

Twentymile Coal, LLC

29515 Routt County Road 27 Oak Creek, CO 80467 970.879.3800

February 13, 2020

Ms. Tabetha Lynch Environmental Protection Specialist Division of Reclamation, Mining, and Safety 1313 Sherman Street - Room 215 Denver, Colorado 80203 (970) 866-3567 X8147

Re: Twentymile Coal, LLC (TC) - Foidel Creek Mine (C-82-056), 2019 Annual Reclamation Report

Dear Ms. Lynch:

Enclosed is the 2019 Annual Reclamation Report (ARR) for the Foidel Creek Mine. During 2019, several activities were permitted and initiated under Technical and Minor Revision approvals (summarized as follows), with most of the permitted activities occurring within the existing Permit Area and within existing disturbance areas, with changes in acreage noted below:

- TR18-92, Panel Extension (submitted 10/04/18, approved 02/08/19, affected area increased by 35 acres, and permit acreage increased by 40 acres)
- MR19-312, Additional Booster Pump and Enclosure (submitted 03/19/19, approved 03/22/19, no new disturbance)
- TR19-93, Wash Plant Additional Thickener Tank Design Modification (submitted 03/05/19, approved 04/17/19, no new disturbance)
- MR19-313, Thickener Pipeline Route Modification (submitted 04/19/19, approved 05/08/19, no new disturbance)
- TR16-84, 6MN Passive Water Treatment System (Wetlands) (submitted 7/22/16 approved 6/18/19, increase in disturbed area by 19 acres)
- MR19-314, Passive Treatment Inlet Pipeline Route Modification (submitted 07/08/19, approved 08/05/19, the disturbed area will increase by 1.40 acres)
- MR19-315, Passive Treatment Inlet Pipeline Route MOD 2 (submitted 10/03/19, approved 10/18/19, the disturbed area will increase by 1.40 acres)

Changes in permitted, disturbed, and affected area acreages during 2019 included a total increase of 21.8 acres for permitted disturbed acreage resulting in a total of 775.0 acres disturbed. Additional permitted area during 2019 resulted in an increase of 40 acres totaling 22,647 acres along with an increase of 35 acres for affected acreage surface (TR18-92). Please refer to the latest maps and text associated with the revisions referenced above, for specific details.

Key mining and related activities occurring during 2019 included:

- > Ongoing development and longwall mining operations in the Wolf Creek Reserve (Panel 8East)
- > Ongoing refuse placement activities.
- > Completed secondary Thickener Underflow Pipeline to current SWMD boreholes.
- New Thickener Tank and associated structures and systems were completed.
- > Sedimentation Ponds B and D were dredged to remove accumulated sediment as part of our ongoing drainage maintenance program
- > Completed additional field sampling for multi-year drainage basin level water quality and aquatic life study to support water discharge permit renewals and future discharge permitting
- > 6MN passive treatment system was full constructed and plants were planted.
- > New Screening build continues to be erected for stocker coal screening and truck loading.

Under our ongoing noxious weed control program, TC contracted with Osborne Industries to complete noxious weed control spraying for both active and bond-released areas (approximately 100 acres), consistent with the approved Noxious Weed Control Plan (MR06-206). Areas sprayed for weeds are shown on theon the most recent map 29, Reclamation Map, and/or listed as follows (spot or area spraying, as appropriate):

- Substations electrical installations, propane storage areas, and surface conveyors (bare-ground spraying to address combustion hazard per MSHA)
- Both sides (approximately 30 to 40 feet) of facility roads
- Soil stockpiles
- Facility pad areas (e.g. 9RT, 10RT, 5MN, 6MN, 13LT, Fish Creek Borehole, 16LT, 18LT)
- Select areas on CRDA and associated soil/cover material stockpiles
- Pond embankments and perimeters

The spring spraying program (June) focused on spot or area spraying for control of white-top (hoary cress), houndstongue, knapweed, and mullein using Escort, Liberate, and 2,4D. The fall spraying program (August - September) focused on control of thistle, any residual weeds, and toadflax, which had previously been found on the site only as small, isolated occurrences, using 2,4D in combination with Tordon. Spraying was also conducted during the fall, within and around electrical installations, conveyors, and propane storage areas using Esplanade, Buccaneer, and Piper to eliminate all vegetation, as a fire-safety and MSHA consideration. Also part of the fall weed spraying is application towards all thistle varieties. As part of our ongoing land management programs, TC conducted managed livestock grazing activities (approximately 2,000 steers) on the bond-released areas.

There are several areas on the attached "2019 Annual Reclamation Report Disturbed Acreage" summary that are identified as "Reclaimed". These areas have previously been regraded and stabilized with vegetation, however, TC has not pursued bond release for these areas due to the potential for redisturbance in conjunction with required access and site maintenance activities.

Permit approvals during 2019 resulted in a decrease (-\$11,771.73, TR19-93), and subsequent minor increases (MR's below) in the calculated reclamation liability and required surety coverage, summarized as follows:

• TR16-84, 6MN Passive Water Treatment System (Wetlands) (\$87,272)

- TR19-93, Wash Plant Additional Thickener Tank Design Modification (-\$11,771.73)
- TR18-92, Panel Extension (\$0)

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- MR19-312, Additional Booster Pump and Enclosure (+\$7,927)
- MR19-313, Thickener Pipeline Route Modification (\$0)
- MR19-314, Passive Treatment Inlet Pipeline Route Modification (+\$3,229)
- MR19-315, Passive Treatment Inlet Pipeline Route MOD 2 (+3,041)

Attached is the standard form (CDRMS) Annual Reclamation Report for 2019 and an updated disturbance summary. If you have any questions or require further information, please feel free to contact me directly at (970) 870-2718.

Sincerely,

For Twentymile Coal, LLC

Miranda Kawcak

Manager Environmental

Attachments

cc: Ed Brady/TC

### Colorado Division of Reclamation, Mining and Safety

**■ Twentymille Coal, LLC** 

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Annual Reclamation Report for Calendar Year – 2019

CO-82-056 Twenty

Foidel Creek

**Totals** 

Permittee Mine Name Permit Number 29515 RCR27 Oal Creek, Colorado 90467 Address This report, required by Rule 2.04.13, is due by February 15 of each year, or other date, as agreed upon by the Division. It should include text, discussion, and maps, at a minimum, in addition to any other reclamation monitoring data as required by the approved permit. The location of the acreage reported under each land status category and year of seeding (if applicable) should be clearly identified on a map included with the report. This Calendar Year Last Year's Cumulative Total Cumulative Total Land Category (from last year's ARR) Acres Added (+) Acres Subtracted (-) Acreage in Active N/A N/A N/A N/A Mining Areas<sup>1</sup> This Calendar Year Last Year's Cumulative Total Cumulative Total Land Category (from last year's ARR) Acres Added (+) Acres Subtracted (-) 775.0 Acres Disturbed<sup>2</sup> 753.2 21.80 0 Acres Backfilled and 169.2 169.2 0 0 Graded Acres Topsoiled 169.2 0 169.2 Last Year's Cumulative This Calendar Year Acreage in Long-term Cumulative Total Total Facilities<sup>3</sup> Acres Added (+) Acres Subtracted (-) (from last year's ARR) Non-Permanent 605.8 584 21.8 0 **Facilities** Permanent Facilities 0 0 0 0 (permitted)

Acres Seeded	Last Year's Cumulative Total	This Cal	endar Year		Cumulative Total	
(permanent)	(from last year's ARR)	Acres Added (+)	Acres Subtracted (-)		Cunidianve Total	
9 Years and Less	138.0	0	0	=	138.0	
10 Years and Greater	31.2	0	0		31.2	
Totals	169.2				169.2	

	Last Year's Cumulative Total This Calendar Yea		endar Year		0 1 1 7 7 1
Bond Release	(from last year's ARR)	Acres Added (+)	Acres Subtracted (-)		Cumulative Total
Phase I Released	14.3	0	0	*	14.3
Phase II Released	0	0	0	-	0
Phase III Released	0	0	0		0

<sup>&</sup>lt;sup>1</sup>Includes pits, topsoil stripped areas in advance of pits, and spoil not backfilled and graded

584

<sup>&</sup>lt;sup>2</sup>Surface Mine Acres Disturbed = B&G + Long-Term Facilities + Active Mining Areas; Underground Mine Acres Disturbed = B&G + Long-Term Facilities; Separately-permitted Loadouts = B&G + Long-Term Facilities

<sup>&</sup>lt;sup>3</sup>Includes haul, access and light-use roads, temporary dams and impoundments; permanent dams and impoundments; diversion and collector ditches, water and air monitoring sites; topsoil stockpiles; overburden stockpiles; repair, storage and construction areas; office area, repair shops, and parking; coal stockpiles, loading, and processing areas; railroads; coal conveyors; refuse piles and coal mine waste impoundments; head-of-hollow fills; valley fills; ventilation shafts and entryways; and non-coal waste disposal area (garbage dumps and coal combustion by-products disposal areas).

### Twentymile Coal, LLC - Foidel Creek Mine

<u>AREA</u>	DIST. ACREAGE	<u>STATUS</u>
SANDSTONE SUBSTATION	1.00	ACTIVE
FISH CREEK BOREHOLE (W/ROAD)	3.50	ACTIVE
SURFACE FACILITIES	326.90	ACTIVE
COAL REFUSE PILE	69.70	ACTIVE
DRILL PAD 95M001	0.30	ACTIVE
VENT SHAFT EMD	2.80	RECLAIMED
EMD DEWATERING BOREHOLE (W/ROAD)	3.50	ACTIVE
ESCAPE SHAFT	2.50	ACTIVE
ROCK DUST TANK	0.10	ACTIVE
LIESKE SUBSTATION	0.20	ACTIVE
FACILITIES ALTERATION (TRUDY'S CORNER)	1.50	ACTIVE
NMD POWER BOREHOLE	1.80	ACTIVE
NMD VENT SHAFT W/ ACCESS RD	4.40	ACTIVE
FISH CREEK BOREHOLE WATERLINE	1.20	ACTIVE
COMPRESSOR LINE BOREHOLE	0.10	ACTIVE
18 RIGHT INTAKE SHAFT	18.80	RECLAIMED
BATHOUSE ADDITION	0.70	ACTIVE
YVEA CAPACITOR INSTALLATION	0.20	ACTIVE
BATCH-WEIGH LOADOUT ROAD	<u>0.50</u>	ACTIVE
SUBTOTAL - Active (Thru 2004)	439.70	
FISH CREEK TIPPLE	13.50	RECLAIMED
FISH CREEK BOREHOLE WATER HANDLING	0.10	RECLAIMED
SOUTHWEST BOREHOLE	1.20	RECLAIMED
DRILL PADS (BARRICADE CHAMBER)	0.50	RECLAIMED
TRENCH AND BERM	27.30	RECLAIMED
MINE WATER RETURN LINE	7.00	RECLAIMED
8 & 7 RIGHT CROSS-PANEL ENTRY BACKFILL	2.50	RECLAIMED
TROUT CREEK SANDSTONE TEST HOLES	1.20	RECLAIMED
SUBTOTAL - Reclaimed (Thru 2004)	53.30	
2004 TOTAL:	493.00	
6MN INTAKE SHAFT FACILITY (TR05-48)	13.50	ACTIVE
6MN UTILITY BOREHOLES (MR05-198) 0.92 ac dist. within 6MN area	0.00	ACTIVE
COAL FINES CLEAN-UP (MR06-211)	1.50	RECLAIMED
6MN POND MODIFICATIONS (TR06-57)	0.20	ACTIVE
6MN WATER TRANSFER PIPELINE (MR07-224)	7.10	RECLAIMED
THICKENER UNDERFLOW PIPELINE (TR07-60)	0.60	ACTIVE
6MN MINE WATER STORAGE RSVR. (TR07-61)	12.30	ACTIVE
10RT DEWATERING BOREHOLE 2 (MR08-228)	0.20	ACTIVE
MINE DEWATERING MODIFICATIONS (MR08-230)	4.20	ACTIVE
REFUSE PILE CLAY STAGING AREA (MR08-233)	5.00	ACTIVE
18LT SHAFT INSTALLATION (TR09-66)	5.60	ACTIVE
18LT SHAFT GEOTECH INVEST. (MR09-235) 0.10 ac dist. within 18LT Area	0.00	RECLAIMED
18RT/6MN SHAFT HEATERS & MISC (MR09-236)	0.30 80.00	ACTIVE ACTIVE/RECL.
COAL REFUSE DISPOSAL AREA EXP. (TR09-67)	5.80	ACTIVE/RECE.
6RT THICKENER UNDERFLOW (TR09-69) 19RT DEWATERING INSTALLATION (TR10-73)	7.50	ACTIVE
18LT MINE WATER PIPELINE (TR'S 09-70/10-74)	7.50	RECLAIMED
DITCH G-6 EXTENSION (TR10-76)	0.30	RECLAIMED
15LT VENT SHAFT (TR11-77)	2.30	ACTIVE
16LT UTILITY BOREHOLE (TR11-78, MR12-260)	13.60	ACTIVE
WMD EMERGENCY BOREHOLE (MR11-253)	1.70	ACTIVE

OVERLAND CONVEYOR GEOTECH (MR11-254)	0.10	ACTIVE
WMD EXPLOR. PROGRAMS (MR'S 11-256/12-261)	2.00	ACTIVE
6MN RESERVOIR RELIEF DRAIN (MR11-259)	0.20	ACTIVE
WCR DRILLING PROGRAM (MR's 12-267/269/271, 14-275/277/278/280/281)	47.70	RECLAIMED
7RT/2MN/SWMD TUF BOREHOLES (TR16-86, MR's13-270/273) 3.3 ac. Permitted/not disturbed	0.60	ACTIVE/PEND.
5MN UTILITY BOREHOLE& WATER PIPELINE (MR14-283/285, 15-288)	8.60	ACTIVE
10-EAST EMERGENCY AIR BOREHOLE (MR15-289) 1.5 ac. Permitted/not disturbed	0.00	PENDING
13-LEFT OUTBY UTILITY BOREHOLE (MR15-291/292)	3.50	ACTIVE
6MN PASSIVE TREATMENT SYTEM GEOTECH (MR16-295)	0.10	RECLAIMED
9E UTILITY BOREHOLE (MR16-296)	3.70	ACTIVE
FISH CREEK BOREHOLE COAL FINES CLEANUP (TR18-90, MR16-297)	0.30	RECLAIMED
SWMD\WMD TUF BOREHOLES AND PIPELINES (TR17-88)	23.80	ACTIVE
9-EAST ADDITIONAL UTILITY BOREHOLES (MR17-304)	0.40	ACTIVE
STOKER COAL SCREENING TEST (MR17-305)	0.00	ACTIVE
SANDSTONE SUB THICKENER UNDERFLOW BOREHOLE AND PIPELINE (MR17-305)	0.00	ACTIVE
WASH PLANT ADDITIONAL THICKENER TANK DESIGN MODIFICAITION (TR19-92)	0.00	ACTIVE
ADDITONAL BOOSTER PUMP AND ENCLOSURE (MR19-312)	0.00	ACTIVE
THICKNER PIPELINE ROUTE MODIFICATION (MR19-313)	0.00	ACTIVE
PASSIVE TREATMENT INLET PIPELINE ROUTE MODIFICATION (MR19-314)	1.40	ACTIVE
PASSIVE TREATMENT INLET PIPELINE ROUTE MODIFICATION 2 (MR19-315)	1.40	ACTIVE
6MN PASSIVE WATER TREATMENT SYSTEM (TR16-84)	19.00	ACTIVE
2005-2019 Additions	282.00	

775.00

#### **CUMULATIVE TOTAL 2019:**

Note: The acreage figures presented are based on information contained in previous Annual Reclamation Reports, as-built construction information, and Minor and Technical Revision approval information.

#1365



Date: 6-11-19	<u> </u>
Job Name: 20 Mile	
Address:	

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Equipment working pr		Location Co	ntact info:	Maria	a Kawa	L	
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Type of Site Treated:	Rangeland	Industrial Ag Crop		ROW	Turf		
Chemical Name	EPA Reg		Аррие	d Amount	/ Acre	Total	Product Applied
Esplanool	432151			707			17.5
Polers	724-53	1		Guoz			60
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Gallons per Truck Number: 5	acre: I $\omega$	Dilution use	ed: water		Number of	Applicator	
Gallons per	acre: I $\omega$	Dilution use	ed: water		Number of	Applicator	s: Z
Gallons per Truck Number: 5	acre: I $\omega$	Dilution use	ed: water		Number of	Applicator	s: Z
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Gallons per Truck Number: 5	acre: I $\omega$	Dilution use	ed: water		Number of	Applicator	s: Z
Gallons per Truck Number: 5	acre: I $\omega$	Dilution use	ed: water		Number of	Applicator	s: Z
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Gallons per Truck Number: 5	ATV/U	Dilution use	ed: water		Number of lable Hours	Applicator	s: Z

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Date: 6/12/19	2 of 2
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Chemical Name	EPA F	Reg #	Applied Amount / Acre		Total Product Applied	
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LIBERATE	NA		3202/1006		32 02	
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Chemical Name	EPA Reg	#	Applied	Amount	/ Acre	Total	Product Applied
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Date: 6/12/19	of
Job Name: 70	Mile
Address:	

Equipment working pr	operly	<b>Location Contact</b>	info:			
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Proper PPE av	ailable 🗸					
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## OSBORN Industries LLC

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Type of Site Treated:	Rangeland	Indu	etrial	A - (	· · · · · ·	2011	
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Liberate	NA		32 02 100G			9	LOZ
			100				
Method of Application	ATV	(UTV)	(Truck)	Tractor	Backpack	Horse	Other
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Qualified Supervisor:	Will I had				Date <i>6-1</i> .	3-19	
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Applicator:	M W	Carri	or ,		Date 13	June	19
	in Carro						•

Commercial applicators are licensed by the Colorado Department of Agriculture

OSDOTTI Industries LLC

Date: 7-2-19	of
ob Name: 20 Mile	
Address:	

Equipment working pro Hoses service		Location Co	ontact info:	Milanda	Kawcal	_	
Pumps service		Notes:					
Filters service		Trotes.					
Tanks secured pro							
Proper PPE ava							
Temperature	Wind		Direction		Condi	tions	Spraying Time
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Targeted Species	while top ,-	hroly must,	canala.	houndsby	gliv	<u> </u>	
Type of Site Treated:	Rangeland	d (Indu	strial	Ag (	rop	ROW	Turf
Chemical Name	All the second s	Reg #	Applie	ed Amount	/ Acre	Total	Product Applied
Escort	432 -15	49		162			302
tordon	62719.	6		1602	esta ant	_	48
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Method of Application	AT	V UTV	Truck	Tractor	Backpack	Horse	Other
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		Joad	5				=22 hrs
		111			70 = 20	: 1900	>
		t -		1	7.5 X)156	702.3	<u> </u>
				(	60 X.1	16	=
					10 ×1.44/	WHI	
				9			32
	1.41	0 /		1			
Qualified Supervisor:	Kathallall	Kudl			Date 7	7. 2-19	
Applicator!	Rura	Andrus			Date 4	17/19	

Date: 9/17/19	1	_of_	
Job Name: ZO N	ile	-	
Address:			

The state of the s	hard make an order	NAME OF TAXABLE PARTY.	and the second	l			
	/						
Equipment working pr		Location Co	ntact info:	AAHAAA	da Kari	cale	
Hoses servi	-			TOURNE	DID CONSO		
Pumps servi		Notes:					
Filters servi	/_	_					1
Tanks secured pr		-					
Proper PPE av							
Temperature	Wind		Direction		Condi		Spraying Time
50-40	>10		NA		Clean		950-100
Targeted Species	Bare ay	Dino					
	$\sim$						
			2				
Type of Site Treated:	Rangeland	(Indu	strial	Ag C	rop	ROW	Turf
Chemical Name	EPA Re	g#	Applied	Amount	/ Acre	Total	Product Applied
esplanade	432-	1516		707			3.5 oz
Borcenever	55467-9			64/1 <i>0</i> 09			3202
Placer	59639 - P3		1007		502		
1100			3		7		
real Due	NA		7	SO			3,500
CC09 021	NA		64	1/100	a		3200
Method of Application	ATV	UTV	(Truck	Tractor	Backpack	Horse	Other
	acre: 100	Dilution us	ed: Wat	er	Number of	Applicator	s: 7
Truck Number:		UTV number:			lable Hours		130 =4.5
				terrir m		0,700	(9)
10ads-1	12 wad sp	noya					
						*	g
				7			
Qualified Supervisor:					Date	. / /	
Applicator	Suear	nover	25		Date 9	117/19	<del>)</del>

# OSDORN ANGER INDUSTRIES LLC

Date:	120	07-1	1		_of_	$\perp$	
Job Na	me:	<u>20 '</u>	M	ile			
Addre:	ss:						

Equipment working p		Location Co	ontact info:			
Hoses serv						
Pumps serv		Notes:				
Filters serv		. /				
Tanks secured p						
Proper PPE av	1	ļ		·		
Temperature	Wind		Direction	Condi		Spraying Time
60°	SIOMPH			cloude		
Targeted Species	Bull th	istie -	Canada thist	1e - mi	ISK-HI	SHP-
	hounds	tonge				
		75.75				
Type of Site Treated:	Rangeland	(Indu	strial Ag (	Crop	ROW	Turf
Chemical Name	EPA Re	_	Applied Amount		Total I	Product Applied
Tordon	62719-1		6402/A			2802
Say Stiv	NA	· ·	320201	/00 <i>C</i>		2402
00 3112	/ \ / \		0202011	10005		- 102
		<u>-</u>	<u> </u>	-	<del>.</del>	
	<u> </u>				<u> </u>	
Method of Application		UIV	Truck Tractor	Backpack	Horse	Other
Gallons pe	er acre: 40 G / A	Dilution us	ed: Water	Number of	Applicator	s: 2_
Truck Number: 赴	3 ATV/L	JTV number:	#4 - GRN TENK BI	llable Hours	9.00-1	30 = 4.5 hRA
utv	,		Sprau			19hR
		114114	Spine			
Tordon 641			1			<del> </del>
SunWet 121	02 -	<u> </u>	loads			<del> </del>
			11			
	••					
Qualified Supervisor	r: Lough	<u> </u>		Date 9-1	7-19	
Applicato	r: RIVALA	COLARA	el l	Date D	Sept1	9
7 10 10 10 10 10 10 10 10 10 10 10 10 10		^	$\wedge$	222 110	- 70,1	<del>)</del>
	pois 10	aewit	P			
Comm	rercial applicator	s are licens	èd by the Colorado D	Pepartment	of Agricu	lture

Date: 9-18-19 1 of 1

Job Name: 20 mile

Address:

						·········	
Equipment working pr		Location Co	ntact info:	Mahada	a Kawaik		
Hoses servi				lo ( a con (co	( Peubles		
Pumps servi Filters servi	/_	Notes:					
Tanks secured pr							
Proper PPE av							
Temperature	Wind		Direction		Cond	itions	Spraying Time
50-80	710		NA		Clea	<u> </u>	900-445
Targeted Species	Burearou						
	5			5	= 220	W/60	3000
Type of Site Treated:	Rangeland	Indu	strial	Ag C	rop	ROW	Turf
Chemical Name	EPA Reg	#	Applie	d Amount	/ Acre	Total	Product Applied
Bucceneer	55467-			64/100		,	600z
esplanade	432-19	516_	707		据17.502		
P!per	59639-	193	Process 1	5001		25or.	
(				. / -			
Red Dre	NA			707			17.500
Crop oil	NA			64/10X	)	16	Opt
Method of Application	ATV	UTV	Truck	Tractor	Backpack	Horse	Other
Gallons per	acre: 100	Dilution us	ed: Wat	ev	Number of	Applicator	s: Z
Truck Number:	CU/VTA	ΓV number:	C	- Bil	lable Hours	730-5	00 = 9,5hx to
1.00d3-					7870		(= 19 hrs
٧		25 245 25 761					
4.5				-			
			a. dir	<del></del>			
		The same	* **				
	4						· · · · · · · · · · · · · · · · · · ·
- 444 1-	1111111	9			5	1510	
Qualified Supervisor:	ANT MALLETING Y	-1-	- ch			-18-19	<u> </u>

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Date: of Job Name: Address: **Equipment working properly** Location Contact info: Miranda Ma Kawak Hoses serviceable Pumps serviceable Notes: Filters serviceable Tanks secured properly Proper PPE available Temperature Wind Direction Conditions **Spraying Time** 50-80 NA Clear 43**6**-210 **Targeted Species** lle(canada musik Rangeland Type of Site Treated: Industrial Ag Crop ROW Turf **Chemical Name** EPA Reg# Applied Amount / Acre **Total Product Applied** Tordon 480 Brewer 9B Method of Application **ATV** UTV Truck Tractor Backpack Horse Other Gallons per acre: # 16 Number of Applicators: Z Dilution used: Water ATV/UTV number: ROMEN / Grin Billable Hours & Truck Number: 5 1602 **Qualified Supervisor:** Date

Date

Applicator:

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Date: 9-23-19

Job Name: 20 mile

of 2.

Targeted Species BG  Type of Site Treated: Rangeland Industrial Ag Crop ROW  Chemical Name EPA Reg # Applied Amount / Acre Total Production	lawcak
Hoses serviceable Pumps serviceable Filters serviceable Tanks secured properly Proper PPE available  Temperature Wind Direction Conditions S S Targeted Species  Targeted Species  Temperature Rangeland Chemical Name EPA Reg # Applied Amount / Acre Esplande Figure Figur	Lawcak
Hoses serviceable Pumps serviceable Pilters serviceable Tanks secured properly Proper PPE available  Temperature Wind Direction Conditions S S Targeted Species  Targeted Species  Temperature  Proper of Site Treated:  Rangeland Chemical Name EPA Reg # Applied Amount / Acre Esplande U32-1561 Toz Diper SCI63C1-19 3 Noz Direction Conditions S S S S S S S S S Targeted Species  Targeted Species  Targeted Species  Targeted Species  Total Produ Toz Total Produ T	Lewcak
Hoses serviceable Pumps serviceable Filters serviceable Tanks secured properly Proper PPE available  Temperature Wind Direction Conditions S S Targeted Species  Targeted Species  Targeted Species  Temperature  Wind Direction Conditions S S Targeted Species  Target	Lawcak
Pumps serviceable Filters serviceable Tanks secured properly Proper PPE available  Temperature Wind Direction Conditions S S Clear 83  Targeted Species  Targeted Species  Temperature  Proper of Site Treated: Chemical Name EPA Reg # Applied Amount / Acre Esplande Figer SCIGGI-19 3 Chemical F	
Tanks secured properly Proper PPE available  Temperature Wind Direction Conditions S  SO -70 - Clear 83  Targeted Species BG  The of Site Treated: Rangeland Industrial Ag Crop ROW  Chemical Name EPA Reg # Applied Amount / Acre Total Production  Esplande 432-1561 702 1.40  Pipe 501630-193 1002 202  Buccaner 55467-9 6462 128  Coppoil - 6462/100gall 12.8	
Proper PPE available  Temperature  Wind  Direction  Conditions  S  S  Targeted Species  Rangeland  Chemical Name  EPA Reg #  Applied Amount / Acre  Total Produ  Esphande  432-1561  762  1.40  Pipe  50/030-143  Nov  Bucuner  55467-9  6402/100gull  12.8  ethod of Application  ATV  UTV  Truck  Tractor Backpack Horse	
Temperature Wind Direction Conditions S  50° -70 - Clear 83  Targeted Species B6  Pe of Site Treated: Rangeland Industrial Ag Crop ROW  Chemical Name EPA Reg # Applied Amount / Acre Total Product Resplande 432-1561 702 1.40  Piper 50/0301-19 3 1002 202  Bucquier 55407-9 6402 12.8  Crop oil - 6402 12.8  ethod of Application ATV UTV Truck Tractor Backpack Horse	
Targeted Species BG  Total Product Backpack Horse  Total Product Backpack Horse  Total Product Backpack Horse	
Targeted Species BG  pe of Site Treated: Rangeland Industrial Ag Crop ROW  Chemical Name EPA Reg # Applied Amount / Acre Total Product Agree 432-1561 702 1.40  Pipe 50/030-193 1002 20  Bucanee 55407-9 6402 12.8  Chop oil - 6402/100gall 12.8	Conditions Spraying Time
De of Site Treated: Rangeland Industrial Ag Crop ROW  Chemical Name EPA Reg # Applied Amount / Acre Total Production  Esplanade 432-1561 762 1.49  Pipe 59/634-193 1002 2-2  Bucaner 55467-9 6462 128  Chop oil - 6402/100gall 12.8  thod of Application ATV UTV Truck Tractor Backpack Horse	Clear 830-10 an
Chemical Name  EPA Reg #  Applied Amount / Acre  Total Product  Esplanate  432-1561  702  1:40  Pipe  59(639-193)  Bucquee  55467-9  Georgil  Total Product  1:40	
Chemical Name  EPA Reg #  Applied Amount / Acre  Total Product  Esplanate  432-1561  702  1:40  Pipe  59(639-193)  Bucquee  55467-9  Georgil  Total Product  1:40	
Chemical Name  EPA Reg #  Applied Amount / Acre  Total Product  Esplanate  482-1561  702  1.40  Pipe  501630-193  Nov  Bucquee  55467-9  6462  Chop oil  ATV UTV  Truck Tractor Backpack Horse	
Esplanae 482-1561 762 1.40  Pipe 50/0301-193 1002 200  Buccanee 55467-9 6462 12.8  Chop oil - 6402/100gall 12.8  ethod of Application ATV UTV Truck Tractor Backpack Horse	pp ROW Turf
Pipe         59639-193         1002         2           Buccanee         55467-9         6462         12.8           Chop ail         -         6462/100gall         12.8           thod of Application         ATV         UTV         Tractor Backpack         Horse	Acre Total Product Applied
Crop oil - Guz/Kogull 12.8  thod of Application ATV UTV Truck Tractor Backpack Horse	1,402
The structure Structor of Guerner Structor Backpack Horse	200
thod of Application ATV UTV Truck Tractor Backpack Horse	
thod of Application ATV UTV Truck Tractor Backpack Horse	12.8
Gallons per acre: 100 Dilution used: water Number of Applicators: Z	Backpack Horse Other
	lumber of Applicators: Z
Truck Number: 5 ATV/UTV number: Billable Hours	ble Hours
	800-1230-4.5 XZ=
2 agri sprogra	

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Date: 9-23-19

Address:

Job Name: 20 mile

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	43 fl 16					1002318-038-0	
				I			
Equipment working pro		Location Co	ntact info:	Nivand	la Kawa	cdc	
Pumps servi Filters servi Tanks secured pr	ceable V	Notes:	J Section 1				
Proper PPE av	ailable						
Temperature	Wind		Direction		Condi		Spraying Time
50-78	ادے ا	, ·			Clear		Van-12pm
Targeted Species	thistle-canady	music, be	ill , mull	ren,			
						· · · · · · · · · · · · · · · · · · ·	
Type of Site Treated:	Rangeland	√ndu:	strial	Ag C	rop	ROW	Turf
Chemical Name	EPA Reg			ed Amount /			Product Applied
Torlon	62719			402			320 .
7 7 194							
Bruss 90	-		37	3202/100ga1			<b>9</b> 26 ·
				. 5			
Method of Application	ATV	(VIV)	Truck	Tractor	Backpack	Horse	Other
Gallons per		Dilution use			Number of	0.400	
Truck Number: 5	ATV/U	TV number:	ww# gnee	nterpor Bill	lable Hours	800 · 🕷	
40 gal land	2		100			sec	1st pg
Tordon: 16	D 6~						10
Breuer: 1							
looks: 1				SS.	E 11- 12-3	2000-07	
	10.11	' /					
Qualified Supervisor:	Kostak III	1/1			Date	9-23-19	E1
Applicator/	MANUE	2/2			Date 9	-72-10	7
4,1111197	74 0 44	-120)				<u> </u>	<u> </u>

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## Osborn Industries LLC

Date: 9	12519	of_	
Job Nam	e: 44 -	20 mile	
Address:			-
	- 5		

					15		
Equipment working pr		Location Co	ontact info:				
Hoses servi			Miranda				
Pumps servi		Notes:					
Filters servi	/_/						
Tanks secured pr							
Proper PPE av							
Temperature	Wind		Direction	Conditions		Spraying Time	
40-75	>10	11	NA	Lec	\r	900 320	
Targeted Species	mullen.	Hound	stounge, t	histig	2		
	-						
Type of Site Treated:	Rangeland	Middle	Ag C	rop	ROW	Turf	
Chemical Name	EPA Reg #		Applied Amount / Acre		Total Product Applied		
Tordon	62719-6		6402		9(10)07		
						to SV	
Krewer 90	Brewergo NA		32/ma		6507		
		(2)					
Method of Application	ATV	(UTV)	Truck Tractor	Backpack	Horse	Other	
Gallons per	acre: 40				Applicators		
Truck Number: 5	. –		Bayloper 1/ Gir N Bill			-330	
Boom s		xds -	HM.			7 x2=14	
Tordon-160	or J				·		
<b>17</b> 05 1	Bor	·	······································		<del></del>		
7,44-10							
		·			-		
	11/1/11						
	Hell I Alles	U	<del></del>	Date <i>9-26</i>	-KG		
	mu pzinania fi	0.0		0/	do		
Applicator:	UN - 400	ers		Date 1/2	5/5		
	Vyany 71/11	your		9/12	5/19		

Commercial applicators are licensed by the Colorado Department of Agriculture

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## Osborn Industries LLC

						-			
Equipment working po Hoses servi			Location C	ontact info:	Militan	da Kenva	k		
Pumps serviceable Filters serviceable		/	Notes: Sulatating						
Tanks secured properly Proper PPE available									
Temperature	1	Wind		Direction		Cond	itions	Spraying Time	
(00-165°	۷	who		SW Clea					
Targeted Species	BG								
Type of Site Treated:	Rar	ngeland	Indu	strial	Ag	Crop	ROW	Turf	
Chemical Name		EPA Reg	#	Applied Amount / Acre		/ Acre	Total Product Applied		
Espanade	H32-1516		70z		8.4				
Pipe	59639-193		1002		1202				
Brown 90				6402/1cags		÷77			
					' 0				
Mothed of Application		A = 1 (	1.1-1.1						
Method of Application		ATV	UTV	Truck	Tractor	Backpack	Horse	Other	
Gallons per	_		Dilution us			Number of	Applicators	:2	
Truck Number: 🎉 🖔	-	THE RESERVE OF THE PERSON NAMED IN	ΓV number:		Bil	lable Hours	930-330	s = 645 = (124ms	
40gal	+ 80	gal = 1	Zogal						
		0	J				-20		
					200				
5 - 5 - 5 1 - 1 1 1 1 1 1 1 1 1 1 1 1 1		0.052							
- Qualified Supervisor:	Ville	A-11/11	11 t			Date (v. i. i	0		
TO TO THE PARTY OF				Date / <i>U-1-19</i>					
Applicator: The provers				Date 10-1-19					