 5
Report Printed: 1/9/2019
Work Order # 18L0786
Project: 2189147 Shredded Tire Product
6742 NW 17th Avenue, Ft. Lauderdale, FL
33309

DETECTED ANALYTE SUMMARY

<u>Client Sample ID</u>	<u>Laboratory ID</u>	<u>Matrix</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Collection Date</u>	<u>Collection Time</u>
DW-2	18L0786-02	Water	Aluminum	0.0551	mg/L	12/27/2018	13:32

Florida-Spectrum Environmental Services, Inc.
1460 W. McNab Road, Fort Lauderdale, FL 33309

Pembroke Laboratory
528 Gooch Rd.
Fort Mead, FL 33841

Big Lake Laboratory
610 Parrot Ave. N.
Okeechobee, FL 34972

Lakeland Laboratory
1910 Harden Blvd.
Lakeland, FL 33803

Savannah Laboratory
108 Airport Park Dr.
Garden City, GA 31408



Report To:
 Rachel Jayson
 EPAC
 1001 SW 46th Avenue
 Pompano Beach FL, 33069

Page 3 of 5
 Report Printed: 1/9/2019
 Work Order # 18L0786
 Project: 2189147 Shredded Tire Product
 6742 NW 17th Avenue, Ft. Lauderdale, FL 33309

Lab ID: 18L0786-01
 Client Sample ID: DW-1
 Matrix: Water

Collection Date: 12/27/18 13:30
 Received Date: 12/27/18 13:35
 Collected By: Rachel Jayson

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
-----------	--------	----	-------	-----	-----	-----	--------	-----------	-------------	---------

Metals (Drinking Water) by EPA 200 Series Methods

Aluminum	ND	U	mg/L	1	0.0021	0.0100	EPA 200.7	12/28 08:00	12/28 10:51	IN
----------	----	---	------	---	--------	--------	-----------	-------------	-------------	----

Lab ID: 18L0786-02
 Client Sample ID: DW-2
 Matrix: Water

Collection Date: 12/27/18 13:32
 Received Date: 12/27/18 13:35
 Collected By: Rachel Jayson

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
-----------	--------	----	-------	-----	-----	-----	--------	-----------	-------------	---------

Metals (Drinking Water) by EPA 200 Series Methods

Aluminum	0.0551		mg/L	1	0.0021	0.0100	EPA 200.7	12/28 08:00	12/28 10:54	IN
----------	--------	--	------	---	--------	--------	-----------	-------------	-------------	----

Florida-Spectrum Environmental Services, Inc.
 1460 W. McNab Road, Fort Lauderdale, FL 33309

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 Fort Mead, FL 33841

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 1910 Harden Blvd.
 Lakeland, FL 33803

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 108 Airport Park Dr.
 Garden City, GA 31408



Report To:
 Rachel Jayson
 EPAC
 1001 SW 46th Avenue
 Pompano Beach FL, 33069

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Report Printed: 1/9/2019
Work Order # 18L0786
Project: 2189147 Shredded Tire Product
 6742 NW 17th Avenue, Ft. Lauderdale, FL
 33309

Metals (Drinking Water) by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 18L0071 - EPA 3010A										
Blank (18L0071-BLK1)				Prepared & Analyzed: 12/28/2018						
Aluminum	ND	0.0100	mg/L							U
LCS (18L0071-BS1)				Prepared & Analyzed: 12/28/2018						
Aluminum	0.5061	0.0100	mg/L	0.5000		101	85-115			
Matrix Spike (18L0071-MS1)				Source: 18L0803-01		Prepared & Analyzed: 12/28/2018				
Aluminum	0.5360	0.0100	mg/L	0.5000	0.0140	104	70-130			
Matrix Spike Dup (18L0071-MSD1)				Source: 18L0803-01		Prepared & Analyzed: 12/28/2018				
Aluminum	0.5345	0.0100	mg/L	0.5000	0.0140	104	70-130	0.288	20	

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Report To:
 Rachel Jayson
 EPAC
 1001 SW 46th Avenue
 Pompano Beach FL, 33069

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Report Printed: 1/9/2019
Work Order # 18L0786
Project: 2189147 Shredded Tire Product
 6742 NW 17th Avenue, Ft. Lauderdale, FL
 33309

Notes and Definitions

- U Indicated that the compound was analyzed for but not detected. This shall be used to indicate that the specific component was not detected. The value associated with the qualifier shall be the laboratory method detection limit.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the detection limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- V Indicated that the analyte was detected in both the sample and the associated method blank.
- I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- Z Too many colonies were present for accurate counting.

QC=Qualifier Codes as defined by DEP 62-160
 Unless indicated, soil results are reported on actual (wet) weight basis.
 Work performed by outside (subcontracted) labs denoted by SUB in Analyst Field.

Results relate only to this sample.

Enrique Ochoa - CSM



Authorized CSM Signature (954) 978-6400
 Florida-Spectrum Environmental Services, Inc.
 Certification# E86006

All NELAP certified analysis are performed in accordance with Chapter 64E-1 Florida Administrative code, which has been determined to be equivalent to NELAC standards. Analysis certified by programs other than NELAP are designated with a "~".

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 Lakeland, FL 33803

Savannah Laboratory
 108 Airport Park Dr.
 Garden City, GA 31408

WORK ORDER #

1860786

Florida Spectrum
Environmental Services, Inc.

Doc. Ctrl: 0401118-002
Date: 9/22/18 Rev. 1

CHAIN OF CUSTODY RECORD

1460 W. McNab Road, Ft Laud. FL 33309
 108 Airport Park Dr., Garden City, GA 31408
 528 Gooch Rd., Fort Meade, FL 33841
 610 Parrot Ave. N, Okeechobee, FL 34972
 1910 Harden Blvd, Suite 101, Lakeland, FL 33803

Yellow-Lab File Copy

1001 SW Y6 Ave, Pompano
same
6742 NW 17th Ave, Ft Lauderdale

Pink - Sampler Copy

1001 SW Y6 Ave, Pompano
same
6742 NW 17th Ave, Ft Lauderdale

DUE DATE REQUESTED

RUSH RESERVATION #
Rush. Surcharges apply

Report to:

(company name) EPAC

Invoice to:

EPAC

Purchase Order #

2189147

Project Name and/or Number

2189147 Shredded Tire Product

Project Contact:

Rachael Jayson

Phone:

954-974-7055

Affiliation:

PM

Sampler Signature

Rachael Jayson

Email:

rjayson@epac.com

ORDER #

01

Sample ID

DW-1

Date Sampled

12/27/18

Time Sampled

13:30

Matrix

DW

Bottle & Pres.

OK

Combo Codes

OK

Number of Containers Received & NELAC Letter Suffixes #

1

A-?

✓

Lab Control Number

02

Date Sampled

12/27/18

Time Sampled

13:32

Matrix

DW

Bottle & Pres.

OK

Combo Codes

OK

Number of Containers Received & NELAC Letter Suffixes #

1

A-?

✓

Shaded Areas For Laboratory Use Only

ORDER #	Lab Control Number	Sample ID	Date Sampled	Time Sampled	Matrix	Bottle & Pres.	Combo Codes	Number of Containers Received & NELAC Letter Suffixes #	A-?	TEMP °C	PH	COND	CHLOR
01		DW-1	12/27/18	13:30	DW	OK		1	✓				
02		DW-2	12/27/18	13:32	DW	OK		1	✓				

Special Comments:

"I waive TNI protocol" (emergency) (sign here) >

Deliverables:

QA/QC Report Needed? Yes No (additional charge)

Signature

Rachael Jayson 12/27/18 13:35

Relinquished by:

1

Relinquished by:

2

Relinquished by:

3

Signature

Rachael Jayson 12/27/18 13:35

Relinquished by:

1

Relinquished by:

2

Relinquished by:

3

Sample Custody & Field Comments

Received on ice: Y

Temp as received: 23.2

Custody seals? Y

RAD-9 GUN-1

FIELD TIME

Sampling ___ hrs Pick Up ___ hrs

Misc. Charges

TED-Tedlar Air Bag

Additional Preservatives

Hex-Hex Cr Buffer

EDA-Ethylene Diamine

Preservatives

A-ascorbic acid

C-HCL

Cu-CuSO4

DI-DI water

H-HNO3

M-MCAB

MeOH-Methanol

Z-zinc acetate

P-H3PO4

S-H2SO4

T-Na2S2O3

U-Unpreserved

N-NaOH

NH4-NH4CL

Y-Sterile

Additional Preservatives

Hex-Hex Cr Buffer

EDA-Ethylene Diamine

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COC Page ___ of ___