

**Citation Oil Gas Corp.  
Williams 31-11 #7  
Soil Sample Results Summary Table  
Attachment C - Analytical Summary**

Sample Location	Date	Depth (ft. bgs)	PID Reading (ppm)	Visual Observation	Latitude	Longitude	Horizontal GPS Accuracy (ft.)	Submitted for Lab Analysis?
SS01@5'	1/30/2024	5	0.8	No Staining	38.9345600	-103.0780400	<1.0 meter <sup>(1)</sup>	Yes
GS01	1/30/2024	0.5	0.8	No Staining	38.9346200	-103.0780500	<1.0 meter <sup>(1)</sup>	No
GS02	1/30/2024	0.5	1.2	No Staining	38.9345800	-103.0780000	<1.0 meter <sup>(1)</sup>	No
GS03	1/30/2024	0.5	0.7	No Staining	38.9345200	-103.0780300	<1.0 meter <sup>(1)</sup>	No
GS04	1/30/2024	0.5	0.8	No Staining	38.9345600	-103.0780900	<1.0 meter <sup>(1)</sup>	No
Williams 31-11 #7 Background Soil Samples								
BKG01@5'	1/30/2024	5	0.5	No Staining	38.9346300	-103.0793600	<1.0 meter <sup>(1)</sup>	Yes
BKG02@5'	6/27/2024	5	NM	No Staining	38.9342900	-103.0778100	<1.0 meter <sup>(1)</sup>	Yes
BKG03@2'	3/26/2026	2	0.6	No Staining	38.9344809	-103.0788190	<1.0 meter <sup>(1)</sup>	Yes
BKG03@5'	3/26/2026	5	0.6	No Staining	38.9344809	-103.0788190	<1.0 meter <sup>(1)</sup>	Yes
BKG04@2'	3/26/2026	2	0.9	No Staining	38.9351487	-103.0781138	<1.0 meter <sup>(1)</sup>	Yes
BKG04@5'	3/26/2026	5	1.3	No Staining	38.9351487	-103.0781138	<1.0 meter <sup>(1)</sup>	Yes

**Notes:**

(1) GPS data collected using a sub-ft accuracy handheld unit. A value of <1.0 meter has been applied for all sample locations that can be safely accessed.

ft. bgs = Feet below ground surface

PID = Photoionization detector

ppm = Parts per million

GPS = Global positioning system

NM = Not measured

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**Williams 31-11 #7**  
**Soil Sample Results Summary Table - VOCs**  
**Attachment C - Analytical Summary**

Soil Sample Location	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-ORO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
ECMC standards for soil (mg/kg) <sup>(1)</sup>		0.0026	0.69	0.78	9.9	500			0.0081	0.0087
ECMC standards for soil (mg/kg) <sup>(2)</sup>		1.2	490	5.8	58	500			30	27
SS01@5'	1/30/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND

**Notes:**

VOCs = Volatile organic compounds

(1) Standards for soil are taken from ECMC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

(2) Standards for soil are taken from ECMC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

ECMC = Colorado Energy and Carbon Management Commission

mg/kg = Milligrams per kilogram

TVPH - GRO = Total volatile petroleum hydrocarbons - gasoline range organics

TEPH - DRO = Total extractable petroleum hydrocarbons - diesel range organics

TEPH - ORO = Total extractable petroleum hydrocarbons - oil range organics

1,2,4 - TMB = 1,2,4 - Trimethylbenzene

1,3,5 - TMB = 1,3,5 - Trimethylbenzene

ND = Non-detect

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**Soil Sample Results Summary Table - PAHs**  
**Attachment C - Analytical Summary**

Soil Sample Location	Date	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)A (mg/kg)	Benzo(b)F (mg/kg)	Benzo(k)F (mg/kg)	Benzo(a)P (mg/kg)	Chrysene (mg/kg)	D (a,h) A (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	1-M (mg/kg)	2-M (mg/kg)	Naphthalene (mg/kg)	Pyrene (mg/kg)
ECMC standards for soil (mg/kg) <sup>(1)</sup>		0.55	5.8	0.011	0.3	2.9	0.24	9	0.096	8.9	0.54	0.98	0.006	0.019	0.0038	1.3
ECMC standards for soil (mg/kg) <sup>(2)</sup>		360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	2	180
SS01@5'	1/30/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

PAHs = Polycyclic aromatic hydrocarbons

(1) Standards for soil are taken from ECMC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

(2) Standards for soil are taken from ECMC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

ECMC = Colorado Energy and Carbon Management Commission

mg/kg = Milligrams per kilogram

Benzo(a)A = Benzo(a)anthracene

Benzo(b)F = Benzo(b)fluoranthene

Benzo(k)F = Benzo(k)fluoranthene

Benzo(a)P = Benzo(a)pyrene

D (a,h) A = Dibenz(a,h)anthracene

1,2,3-CD = Indeno(1,2,3-cd)pyrene

1-M = 1-Methylnaphthalene

2-M = 2-Methylnaphthalene

ND = Non-detect

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**Soil Sample Results Summary Table - Metals**  
**Attachment C - Analytical Summary**

Soil Sample Location	Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC standards for soil (mg/kg) <sup>(1)</sup>		0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
ECMC standards for soil (mg/kg) <sup>(2)</sup>		0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
Site-Specific Background Limits (x 1.25)		10.26	-	-	-	-	-	-	-	-	-
SS01@5'	1/30/2024	<b>4.68</b>	260	0.271	ND	5.89	9.13	6.27	ND	0.0443	18.5
Williams 31-11 #7 Background Soil Samples											
BKG01@5'	1/30/2024	<b>3.79</b>	213	0.31	ND	5.58	10.2	6.22	ND	0.0419	18.1
BKG03@2'	3/26/2026	<b>5.77</b>	224.36	NA	NA	NA	NA	NA	NA	NA	NA
BKG03@5'	3/26/2026	<b>6.56</b>	311.47	NA	NA	NA	NA	NA	NA	NA	NA
BKG04@2'	3/26/2026	<b>4.41</b>	72.49	NA	NA	NA	NA	NA	NA	NA	NA
BKG04@5'	3/26/2026	<b>8.21</b>	39.3	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

(1) Standards for soil are taken from ECMC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

(2) Standards for soil are taken from ECMC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

ft. bgs = Feet below ground surface

ECMC = Colorado Energy and Carbon Management Commission

mg/kg = Milligrams per kilogram

- = Site specific background limit is not present or does not exceed relevant ECMC Table 915-1 standard

**BOLD** = Analytical result is in exceedance of ECMC Table 915-1 soil standard, but was within the site-specific background concentration

**Concentration in red font exceeds the Table 915-1 soil standard and site-specific background limits**

ND = Non-detect

NA = Not analyzed

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**Soil Sample Results Summary Table - Soil Suitability for Reclamation**  
**Attachment C - Analytical Summary**

Soil Sample Location	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
ECMC standards for soil <sup>(1)</sup>		6 - 8.3	<6	<4	2
Site-Specific Background Limits		8.59	7.09	-	-
SS01@5'	1/30/2024	8.93	1.51	0.386	0.167
Williams 31-11 #7 Background Soil Samples					
BKG01@5'	1/30/2024	8.23	8.67	2.33	0.105
BKG02@5'	6/27/2024	8.59	NA	NA	NA
BKG03@2'	3/26/2026	8.33	5.23	0.91	NA
BKG03@5'	3/26/2026	8.06	7.09	3.71	NA
BKG04@2'	3/26/2026	8.03	0.69	0.78	NA
BKG04@5'	3/26/2026	8.10	0.84	0.84	NA

Notes:

(1) Standards for soil are taken from ECMC Table 915-1, effective January 15, 2021

ECMC = Colorado Energy and Carbon Management Commission

ft. bgs = Feet below ground surface

mmhos/cm = Millimhos per centimeter

mg/L = Milligrams per liter

SAR = Sodium Adsorption Ratio

EC = Electrical Conductivity

- = Site specific background limit is not present or does not exceed relevant ECMC Table 915-1 standard

NA = Not analyzed

Concentration in red font exceeds the Table 915-1 soil standard and site-specific background limits