

# WELD LABORATORIES, INC.

1527 First Avenue • Greeley, Colorado 80631  
Phone: (970) 353-8118 • Fax: (970) 353-1671  
www.weldlabs.com

Weld Laboratories, Inc.  
1527 1st Ave.  
Greeley, CO 80631

H2 Enterprises  
4626 CR 65  
Keenesburg, CO 80643

Date: 7/22/2022

Farmer/Grower: Top Operating

Field No.: #1 0-8 W

Requested Fertilizer Recommendation:

Laboratory No. S22181-20

Vs. Our  
Average Ag.  
Soil

Crop: NA

Yield goal: NA

Units: NA

Soil Texture Clay Loam

pH 7.49

Avg

Credits:

Salts 1:1,mmhos/cm 6.00

V. High

Subsoil N ppm:

Organic Matter, % 3.82

V. High

Vs. Our  
Average  
Ag. Soil

Recommendations - add lbs. per acre

Nitrate-N 56.0 112 V. High

Phosphorus 309 617 V. High

Potassium 1700 3400 V. High

Calcium 1930 3860 Avg

Sulfate-S 467 933 V. High

Boron 1.5 2.9 Avg

Zinc 24.4 48.8 V. High

Iron 27.2 54 Avg

Manganese 38.6 77.1 V. High

Copper 4.4 8.8 High

Magnesium 1136 2273 V. High

Sodium 747.5 1495 V. High

ECEC (meq/100g) 28.1 CaCO3-C% 0.90

SMP Buffer pH 7.44 Lime req.(tons/ac) 0.00

#N

#P<sub>2</sub>O<sub>5</sub>

#K<sub>2</sub>O

#Ca

#S

#B

#Zn

#Fe

#Mn

#Cu

#Mg

Notes:

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Field No.: #1 0-8 W

Requested Fertilizer Recommendation:

Crop: NA

Yield goal: NA

Units: NA

Laboratory No. S22181-20 Page 2

ECEC (meq/100g)	28.1
%Base Sat by Na	11.39
%Base Sat by K	15.24
%Base Sat by Mg	32.77
%Base Sat by Ca	33.75
%Base Sat by Zn	0.26
%Base Sat by Fe	0.43
%Base Sat by Mn	0.74
%Base Sat by Cu	0.05
%Base Sat by H	5.37

Chloride (mg/kg)	1038.4
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Selenium (mg/kg)	ND
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Note: NA = Not Applicable, ND = Not Detected

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Date: 7/22/2022

Farmer/Grower: Top Operating

Field No.: #1 9-6 W

Requested Fertilizer Recommendation:

Laboratory No. S22181-21

Vs. Our  
Average Ag.  
Soil

Crop: NA

Yield goal: NA

Units: NA

Soil Texture Sandy Loam

pH 7.76

Avg

Credits:

Salts 1:1,mmhos/cm 1.56

High

Subsoil N ppm:

Organic Matter, % 0.85

Low

Vs. Our  
Average  
Ag. Soil

Recommendations - add lbs. per acre

Nitrate-N 22.9 46 Avg

Phosphorus 87 174 V. High

Potassium 180 360 Low

Calcium 2125 4250 Avg

Sulfate-S 67 133 High

Boron 0.6 1.2 Avg

Zinc 1.6 3.1 Avg

Iron 11.5 23 Avg

Manganese 6.3 12.6 Avg

Copper 0.9 1.8 Avg

Magnesium 434 868 High

Sodium 191.5 383 V. High

ECEC (meq/100g) 15.7 CaCO<sub>3</sub>-C% 2.84

SMP Buffer pH 7.55 Lime req.(tons/ac) 0.00

#N

#P<sub>2</sub>O<sub>5</sub>

#K<sub>2</sub>O

#Ca

#S

#B

#Zn

#Fe

#Mn

#Cu

#Mg

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Keenesburg, CO 80643

Date: 7/22/2022

Farmer/Grower: Top Operating

Field No.: #1 9-6 W

Requested Fertilizer Recommendation:

Crop: NA

Yield goal: NA

Units: NA

Laboratory No. S22181-21 Page 2

ECEC (meq/100g)	15.7
%Base Sat by Na	5.27
%Base Sat by K	2.91
%Base Sat by Mg	22.58
%Base Sat by Ca	67.04
%Base Sat by Zn	0.03
%Base Sat by Fe	0.32
%Base Sat by Mn	0.22
%Base Sat by Cu	0.02
%Base Sat by H	1.60

Chloride (mg/kg)	498.3
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Selenium (mg/kg)	ND
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**Keenesburg, CO 80643**

**Date:** 7/22/2022

**Farmer/Grower: Top Operating**

**Field No.: #1 0-8 E**

**Requested Fertilizer Recommendation:**

<b>Laboratory No.</b>	<b>S22181-22</b>	<b>Vs. Our Average Ag. Soil</b>	<b>Crop: NA</b>
			<b>Yield goal: NA</b>
<b>Soil Texture</b>	<b>Sandy Clay Loam</b>		<b>Units: NA</b>
<b>pH</b>	<b>7.61</b>	<b>Avg</b>	<b>Credits:</b>
<b>Salts 1:1,mmhos/cm</b>	<b>4.20</b>	<b>V. High</b>	<b>Subsoil N ppm:</b>
<b>Organic Matter, %</b>	<b>3.49</b>	<b>V. High</b>	

	<b>ppm</b>	<b>lbs/acre</b>	<b>Vs. Our Average Ag. Soil</b>
<b>Nitrate-N</b>	<b>104.8</b>	<b>210</b>	<b>V. High</b>
<b>Phosphorus</b>	<b>243</b>	<b>486</b>	<b>V. High</b>
<b>Potassium</b>	<b>1162</b>	<b>2323</b>	<b>V. High</b>
<b>Calcium</b>	<b>1500</b>	<b>3000</b>	<b>Avg</b>
<b>Sulfate-S</b>	<b>294</b>	<b>588</b>	<b>V. High</b>
<b>Boron</b>	<b>1.1</b>	<b>2.3</b>	<b>Avg</b>
<b>Zinc</b>	<b>10.9</b>	<b>21.8</b>	<b>High</b>
<b>Iron</b>	<b>30.8</b>	<b>62</b>	<b>Avg</b>
<b>Manganese</b>	<b>25.5</b>	<b>51.0</b>	<b>V. High</b>
<b>Copper</b>	<b>2.9</b>	<b>5.8</b>	<b>Avg</b>
<b>Magnesium</b>	<b>569</b>	<b>1138</b>	<b>High</b>
<b>Sodium</b>	<b>518.5</b>	<b>1037</b>	<b>V. High</b>
<b>ECEC (meq/100g)</b>	<b>18.1</b>	<b>CaCO3-C%</b>	<b>0.57</b>
<b>SMP Buffer pH</b>	<b>7.42</b>	<b>Lime req.(tons/ac)</b>	<b>0.00</b>

**Recommendations - add lbs. per acre**

#N
#P <sub>2</sub> O <sub>5</sub>
#K <sub>2</sub> O
#Ca
#S
#B
#Zn
#Fe
#Mn
#Cu
#Mg

**Notes:**

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Keenesburg, CO 80643

Date: 7/22/2022

Farmer/Grower: Top Operating

Field No.: #1 0-8 E

Requested Fertilizer Recommendation:

Crop: NA

Yield goal: NA

Units: NA

Laboratory No. S22181-22 Page 2

ECEC (meq/100g)	18.1
%Base Sat by Na	12.26
%Base Sat by K	16.15
%Base Sat by Mg	25.45
%Base Sat by Ca	40.70
%Base Sat by Zn	0.18
%Base Sat by Fe	0.75
%Base Sat by Mn	0.76
%Base Sat by Cu	0.05
%Base Sat by H	3.70

Chloride (mg/kg)	602.0
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Selenium (mg/kg)	ND
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**Farmer/Grower: Top Operating**

**Field No.: #1 9-16 E**

**Requested Fertilizer Recommendation:**

**Date: 7/22/2022**

**Laboratory No. S22181-23**

**Vs. Our  
Average Ag.  
Soil**

**Crop: NA**

**Yield goal: NA**

**Units: NA**

**Soil Texture Sandy Loam**

**pH 7.8**

**Avg**

**Credits:**

**Salts 1:1,mmhos/cm 0.22**

**Avg**

**Subsoil N ppm:**

**Organic Matter, % 0.87**

**Low**

**Vs. Our  
Average  
Ag. Soil**

**Recommendations - add lbs. per acre**

	ppm	lbs/acre	
<b>Nitrate-N</b>	<b>42.2</b>	<b>84</b>	<b>V. High</b>
<b>Phosphorus</b>	<b>109</b>	<b>217</b>	<b>V. High</b>
<b>Potassium</b>	<b>361</b>	<b>722</b>	<b>Avg</b>
<b>Calcium</b>	<b>1680</b>	<b>3360</b>	<b>Avg</b>
<b>Sulfate-S</b>	<b>69</b>	<b>138</b>	<b>High</b>
<b>Boron</b>	<b>1.1</b>	<b>2.2</b>	<b>Avg</b>
<b>Zinc</b>	<b>2.0</b>	<b>3.9</b>	<b>Avg</b>
<b>Iron</b>	<b>25.3</b>	<b>51</b>	<b>Avg</b>
<b>Manganese</b>	<b>14.7</b>	<b>29.4</b>	<b>High</b>
<b>Copper</b>	<b>1.4</b>	<b>2.9</b>	<b>Avg</b>
<b>Magnesium</b>	<b>481</b>	<b>961</b>	<b>High</b>
<b>Sodium</b>	<b>250.0</b>	<b>500</b>	<b>V. High</b>
<b>ECEC (meq/100g)</b>	<b>14.5</b>	<b>CaCO3-C%</b>	<b>0.75</b>
<b>SMP Buffer pH</b>	<b>7.49</b>	<b>Lime req.(tons/ac)</b>	<b>0.00</b>

<b>#N</b>
<b>#P<sub>2</sub>O<sub>5</sub></b>
<b>#K<sub>2</sub>O</b>
<b>#Ca</b>
<b>#S</b>
<b>#B</b>
<b>#Zn</b>
<b>#Fe</b>
<b>#Mn</b>
<b>#Cu</b>
<b>#Mg</b>

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H2 Enterprises  
4626 CR 65  
Keenesburg, CO 80643

Date: 7/22/2022

Farmer/Grower: Top Operating

Field No.: #1 9-16 E

Requested Fertilizer Recommendation:

Crop: NA

Yield goal: NA

Units: NA

Laboratory No. S22181-23 Page 2

ECEC (meq/100g)	14.5
%Base Sat by Na	7.39
%Base Sat by K	6.28
%Base Sat by Mg	26.89
%Base Sat by Ca	57.01
%Base Sat by Zn	0.04
%Base Sat by Fe	0.77
%Base Sat by Mn	0.55
%Base Sat by Cu	0.03
%Base Sat by H	1.04

Chloride (mg/kg)	324.0
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Selenium (mg/kg)	ND
------------------	----

Note: NA = Not Applicable, ND = Not Detected

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**H2 Enterprises**  
**4626 CR 65**  
**Keenesburg, CO 80643**

**Date:** 7/22/2022

**Farmer/Grower: Top Operating**

**Field No.:** #1 Field 0-8

**Requested Fertilizer Recommendation:**

**Laboratory No.** S22181-12  
**Vs. Our Average Ag. Soil**

**Crop:** NA

**Yield goal:** NA

**Soil Texture** Sandy Clay Loam

**Units:** NA

**pH** 7.38 **Avg**

**Credits:**

**Salts 1:1,mmhos/cm** 0.56 **Avg**

**Subsoil N ppm:**

**Organic Matter, %** 1.72 **Avg**

	ppm	lbs/acre	Vs. Our Average Ag. Soil
<b>Nitrate-N</b>	7.6	15	Avg
<b>Phosphorus</b>	24	47	Avg
<b>Potassium</b>	157	314	Low
<b>Calcium</b>	3000	6000	Avg
<b>Sulfate-S</b>	33	66	Avg
<b>Boron</b>	0.6	1.2	Avg
<b>Zinc</b>	1.2	2.5	Avg
<b>Iron</b>	37.3	75	Avg
<b>Manganese</b>	12.2	24.3	High
<b>Copper</b>	1.6	3.2	Avg
<b>Magnesium</b>	357	715	High
<b>Sodium</b>	79.7	159	Avg
<b>ECEC (meq/100g)</b>	20.0	CaCO <sub>3</sub> -C%	1.06
<b>SMP Buffer pH</b>	7.45	Lime req.(tons/ac)	0.00

**Recommendations - add lbs. per acre**

#N
#P <sub>2</sub> O <sub>5</sub>
#K <sub>2</sub> O
#Ca
#S
#B
#Zn
#Fe
#Mn
#Cu
#Mg

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4626 CR 65  
Keenesburg, CO 80643

Date: 7/22/2022

Farmer/Grower: Top Operating

Field No.: #1 Field 0-8

Requested Fertilizer Recommendation:

Crop: NA

Yield goal: NA

Units: NA

Laboratory No. S22181-12 Page 2

ECEC (meq/100g)	20.0
%Base Sat by Na	1.71
%Base Sat by K	1.98
%Base Sat by Mg	14.48
%Base Sat by Ca	73.73
%Base Sat by Zn	0.02
%Base Sat by Fe	0.82
%Base Sat by Mn	0.33
%Base Sat by Cu	0.02
%Base Sat by H	6.91

Chloride (mg/kg)	68.0
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Selenium (mg/kg)	0.1
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Note: NA = Not Applicable, ND = Not Detected

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H2 Enterprises  
4626 CR 65  
Keenesburg, CO 80643

Date: 7/22/2022

Farmer/Grower: Top Operating

Field No.: E1 Field 9-16

Requested Fertilizer Recommendation:

Laboratory No. S22181-13

Vs. Our  
Average Ag.  
Soil

Crop: NA

Yield goal: NA

Units: NA

Soil Texture Clay Loam

pH 7.53

Avg

Credits:

Salts 1:1,mmhos/cm 0.42

Avg

Subsoil N ppm:

Organic Matter, % 1.28

Avg

Vs. Our  
Average  
Ag. Soil

Recommendations - add lbs. per acre

Nitrate-N 4.6 9 Low

Phosphorus 10 20 Low

Potassium 121 243 Low

Calcium 2490 4980 Avg

Sulfate-S 27 54 Avg

Boron 0.6 1.3 Avg

Zinc 1.1 2.3 Avg

Iron 37.4 75 Avg

Manganese 11.1 22.2 High

Copper 1.6 3.1 Avg

Magnesium 363 725 High

Sodium 53.9 108 Avg

ECEC (meq/100g) 16.8 CaCO3-C% 0.20

SMP Buffer pH 7.45 Lime req.(tons/ac) 0.00

#N
#P <sub>2</sub> O <sub>5</sub>
#K <sub>2</sub> O
#Ca
#S
#B
#Zn
#Fe
#Mn
#Cu
#Mg

Notes:

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July 26, 2022

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H2 Enterprises  
4626 CR 65  
Keenesburg, CO 80643

Laboratory No.: S22181-13B  
Sample: Field #1 9-16

Project: Kelsey Singleton  
Location: Field #1 9-16

## Analyses performed according to methods in notes below

	Results	Units	Surr Recovery (%)
TRPH (ORO, Oil and Grease)	NA	mg/kg – ppm	NA
TEH (DRO)	NA	mg/kg - ppm	NA
TVH (GRO)	NA	µg/kg - ppb	NA
Benzene	NA	µg/kg - ppb	NA
Toluene	NA	µg/kg - ppb	NA
Ethyl-benzene	NA	µg/kg - ppb	NA
m,p-Xylene	NA	µg/kg - ppb	NA
o-Xylene	NA	µg/kg - ppb	NA
Sat. Paste pH	7.1	SI	NA
Sat. Paste EC	1.2	mS/cm	NA
Sat. Paste Saturation%	34.9	%	NA
Sat. Paste TDS	797	mg/L	NA
Sat. Paste SAR	1.4	--	NA

## Notes:

TRPH = Total Recoverable Petroleum Hydrocarbons (EPA 1664 or SM5520F Soxhlet extracted SGT-HEM)

DRO = Diesel Range Organics, GRO = Gas Range Organics, ORO = Oil Range Organics

TVH = Total Volatile Hydrocarbons (C6-C10 EPA 8015, EPA 5030/5035 purge and trap)

TEH = Total Extractable Hydrocarbons (Diesel #2 C11-C28, EPA Method 8015 solvent extraction)

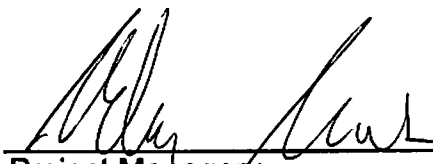
BTEX = Benzene, Toluene, Ethylbenzene, Xylenes (EPA 8015, EPA 5030/5035 purge and trap)

VOC = Volatile Organic Compounds (EPA 8260B, EPA 5030/5035 purge and trap)

Soils always run as received but reported on a dry weight basis (mg/kg-dry-wt)

Saturated Paste methods: Gavlak et al. "Soil, Plant, and Water reference methods for the western region"

U = Compound analyzed but not detected, NA = Not Applicable or Not Analyzed

  
Project Manager

7-26-22  
Date

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4626 CR 65

Keenesburg, CO 80643

Laboratory No.: S22181-20i

Sample: #1 0-8 (W)

Project: Kelsey Singleton

Location: #1 0-8 (W)

## Analyses performed according to methods in notes below

	Results	Units	Surr Recovery (%)
TRPH (ORO, Oil and Grease)	NA	mg/kg – ppm	NA
TEH (DRO)	NA	mg/kg - ppm	NA
TVH (GRO)	NA	µg/kg - ppb	NA
Benzene	NA	µg/kg - ppb	NA
Toluene	NA	µg/kg - ppb	NA
Ethyl-benzene	NA	µg/kg - ppb	NA
m,p-Xylene	NA	µg/kg - ppb	NA
o-Xylene	NA	µg/kg - ppb	NA
Sat. Paste pH	7.0	SI	NA
Sat. Paste EC	11.6	mS/cm	NA
Sat. Paste Saturation%	43.1	%	NA
Sat. Paste TDS	7424	mg/L	NA
Sat. Paste SAR	12.4	--	NA

## Notes:

TRPH = Total Recoverable Petroleum Hydrocarbons (EPA 1664 or SM5520F Soxhlet extracted SGT-HEM)

DRO = Diesel Range Organics, GRO = Gas Range Organics, ORO = Oil Range Organics

TVH = Total Volatile Hydrocarbons (C6-C10 EPA 8015, EPA 5030/5035 purge and trap)

TEH = Total Extractable Hydrocarbons (Diesel #2 C11-C28, EPA Method 8015 solvent extraction)


BTEX = Benzene, Toluene, Ethylbenzene, Xylenes (EPA 8015, EPA 5030/5035 purge and trap)

VOC = Volatile Organic Compounds (EPA 8260B, EPA 5030/5035 purge and trap)

Soils always run as received but reported on a dry weight basis (mg/kg-dry-wt)

Saturated Paste methods: Gavlak et al. "Soil, Plant, and Water reference methods for the western region"

U = Compound analyzed but not detected, NA = Not Applicable or Not Analyzed



Project Manager

7-26-22

Date

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H2 Enterprises

4626 CR 65

Keenesburg, CO 80643

Laboratory No.: S22181-21J

Project: Kelsey Singleton

Sample: #1 9-6 W

Location: #1 9-6 W

## Analyses performed according to methods in notes below

	Results	Units	Surr Recovery (%)
TRPH (ORO, Oil and Grease)	NA	mg/kg – ppm	NA
TEH (DRO)	NA	mg/kg - ppm	NA
TVH (GRO)	NA	µg/kg - ppb	NA
Benzene	NA	µg/kg - ppb	NA
Toluene	NA	µg/kg - ppb	NA
Ethyl-benzene	NA	µg/kg - ppb	NA
m,p-Xylene	NA	µg/kg - ppb	NA
o-Xylene	NA	µg/kg - ppb	NA
Sat. Paste pH	7.7	SI	NA
Sat. Paste EC	5.3	mS/cm	NA
Sat. Paste Saturation%	26.6	%	NA
Sat. Paste TDS	3373	mg/L	NA
Sat. Paste SAR	9.3	–	NA

## Notes:

TRPH = Total Recoverable Petroleum Hydrocarbons (EPA 1664 or SM5520F Soxhlet extracted SGT-HEM)

DRO = Diesel Range Organics, GRO = Gas Range Organics, ORO = Oil Range Organics

TVH = Total Volatile Hydrocarbons (C6-C10 EPA 8015, EPA 5030/5035 purge and trap)

TEH = Total Extractable Hydrocarbons (Diesel #2 C11-C28, EPA Method 8015 solvent extraction)

BTEX = Benzene, Toluene, Ethylbenzene, Xylenes (EPA 8015, EPA 5030/5035 purge and trap)

VOC = Volatile Organic Compounds (EPA 8260B, EPA 5030/5035 purge and trap)

Soils always run as received but reported on a dry weight basis (mg/kg-dry-wt)

Saturated Paste methods: Gavlak et al. "Soil, Plant, and Water reference methods for the western region"

U = Compound analyzed but not detected, NA = Not Applicable or Not Analyzed

  
\_\_\_\_\_  
Project Manager

7-6-22  
\_\_\_\_\_  
Date

# WELD LABORATORIES, INC.

July 26, 2022

1527 First Avenue • Greeley, Colorado 80631

Phone: (970) 353-8118 • Fax: (970) 353-1671

www.weldlabs.com

H2 Enterprises

4626 CR 65

Keenesburg, CO 80643

Laboratory No.: S22181-22K

Project: Kelsey Singleton

Sample: #1 0-8 E

Location: #1 0-8 E

## Analyses performed according to methods in notes below

	Results	Units	Surr Recovery (%)
TRPH (ORO, Oil and Grease)	NA	mg/kg – ppm	NA
TEH (DRO)	NA	mg/kg – ppm	NA
TVH (GRO)	NA	µg/kg – ppb	NA
Benzene	NA	µg/kg – ppb	NA
Toluene	NA	µg/kg – ppb	NA
Ethylbenzene	NA	µg/kg – ppb	NA
m,p-Xylene	NA	µg/kg – ppb	NA
o-Xylene	NA	µg/kg – ppb	NA
Sat. Paste pH	7.4	SI	NA
Sat. Paste EC	9.4	mS/cm	NA
Sat. Paste Saturation%	34.8	%	NA
Sat. Paste TDS	6022	mg/L	NA
Sat. Paste SAR	11.6	--	NA

## Notes:

TRPH = Total Recoverable Petroleum Hydrocarbons (EPA 1664 or SM5520F Soxhlet extracted SGT-HEM)

DRO = Diesel Range Organics, GRO = Gas Range Organics, ORO = Oil Range Organics

TVH = Total Volatile Hydrocarbons (C6-C10 EPA 8015, EPA 5030/5035 purge and trap)

TEH = Total Extractable Hydrocarbons (Diesel #2 C11-C28, EPA Method 8015 solvent extraction)

BTEX = Benzene, Toluene, Ethylbenzene, Xylenes (EPA 8015, EPA 5030/5035 purge and trap)

VOC = Volatile Organic Compounds (EPA 8260B, EPA 5030/5035 purge and trap)

Soils always run as received but reported on a dry weight basis (mg/kg-dry-wt)

Saturated Paste methods: Gavlak et al. "Soil, Plant, and Water reference methods for the western region"

U = Compound analyzed but not detected, NA = Not Applicable or Not Analyzed

  
Project Manager

7-26-22  
Date

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July 26, 2022

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H2 Enterprises

4626 CR 65

Keenesburg, CO 80643

Laboratory No.: S22181-23L

Sample: #1 9-16 E

Project: Kelsey Singleton

Location: #1 9-16 E

## Analyses performed according to methods in notes below

	Results	Units	Surr Recovery (%)
TRPH (ORO, Oil and Grease)	NA	mg/kg – ppm	NA
TEH (DRO)	NA	mg/kg - ppm	NA
TVH (GRO)	NA	µg/kg - ppb	NA
Benzene	NA	µg/kg - ppb	NA
Toluene	NA	µg/kg - ppb	NA
Ethyl-benzene	NA	µg/kg - ppb	NA
m,p-Xylene	NA	µg/kg - ppb	NA
o-Xylene	NA	µg/kg - ppb	NA
Sat. Paste pH	7.5	SI	NA
Sat. Paste EC	6.2	mS/cm	NA
Sat. Paste Saturation%	31.9	%	NA
Sat. Paste TDS	3968	mg/L	NA
Sat. Paste SAR	7.1	–	NA

## Notes:

TRPH = Total Recoverable Petroleum Hydrocarbons (EPA 1664 or SM5520F Soxhlet extracted SGT-HEM)

DRO = Diesel Range Organics, GRO = Gas Range Organics, ORO = Oil Range Organics

TVH = Total Volatile Hydrocarbons (C6-C10 EPA 8015, EPA 5030/5035 purge and trap)

TEH = Total Extractable Hydrocarbons (Diesel #2 C11-C28, EPA Method 8015 solvent extraction)

BTEX = Benzene, Toluene, Ethylbenzene, Xylenes (EPA 8015, EPA 5030/5035 purge and trap)

VOC = Volatile Organic Compounds (EPA 8260B, EPA 5030/5035 purge and trap)

Soils always run as received but reported on a dry weight basis (mg/kg-dry-wt)

Saturated Paste methods: Gavlak et al. "Soil, Plant, and Water reference methods for the western region"

U = Compound analyzed but not detected, NA = Not Applicable or Not Analyzed

  
Project Manager

7-26-22  
Date



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July 26, 2022

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H2 Enterprises

4626 CR 65

Keenesburg, CO 80643

Laboratory No.: S22181-12A

Sample: Field #1 0-8

Project: Kelsey Singleton

Location: Field #1 0-8

## Analyses performed according to methods in notes below

	Results	Units	Surr Recovery (%)
TRPH (ORO, Oil and Grease)	NA	mg/kg – ppm	NA
TEH (DRO)	NA	mg/kg - ppm	NA
TVH (GRO)	NA	µg/kg - ppb	NA
Benzene	NA	µg/kg - ppb	NA
Toluene	NA	µg/kg - ppb	NA
Ethyl-benzene	NA	µg/kg - ppb	NA
m,p-Xylene	NA	µg/kg - ppb	NA
o-Xylene	NA	µg/kg - ppb	NA
Sat. Paste pH	7.1	SI	NA
Sat. Paste EC	1.5	mS/cm	NA
Sat. Paste Saturation%	37.1	%	NA
Sat. Paste TDS	934	mg/L	NA
Sat. Paste SAR	2.0	--	NA

## Notes:

TRPH = Total Recoverable Petroleum Hydrocarbons (EPA 1664 or SM5520F Soxhlet extracted SGT-HEM)

DRO = Diesel Range Organics, GRO = Gas Range Organics, ORO = Oil Range Organics

TVH = Total Volatile Hydrocarbons (C6-C10 EPA 8015, EPA 5030/5035 purge and trap)

TEH = Total Extractable Hydrocarbons (Diesel #2 C11-C28, EPA Method 8015 solvent extraction)

BTEX = Benzene, Toluene, Ethylbenzene, Xylenes (EPA 8015, EPA 5030/5035 purge and trap)

VOC = Volatile Organic Compounds (EPA 8260B, EPA 5030/5035 purge and trap)

Soils always run as received but reported on a dry weight basis (mg/kg-dry-wt)

Saturated Paste methods: Gavlak et al. "Soil, Plant, and Water reference methods for the western region"

U = Compound analyzed but not detected, NA = Not Applicable or Not Analyzed



Project Manager

7-26-22

Date

Weld Laboratories, Inc.  
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Greeley, CO 80631

# WELD LABORATORIES, INC.

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H2 Enterprises  
4626 CR 65  
Keenesburg, CO 80643

Date: 7/22/2022

Farmer/Grower: Top Operating

Field No.: E1 Field 9-16

Requested Fertilizer Recommendation:

Crop: NA

Yield goal: NA

Units: NA

Laboratory No. S22181-13 Page 2

ECEC (meq/100g)	16.8
%Base Sat by Na	1.38
%Base Sat by K	1.83
%Base Sat by Mg	17.54
%Base Sat by Ca	73.05
%Base Sat by Zn	0.02
%Base Sat by Fe	0.99
%Base Sat by Mn	0.36
%Base Sat by Cu	0.03
%Base Sat by H	4.82

Chloride (mg/kg)	58.1
------------------	------

Selenium (mg/kg)	0.1
------------------	-----

Note: NA = Not Applicable, ND = Not Detected

Note: Minerals on this page are digested. Not necessarily plant-available.

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July 22, 2022

H2 Enterprises

4626 WCR 65

Keenesburg, CO 80643

Laboratory No. S22181-12-15

## Soil Classification

Sample ID	% Organic Matter	% Silt	% Clay	% Sand	% Fine Sand	Classification
#1 Field 0-8	1.72	25.8	17.5	46.1	10.6	SANDY LOAM
#1 Field 9-16	1.28	24.6	16.4	44.6	14.4	SANDY LOAM
#3 0-8	0.87	33.1	13.2	38.7	14.9	SANDY LOAM
#3 9-16	1.22	28.8	20.9	34.2	16.1	LOAM

  
Project Manager

7-22-22  
Date

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July 22, 2022

H2 Enterprises

4626 WCR 65

Keenesburg, CO 80643

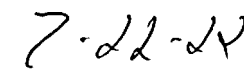
Laboratory No. S22181-20-23

## Soil Classification

Sample ID	% Organic Matter	% Silt	% Clay	% Sand	% Fine Sand	Classification
#1 0-8 N	3.82	25.8	25.8	34.5	13.9	SANDY CLAY LOAM
#1 9-6 W	0.85	41.2	13.2	33.0	12.5	LOAM
#1 0-8 E	3.48	27.2	31.5	27.5	13.9	CLAY LOAM
#1 9-16 E	0.87	21.6	21.6	38.5	18.4	SANDY CLAY LOAM



Project Manager



Date