





SOIL ANALYSIS


Send To: Cinderite LLC 2303 North Coral Canyon Boulevard Suite 101 Washington, UT 84780	Project : Cinderite Parablend	Report No : 19-217-0022 Cust No : 10004 Date Printed : 08/13/2019 Date Received : 08/05/2019 Page : 1 of 1 Lab Number : 06895
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Sample Id : **Cinderite Parablend**











SATURATION EXTRACT - PLANT SUITABILITY

Test	Result	Effect on Plant Growth				
		Negligible	Sensitive Crops Restricted	Many Crops Restricted	Only Tolerant Crops Satisfactory	Few Crops Survive
Salinity (ECe)	0.1 dS/m					
Sodium Adsorption Ratio (SAR) *	0.81					
Boron (B)	0.80 ppm					
Sodium (Na)	0.6 meq/L					
Chloride (Cl)						
Carbonate (CO3)						
Bicarbonate (HCO3)						
Fluoride (F)						

* Structure and water infiltration of mineral soils potentially adversely affected at SAR values higher than 6.

Test	Result	Strongly Acidic	Moderately Acidic	Slightly Acidic	Neutral	Slightly Alkaline	Moderately Alkaline	Strongly Alkaline	Qualitative Lime
pH	7.9 s.u.								None

EXTRACTABLE NUTRIENTS

Test	Result	Sufficiency Factor	SOIL TEST RATINGS					NO3-N
			Very Low	Low	Medium	Optimum	Very High	
Available-N	7 ppm	0.1						1 ppm
Phosphorus (P) - Olsen	3 ppm	0.1						NH4-N
Potassium (K)	85 ppm	0.9						6 ppm
Potassium - sat. ext.	0.1 meq/L							Total Exchangeable Cations(TEC)
Calcium (Ca)	317 ppm	0.7						22 meq/kg
Calcium - sat. ext.	0.8 meq/L							
Magnesium (Mg)	47 ppm	0.7						
Magnesium - sat. ext.	0.3 meq/L							
Copper (Cu)	0.6 ppm	2.1						
Zinc (Zn)	2 ppm	1.4						
Manganese (Mn)	0 ppm							
Iron (Fe)	8 ppm	0.8						
Boron (B) - sat. ext.	0.80 ppm	2.7						
Sulfate - sat. ext.	1.2 meq/L	0.4						
Exch Aluminum								

Cu, Zn, Mn and Fe were analyzed by DTPA extract.

PARTICLE SIZE ANALYSIS

Half Sat	Organic Matter	Weight Percent of Sample Passing 2mm Screen							USDA Soil Classification
		Gravel		Sand			Silt	Clay	
		Coarse 5-12	Fine 2-5	Very Coarse 1-2	Coarse 0.5-1	Med. to Very Fine 0.05-0.5	.002-.05	0-.002	
27 %									



Sample Summary Table

Report Number: 19-217-0023
Client Project Description: Cinderite Parablend

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
74502	Cinderite Parablend	Solids		08/05/2019	SW-7471A	
74502	Cinderite Parablend	Solids		08/05/2019	6010D	

10004
Cinderite LLC
2303 North Coral Canyon Boulevard
Suite 101
Washington , UT 84780

Project Cinderite Parablend
Information :

Report Number : **19-217-0023**

REPORT OF ANALYSIS

Report Date : 08/09/2019

Received : 08/05/2019

Lab No : **74502**
Sample ID : **Cinderite Parablend**

Matrix: **Solids**
Sampled:

Analytical Method: 6010D **Prep Batch(es):** **L448156** 08/07/19 11:05
Prep Method: 3050B

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Total Silver	<0.250	mg/Kg	0.250	1	08/08/19 23:17	KKM	L448478
Total Arsenic	1.67	mg/Kg	0.500	1	08/08/19 23:17	KKM	L448478
Total Barium	171	mg/Kg	0.500	1	08/08/19 23:17	KKM	L448478
Total Beryllium	0.195	mg/Kg	0.0500	1	08/08/19 23:17	KKM	L448478
Total Cadmium	0.320	mg/Kg	0.100	1	08/08/19 23:17	KKM	L448478
Total Cobalt	11.7	mg/Kg	0.500	1	08/08/19 23:17	KKM	L448478
Total Chromium	12.1	mg/Kg	0.250	1	08/08/19 23:17	KKM	L448478
Total Copper	22.1	mg/Kg	0.250	1	08/08/19 23:17	KKM	L448478
Total Molybdenum	0.324	mg/Kg	0.250	1	08/08/19 23:17	KKM	L448478
Total Nickel	35.6	mg/Kg	0.250	1	08/08/19 23:17	KKM	L448478
Total Lead	7.82	mg/Kg	0.300	1	08/08/19 23:17	KKM	L448478
Total Antimony	<0.500	mg/Kg	0.500	1	08/08/19 23:17	KKM	L448478
Total Selenium	<0.500	mg/Kg	0.500	1	08/08/19 23:17	BKN	L448478
Total Thallium	<1.00	mg/Kg	1.00	1	08/08/19 23:17	KKM	L448478
Total Vanadium	20.0	mg/Kg	0.500	1	08/08/19 23:17	KKM	L448478
Total Zinc	24.7	mg/Kg	1.25	1	08/08/19 23:17	KKM	L448478

Qualifiers/ Definitions DF Dilution Factor MQL Method Quantitation Limit



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Project Cinderite Parablend
 Information :

Report Number : **19-217-0023**

REPORT OF ANALYSIS

Report Date : 08/09/2019
 Received : 08/05/2019

Lab No : **74502**
 Sample ID : **Cinderite Parablend**

Matrix: **Solids**
 Sampled:

Analytical Method: SW-7471A **Prep Batch(es):** **L448031** 08/07/19 06:50
Prep Method: SW-7471A (PREP)

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Mercury (Total)	<0.0138	mg/Kg	0.0138	1	08/07/19 11:59	TJS	L448376

Qualifiers/ Definitions DF Dilution Factor MQL Method Quantitation Limit