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Report Transmission Cover Page

Bill To: The Black Dirt Company

Box 3130

Spruce Grove, AB, Canada

T7X 3A5

Attn: Accounts Payable

Sampled By: Company: Project ID:

Project Name:

Project Location: LSD:

P.O.:

Proj. Acct. code:

Lot ID: 1724057

Control Number:

Date Received: Apr 9, 2024
Date Reported: Apr 23, 2024
Report Number: 2995702
Report Type: Final Report

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Contact	Company	Address				
Accounts Payable	The Black Dirt Company	Box 3130				
		Spruce Grove, AB T7X 3A5				
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		Email: info@blackdirtcompany.com				
Delivery	<u>Format</u>	<u>Deliverables</u>				
Email - Merge	PDF	COC / Invoice				
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Delivery	<u>Format</u>	<u>Deliverables</u>				
Email	PDF	COC / Test Report				
Email	Standard Crosstab With Tabs	Test Report				
Email - Merge	PDF	COA				
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Delivery	<u>Format</u>	<u>Deliverables</u>				
Email	PDF	COC / Test Report				
Email	Standard Crosstab With Tabs	Test Report				

Notes To Clients:

Apr 11, 2024 - weed seed analysis was performed by a subcontract laboratory. See attached 1 page reports 1184382-01, 1184383-01,1184384-01, & 1184385-01

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Analytical Report

Bill To: The Black Dirt Company

Box 3130

Spruce Grove, AB, Canada

T7X 3A5

Attn: Accounts Payable

Sampled By: Company: Project ID:

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Reference Number Sample Date Sample Time

1724057-3 Apr 09, 2024 NA

INA

Sample Location
Sample Description

Westwinds / TOPSOIL

Matrix Soil

		Matrix	Soil			
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Classification						
Organic Matter	Calculated Value	%	2.74			0.04
Carbon	Total Organic	%	1.37			0.04
Metals Strong Acid Dige	stion					
Antimony	Strong Acid Extractable	mg/kg	<0.2			0.2
Arsenic	Strong Acid Extractable	mg/kg	4.3			0.2
Barium	Strong Acid Extractable	mg/kg	82			1
Beryllium	Strong Acid Extractable	mg/kg	0.3			0.1
Cadmium	Strong Acid Extractable	mg/kg	0.09			0.01
Chromium	Strong Acid Extractable	mg/kg	7.7			0.5
Cobalt	Strong Acid Extractable	mg/kg	4.5			0.1
Copper	Strong Acid Extractable	mg/kg	25			1
Lead	Strong Acid Extractable	mg/kg	5.1			0.1
Mercury	Strong Acid Extractable	mg/kg	<0.05			0.05
Molybdenum	Strong Acid Extractable	mg/kg	<1.0			1.0
Nickel	Strong Acid Extractable	mg/kg	14.2			0.5
Selenium	Strong Acid Extractable	mg/kg	<0.3			0.3
Silver	Strong Acid Extractable	mg/kg	<0.1			0.1
Thallium	Strong Acid Extractable	mg/kg	0.08			0.05
Tin	Strong Acid Extractable	mg/kg	<1.0			1.0
Uranium	Strong Acid Extractable	mg/kg	0.9			0.5
Vanadium	Strong Acid Extractable	mg/kg	13.6			0.1
Zinc	Strong Acid Extractable	mg/kg	80			1
Physical and Aggregate	Properties					
Texture			Sandy Loam			
Sand	50 μm - 2 mm	% by weight	61			0.1
Silt	2 μm - 50 μm	% by weight	23			0.1
Clay	<2 µm	% by weight	16			0.1
Salinity						
Electrical Conductivity	Saturated Paste	dS/m	0.82			0.01
SAR	Saturated Paste		0.5			
% Saturation		%	49			
Calcium	Saturated Paste	mg/kg	56.9			
Magnesium	Saturated Paste	mg/kg	10.8			
Sodium	Saturated Paste	mg/kg	10			
Potassium	Saturated Paste	mg/kg	1			
Chloride	Saturated Paste	mg/L	20			3
Chloride	Saturated Paste	mg/kg	10			
Sulfate (SO4)	Saturated Paste	mg/kg	126			



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Reference Number

Sample Date Sample Time

1724057-3 Apr 09, 2024 NA

Sample Location

Sample Description Westwinds / **TOPSOIL**

Matrix Soil							
Analyte		Units	Results	Results	Results	Nominal Detection Limit	
Salinity - Continued						_	
Boron	Saturated Paste	mg/L	0.18			0.05	
TGR	Saturated Paste	T/ac	<0.1				
Soil Acidity							
pH	1:2 Soil:Water	pН	7.6				
pH	1:2 Soil:CaCl2 sol.	pН	7.4				
Electrical Conductivity	1:2 Soil:Water	dS/m at 25 °C	0.23			0.01	
CCE	as CaCO3	%	0.30			0.2	
Water Soluble Parameters							
Chromium (VI)	Dry Weight	mg/kg	0.07			0.05	
Clubroot Analysis							
Plasmodiophora brassicae	Clubroot Pathogen	spores/g	14300			1000	
Plasmodiophora brassicae	Detected/ Not Detected	spores/g	Detected			1000	
Subcontracted Analysis							
Subcontractor Report Id	Biovision		1184383-01				

Approved by:

Mike Yohemas, BSc



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Methodology and Notes

Bill To: The Black Dirt Company

Box 3130

Spruce Grove, AB, Canada

T7X 3A5

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Sampled By: Company: Project ID: Project Name:

Project Location:

LSD: P.O.:

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Lot ID: 1724057

Apr 9, 2024

Control Number: Date Received:

Date Reported: Apr 23, 2024 Report Number: 2995702 Report Type: Final Report

Method	of Ana	lysis
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Method Name	Reference	Method		Date Analysis Started	Location	
1:5 Water Soluble Extraction	APHA	*	Colorimetric Method, 3500-Cr B	Apr 9, 2024	Element Edmonton - Roper Road	
1:5 Water Soluble Extraction	McKeague	*	Soluble Salts in Extracts of 1:5 Soil:Water Mixtures, 3.23	Apr 9, 2024	Element Edmonton - Roper Road	
Calcium Carbonate in Soil (Dual pH)	Comm. Soil Sci. Pl. Anal.	*	Improvement to Two Routine Methods for CaCO3 in Soil, Vol 28, 1997	Apr 10, 2024	Element Edmonton - Roper Road	
Clubroot	Plant Path	*	Wallenhammer et al 2012. In-Field distribution of Plasmodiophora brassicae measured using real-time PCR., Plant Pathology	Apr 22, 2024	Element Calgary	
Metals ICP (Hot Block) in soil	EPA	*	Sample Preparation Procedure for Spectrochemical Determination of Total Recoverable Elements, October 1999, 200.2	Apr 10, 2024	Element Edmonton - Roper Road	
Metals ICP (Hot Block) in soil	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	Apr 10, 2024	Element Edmonton - Roper Road	
Particle Size Analysis - GS	Carter	*	Hydrometer Method, 55.3	Apr 9, 2024	Element Edmonton - Roper Road	
pH and Conductivity in general soil 1:2	McKeague	*	1:2 Soil:Water Ratio, 4.12	Apr 9, 2024	Element Edmonton - Roper Road	
pH and Conductivity in general soil 1:2	Soil & Environ. Anal.	*	Particle Size Analysis, Direct Method, Chapter 7	Apr 9, 2024	Element Edmonton - Roper Road	
pH by CaCl2 (1:2 ratio) in soil	McKeague	*	pH in 0.01M Calcium Chloride, 3.11	Apr 9, 2024	Element Edmonton - Roper Road	
Saturated Paste in General Soil	APHA	*	Automated Ferricyanide Method, 4500-CI-E	Apr 9, 2024	Element Edmonton - Roper Road	
Saturated Paste in General Soil	Carter	*	Electrical Conductivity and Soluble Ions, Chapter 15	Apr 9, 2024	Element Edmonton - Roper Road	
Sublet to Biovision	Ext. Lab		See attached test report,	Apr 10, 2024	SGS Biovision	
Total Carbon, Nitrogen in Soil by Leco Combustion (VAN)	SSSA Book Series 5	*	Total Carbon, Organic Carbon, and Organic Matter, Ch 34	Apr 17, 2024	Element Vancouver	

* Reference Method Modified

References

APHA Standard Methods for the Examination of Water and Wastewater

Carter Soil Sampling and Methods of Analysis.

Comm. Soil Sci. Pl. Communications in Soil Science and Plant Analysis EPA Environmental Protection Agency Test Methods - US

Ext. Lab External Laboratory

McKeague Manual on Soil Sampling and Methods of Analysis

Plant Path Plant Pathology

Soil & Environ. Anal. Soil and Environmental Analysis: Physical Methods

SSSA Book Series 5 Methods of Soil Analysis, Part 3

US EPA US Environmental Protection Agency Test Methods





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Methodology and Notes

Bill To: The Black Dirt Company Project ID: Lot ID: 1724057

Box 3130 Project Name: Control Number:
Spruce Grove AB Canada Project Location:

Spruce Grove, AB, Canada Project Location: Date Received: Apr 9, 2024

T7X 3A5 LSD: Date Reported: Apr 23, 2024

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Comments:

• Apr 11, 2024 - weed seed analysis was performed by a subcontract laboratory. See attached 1 page reports 1184382-01, 1184383-01,1184384-01, & 1184385-01

Please direct any inquiries regarding this report to our Client Services group.

Results relate only to samples as submitted.

The test report shall not be reproduced except in full, without the written approval of the laboratory.



Submitted By:

Element (Edm) 7217 Roper Road NW Edmonton, AB CA T6B 3J4

P 780.438.5522

Work Order 1184383-01

Received 4/11/2024 Completed 4/11/2024

Tested By: SGS Canada Inc. Unit 310, 280 Portage Close Sherwood Park, Alberta T8H 2R6

P 1 (780) 436-8822 ** CFIA Acc #1172

Sample of: Soil

Designated: POC148494

Sample ID: 1724057-3, Westwind Topsoil



REPORT OF ANALYSIS

*Soil Seed Analysis - 50g	Completed: 4/11/2024	Soil	Method	ОТН
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Lamb's-quarters 8

Hawksbeard 1

1. Method(s) used for promoting germination of dormant seed

*Advisory test - - Method not CFIA M&P prescribed

*Accredited by CFIA to conduct tests in accordance with the laboratory's scope of accreditation and the Canadian Methods and Procedures for Testing Seed

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Sample of Soil Work Order 1184383-01 Page 1