

Kathy Vertiz
Contract EHS Specialist
Caerus Oil & Gas LLC (Operator #: 10456)
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Quantitative Vegetation Survey Report

COGCC Location Name (ID)	ROWE-68S92W /11SWNE (334398)
Operator Location Name	G11SE
COGCC Operator Name (Operator #)	Caerus Oil and Gas LLC (10456)
Legal Description	SWNE Sec. 11 T8S-R92W
Geographic Coordinates (WGS84)	39.375972 / -107.630991

Ms. Vertiz,

Confluence Compliance Companies LLC (Confluence) is presenting this report to Caerus Oil & Gas LLC (Caerus) documenting the results of a quantitative vegetation survey (survey) completed at the above-referenced location. The survey was conducted to evaluate the status of the reclaimed location (reclaim) by comparing reclaim vegetation cover and composition with the designated reference area (reference). The survey is used alongside a site evaluation to determine if the location meets the following regulatory criteria;

1. Vegetative cover requirements for final reclamation in Colorado Oil & Gas Conservation Commission (COGCC) Rule 1004.d ^[1]
2. Final abandonment requirements as set forth in the Department of Interior (DOI) 43 CFR Part 3160 ^[2]
3. Final abandonment requirements as set forth in the Bureau of Land Management (BLM) Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development – The Gold Book ^[3]

Included with this report is a review of the methodologies used to evaluate the reclaimed surface, results of those evaluations, and recommendations for how to proceed with the information presented in this report. Attached is a summary of field data, topographic location map, reclamation survey site diagram, vegetation assessment photo log, relative foliar species abundance table, and vegetation survey results that illustrate survey findings.

Methods

The survey methodology employed by Confluence is the line-point intercept method with plot-level species inventories conducted in accordance with the Monitoring Manual for Grassland, Shrubland and Savanna Ecosystems (Volume 2) ^[4]. Prior to conducting the field evaluation, a desktop review of available records and historical aerial imagery is performed to define and map all portions of the reclaimed surface and identify and map comparable reference areas. Reference area(s) are selected to ensure that comparative assessments are conducted in areas not previously impacted by oil and gas operations or other surface disturbing activities, have similar slope and aspect to the reclaimed surface, and are reflective of pre-disturbance conditions for the referenced location to the extent practicable. When on-site, preliminary reclaim and reference transect locations selected during the desktop review are confirmed based on observed site conditions. Transect locations are selected to best represent the

vegetative cover and species composition of the respective areas, and to limit subjectivity of field personnel.

Vegetation cover data is collected at 50 survey points along each transect. Foliar and basal cover, along with non-vegetated and noxious weed occurrences, are documented at each survey point. Typically, two transects are completed in the reclaim and reference areas, for a total of 100 survey points in both areas. Survey point data is documented in the Vegetation Survey – Field Data Tables. Photographs are collected throughout the survey to document site conditions and depict transects. These photos are included in the Vegetation Assessment Photo Log. The Reclamation Survey Site Diagram illustrates transect locations as well as photo collection points.

Noxious weeds listed by the Colorado Department of Agriculture are excluded from the percent of reference vegetative coverage calculations, per COGCC Rule 1004.d. To ensure reclamation vegetative composition meets stakeholder standards, undesirable cover is also quantified in the attached summary of field data. Undesirable cover includes species identified by the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) as introduced and not native to the lower 48 states, and not considered beneficial for reclamation purposes. All other vegetation not classified as noxious or undesirable, is identified by growth habit (grass, forb, shrub) and is considered desirable vegetative cover.

Results

The survey was conducted on July 22, 2022, with the following findings:

Reclaim Vegetation Cover Type	Cover (%)	Reference Vegetation Cover Type	Cover (%)
Desirable Foliar Cover	82	Desirable Foliar Cover	54
Undesirable Foliar Cover	1	Undesirable Foliar Cover	16
Noxious Weed Foliar Cover	3	Noxious Weed Foliar Cover	9
Desirable vegetation comparison (reclaim/reference)			152%

Please see the attachments for detailed survey results, including a summary of field data, relative foliar species abundance tables, and field data tables.

Analysis and Recommendations

No reclamation maintenance is recommended for this location as undesirable and noxious weed species were under-represented on the reclaimed surface compared to the reference area, and vegetation establishment is uniform. Foliar species abundance calculations indicate desirable vegetative cover compositions are comparable. Based on the results of the survey, final reclamation is found to be successful and uniform vegetation cover has been established that approximates pre-disturbance conditions with a total plant cover of at least 80% of the reference area. Submittal of a Final Abandonment Notice (FAN) and Form 4 (Final Reclamation Completion Notice) is recommended to document successful completion of final reclamation and notify regulators that the site is ready for final reclamation inspections.



Confluence appreciates the opportunity to provide environmental consulting services on this project. If you have any questions about our methodology, the results of this assessment, or our conclusions, please let me know.

Respectfully,



Chris Jones
Reclamation Program Manager
970-749-6965 (M)
Chris.Jones@confluence-cc.com

Attachments

- Quantitative Vegetation Survey – Summary of Field Data
- Topographic Location Map
- Reclamation Survey Site Diagram
- Vegetation Assessment Photo Log
- Quantitative Vegetation Survey – Relative Foliar Species Abundance Tables
- Quantitative Vegetation Survey – Field Data Tables

References

1. Department of Natural Resources, Colorado Oil and Gas Conservation Commission. “Rules and Regulations”, April 30, 2022, [Complete Rules \(100 - 1200 Series\) \(state.co.us\)](#).
2. Department of the Interior, Bureau of Land Management. “43 CFR Subpart 3160 - Onshore Oil and Gas Operations: General”, 1983, [eCFR :: 43 CFR Part 3160 -- Onshore Oil and Gas Operations](#).
3. Department of the Interior, Bureau of Land Management. “Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development – The Gold Book”, 2007, [The Gold Book | Bureau of Land Management \(blm.gov\)](#).
4. Herrcik, Jeffrey E, et al. “Monitoring Manual for Grassland, Shrubland and Savanna Ecosystems.” Monitoring Manual, 2nd Edition, USDA - ARS Jornada Experimental Range, 2009, <https://aim.landscapetoolbox.org/wp-content/uploads/2015/08/Monitoring-Manual-Volume-II.pdf>.



Quantitative Vegetation Survey - Summary of Field Data

Client	Caerus Oil and Gas (10456)
Operator Location	G11SE
Reclamation Phase	Final Reclamation
API	05-045-09359
Latitude/Longitude	39.375972/-107.630991
Assessment Date	7/22/2022
Inspector Name	Alex Slorby

Based on the survey methodology, the desirable foliar cover (%) in each survey area is calculated by summing the total number of foliar occurrences (#), excluding noxious weeds and undesirable species, and dividing by the total possible foliar occurrences in the transects (100). For this location:

Reclaim Area Vegetation

Desirable Foliar Cover = 82%

$$(59 + 20 + 3) / 100 = 0.82$$

Reference Area Vegetation

Desirable Foliar Cover = 54%

$$(35 + 4 + 15) / 100 = 0.54$$

For the purposes of this assessment, the undesirable foliar cover (%) in each survey is calculated by summing the total number of undesirable* foliar occurrences (#), excluding noxious weeds, and dividing by the total possible foliar occurrences in the transects (100). For this location:

Undesirable Foliar Cover = 1%

$$1 / 100 = 0.01$$

Undesirable Foliar Cover = 16%

$$16 / 100 = 0.16$$

The percent of reference used to evaluate the reclamation area for compliance with COGCC Rule 1003.e(2) is calculated by dividing the foliar cover (%) in the reclaim area by the foliar cover (%) in the reference area. For this location:

Percent of Reference = 152%

$$82\% / 54\% = 152\%$$

Reclaim Area Vegetation

Cover Type	#	Overall Cover
Desirable Foliar Cover	82	41.0%
Grass	59	29.5%
Forb	20	10.0%
Shrub	3	1.5%
Desirable Basal Cover	34	17.0%
Grass	26	13.0%
Forb	7	3.5%
Shrub	1	0.5%
Undesirable Cover	1	0.5%
Foliar	1	0.5%
Basal	0	0.0%
Unvegetated	78	39.0%
Bare Ground	3	1.5%
Litter	75	37.5%
Rock	0	0.0%
Noxious Weeds Cover	5	2.5%
Foliar	3	1.5%
Basal	2	1.0%
Quality Assurance Total	200	100%

Reference Area Vegetation

Cover Type	#	Overall Cover
Desirable Foliar Cover	54	27.0%
Grass	35	17.5%
Forb	4	2.0%
Shrub	15	7.5%
Desirable Basal Cover	16	8.0%
Grass	12	6.0%
Forb	3	1.5%
Shrub	1	0.5%
Undesirable Cover	20	10.0%
Foliar	16	8.0%
Basal	4	2.0%
Unvegetated	94	47.0%
Bare Ground	6	3.0%
Litter	88	44.0%
Rock	0	0.0%
Noxious Weeds Cover	16	8.0%
Foliar	9	4.5%
Basal	7	3.5%
Quality Assurance Total	200	100%

* Identified as introduced and non-native to the lower 48 states by the USDA NRCS not considered beneficial for reclamation purposes.

Topographic Location Map

Caerus Oil and Gas LLC

G11SE

(ROWE-68S92W /11SWNE)

COGCC Location ID: 334398

API: 05-045-09359

Garfield County

SWNE Sec. 11 T8S-R92W



Topographic map sourced from 2020 Earth Point using data provided by United States Geological Survey

Map created by Alex Slorby on 08/10/2022.

G11SE

5 m

Reclamation Survey Site Diagram

Caerus Oil and Gas LLC

G11SE

(ROWE-68S92W /11SWNE)

COGCC Location ID: 334398







API: 05-045-09359

Garfield County

SWNE Sec. 11 T8S-R92W



Legend

-  Road Surface
-  Disturbance Area Boundary
-  Reclaimed Surface
-  Reclaim Transect
-  Reference Transect
-  Photo Point

Map created by Alex Slorby on 08/10/2022.



Photo Point A - Reclaim Transect 1



Photo Point A - Reclaim Transect 2





Photo Point C - Reference Transect 1



Photo Point D - Reference Transect 2



Client Caerus Oil and Gas (10456)
Operator Location G11SE
Assessment Date 7/22/2022
Inspector Name Alex Slorby

Reclamation Area Observation Summary

Plant species indicated by red text include all State-listed noxious weeds and undesirable species identified as introduced and non-native to the lower 48 states by the USDA NRCS not considered beneficial for reclamation purposes.

Observation Summary				
Life Cycle	Foliar Occurrence	Foliar Cover	Basal Occurrence	Basal Cover
Annual	4	4%	2	2%
Perennial	82	82%	34	34%
Unvegetated	14	14%	64	64%
Grand Total	100	100%	100	100%

Life Cycle	Species Code	Scientific Name	Common Name	Cover Type	Foliar Occurrence	Foliar Cover	Basal Occurrence	Basal Cover
Annual	B RTE	<i>Bromus tectorum</i>	Downy brome	Noxious List C	3	3%	2	2%
Annual	SIAL2	<i>Sisymbrium altissimum</i>	Tumblemustard	Undesirable	1	1%	0	0%
Perennial	AGCR	<i>Agropyron cristatum</i>	Crested wheatgrass	Grass	1	1%	0	0%
Perennial	BRIN2	<i>Bromus inermis</i>	Smooth brome	Grass	25	25%	10	10%
Perennial	ERNA10	<i>Ericameria nauseosa</i>	Rubber Rabbitbrush	Shrub	3	3%	1	1%
Perennial	MESA	<i>Medicago sativa</i>	Alfalfa	Forb	20	20%	7	7%
Perennial	PASM	<i>Pascopyrum smithii</i>	Western Wheatgrass	Grass	30	30%	16	16%
Perennial	PSSP6	<i>Pseudoroegneria spicata</i>	Bluebunch wheatgrass	Grass	3	3%	0	0%
Unvegetated	NA	NA	Litter	Unvegetated	13	13%	62	62%
Unvegetated	NA	NA	Bare Ground	Unvegetated	1	1%	2	2%

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Reference Area Observation Summary

Plant species indicated by red text include all State-listed noxious weeds and undesirable species identified as introduced and non-native to the lower 48 states by the USDA NRCS not considered beneficial for reclamation purposes.

Observation Summary				
Life Cycle	Foliar Occurrence	Foliar Cover	Basal Occurrence	Basal Cover
Annual	22	22%	9	9%
Perennial	57	57%	18	18%
Unvegetated	21	21%	73	73%
Grand Total	100	100%	100	100%

Life Cycle	Species Code	Scientific Name	Common Name	Cover Type	Foliar Occurrence	Foliar Cover	Basal Occurrence	Basal Cover
Annual	ALS18	<i>Alyssum simplex</i>	Alyssum	Undesirable	5	5%	4	4%
Annual	BRTE	<i>Bromus tectorum</i>	Downy brome	Noxious List C	4	4%	3	3%
Annual	CIVU	<i>Cirsium vulgare</i>	Bull thistle	Noxious List B	1	1%	1	1%
Annual	LASE	<i>Lactuca serriola</i>	Prickly Lettuce	Undesirable	1	1%	0	0%
Annual	SIAL2	<i>Sisymbrium altissimum</i>	Tumblemustard	Undesirable	10	10%	0	0%
Annual	TAOF	<i>Taraxacum officinale</i>	Dandelion	Forb	1	1%	1	1%
Perennial	BRIN2	<i>Bromus inermis</i>	Smooth brome	Grass	33	33%	12	12%
Perennial	COAR4	<i>Convolvulus arvensis</i>	Field bindweed	Noxious List C	4	4%	3	3%
Perennial	ERNA10	<i>Ericameria nauseosa</i>	Rubber Rabbitbrush	Shrub	15	15%	1	1%
Perennial	MESA	<i>Medicago sativa</i>	Alfalfa	Forb	3	3%	2	2%
Perennial	PSSP6	<i>Pseudoroegneria spicata</i>	Bluebunch wheatgrass	Grass	2	2%	0	0%
Unvegetated	NA	NA	Litter	Unvegetated	20	20%	68	68%
Unvegetated	NA	NA	Bare Ground	Unvegetated	1	1%	5	5%

Client Caerus Oil and Gas (10456)
 Operator Location Information G11SE
 Assessment Date 7/22/2022
 Inspector Name Alex Slorby
 Transect Length (ft.) 150

Reclaim Transect 1

Point #	Cover Type - Foliar	Species - Foliar	Cover Type - Basal	Species - Basal
1	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM
2	Grass	Bluebunch wheatgrass (Pseudoroegneria spicata) - PSSP6	Unvegetated	Litter
3	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM	Unvegetated	Litter
4	Unvegetated	NA	Unvegetated	Litter
5	Unvegetated	Bare Ground	Unvegetated	Bare Ground
6	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
7	Unvegetated	NA	Unvegetated	Litter
8	Grass	Smooth brome (Bromus inermis) - BRIN2	Grass	Smooth brome (Bromus inermis) - BRIN2
9	Unvegetated	NA	Unvegetated	Litter
10	Forb	Alfalfa (Medicago sativa) - MESA	Unvegetated	Litter
11	Grass	Mountain brome (Bromus marginatus) - BRMA4	Unvegetated	Litter
12	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
13	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM
14	Unvegetated	NA	Unvegetated	Litter
15	Unvegetated	NA	Unvegetated	Litter
16	Grass	Smooth brome (Bromus inermis) - BRIN2	Grass	Smooth brome (Bromus inermis) - BRIN2
17	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
18	Forb	Alfalfa (Medicago sativa) - MESA	Grass	Smooth brome (Bromus inermis) - BRIN2
19	Unvegetated	NA	Unvegetated	Litter
20	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
21	Unvegetated	NA	Unvegetated	Litter
22	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM	Unvegetated	Litter
23	Forb	Alfalfa (Medicago sativa) - MESA	Unvegetated	Litter
24	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM
25	Forb	Alfalfa (Medicago sativa) - MESA	Unvegetated	Litter
26	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM
27	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
28	Forb	Alfalfa (Medicago sativa) - MESA	Forb	Alfalfa (Medicago sativa) - MESA
29	Forb	Alfalfa (Medicago sativa) - MESA	Unvegetated	Litter
30	Forb	Alfalfa (Medicago sativa) - MESA	Unvegetated	Litter
31	Grass	Crested wheatgrass (Agropyron cristatum) - AGCR	Unvegetated	Litter
32	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM	Unvegetated	Litter
33	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM	Unvegetated	Litter
34	Grass	Bluebunch wheatgrass (Pseudoroegneria spicata) - PSSP6	Unvegetated	Litter
35	Unvegetated	NA	Unvegetated	Litter
36	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM
37	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM
38	Noxious List C	Downy brome (Bromus tectorum) - BRTE	Noxious List C	Downy brome (Bromus tectorum) - BRTE
39	Grass	Smooth brome (Bromus inermis) - BRIN2	Noxious List C	Downy brome (Bromus tectorum) - BRTE
40	Grass	Smooth brome (Bromus inermis) - BRIN2	Grass	Smooth brome (Bromus inermis) - BRIN2
41	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM
42	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM
43	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
44	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM
45	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM	Unvegetated	Litter
46	Grass	Smooth brome (Bromus inermis) - BRIN2	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM
47	Shrub	Rubber Rabbitbrush (Ericameria nauseosa) - ERNA10	Shrub	Rubber Rabbitbrush (Ericameria nauseosa) - ERNA10
48	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM	Unvegetated	Litter
49	Forb	Alfalfa (Medicago sativa) - MESA	Unvegetated	Litter
50	Forb	Alfalfa (Medicago sativa) - MESA	Forb	Alfalfa (Medicago sativa) - MESA

Client Caerus Oil and Gas (10456)
Operator Location Information G11SE
Assessment Date 7/22/2022
Inspector Name Alex Slorby
Transect Length (ft.) 150

Reclaim Transect 2

Point #	Cover Type - Foliar	Species - Foliar	Cover Type - Basal	Species - Basal
1	Forb	Alfalfa (Medicago sativa) - MESA	Forb	Alfalfa (Medicago sativa) - MESA
2	Grass	Bluebunch wheatgrass (Pseudoroegneria spicata) - PSSP6	Unvegetated	Bare Ground
3	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM	Unvegetated	Litter
4	Noxious List C	Downy brome (Bromus tectorum) - BRTE	Unvegetated	Litter
5	Forb	Alfalfa (Medicago sativa) - MESA	Unvegetated	Litter
6	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM
7	Grass	Smooth brome (Bromus inermis) - BRIN2	Grass	Smooth brome (Bromus inermis) - BRIN2
8	Shrub	Rubber Rabbitbrush (Ericameria nauseosa) - ERNA10	Grass	Smooth brome (Bromus inermis) - BRIN2
9	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM
10	Unvegetated	NA	Unvegetated	Litter
11	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM	Unvegetated	Litter
12	Forb	Alfalfa (Medicago sativa) - MESA	Unvegetated	Litter
13	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM
14	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM	Unvegetated	Litter
15	Forb	Alfalfa (Medicago sativa) - MESA	Unvegetated	Litter
16	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM	Unvegetated	Litter
17	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM	Unvegetated	Litter
18	Unvegetated	NA	Unvegetated	Litter
19	Unvegetated	NA	Unvegetated	Litter
20	Unvegetated	NA	Unvegetated	Litter
21	Forb	Alfalfa (Medicago sativa) - MESA	Forb	Alfalfa (Medicago sativa) - MESA
22	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
23	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
24	Forb	Alfalfa (Medicago sativa) - MESA	Unvegetated	Litter
25	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM
26	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
27	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
28	Forb	Alfalfa (Medicago sativa) - MESA	Forb	Alfalfa (Medicago sativa) - MESA
29	Forb	Alfalfa (Medicago sativa) - MESA	Unvegetated	Litter
30	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM	Unvegetated	Litter
31	Forb	Alfalfa (Medicago sativa) - MESA	Unvegetated	Litter
32	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM
33	Shrub	Rubber Rabbitbrush (Ericameria nauseosa) - ERNA10	Grass	Smooth brome (Bromus inermis) - BRIN2
34	Grass	Smooth brome (Bromus inermis) - BRIN2	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM
35	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
36	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM	Unvegetated	Litter
37	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
38	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM	Unvegetated	Litter
39	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
40	Grass	Smooth brome (Bromus inermis) - BRIN2	Grass	Smooth brome (Bromus inermis) - BRIN2
41	Forb	Alfalfa (Medicago sativa) - MESA	Forb	Alfalfa (Medicago sativa) - MESA
42	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM	Unvegetated	Litter
43	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
44	Forb	Alfalfa (Medicago sativa) - MESA	Forb	Alfalfa (Medicago sativa) - MESA
45	Unvegetated	NA	Unvegetated	Litter
46	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
47	Undesirable	Tumblemustard (Sisymbrium altissimum) - SIAL2	Grass	Smooth brome (Bromus inermis) - BRIN2
48	Noxious List C	Downy brome (Bromus tectorum) - BRTE	Unvegetated	Litter
49	Grass	Western Wheatgrass (Pascopyrum smithii) - PASM	Unvegetated	Litter
50	Grass	Smooth brome (Bromus inermis) - BRIN2	Grass	Smooth brome (Bromus inermis) - BRIN2

Client Caerus Oil and Gas (10456)
 Operator Location Information G11SE
 Assessment Date 7/22/2022
 Inspector Name Alex Slorby
 Transect Length (ft.) 150

Reference Transect 1

Point #	Cover Type - Foliar	Species - Foliar	Cover Type - Basal	Species - Basal
1	Grass	Smooth brome (Bromus inermis) - BRIN2	Grass	Smooth brome (Bromus inermis) - BRIN2
2	Shrub	Rubber Rabbitbrush (Ericameria nauseosa) - ERNA10	Unvegetated	Litter
3	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
4	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
5	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Bare Ground
6	Grass	Smooth brome (Bromus inermis) - BRIN2	Grass	Smooth brome (Bromus inermis) - BRIN2
7	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
8	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
9	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
10	Undesirable	Tumblemustard (Sisymbrium altissimum) - SIAL2	Unvegetated	Litter
11	Undesirable	Tumblemustard (Sisymbrium altissimum) - SIAL2	Unvegetated	Bare Ground
12	Noxious List C	Downy brome (Bromus tectorum) - BRTE	Unvegetated	Litter
13	Unvegetated	NA	Unvegetated	Bare Ground
14	Unvegetated	NA	Unvegetated	Litter
15	Noxious List C	Downy brome (Bromus tectorum) - BRTE	Noxious List C	Downy brome (Bromus tectorum) - BRTE
16	Shrub	Rubber Rabbitbrush (Ericameria nauseosa) - ERNA10	Unvegetated	Litter
17	Grass	Smooth brome (Bromus inermis) - BRIN2	Grass	Smooth brome (Bromus inermis) - BRIN2
18	Shrub	Rubber Rabbitbrush (Ericameria nauseosa) - ERNA10	Unvegetated	Litter
19	Undesirable	Tumblemustard (Sisymbrium altissimum) - SIAL2	Unvegetated	Bare Ground
20	Forb	Alfalfa (Medicago sativa) - MESA	Unvegetated	Litter
21	Unvegetated	NA	Unvegetated	Litter
22	Unvegetated	NA	Unvegetated	Litter
23	Undesirable	Tumblemustard (Sisymbrium altissimum) - SIAL2	Unvegetated	Litter
24	Grass	Smooth brome (Bromus inermis) - BRIN2	Grass	Smooth brome (Bromus inermis) - BRIN2
25	Unvegetated	NA	Unvegetated	Litter
26	Unvegetated	NA	Unvegetated	Litter
27	Undesirable	Tumblemustard (Sisymbrium altissimum) - SIAL2	Unvegetated	Litter
28	Unvegetated	NA	Unvegetated	Litter
29	Undesirable	Tumblemustard (Sisymbrium altissimum) - SIAL2	Unvegetated	Litter
30	Grass	Smooth brome (Bromus inermis) - BRIN2	Grass	Smooth brome (Bromus inermis) - BRIN2
31	Unvegetated	NA	Unvegetated	Litter
32	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
33	Unvegetated	NA	Unvegetated	Litter
34	Undesirable	Tumblemustard (Sisymbrium altissimum) - SIAL2	Unvegetated	Litter
35	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
36	Grass	Smooth brome (Bromus inermis) - BRIN2	Grass	Smooth brome (Bromus inermis) - BRIN2
37	Undesirable	Tumblemustard (Sisymbrium altissimum) - SIAL2	Unvegetated	Litter
38	Shrub	Rubber Rabbitbrush (Ericameria nauseosa) - ERNA10	Unvegetated	Litter
39	Undesirable	Tumblemustard (Sisymbrium altissimum) - SIAL2	Unvegetated	Litter
40	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
41	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
42	Shrub	Rubber Rabbitbrush (Ericameria nauseosa) - ERNA10	Unvegetated	Litter
43	Grass	Smooth brome (Bromus inermis) - BRIN2	Grass	Smooth brome (Bromus inermis) - BRIN2
44	Unvegetated	NA	Unvegetated	Litter
45	Undesirable	Prickly Lettuce (Lactuca serriola) - LASE	Unvegetated	Litter
46	Noxious List C	Downy brome (Bromus tectorum) - BRTE	Noxious List C	Downy brome (Bromus tectorum) - BRTE
47	Shrub	Rubber Rabbitbrush (Ericameria nauseosa) - ERNA10	Undesirable	Alyssum (Alyssum simplex) - ALS18
48	Shrub	Rubber Rabbitbrush (Ericameria nauseosa) - ERNA10	Noxious List C	Downy brome (Bromus tectorum) - BRTE
49	Undesirable	Tumblemustard (Sisymbrium altissimum) - SIAL2	Unvegetated	Litter
50	Shrub	Rubber Rabbitbrush (Ericameria nauseosa) - ERNA10	Unvegetated	Litter

Client Caerus Oil and Gas (10456)
Operator Location Information G115E
Assessment Date 7/22/2022
Inspector Name Alex Slorby
Transect Length (ft.) 150

Reference Transect 2

Point #	Cover Type - Foliar	Species - Foliar	Cover Type - Basal	Species - Basal
1	Grass	Smooth brome (Bromus inermis) - BRIN2	Grass	Smooth brome (Bromus inermis) - BRIN2
2	Unvegetated	NA	Unvegetated	Litter
3	Shrub	Rubber Rabbitbrush (Ericameria nauseosa) - ERNA10	Unvegetated	Litter
4	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
5	Grass	Smooth brome (Bromus inermis) - BRIN2	Grass	Smooth brome (Bromus inermis) - BRIN2
6	Noxious List C	Field bindweed (Convolvulus arvensis) - COAR4	Noxious List C	Field bindweed (Convolvulus arvensis) - COAR4
7	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
8	Noxious List C	Field bindweed (Convolvulus arvensis) - COAR4	Unvegetated	Litter
9	Noxious List C	Field bindweed (Convolvulus arvensis) - COAR4	Noxious List C	Field bindweed (Convolvulus arvensis) - COAR4
10	Noxious List C	Field bindweed (Convolvulus arvensis) - COAR4	Noxious List C	Field bindweed (Convolvulus arvensis) - COAR4
11	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
12	Forb	Alfalfa (Medicago sativa) - MESA	Forb	Alfalfa (Medicago sativa) - MESA
13	Grass	Bluebunch wheatgrass (Pseudoroegneria spicata) - PSSP6	Unvegetated	Litter
14	Noxious List C	Downy brome (Bromus tectorum) - BRTE	Unvegetated	Litter
15	Unvegetated	NA	Unvegetated	Litter
16	Grass	Smooth brome (Bromus inermis) - BRIN2	Grass	Smooth brome (Bromus inermis) - BRIN2
17	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Bare Ground
18	Unvegetated	NA	Unvegetated	Litter
19	Unvegetated	NA	Unvegetated	Litter
20	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
21	Grass	Bluebunch wheatgrass (Pseudoroegneria spicata) - PSSP6	Unvegetated	Litter
22	Unvegetated	NA	Unvegetated	Litter
23	Unvegetated	NA	Unvegetated	Litter
24	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
25	Unvegetated	NA	Unvegetated	Litter
26	Undesirable	Alyssum (Alyssum simplex) - ALSI8	Undesirable	Alyssum (Alyssum simplex) - ALSI8
27	Undesirable	Alyssum (Alyssum simplex) - ALSI8	Unvegetated	Litter
28	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
29	Unvegetated	NA	Unvegetated	Litter
30	Forb	Alfalfa (Medicago sativa) - MESA	Forb	Alfalfa (Medicago sativa) - MESA
31	Undesirable	Alyssum (Alyssum simplex) - ALSI8	Unvegetated	Litter
32	Noxious List B	Bull thistle (Cirsium vulgare) - CIVU	Noxious List B	Bull thistle (Cirsium vulgare) - CIVU
33	Shrub	Rubber Rabbitbrush (Ericameria nauseosa) - ERNA10	Undesirable	Alyssum (Alyssum simplex) - ALSI8
34	Shrub	Rubber Rabbitbrush (Ericameria nauseosa) - ERNA10	Unvegetated	Litter
35	Unvegetated	NA	Unvegetated	Litter
36	Grass	Smooth brome (Bromus inermis) - BRIN2	Grass	Smooth brome (Bromus inermis) - BRIN2
37	Unvegetated	NA	Unvegetated	Litter
38	Grass	Smooth brome (Bromus inermis) - BRIN2	Grass	Smooth brome (Bromus inermis) - BRIN2
39	Shrub	Rubber Rabbitbrush (Ericameria nauseosa) - ERNA10	Unvegetated	Litter
40	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
41	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
42	Shrub	Rubber Rabbitbrush (Ericameria nauseosa) - ERNA10	Unvegetated	Litter
43	Undesirable	Alyssum (Alyssum simplex) - ALSI8	Unvegetated	Litter
44	Shrub	Rubber Rabbitbrush (Ericameria nauseosa) - ERNA10	Shrub	Rubber Rabbitbrush (Ericameria nauseosa) - ERNA10
45	Undesirable	Alyssum (Alyssum simplex) - ALSI8	Undesirable	Alyssum (Alyssum simplex) - ALSI8
46	Shrub	Rubber Rabbitbrush (Ericameria nauseosa) - ERNA10	Unvegetated	Litter
47	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter
48	Unvegetated	NA	Unvegetated	Litter
49	Forb	Dandelion (Taraxacum officinale) - TAOF	Forb	Dandelion (Taraxacum officinale) - TAOF
50	Grass	Smooth brome (Bromus inermis) - BRIN2	Unvegetated	Litter