

Report Transmission Cover Page

Bill To: The Black Dirt Company 300 Saskatchewan Ave Spruce Grove, AB, Canada	Project ID: Project Name: Project Location:	Lot ID: 1492569
Attn: Charlene Hinkel	LSD:	Control Number:
Sampled By: Charlene Hinkel	P.O.:	Date Received: May 14, 2021
Company: The Black Dirt	Proj. Acct. code:	Date Reported: May 27, 2021
		Report Number: 2623421

Contact	Company	Address
Charlene Hinkel	The Black Dirt Company	300 Saskatchewan Ave Spruce Grove, AB Phone: (780) 962-8220 Fax: (780) 962-8215 Email: charlene.hinkel@blackdirtcompany.

Delivery	Format	Deliverables
Email - Merge Reports	PDF	COC / Test Report
Email - Single Report	PDF	COA
Email - Single Report	PDF	Invoice

Notes To Clients:

- May 19, 2021 - Weed Seed Count analysis was performed by a subcontract laboratory. See attached 1 page report 1116051-01.

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Analytical Report

Bill To: The Black Dirt Company 300 Saskatchewan Ave Spruce Grove, AB, Canada	Project ID: Project Name: Project Location:	Lot ID: 1492569 Control Number: Date Received: May 14, 2021 Date Reported: May 27, 2021 Report Number: 2623421
Attn: Charlene Hinkel Sampled By: Charlene Hinkel Company: The Black Dirt	LSD: P.O.: Proj. Acct. code:	

Reference Number 1492569-1
Sample Date May 13, 2021
Sample Time NA
Sample Location
Sample Description Golden Spike Rd
(Garden Mix)
Matrix Soil

Analyte	Units	Results	Results	Results	Nominal Detection Limit
Metals Strong Acid Digestion					
Boron	Saturated Paste	mg/L	<0.5		0.05
Antimony	Strong Acid Extractable	mg/kg	0.4		0.2
Arsenic	Strong Acid Extractable	mg/kg	6.8		0.2
Barium	Strong Acid Extractable	mg/kg	202		1
Beryllium	Strong Acid Extractable	mg/kg	0.4		0.1
Cadmium	Strong Acid Extractable	mg/kg	0.32		0.01
Chromium	Strong Acid Extractable	mg/kg	12.9		0.5
Cobalt	Strong Acid Extractable	mg/kg	7.0		0.1
Copper	Strong Acid Extractable	mg/kg	30.3		1
Lead	Strong Acid Extractable	mg/kg	10.1		0.1
Mercury	Strong Acid Extractable	mg/kg	0.05		0.05
Molybdenum	Strong Acid Extractable	mg/kg	1.0		1
Nickel	Strong Acid Extractable	mg/kg	17.8		0.5
Selenium	Strong Acid Extractable	mg/kg	0.6		0.3
Silver	Strong Acid Extractable	mg/kg	0.2		0.1
Thallium	Strong Acid Extractable	mg/kg	0.12		0.05
Tin	Strong Acid Extractable	mg/kg	<1.0		1
Uranium	Strong Acid Extractable	mg/kg	0.8		0.5
Vanadium	Strong Acid Extractable	mg/kg	20.5		0.1
Zinc	Strong Acid Extractable	mg/kg	105		1
Physical and Aggregate Properties					
Texture			Loam		
Sand	50 µm - 2 mm	% by weight	32		0.1
Silt	2 µm - 50 µm	% by weight	48		0.1
Clay	<2 µm	% by weight	20		0.1
Salinity					
Electrical Conductivity	Saturated Paste	dS/m	5.92		0.01
SAR	Saturated Paste		2.4		
% Saturation		%	110		
Calcium	Saturated Paste	mg/kg	721		
Magnesium	Saturated Paste	mg/kg	168		
Sodium	Saturated Paste	mg/kg	285		
Potassium	Saturated Paste	mg/kg	441		
Chloride	Saturated Paste	mg/L	465		2
Chloride	Saturated Paste	mg/kg	512		
Sulfate (SO4)	Saturated Paste	mg/kg	2470		
TGR	Saturated Paste	T/ac	<0.1		

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Reference Number 1492569-1
Sample Date May 13, 2021
Sample Time NA
Sample Location
Sample Description Golden Spike Rd
(Garden Mix)
Matrix Soil

Analyte	Units	Results	Results	Results	Nominal Detection Limit
Soil Acidity					
pH	1:2 Soil:Water	pH	7.0		
pH	1:2 Soil:CaCl2 sol.	pH	6.8		
Electrical Conductivity	1:2 Soil:Water	dS/m at 25 °C	2.16		0.01
Water Soluble Parameters					
Chromium (VI)	Dry Weight	mg/kg	<0.05		0.05
Clubroot Analysis					
Plasmodiophora brassicae	Clubroot Pathogen	spores/g	<1000		1000
Plasmodiophora brassicae	Detected/ Not Detected	spores/g	Not Detected		1000
Subcontracted Analysis					
Subcontractor Report Id	Biovision		1116051-01		

Approved by: 
Anthony Neumann, MSc
General Manager

Methodology and Notes

Bill To: The Black Dirt Company 300 Saskatchewan Ave Spruce Grove, AB, Canada	Project ID: Project Name: Project Location:	Lot ID: 1492569 Control Number: Date Received: May 14, 2021 Date Reported: May 27, 2021 Report Number: 2623421
Attn: Charlene Hinkel Sampled By: Charlene Hinkel Company: The Black Dirt	LSD: P.O.: Proj. Acct. code:	

Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
1:5 Water Soluble Extraction	APHA	* Colorimetric Method, 3500-Cr B	May 17, 2021	Element Edmonton - Roper Road
1:5 Water Soluble Extraction	McKeague	* Soluble Salts in Extracts of 1:5 Soil:Water Mixtures, 3.23	May 17, 2021	Element Edmonton - Roper Road
Clubroot	Plant Path	* Wallenhammer et al 2012. In-Field distribution of Plasmodiophora brassicae measured using real-time PCR., Plant Pathology	May 17, 2021	Element Edmonton - Roper Road
Metals ICP (Hot Block) in soil	EPA	* Sample Preparation Procedure for Spectrochemical Determination of Total Recoverable Elements, October 1999, 200.2	May 17, 2021	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	May 17, 2021	Element Edmonton - Roper Road
Particle Size Analysis - GS	Carter	* Hydrometer Method, 55.3	May 18, 2021	Element Edmonton - Roper Road
pH and Conductivity in general soil 1:2	McKeague	* 1:2 Soil:Water Ratio, 4.12	May 17, 2021	Element Edmonton - Roper Road
pH and Conductivity in general soil 1:2	Soil & Environ. Anal.	* Particle Size Analysis, Direct Method, Chapter 7	May 17, 2021	Element Edmonton - Roper Road
pH by CaCl ₂ (1:2 ratio) in soil	McKeague	* pH in 0.01M Calcium Chloride, 3.11	May 17, 2021	Element Edmonton - Roper Road
Saturated Paste in General Soil	APHA	* Automated Ferricyanide Method, 4500-Cl-E	May 17, 2021	Element Edmonton - Roper Road
Saturated Paste in General Soil	Carter	* Electrical Conductivity and Soluble Ions, Chapter 15	May 17, 2021	Element Edmonton - Roper Road
Sublet to Biovision	Ext. Lab	See attached test report,	May 19, 2021	SGS Biovision

* Reference Method Modified

References

APHA	Standard Methods for the Examination of Water and Wastewater
Carter	Soil Sampling and Methods of 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
US EPA	US Environmental Protection Agency Test Methods

Comments:

- May 19, 2021 - Weed Seed Count analysis was performed by a subcontract laboratory. See attached 1 page report 1116051-01.

Methodology and Notes

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300 Saskatchewan Ave	Project Name:	Control Number:
Spruce Grove, AB, Canada	Project Location:	Date Received: May 14, 2021
Attn: Charlene Hinkel	LSD:	Date Reported: May 27, 2021
Sampled By: Charlene Hinkel	P.O.:	Report Number: 2623421
Company: The Black Dirt	Proj. Acct. code:	

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)
 2395 Speakman Dr.
 Mississauga, ON CA L5K 1B3
 P (905) 822-4111
 E info.Edmonton@element.com

Tested By: SGS Canada Inc.
 Unit 310, 280 Portage Close
 Sherwood Park, Alberta T8H 2R6
 P 1 (780) 436-8822
 ** CFIA Acc #1172

ASSOCIATE MEMBER OF



A-065 JANEK BARTEL

Sample of: Soil
Designated: POC131472
Sample ID: 1492569-1

REPORT OF ANALYSIS

*Soil Seed Analysis 50g	Completed: 5/18/2021		Method	OTH
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Lamb's-quarters 2
 Sedge 1
 Prostrate Knotweed 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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Project Information

Project ID:
Project Name:
Project Location:
Legal Location:
PO/AFE#:
Proj. Acct. Code:
Quote #:

Company: The Black Dirt Company
Address: 300 Saskatchewan Avenue
Attention: Charlene Hinkel
Phone: 780-962-8220
Cell: 780-616-3566
Fax: 780-962-8215
E-mail: charlene.hinkel@blackdirtcompany.com
Agreement ID:
Copy of Report: YES / NO

Company: The Black Dirt Company
Address: 300 Saskatchewan Avenue
Attention: Charlene Hinkel
Phone: 780-962-8220
Cell: 780-616-3566
Fax: 780-962-8215
E-mail 1: charlene.hinkel@blackdirtcompany.com
E-mail 2: info@blackdirtcompany.com
Copy of Invoice: YES / NO

Additional Reports to
1) Name:
E-mail:
2) Name:
E-mail:
Sample Custody
Sampled by: Charlene Hinkel
Company: The Black Dirt Company
I authorize Element to proceed with the work indicated on this form:
Signature: [Signature]
Date/Time: 13 May 2021

RUSH Priority

Report Results

Requirements

- Same Day (200%)
Next Day/Two Day (100%)
Three or Four Days (50%)
5 to 7 Days (Regular TAT)

When "ASAP" is requested, turn around will default to a 100% RUSH priority, with pricing and turn around time to match. Please contact the lab prior to submitting RUSH samples. If not all samples require RUSH, please indicate in the special instructions.

- Email
QA/QC
Online
PDF
Fax
Excel

- HCDWORG
SPIGEC
AB Tier 1
BCCSR
Other (list below)

Date Required

Special Instructions/Comments (please include contact information including phone number if different from above).

Table with columns: Site I.D., Sample Description, Depth start end in cm m, Date/Time sampled, Matrix, Sampling method, Number of Containers, MeOH Field Preserved?, Metals Strong/Acid Digestion, Physical/Aggregate Properties, Salinity, Soil Acidity, Water Soluble Parameters, Club Root Analysis, Seed Count. Includes handwritten data for site 1.

Please indicate any potentially hazardous samples

Submission of this form acknowledges acceptance of Element's Standard of terms and conditions (https://www.element.com/terms/terms-and-conditions)

Page of Control # ED 120-005

ot: 1492569 COC



Temp. received: 22.4 °C Date/Time stamp:

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