ANALYTICAL REPORT

Eurofins TestAmerica, Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
Tel: (865)291-3000

Laboratory Job ID: 140-23387-1
Client Project/Site: Method 24 Testing

For:
CreteDefender, Inc.
50 South Main Street
Suite 200
Naperville, Illinois 60540

Attn: Tom Nickell

Ryan Henry

Authorized for release by:
6/24/2021 1:22:11 PM

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Definitions/Glossary

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Client: CreteDefender, Inc.
Project/Site: Method 24 Testing

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Laboratory: Eurofins TestAmerica, Knoxville

Narrative

Job Narrative
140-23387-1

Receipt
The samples were received on 6/8/2021 at 2:00pm and arrived in good condition, and where required, properly preserved and on ice.

Receipt Exceptions
The Field Sampler was not listed on the Chain of Custody.

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed.   Not relinquished.

General Chemistry
Percent Water by Karl Fischer Titration: This procedure is used to determine percent water in various matrices. This procedure is based on ASTM Test Method D4017, with guidance from Test Methods D3792 and E203. This procedure is applicable to most liquid or solid organic or inorganic compounds. This procedure is applicable to all paints, paint materials, and coatings; including resins, monomers, and solvents.

This procedure is performed using a volumetric titration. After dehydrated solvent is supplied to the titration flask, the sample is dissolved in the solvent, and moisture in the sample is extracted into the solvent. Karl Fischer reagent is added to the titration flask until the water is consumed. The percent water is determined from the volume of Karl Fischer reagent required to consume all of the water present. Some matrices may be diluted in anhydrous methanol or another suitable solvent before introduction to the reaction vessel.

Density: The density (or specific gravity) of the samples was determined using SOP number KNOX-WC-0015, based on ASTM Methods D1475 (replaced D1963) and D854. A Hubbard-Carmick type pycnometer is tared on a four-place analytical balance. The pycnometer filled with water is weighed to calibrate the volume at the desired temperature. The pycnometer filled with sample is weighed to determine the weight of the sample at the calibrated volume. The standard temperature for this procedure is 25ºC. The density and specific gravity of the material are calculated using the following equations:

$$d(SAMP) = [C(T) - A] / V(T)$$

Where:
$d(SAMP)$ = Density of the liquid sample at temperature T, g/cm3
$C(T)$ = Weight of pycnometer filled with sample at temperature T, g
A = Weight of pycnometer, g
$V(T)$ = Volume of pycnometer at temperature T, cm3

$$d(SAMP) = [C(T) - A] / [V(T) - [(D(T) - C(T)) / dH2O(T)]]$$

Where:
$d(SAMP)$ = Density of the solid sample at temperature T, g/cm3
$D(T)$ = Weight of pycnometer filled with water and an aliquot of the sample at temperature T, g
$C(T)$ = Weight of pycnometer partially filled with an aliquot of the sample at temperature T, g
A = Weight of pycnometer, g
$dH2O(T)$ = Density of pure water at temperature T, g/cm3
$V(T)$ = Volume of pycnometer at temperature T, cm3

$$S(T) = d(SAMP) / dH2O(T)$$

Where:
$S(T)$ = Specific gravity of the sample at temperature T, unitless
$d(SAMP)$ = Density of the sample at temperature T, g/cm3

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Laboratory: Eurofins TestAmerica, Knoxville (Continued)

$dH_2O(T)$ = Density of pure water at temperature T, g/cm3
T = Temperature of analysis

Conversion factors:
1 lb/gal = 0.1198 g/cm3
1 Kg/cu. m = 0.001 g/cm3

D2369 - Volatile Content, Non-Volatile Solids, Volatile Organic Content: Percent volatile matter content was determined following Standard Operating Procedure KNOX-WC-0004, which is based on ASTM Test Method D2369. This data was used, in conjunction with percent water data, to calculate Percent Volatile Organic Content. This aspect of the standard operating procedure is based on ASTM D3960 and EPA Method 24. A designated quantity of coating material is weighed into an aluminum foil dish containing 3 ± 1 mL of an appropriate solvent, dispersed, and heated in an oven at 110 ± 5°C for 60 minutes. The percent volatile matter content is calculated from the loss in weight.

The equation used to calculate percent volatile matter content is as follows:

Percent Volatile Matter Content (%VMC):

%VMC = 100 - [((W2-W1) / S) x 100]

Where:
W1 = Weight of dish
W2 = Weight of dish plus residue after heating
S = Weight of sample

The equation used to calculate the percent non-volatile solids is as follows:

Percent Non-Volatile Solids:

%NVS = 100% - %VMC

Where:
%NVS = Percent Non-Volatile Solids

The volatile organic content, as presented in this report, is determined by subtracting the contribution of water from the volatile content of the sample. The contributions of certain exempted solvent content (volatile materials specified as exempt by the applicable regulations) are not subtracted from the results presented in this report. The equation used to calculate volatile organic content is as follows:

Percent Volatile Organic Content (%VMC corrected for water component):

%VOC = %VMC - W

Where:
%VOC = Percent volatile content corrected for water
W = Percent water in the sample
VC = Percent volatile content

The volatile organic content may be calculated in weight per volume units. Usually the VOC is reported in pounds per gallon (lb/gallon), but it may also be reported in grams per liter (g/L). The following equations are used to convert the units:

Percent Volatile Organic Content (Weight per Volume):

%VOC = %VOC x D (w/v)

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Where:
%VOC = Percent volatile organic content
D = Density of the sample in lb/gal, or g/L

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
140-23387-1	CreteDefender P2	Waste	06/03/21 18:30	06/08/21 14:00	
140-23387-2	CreteDefender CP	Waste	06/03/21 18:30	06/08/21 14:00	
140-23387-3	CreteDefender MS2	Waste	06/03/21 18:30	06/08/21 14:00	

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Client Sample Results

Client: CreteDefender, Inc.
Project/Site: Method 24 Testing

Client Sample ID: CreteDefender P2
Date Collected: 06/03/21 18:30
Date Received: 06/08/21 14:00

Lab Sample ID: 140-23387-1
Matrix: Waste

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Density	**1.08**		0.0100		g/cm3			06/15/21 16:54	1
Volatile Organic Content	ND		0.995		g/L			06/17/21 14:59	1
Volatile Organic Content	ND		0.100		%			06/18/21 10:31	1
Non-Volatile Matter	**11.3**		0.100		%			06/18/21 10:31	1
Volatile Matter Content	**88.7**		0.100		%			06/18/21 10:31	1
Percent Water	**90.2**		0.100		%			06/14/21 09:57	1

Client Sample ID: CreteDefender CP
Date Collected: 06/03/21 18:30
Date Received: 06/08/21 14:00

Lab Sample ID: 140-23387-2
Matrix: Waste

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Density	**1.09**		0.0100		g/cm3			06/15/21 16:54	1
Volatile Organic Content	ND		0.995		g/L			06/17/21 14:59	1
Volatile Organic Content	ND		0.100		%			06/18/21 10:31	1
Non-Volatile Matter	**12.8**		0.100		%			06/18/21 10:31	1
Volatile Matter Content	**87.2**		0.100		%			06/18/21 10:31	1
Percent Water	**90.2**		0.100		%			06/14/21 09:57	1

Client Sample ID: CreteDefender MS2
Date Collected: 06/03/21 18:30
Date Received: 06/08/21 14:00

Lab Sample ID: 140-23387-3
Matrix: Waste

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Density	**1.14**		0.0100		g/cm3			06/15/21 16:54	1
Volatile Organic Content	ND		0.995		g/L			06/17/21 14:59	1
Volatile Organic Content	ND		0.100		%			06/18/21 10:31	1
Non-Volatile Matter	**3.74**		0.100		%			06/18/21 10:31	1
Volatile Matter Content	**96.3**		0.100		%			06/18/21 10:31	1
Percent Water	**97.3**		0.100		%			06/14/21 09:57	1

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Default Detection Limits

General Chemistry

Analyte	RL	RL	Units
Density	0.0100	0.0100	g/cm3
Non-Volatile Matter	0.100	0.100	%
Volatile Matter Content	0.100	0.100	%
Volatile Organic Content	0.995	0.995	g/L
Volatile Organic Content	0.100	0.100	%
Percent Water	0.100	0.100	%

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Client: CreteDefender, Inc.

Project/Site: Method 24 Testing

Job ID: 140-23387-1

Method: D1475 - Density

Lab Sample ID: LCS 140-50863/1
Matrix: Waste
Analysis Batch: 50863

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Density	0.997	0.9970		g/cm3		100	99 - 101

Method: D2369 - Volatile Organic Content

Lab Sample ID: MB 140-50939/1
Matrix: Waste
Analysis Batch: 50939

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Volatile Organic Content	ND		0.995	g/L			06/17/21 14:59	1

Lab Sample ID: 140-23387-3 DU
Matrix: Waste
Analysis Batch: 50939

Client Sample ID: CreteDefender MS2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Volatile Organic Content	ND		ND		g/L		NC	20

Lab Sample ID: MB 140-50966/1
Matrix: Waste
Analysis Batch: 50966

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Volatile Organic Content	ND		0.100	%			06/18/21 10:31	1
Non-Volatile Matter	99.99		0.100	%			06/18/21 10:31	1
Volatile Matter Content	ND		0.100	%			06/18/21 10:31	1

Lab Sample ID: MB 140-50966/2
Matrix: Waste
Analysis Batch: 50966

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Non-Volatile Matter	ND		0.100	%			06/18/21 10:31	1

Lab Sample ID: 140-23387-3 DU
Matrix: Waste
Analysis Batch: 50966

Client Sample ID: CreteDefender MS2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Volatile Organic Content	ND		ND		%		NC	20
Non-Volatile Matter	3.74		3.730		%		0.3	20
Volatile Matter Content	96.3		96.27		%		0	2.0

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Method: D4017 - Percent Water (Karl Fischer)

Lab Sample ID: LCS 140-50793/2
Matrix: Waste
Analysis Batch: 50793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Percent Water			12.6	12.99		%		103	95 - 105		

Lab Sample ID: LCSD 140-50793/3
Matrix: Waste
Analysis Batch: 50793

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Percent Water			12.6	13.16		%		105	95 - 105	1	5

Lab Sample ID: 140-23387-2 DU
Matrix: Waste
Analysis Batch: 50793

Client Sample ID: CreteDefender CP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D		RPD	RPD Limit
Percent Water	90.2			91.22		%			1	5

General Chemistry

Analysis Batch: 50793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-23387-1	CreteDefender P2	Total/NA	Waste	D4017	
140-23387-2	CreteDefender CP	Total/NA	Waste	D4017	
140-23387-3	CreteDefender MS2	Total/NA	Waste	D4017	
LCS 140-50793/2	Lab Control Sample	Total/NA	Waste	D4017	
LCSD 140-50793/3	Lab Control Sample Dup	Total/NA	Waste	D4017	
140-23387-2 DU	CreteDefender CP	Total/NA	Waste	D4017	

Analysis Batch: 50863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-23387-1	CreteDefender P2	Total/NA	Waste	D1475	
140-23387-2	CreteDefender CP	Total/NA	Waste	D1475	
140-23387-3	CreteDefender MS2	Total/NA	Waste	D1475	
LCS 140-50863/1	Lab Control Sample	Total/NA	Waste	D1475	

Analysis Batch: 50939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-23387-1	CreteDefender P2	Total/NA	Waste	D2369	
140-23387-2	CreteDefender CP	Total/NA	Waste	D2369	
140-23387-3	CreteDefender MS2	Total/NA	Waste	D2369	
MB 140-50939/1	Method Blank	Total/NA	Waste	D2369	
140-23387-3 DU	CreteDefender MS2	Total/NA	Waste	D2369	

Analysis Batch: 50966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-23387-1	CreteDefender P2	Total/NA	Waste	D2369	
140-23387-2	CreteDefender CP	Total/NA	Waste	D2369	
140-23387-3	CreteDefender MS2	Total/NA	Waste	D2369	
MB 140-50966/1	Method Blank	Total/NA	Waste	D2369	
MB 140-50966/2	Method Blank	Total/NA	Waste	D2369	
140-23387-3 DU	CreteDefender MS2	Total/NA	Waste	D2369	

Lab Chronicle

Client Sample ID: CreteDefender P2 — Lab Sample ID: 140-23387-1
Date Collected: 06/03/21 18:30

Date Received: 06/08/21 14:00

Matrix: Waste

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D1475		1			50863	06/15/21 16:54	JGT	TAL KNX
	Instrument ID: NOEQUIP									
Total/NA	Analysis	D2369		1			50939	06/17/21 14:59	LDP	TAL KNX
	Instrument ID: A2									
Total/NA	Analysis	D2369		1			50966	06/18/21 10:31	LDP	TAL KNX
	Instrument ID: A2									
Total/NA	Analysis	D4017		1	1 g	1 g	50793	06/14/21 09:57	NRL	TAL KNX
	Instrument ID: KF-21									

Client Sample ID: CreteDefender CP — Lab Sample ID: 140-23387-2
Date Collected: 06/03/21 18:30

Date Received: 06/08/21 14:00

Matrix: Waste

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D1475		1			50863	06/15/21 16:54	JGT	TAL KNX
	Instrument ID: NOEQUIP									
Total/NA	Analysis	D2369		1			50939	06/17/21 14:59	LDP	TAL KNX
	Instrument ID: A2									
Total/NA	Analysis	D2369		1			50966	06/18/21 10:31	LDP	TAL KNX
	Instrument ID: A2									
Total/NA	Analysis	D4017		1	1 g	1 g	50793	06/14/21 09:57	NRL	TAL KNX
	Instrument ID: KF-21									

Client Sample ID: CreteDefender MS2 — Lab Sample ID: 140-23387-3
Date Collected: 06/03/21 18:30

Date Received: 06/08/21 14:00

Matrix: Waste

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D1475		1			50863	06/15/21 16:54	JGT	TAL KNX
	Instrument ID: NOEQUIP									
Total/NA	Analysis	D2369		1			50939	06/17/21 14:59	LDP	TAL KNX
	Instrument ID: A2									
Total/NA	Analysis	D2369		1			50966	06/18/21 10:31	LDP	TAL KNX
	Instrument ID: A2									
Total/NA	Analysis	D4017		1	1 g	1 g	50793	06/14/21 09:57	NRL	TAL KNX
	Instrument ID: KF-21									

Client Sample ID: Method Blank — Lab Sample ID: MB 140-50939/1
Date Collected: N/A

Date Received: N/A

Matrix: Waste

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2369		1			50939	06/17/21 14:59	LDP	TAL KNX
	Instrument ID: A2									

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Lab Chronicle

Client Sample ID: Method Blank
Lab Sample ID: MB 140-50966/1
Date Collected: N/A

Date Received: N/A

Matrix: Waste

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2369		1			50966	06/18/21 10:31	LDP	TAL KNX
		Instrument ID: A2								

Client Sample ID: Method Blank
Lab Sample ID: MB 140-50966/2
Date Collected: N/A

Date Received: N/A

Matrix: Waste

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2369		1			50966	06/18/21 10:31	LDP	TAL KNX
		Instrument ID: A2								

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 140-50793/2
Date Collected: N/A

Date Received: N/A

Matrix: Waste

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D4017		1	1 g	1 g	50793	06/14/21 09:57	NRL	TAL KNX
		Instrument ID: KF-21								

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 140-50863/1
Date Collected: N/A

Date Received: N/A

Matrix: Waste

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D1475		1			50863	06/15/21 16:54	JGT	TAL KNX
		Instrument ID: NOEQUIP								

Client Sample ID: Lab Control Sample Dup
Lab Sample ID: LCSD 140-50793/3
Date Collected: N/A

Date Received: N/A

Matrix: Waste

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D4017		1	1 g	1 g	50793	06/14/21 09:57	NRL	TAL KNX
		Instrument ID: KF-21								

Client Sample ID: CreteDefender CP
Lab Sample ID: 140-23387-2 DU
Date Collected: 06/03/21 18:30

Date Received: 06/08/21 14:00

Matrix: Waste

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D4017		1	1 g	1 g	50793	06/14/21 09:57	NRL	TAL KNX
		Instrument ID: KF-21								

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Client: CreteDefender, Inc.

Job ID: 140-23387-1

Project/Site: Method 24 Testing

Client Sample ID: CreteDefender MS2

Lab Sample ID: 140-23387-3 DU

Date Collected: 06/03/21 18:30

Matrix: Waste

Date Received: 06/08/21 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2369		1			50939	06/17/21 16:08	LDP	TAL KNX
	Instrument ID: A2									
Total/NA	Analysis	D2369		1			50966	06/18/21 10:31	LDP	TAL KNX
	Instrument ID: A2									

Laboratory References:

TAL KNX = Eurofins TestAmerica, Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

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Accreditation/Certification Summary

Laboratory: Eurofins TestAmerica, Knoxville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	N/A	
ANAB	Dept. of Defense ELAP	L2311	02-13-22
ANAB	Dept. of Energy	L2311.01	02-13-22
ANAB	ISO/IEC 17025	L2311	02-13-22
Arkansas DEQ	State	88-0688	06-17-21 *
California	State	2423	06-30-22
Colorado	State	TN00009	02-28-22
Connecticut	State	PH-0223	09-30-21
Florida	NELAP	E87177	07-01-21
Georgia (DW)	State	906	12-11-22
Hawaii	State	NA	12-11-21
Kansas	NELAP	E-10349	10-31-21
Kentucky (DW)	State	90101	12-31-21
Louisiana	NELAP	83979	06-30-21
Louisiana (DW)	State	LA019	12-31-21
Maryland	State	277	03-31-22
Michigan	State	9933	12-11-22
Nevada	State	TN00009	07-31-21
New Hampshire	NELAP	299919	01-17-22
New Jersey	NELAP	TN001	07-01-21
New York	NELAP	10781	03-31-22
North Carolina (DW)	State	21705	07-31-21
North Carolina (WW/SW)	State	64	12-31-21
Ohio VAP	State	CL0059	06-02-23
Oklahoma	State	9415	08-31-21
Oregon	NELAP	TNI0189	01-01-22
Pennsylvania	NELAP	68-00576	12-31-21
Tennessee	State	02014	12-11-22
Texas	NELAP	T104704380-18-12	08-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-19-00236	08-20-22
Utah	NELAP	TN00009	07-31-21
Virginia	NELAP	460176	09-14-21
Washington	State	C593	01-19-22
West Virginia (DW)	State	9955C	01-02-22
West Virginia DEP	State	345	04-30-22
Wisconsin	State	998044300	08-31-21

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

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Method Summary

Method	Method Description	Protocol	Laboratory
D1475	Density	ASTM	TAL KNX
D2369	Volatile Organic Content	ASTM	TAL KNX
D4017	Percent Water (Karl Fischer)	ASTM	TAL KNX

Protocol References:

ASTM = ASTM International

Laboratory References:

TAL KNX = Eurofins TestAmerica, Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Eurofins TestAmerica, Knoxville

Chain of Custody Record

Eurofins TestAmerica, Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
Phone: 865-291-3000 Fax: 865-584-4315

eurofins | Environment Testing America

COC No: 140-9463-2841.1
Page: Page 1 of 1
Job #:

Client Information

Client Contact: Tom Nickell
Company: CreteDefender, Inc.
Address: 50 South Main Street Suite 200
City: Naperville
State, Zip: IL, 60540
Phone:
Email: tom@cretedefender.com
Project Name:
Project #: 14006356
Site:
SSOW#:

Sampler:
Phone:
Lab PM: Henry, Ryan
E-Mail: williamr.henry@eurofinset.com
PWSID:
Carrier Tracking No(s):
State of Origin:

Due Date Requested:
TAT Requested (days):
Compliance Project: △ Yes △ No
PO #:
Purchase Order not required
WO #:

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code	Perform MS/MSD (Yes or No) D1475, D2369, D4017	Total Number of containers
P2	6-3-21	6:30P	G	W		✓	2
CP	6-3-21	6:30P	G	W		✓	2
MS2	6-3-21	6:30P	G	W		✓	2
K	6-3-21	6:30P	G	W		✓	2
I	6-3-21	6:30P	G	W		✓	2
HP	6-3-21	6:30P	G	W		✓	2

Field Filtered Sample (Yes or No) N

Special Instructions/Note:

140-23387 Chain of Custody

RT: 19.9°c CT: 20.0°c 1 cooler
Wes Ground Custody seal intact
TrK#12 25Y 095 03 9793 8636
KW 6/8/21

Possible Hazard Identification
△ Non-Hazard △ Flammable △ Skin Irritant △ Poison B △ Unknown △ Radiological
Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
△ Return To Client △ Disposal By Lab △ Archive For ___ Months
Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: Time:
Method of Shipment:

Relinquished by:	Company	Date/Time:	Received by:	Company	Date/Time: 6/7/21 1400 ETA
Relinquished by:	Company	Date/Time:	Received by:	Company	Date/Time:
Relinquished by:	Company	Date/Time:	Received by:	Company	Date/Time:

Custody Seals Intact: △ Yes △ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

Ver: 11.01.2020

EUROFINS/TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Log In Number: _____

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Are the shipping containers intact?	✓			☐ Containers, Broken	10
2. Were ambient air containers received intact?			✓	☐ Checked in lab	
3. The coolers/containers custody seal if present, is it intact?	✓			☐ Yes ☐ NA	14
4. Is the cooler temperature within limits? (> freezing temp. of water to 6°C, VOST: 10°C) Thermometer ID : _____ Correction factor: _____			✓	☐ Cooler Out of Temp, Client Contacted, Proceed/Cancel ☐ Cooler Out of Temp, Same Day Receipt	
5. Were all of the sample containers received intact?	✓		✓	☐ Containers, Broken	
6. Were samples received in appropriate containers?	✓			☐ Containers, Improper; Client Contacted; Proceed/Cancel	
7. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ COC & Samples Do Not Match ☐ COC Incorrect/Incomplete ☐ COC Not Received	
8. Were all of the samples listed on the COC received?	✓			☐ Sample Received, Not on COC ☐ Sample on COC, Not Received	
9. Is the date/time of sample collection noted?			✓	☐ COC; No Date/Time; Client Contacted	
10. Was the sampler identified on the COC?		✓		☑ Sampler Not Listed on COC	Labeling Verified by: _____ Date:
11. Is the client and project name/# identified?	✓			☐ COC Incorrect/Incomplete	pH test strip lot number:
12. Are tests/parameters listed for each sample?	✓			☐ COC No tests on COC	
13. Is the matrix of the samples noted?		✓		☐ COC Incorrect/Incomplete	
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☑ COC Incorrect/Incomplete	
15. Were samples received within holding time?			✓	☐ Holding Time – Receipt	
16. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ pH Adjusted, pH Included (See box 16A) ☐ Incorrect Preservative	
17. Were VOA samples received without headspace?			✓	☐ Headspace (VOA only)	
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number: _____			✓	☐ Residual Chlorine	
19. For 1613B water samples is pH<9?			✓	☐ If no, notify lab to adjust	
20. For rad samples was sample activity info. Provided?				☐ Project missing info	

	Box 16A: pH Preservation	Box 18A: Residual Chlorine
Preservative:		
Lot Number:		
Exp Date:		
Analyst:		
Date:		
Time:		

Project #: _____ PM Instructions: _____

Sample Receiving Associate: _____ Date: 6-9-21

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6/24/2021