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05 July 2019

Wesley Collins  
Ecopoint, Inc.  
225 Hutton Avenue  
Rifle, CO 81650  
RE: Soil

Enclosed are the results of analyses for samples received by the laboratory on 05/28/19 08:00. The data to follow was performed, in whole or in part, by a subcontract laboratory with an additional report attached.

If you any any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, reading 'Jeremy D. Allen', is written in a cursive style.

Jeremy D Allen For Debbie Zufelt  
Reports Manager

All accredited analytes contained in this report are denoted by an asterisk (\*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water.

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8.



Ecopoint, Inc.  
225 Hutton Avenue  
Rifle CO, 81650

Project: Soil  
Project Name / Number: [none]  
Project Manager: Wesley Collins

Reported:  
07/05/19 13:34

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Neely N39N37W18 SWSW Off	1905261-01	Solid	05/19/19 00:00	05/28/19 08:00	
Neely N39N17W18 SWSW ON	1905261-02	Solid	05/19/19 00:00	05/28/19 08:00	
Neely N39N17W7 SWSW ON	1905261-03	Solid	05/19/19 00:00	05/28/19 08:00	
Neely N39N17W7 SWSW Off	1905261-04	Solid	05/19/19 00:00	05/28/19 08:00	
Johnson N39 ON	1905261-05	Solid	05/19/19 00:00	05/28/19 08:00	
Johnson N39 Off	1905261-06	Solid	05/19/19 00:00	05/28/19 08:00	
Johnson 1H On	1905261-07	Solid	05/19/19 00:00	05/28/19 08:00	
Johnson 1H Off	1905261-08	Solid	05/19/19 00:00	05/28/19 08:00	

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Ecopoint, Inc.  
225 Hutton Avenue  
Rifle CO, 81650

Project: Soil  
Project Name / Number: [none]  
Project Manager: Wesley Collins

Reported:  
07/05/19 13:34

Neely N39N37W18 SWSW Off

1905261-01 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Nitrogen, Total	0.125	0.0125	0.00169	% dry wt	250	06/07/19	Calculation		LLG
Total Kjeldahl Nitrogen	1360	125	16.9	mg/kg dry	250	06/05/19	EPA351.2		LLG
% Dry Solids	90.8			%	1	05/31/19	EPA160.3/1684	H1	VJL

**Soluble (DI Water Extraction)**

Nitrate/Nitrite as N	14.7	0.220	0.068	mg/kg dry	10	06/07/19	EPA353.2		LLG
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**Saturated Paste Extraction**

Calcium	160	0.100	0.013	mg/L	1	06/10/19	EPA200.7		AES
Conductivity	869			umho/cm @ 25.0°C	1	06/06/19	ASA#9 10-3.3		JDA
Magnesium	21.6	0.100	0.019	mg/L	1	06/10/19	EPA200.7		AES
pH	6.95			pH Units	1	06/06/19	ASA#9 12-2.6		JDA
SAR	0.21			No Unit	1	06/10/19	Calculation		AES
Sodium	10.8	1.00	0.367	mg/L	1	06/10/19	EPA200.7		AES

**ab-DTPA Extracted (Available)**

Phosphorus, Total	0.128	0.100	0.0360	mg/kg dry	2	06/07/19	EPA365.3		JDA
Potassium	186	2.00	0.191	mg/kg dry	2	06/10/19	EPA200.7		AES

**Exchangable Metals by ICP (Ammonium Acetate Extractable - Soluble)**

Sodium	5.00	1.00	0.367	mg/kg dry	1	06/11/19	EPA200.7		AES
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Ecopoint, Inc.  
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Rifle CO, 81650

Project: Soil  
Project Name / Number: [none]  
Project Manager: Wesley Collins

Reported:  
07/05/19 13:34

Neely N39N17W18 SWSW ON

1905261-02 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Nitrogen, Total	0.0184	0.0125	0.00169	% dry wt	250	06/07/19	Calculation		LLG
Total Kjeldahl Nitrogen	193	125	16.9	mg/kg dry	250	06/05/19	EPA351.2		LLG
% Dry Solids	94.5			%	1	05/31/19	EPA160.3/1684	H1	VJL

**Soluble (DI Water Extraction)**

Nitrate/Nitrite as N	2.00	0.212	0.065	mg/kg dry	10	06/07/19	EPA353.2		LLG
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**Saturated Paste Extraction**

Calcium	505	0.200	0.026	mg/L	2	06/10/19	EPA200.7		AES
Conductivity	1990			umho/cm @ 25.0°C	1	06/06/19	ASA#9 10-3.3		JDA
Magnesium	49.5	0.200	0.038	mg/L	2	06/10/19	EPA200.7		AES
pH	7.38			pH Units	1	06/06/19	ASA#9 12-2.6		JDA
SAR	0.10			No Unit	1	06/10/19	Calculation		AES
Sodium	8.43	2.00	0.734	mg/L	2	06/10/19	EPA200.7		AES

**ab-DTPA Extracted (Available)**

Phosphorus, Total	<0.100	0.100	0.0360	mg/kg dry	2	06/07/19	EPA365.3		JDA
Potassium	36.7	2.00	0.191	mg/kg dry	2	06/10/19	EPA200.7		AES

**Exchangable Metals by ICP (Ammonium Acetate Extractable - Soluble)**

Sodium	10.0	1.00	0.367	mg/kg dry	1	06/11/19	EPA200.7		AES
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225 Hutton Avenue  
Rifle CO, 81650

Project: Soil  
Project Name / Number: [none]  
Project Manager: Wesley Collins

Reported:  
07/05/19 13:34

**Neely N39N17W7 SWSW ON****1905261-03 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Nitrogen, Total	0.0309	0.0125	0.00169	% dry wt	250	06/07/19	Calculation		LLG
Total Kjeldahl Nitrogen	350	125	16.9	mg/kg dry	250	06/05/19	EPA351.2		LLG
% Dry Solids	87.5			%	1	05/31/19	EPA160.3/1684	H1	VJL

**Soluble (DI Water Extraction)**

Nitrate/Nitrite as N	3.48	0.229	0.070	mg/kg dry	10	06/07/19	EPA353.2		LLG
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**Saturated Paste Extraction**

Calcium	96.2	0.100	0.013	mg/L	1	06/10/19	EPA200.7		AES
Conductivity	683			umho/cm @ 25.0°C	1	06/06/19	ASA#9 10-3.3		JDA
Magnesium	19.2	0.100	0.019	mg/L	1	06/10/19	EPA200.7		AES
pH	7.73			pH Units	1	06/06/19	ASA#9 12-2.6		JDA
SAR	0.72			No Unit	1	06/10/19	Calculation		AES
Sodium	29.7	1.00	0.367	mg/L	1	06/10/19	EPA200.7		AES

**ab-DTPA Extracted (Available)**

Phosphorus, Total	<0.100	0.100	0.0360	mg/kg dry	2	06/07/19	EPA365.3		JDA
Potassium	128	2.00	0.191	mg/kg dry	2	06/10/19	EPA200.7		AES

**Exchangable Metals by ICP (Ammonium Acetate Extractable - Soluble)**

Sodium	7.00	1.00	0.367	mg/kg dry	1	06/11/19	EPA200.7		AES
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225 Hutton Avenue  
Rifle CO, 81650

Project: Soil  
Project Name / Number: [none]  
Project Manager: Wesley Collins

Reported:  
07/05/19 13:34

**Neely N39N17W7 SWSW Off****1905261-04 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Nitrogen, Total	0.0593	0.0125	0.00169	% dry wt	250	06/07/19	Calculation		LLG
Total Kjeldahl Nitrogen	636	125	16.9	mg/kg dry	250	06/05/19	EPA351.2		LLG
% Dry Solids	92.1			%	1	05/31/19	EPA160.3/1684	H1	VJL

**Soluble (DI Water Extraction)**

Nitrate/Nitrite as N	8.05	0.217	0.067	mg/kg dry	10	06/07/19	EPA353.2		LLG
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**Saturated Paste Extraction**

Calcium	109	0.100	0.013	mg/L	1	06/10/19	EPA200.7		AES
Conductivity	640			umho/cm @ 25.0°C	1	06/06/19	ASA#9 10-3.3		JDA
Magnesium	18.4	0.100	0.019	mg/L	1	06/10/19	EPA200.7		AES
pH	7.45			pH Units	1	06/06/19	ASA#9 12-2.6		JDA
SAR	0.25			No Unit	1	06/10/19	Calculation		AES
Sodium	10.8	1.00	0.367	mg/L	1	06/10/19	EPA200.7		AES

**ab-DTPA Extracted (Available)**

Phosphorus, Total	<0.100	0.100	0.0360	mg/kg dry	2	06/07/19	EPA365.3		JDA
Potassium	176	2.00	0.191	mg/kg dry	2	06/10/19	EPA200.7		AES

**Exchangable Metals by ICP (Ammonium Acetate Extractable - Soluble)**

Sodium	11.0	1.00	0.367	mg/kg dry	1	06/11/19	EPA200.7		AES
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Ecopoint, Inc.  
225 Hutton Avenue  
Rifle CO, 81650

Project: Soil  
Project Name / Number: [none]  
Project Manager: Wesley Collins

Reported:  
07/05/19 13:34

**Johnson N39 ON****1905261-05 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Nitrogen, Total	0.0732	0.0125	0.00169	% dry wt	250	06/07/19	Calculation		LLG
Total Kjeldahl Nitrogen	896	125	16.9	mg/kg dry	250	06/05/19	EPA351.2		LLG
Organic Matter (450C 4-hour)	3.43	1.00		%	1	06/26/19	LOI SSSA#5 P1004		VJL
% Saturation	50.1			%	1	06/25/19	ASA#9 10-2.3		VJL
% Dry Solids	81.6			%	1	05/31/19	EPA160.3/1684	H1	VJL

**Soluble (DI Water Extraction)**

Nitrate/Nitrite as N	2.43	0.245	0.075	mg/kg dry	10	06/07/19	EPA353.2		LLG
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**Saturated Paste Extraction**

Calcium	534	0.500	0.064	mg/L	5	06/10/19	EPA200.7		AES
Conductivity	4160			umho/cm @ 25.0°C	1	06/06/19	ASA#9 10-3.3		JDA
Magnesium	369	0.500	0.094	mg/L	5	06/10/19	EPA200.7		AES
pH	7.76			pH Units	1	06/06/19	ASA#9 12-2.6		JDA
SAR	2.23			No Unit	1	06/10/19	Calculation		AES
Sodium	274	5.00	1.83	mg/L	5	06/10/19	EPA200.7		AES

**Sodium Saturation**

Cation Exchange Capacity	16.4	0.04		meq/100 g	1	07/05/19	USDA-60 19		AES
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**ab-DTPA Extracted (Available)**

Phosphorus, Total	<0.100	0.100	0.0360	mg/kg dry	2	06/07/19	EPA365.3		JDA
Potassium	137	2.00	0.191	mg/kg dry	2	06/10/19	EPA200.7		AES

**Exchangable Metals by ICP (Ammonium Acetate Extractable - Soluble)**

Sodium	<1.00	1.00	0.367	mg/kg dry	1	06/11/19	EPA200.7		AES
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Green Analytical Laboratories

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225 Hutton Avenue  
Rifle CO, 81650

Project: Soil  
Project Name / Number: [none]  
Project Manager: Wesley Collins

Reported:  
07/05/19 13:34

**Johnson N39 Off****1905261-06 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Nitrogen, Total	0.0947	0.0125	0.00169	% dry wt	250	06/07/19	Calculation		LLG
Total Kjeldahl Nitrogen	1010	125	16.9	mg/kg dry	250	06/05/19	EPA351.2		LLG
Organic Matter (450C 4-hour)	3.25	1.00		%	1	06/26/19	LOI SSSA#5 P1004		VJL
% Saturation	45.7			%	1	06/25/19	ASA#9 10-2.3		VJL
% Dry Solids	92.9			%	1	05/31/19	EPA160.3/1684	H1	VJL

**Soluble (DI Water Extraction)**

Nitrate/Nitrite as N	7.64	0.215	0.066	mg/kg dry	10	06/07/19	EPA353.2		LLG
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**Saturated Paste Extraction**

Calcium	156	0.100	0.013	mg/L	1	06/10/19	EPA200.7		AES
Conductivity	836			umho/cm @ 25.0°C	1	06/06/19	ASA#9 10-3.3		JDA
Magnesium	19.9	0.100	0.019	mg/L	1	06/10/19	EPA200.7		AES
pH	7.48			pH Units	1	06/06/19	ASA#9 12-2.6		JDA
SAR	0.18			No Unit	1	06/10/19	Calculation		AES
Sodium	8.78	1.00	0.367	mg/L	1	06/10/19	EPA200.7		AES

**Sodium Saturation**

Cation Exchange Capacity	12.1	0.04		meq/100 g	1	07/05/19	USDA-60 19		AES
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**ab-DTPA Extracted (Available)**

Phosphorus, Total	<0.100	0.100	0.0360	mg/kg dry	2	06/07/19	EPA365.3		JDA
Potassium	158	2.00	0.191	mg/kg dry	2	06/10/19	EPA200.7		AES

**Exchangable Metals by ICP (Ammonium Acetate Extractable - Soluble)**

Sodium	10.0	1.00	0.367	mg/kg dry	1	06/11/19	EPA200.7		AES
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225 Hutton Avenue  
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Project: Soil  
Project Name / Number: [none]  
Project Manager: Wesley Collins

Reported:  
07/05/19 13:34

**Johnson 1H On****1905261-07 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Nitrogen, Total	0.0592	0.0125	0.00169	% dry wt	250	06/07/19	Calculation		LLG
Total Kjeldahl Nitrogen	642	125	16.9	mg/kg dry	250	06/05/19	EPA351.2		LLG
Organic Matter (450C 4-hour)	2.72	1.00		%	1	06/26/19	LOI SSSA#5 P1004		VJL
% Saturation	41.5			%	1	06/25/19	ASA#9 10-2.3		VJL
% Dry Solids	89.9			%	1	05/31/19	EPA160.3/1684	H1	VJL

**Soluble (DI Water Extraction)**

Nitrate/Nitrite as N	16.6	0.222	0.068	mg/kg dry	10	06/07/19	EPA353.2		LLG
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**Saturated Paste Extraction**

Calcium	103	0.100	0.013	mg/L	1	06/10/19	EPA200.7		AES
Conductivity	693			umho/cm @ 25.0°C	1	06/06/19	ASA#9 10-3.3		JDA
Magnesium	17.8	0.100	0.019	mg/L	1	06/10/19	EPA200.7		AES
pH	7.40			pH Units	1	06/06/19	ASA#9 12-2.6		JDA
SAR	0.45			No Unit	1	06/10/19	Calculation		AES
Sodium	18.7	1.00	0.367	mg/L	1	06/10/19	EPA200.7		AES

**Sodium Saturation**

Cation Exchange Capacity	16.0	0.04		meq/100 g	1	07/05/19	USDA-60 19		AES
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**ab-DTPA Extracted (Available)**

Phosphorus, Total	4.85	0.100	0.0360	mg/kg dry	2	06/07/19	EPA365.3		JDA
Potassium	146	2.00	0.191	mg/kg dry	2	06/10/19	EPA200.7		AES

**Exchangable Metals by ICP (Ammonium Acetate Extractable - Soluble)**

Sodium	12.0	1.00	0.367	mg/kg dry	1	06/11/19	EPA200.7		AES
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225 Hutton Avenue  
Rifle CO, 81650

Project: Soil  
Project Name / Number: [none]  
Project Manager: Wesley Collins

Reported:  
07/05/19 13:34

**Johnson 1H Off****1905261-08 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Nitrogen, Total	0.100	0.0125	0.00169	% dry wt	250	06/07/19	Calculation		LLG
Total Kjeldahl Nitrogen	1100	125	16.9	mg/kg dry	250	06/05/19	EPA351.2		LLG
Organic Matter (450C 4-hour)	3.24	1.00		%	1	06/26/19	LOI SSSA#5 P1004		VJL
% Saturation	44.9			%	1	06/25/19	ASA#9 10-2.3		VJL
% Dry Solids	89.8			%	1	05/31/19	EPA160.3/1684	H1	VJL

**Soluble (DI Water Extraction)**

Nitrate/Nitrite as N	13.4	0.223	0.068	mg/kg dry	10	06/07/19	EPA353.2		LLG
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**Saturated Paste Extraction**

Calcium	77.4	0.100	0.013	mg/L	1	06/10/19	EPA200.7		AES
Conductivity	488			umho/cm @ 25.0°C	1	06/06/19	ASA#9 10-3.3		JDA
Magnesium	14.3	0.100	0.019	mg/L	1	06/10/19	EPA200.7		AES
pH	6.40			pH Units	1	06/06/19	ASA#9 12-2.6		JDA
SAR	0.22			No Unit	1	06/10/19	Calculation		AES
Sodium	8.19	1.00	0.367	mg/L	1	06/10/19	EPA200.7		AES

**Sodium Saturation**

Cation Exchange Capacity	16.2	0.04		meq/100 g	1	07/05/19	USDA-60 19		AES
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**ab-DTPA Extracted (Available)**

Phosphorus, Total	5.26	0.100	0.0360	mg/kg dry	2	06/07/19	EPA365.3		JDA
Potassium	164	2.00	0.191	mg/kg dry	2	06/10/19	EPA200.7		AES

**Exchangable Metals by ICP (Ammonium Acetate Extractable - Soluble)**

Sodium	10.0	1.00	0.367	mg/kg dry	1	06/11/19	EPA200.7		AES
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Green Analytical Laboratories

Jeremy D Allen For Debbie Zufelt, Reports Manager

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Ecopoint, Inc.  
225 Hutton Avenue  
Rifle CO, 81650

Project: Soil  
Project Name / Number: [none]  
Project Manager: Wesley Collins

Reported:  
07/05/19 13:34

### General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B905264 - General Prep - Wet Chem

**Blank (B905264-BLK1)** Prepared: 05/31/19 Analyzed: 06/05/19

Total Kjeldahl Nitrogen	ND	0.500	mg/kg wet							
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**LCS (B905264-BS1)** Prepared: 05/31/19 Analyzed: 06/05/19

Total Kjeldahl Nitrogen	9.74	0.500	mg/kg wet	10.0		97.4	80-120			
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**LCS Dup (B905264-BSD1)** Prepared: 05/31/19 Analyzed: 06/05/19

Total Kjeldahl Nitrogen	9.99	0.500	mg/kg wet	10.0		99.9	80-120	2.54	20	
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### Soluble (DI Water Extraction) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B906051 - General Prep - Wet Chem

**Blank (B906051-BLK1)** Prepared: 06/05/19 Analyzed: 06/07/19

Nitrate/Nitrite as N	ND	0.020	mg/kg wet							
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**LCS (B906051-BS1)** Prepared: 06/05/19 Analyzed: 06/07/19

Nitrate/Nitrite as N	1.07	0.020	mg/kg wet	1.00		107	80-120			
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**LCS Dup (B906051-BSD1)** Prepared: 06/05/19 Analyzed: 06/07/19

Nitrate/Nitrite as N	1.06	0.020	mg/kg wet	1.00		106	80-120	0.744	20	
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### Saturated Paste Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B906028 - Paste Extract

**Blank (B906028-BLK1)** Prepared: 06/05/19 Analyzed: 06/10/19

Calcium	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							
SAR	0.00		No Unit							
Sodium	ND	1.00	mg/L							

Green Analytical Laboratories

Jeremy D Allen For Debbie Zufelt, Reports Manager

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Ecopoint, Inc.  
225 Hutton Avenue  
Rifle CO, 81650

Project: Soil  
Project Name / Number: [none]  
Project Manager: Wesley Collins

Reported:  
07/05/19 13:34

### Sodium Saturation - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B906066 - Paste Extract

##### Blank (B906066-BLK1)

Prepared: 06/06/19 Analyzed: 07/05/19

Cation Exchange Capacity	ND	0.04	meq/100 g
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### ab-DTPA Extracted (Available) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B905249 - ab-DTPA Extraction

##### Blank (B905249-BLK1)

Prepared: 05/30/19 Analyzed: 06/07/19

Phosphorus, Total	ND	0.0500	mg/kg dry
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##### LCS (B905249-BS1)

Prepared: 05/30/19 Analyzed: 06/07/19

Phosphorus, Total	0.508	0.0500	mg/kg dry	0.500	102	85-115
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##### LCS Dup (B905249-BSD1)

Prepared: 05/30/19 Analyzed: 06/07/19

Phosphorus, Total	0.497	0.0500	mg/kg dry	0.500	99.4	85-115	2.19	20
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#### Batch B905252 - ab-DTPA Extraction

##### Blank (B905252-BLK1)

Prepared: 05/30/19 Analyzed: 06/10/19

Potassium	ND	1.00	mg/kg dry
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### Exchangable Metals by ICP (Ammonium Acetate Extractable - Soluble) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B906066 - Paste Extract

##### Blank (B906066-BLK1)

Prepared: 06/06/19 Analyzed: 06/11/19

Sodium	ND	1.00	mg/kg dry
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Jeremy D Allen For Debbie Zufelt, Reports Manager

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Ecopoint, Inc.  
225 Hutton Avenue  
Rifle CO, 81650

Project: Soil  
Project Name / Number: [none]  
Project Manager: Wesley Collins

Reported:  
07/05/19 13:34

### Notes and Definitions

H1 Sample was received several days after collected and subsequently analyzed past hold time.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis  
\*Results reported on as received basis unless designated as dry.

RPD Relative Percent Difference

LCS Laboratory Control Sample (Blank Spike)

RL Report Limit

MDL Method Detection Limit

Green Analytical Laboratories

Jeremy D Allen For Debbie Zufelt, Reports Manager

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## Deb Zufelt

**From:** David Graybill [david@ecopoint-inc.com]  
**Sent:** Wednesday, May 29, 2019 2:16 PM  
**To:** Deb Zufelt  
**Cc:** Wesley Collins; jeremy.allen@greenanalytical.com  
**Subject:** Re: "David with Ecopoint"

Yes the list is complete but for clarification lets run TKN as well as nitrates but we do not need total organic N. Also we do not need 6010B cations.

On Wed, May 29, 2019, 1:24 PM Deb Zufelt <dzufelt@greenanalytical.com> wrote:

David & Wes,

We received your samples yesterday and just wanted to verify the analysis.

Is the list below complete? For the Nitrogen, Potassium and Phosphate we had discussed NPK on an Available/AB-DTPA extract. We also discussed Organic Nitrogen and your list says Total Nitrogen. We would have to run TKN as well as Nitrates to get Total Nitrogen, and TKN and Ammonia to get Organic Nitrogen. The COC also calls for 6010B Cations. Do you want this in addition to the SAR/ Paste Extract metals?

Also, the 2nd line on the COC Says Neely N39N37W18SWSWON, but the bag says N39N17W18SWSWON. Which one is correct?

Let Jeremy or I know if you have any questions.

Thank you!

From: David Graybill

Subject: David with Ecopoint

Company: Ecopoint, Inc.

Email: [david@ecopoint-inc.com](mailto:david@ecopoint-inc.com)

Phone: 2087310185

Message:

Hi, This message is for Brenda and Jeremy at the Durango lab.

The following is a list of tests that I would like performed on each of the samples you will be receiving in the mail.

Nitrate

Total carbon

Total Nitrogen

Phosphorous

Potassium

Electrical Conductivity

pH

Exchangeable sodium

Sodium adsorption ratio

--

This e-mail was sent from a contact form on Green Analytical <http://greenanalytical.com>









Green Analytical Laboratories  
75 Suttle Street  
Durango, CO 81303

**Project Name: GA Routine / ECOPOINT INC**Work Order: **X9E0696**

Reported: 13-Jun-19 09:22

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
1905-261-01 / Neely N39 N37 W18 SWSW off	X9E0696-01	Soil	19-May-19 00:00	WC	30-May-2019	
1905-261-02 / Neely N39 N17 W18 SWSW on	X9E0696-02	Soil	19-May-19 00:00	WC	30-May-2019	
1905-261-03 / Neely N39 N17 W7 SWSW on	X9E0696-03	Soil	19-May-19 00:00	WC	30-May-2019	
1905-261-04 / Neely N39 N17 W7 SWSW off	X9E0696-04	Soil	19-May-19 00:00	WC	30-May-2019	
1905-261-05 / Johnson N39 on	X9E0696-05	Soil	19-May-19 00:00	WC	30-May-2019	
1905-261-06 / Johnson N39 off	X9E0696-06	Soil	19-May-19 00:00	WC	30-May-2019	
1905-261-07 / Johnson 1M on	X9E0696-07	Soil	19-May-19 00:00	WC	30-May-2019	
1905-261-08 / Johnson 1M off	X9E0696-08	Soil	19-May-19 00:00	WC	30-May-2019	

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested. Non-Detects are reported at the MDL.

Sample preparation is defined by the client as per their Data Quality Objectives.

This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.

Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.

The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

**Case Narrative: X9E0696**

The state of origin only accredits for drinking water analyses.



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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Green Analytical Laboratories  
75 Suttle Street  
Durango, CO 81303

**Project Name: GA Routine / ECOPOINT INC**

Work Order: **X9E0696**

Reported: 13-Jun-19 09:22

Client Sample ID: **1905-261-01 : Neely N39 N37 W18 SWSW off**

Sampled: 19-May-19 00:00

SVL Sample ID: **X9E0696-01 (Soil)**

Received: 30-May-19

**Sample Report Page 1 of 1**

Sampled By: WC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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**Acid/Base Accounting & Sulfur Forms**

ASTM E-1915-05	<b>Total Carbon</b>	1.43	%	0.100	0.055		X924132	ZR	06/11/19 12:10	
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

*Dianne Gardner*

**Dianne Gardner**  
Project Manager



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75 Suttle Street  
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**Project Name: GA Routine / ECOPOINT INC**

Work Order: **X9E0696**

Reported: 13-Jun-19 09:22

Client Sample ID: **1905-261-02 : Neely N39 N17 W18 SWSW on**

Sampled: 19-May-19 00:00

SVL Sample ID: **X9E0696-02 (Soil)**

Received: 30-May-19

**Sample Report Page 1 of 1**

Sampled By: WC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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**Acid/Base Accounting & Sulfur Forms**

ASTM E-1915-05	<b>Total Carbon</b>	0.463	%	0.100	0.055		X924132	ZR	06/11/19 12:15	
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

*Dianne McGardner*

**Dianne Gardner**  
Project Manager



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75 Suttle Street  
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**Project Name: GA Routine / ECOPOINT INC**

Work Order: **X9E0696**

Reported: 13-Jun-19 09:22

Client Sample ID: **1905-261-03 : Neely N39 N17 W7 SWSW on**

Sampled: 19-May-19 00:00

SVL Sample ID: **X9E0696-03 (Soil)**

Received: 30-May-19

**Sample Report Page 1 of 1**

Sampled By: WC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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**Acid/Base Accounting & Sulfur Forms**

ASTM E-1915-05	<b>Total Carbon</b>	0.746	%	0.100	0.055		X924132	ZR	06/11/19 12:18	
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

*Dianne McGardner*

**Dianne Gardner**  
Project Manager



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Durango, CO 81303

**Project Name: GA Routine / ECOPOINT INC**

Work Order: **X9E0696**

Reported: 13-Jun-19 09:22

Client Sample ID: **1905-261-04 : Neely N39 N17 W7 SWSW off**

Sampled: 19-May-19 00:00

SVL Sample ID: **X9E0696-04 (Soil)**

Received: 30-May-19

**Sample Report Page 1 of 1**

Sampled By: WC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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**Acid/Base Accounting & Sulfur Forms**

ASTM E-1915-05	<b>Total Carbon</b>	0.975	%	0.100	0.055		X924132	ZR	06/11/19 12:22	
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*Dianne McGardner*

**Dianne Gardner**  
Project Manager



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**Project Name: GA Routine / ECOPOINT INC**

Work Order: **X9E0696**

Reported: 13-Jun-19 09:22

Client Sample ID: **1905-261-05 : Johnson N39 on**

Sampled: 19-May-19 00:00

SVL Sample ID: **X9E0696-05 (Soil)**

Received: 30-May-19

**Sample Report Page 1 of 1**

Sampled By: WC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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**Acid/Base Accounting & Sulfur Forms**

ASTM E-1915-05	<b>Total Carbon</b>	1.54	%	0.100	0.055		X924132	ZR	06/11/19 12:27	
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*Dianne McGardner*

**Dianne Gardner**  
Project Manager



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Durango, CO 81303

**Project Name: GA Routine / ECOPOINT INC**

Work Order: **X9E0696**

Reported: 13-Jun-19 09:22

Client Sample ID: **1905-261-06 : Johnson N39 off**

Sampled: 19-May-19 00:00

SVL Sample ID: **X9E0696-06 (Soil)**

Received: 30-May-19

**Sample Report Page 1 of 1**

Sampled By: WC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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**Acid/Base Accounting & Sulfur Forms**

ASTM E-1915-05	<b>Total Carbon</b>	1.79	%	0.100	0.055		X924132	ZR	06/11/19 12:30	
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

*Dianne McGardner*

**Dianne Gardner**  
Project Manager



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**Project Name: GA Routine / ECOPOINT INC**

Work Order: **X9E0696**

Reported: 13-Jun-19 09:22

Client Sample ID: **1905-261-07 : Johnson 1M on**

Sampled: 19-May-19 00:00

SVL Sample ID: **X9E0696-07 (Soil)**

Received: 30-May-19

**Sample Report Page 1 of 1**

Sampled By: WC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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**Acid/Base Accounting & Sulfur Forms**

ASTM E-1915-05	<b>Total Carbon</b>	0.737	%	0.100	0.055		X924132	ZR	06/11/19 12:34	
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

*Dianne McGladner*

**Dianne Gardner**  
Project Manager





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**Project Name: GA Routine / ECOPOINT INC**

Work Order: **X9E0696**

Reported: 13-Jun-19 09:22

Client Sample ID: **1905-261-08 : Johnson 1M off**

Sampled: 19-May-19 00:00

SVL Sample ID: **X9E0696-08 (Soil)**

Received: 30-May-19

**Sample Report Page 1 of 1**

Sampled By: WC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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**Acid/Base Accounting & Sulfur Forms**

ASTM E-1915-05	<b>Total Carbon</b>	0.982	%	0.100	0.055		X924132	ZR	06/11/19 12:45	
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

*Dianne McGardner*

**Dianne Gardner**  
Project Manager



Green Analytical Laboratories  
75 Suttle Street  
Durango, CO 81303

**Project Name: GA Routine / ECOPOINT INC**

Work Order: **X9E0696**

Reported: 13-Jun-19 09:22

**Quality Control - BLANK Data**

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
<b>Acid/Base Accounting &amp; Sulfur Forms</b>								
ASTM E-1915-05	Total Carbon	%	<0.100	0.055	0.100	X924132	11-Jun-19	

**Quality Control - LABORATORY CONTROL SAMPLE Data**

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
<b>Acid/Base Accounting &amp; Sulfur Forms</b>									
ASTM E-1915-05	Total Carbon	%	1.09	1.00	109	80 - 120	X924132	11-Jun-19	

**Quality Control - DUPLICATE Data**

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch ID	Analyzed	Notes
<b>Acid/Base Accounting &amp; Sulfur Forms</b>									
ASTM E-1915-05	Total Carbon	%	1.43	1.43	0.1	20	X924132	11-Jun-19	

**Notes and Definitions**

LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable