



OGMCOAL DNR <ogmcoal@utah.gov>

Emery Mine Inspection Report #4081

Priscilla Burton <priscillaburton@utah.gov>

Thu, Feb 5, 2015 at 12:19 PM

To: OGMCOAL DNR <ogmcoal@utah.gov>, Russell Jensen <russeljensen@consolenergy.com>

Cc: John Gefferth <jgefferth@cecinc.com>, Joe Helfrich <joe Helfrich@utah.gov>

Hello Russel,

I have attached a report documenting the reclamation activity conducted this January. I have also attached the seed mix and certified straw documentation. I'm sure you will agree that the timing of the seeding couldn't have been better, since we received a light snowfall immediately after seeding and have had two light rainfalls since. This inspection report notes a date of March 1 for fencing the topsoil and subsoil stockpiles near pond #6 and for soil sampling as described on p. 4a of Chap III of the reclamation study. That date allows 60 days from the time of the inspection. Please keep me apprised of your progress on the fencing and sampling. If possible, I would like to be present during the sampling.

Thank you.

Priscilla Burton, MS, CPSSc
Environmental Scientist III
Utah Division of Oil, Gas & Mining
Price Field Office
phone: [435-613-3733](tel:435-613-3733)

3 attachments



Insp Rpt 4081 01122015.pdf

2937K



seed tag Jan 12 2015 Emery Reclamation Study areas.pdf

1488K



Weed Free Certificate.pdf

744K



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Inspection Report

Permit Number:	C0150015
Inspection Type:	COURTESY
Inspection Date:	Wednesday, January 07, 2015
Start Date/Time:	1/7/2015
End Date/Time:	1/13/2015
Last Inspection:	Wednesday, December 17, 2014

Representatives Present During the Inspection:	
OGM	Priscilla Burton
Company	Russel Jensen

Inspector: Priscilla Burton,

Weather: sun 45F changing to overcast and snow flurries

InspectionID Report Number: 4081

Accepted by: JHELFRIC

2/2/2015

Permittee: **CONSOL MINING COMPANY, LLC**
 Operator: **CONSOL MINING COMPANY, LLC**
 Site: **EMERY DEEP MINE**
 Address: **1000 CONSOL ENERGY DRIVE, CANONSBURG PA 15317**
 County: **EMERY**
 Permit Type: **PERMANENT COAL PROGRAM**
 Permit Status: **INACTIVE**

Current Acreages

442.50	Total Permitted
248.50	Total Disturbed
	Phase I
	Phase II
	Phase III

Mineral Ownership

- Federal
- State
- County
- Fee
- Other

Types of Operations

- Underground
- Surface
- Loadout
- Processing
- Reprocessing

Report summary and status for pending enforcement actions, permit conditions, Division Orders, and amendments:

I observed the progress of the reclamation work on study areas at the osmosis pond #4, the subsoil/topsoil stockpile area near pond #6, and the long subsoil stockpile in the vicinity of pond #1. Soils were graded. The sites were seeded. Certified straw was incorporated. Then it snowed an inch. Work remaining is to build a fence around the subsoil/topsoil stockpiles and sample soils as described on page 4, Chap III of the MRP.

Inspector's Signature:

Priscilla Burton,
Inspector ID Number: 37

Date Tuesday, January 20, 2015



REVIEW OF PERMIT, PERFORMANCE STANDARDS PERMIT CONDITION REQUIREMENTS

1. Substantiate the elements on this inspection by checking the appropriate performance standard.
 - a. For COMPLETE inspections provide narrative justification for any elements not fully inspected unless element is not appropriate to the site, in which case check Not Applicable.
 - b. For PARTIAL inspections check only the elements evaluated.
2. Document any noncompliance situation by reference the NOV issued at the appropriate performance standard listed below.
3. Reference any narratives written in conjunction with this inspection at the appropriate performance standard listed below.
4. Provide a brief status report for all pending enforcement actions, permit conditions, Divison Orders, and amendments.

	Evaluated	Not Applicable	Comment	Enforcement
1. Permits, Change, Transfer, Renewal, Sale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Signs and Markers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Topsoil	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.a Hydrologic Balance: Diversions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.b Hydrologic Balance: Sediment Ponds and Impoundments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.c Hydrologic Balance: Other Sediment Control Measures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.d Hydrologic Balance: Water Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.e Hydrologic Balance: Effluent Limitations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Explosives	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Disposal of Excess Spoil, Fills, Benches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Coal Mine Waste, Refuse Piles, Impoundments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Noncoal Waste	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Protection of Fish, Wildlife and Related Environmental Issues	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Slides and Other Damage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Contemporaneous Reclamation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Backfilling And Grading	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Revegetation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Subsidence Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Cessation of Operations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.a Roads: Construction, Maintenance, Surfacing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.b Roads: Drainage Controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Other Transportation Facilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Support Facilities, Utility Installations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19. AVS Check	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Air Quality Permit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Bonding and Insurance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22. Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1. Permits, Change, Transfer, Renewal, Sale

This work was completed in accordance with the commitment stated on page 4, Chap III of the MRP, with field changes as follows:

Long Berm/Pond #1 vicinity. Two segments of the subsoil berm (vicinity of Pond #1) each 50 ft. in length were measured out. The first was graded to blend with the contour to create a flat area 50 ft x 45 ft. (2,250 sq. ft.). In the second segment, a 50 ft length of berm surface 12 ft. wide was roughened on the berm's top (600 sq. ft.). The berm otherwise remained untreated. Six and 2/3 bales were spread out over the total 0.065 acre area, and approximately 3/4 of a 14.74 lb bag of seed (9.34 lbs PLS) was scattered over the area. This rate of straw application correlates to approximately 2 tons/acre straw (assuming 40 lb straw bales). The rate of seeding translates to approximately 100 lbs PLS/ac. Because this site was inaccessible to the farm disc implement, the tracks of the trackhoe were used to incorporate the straw into the soil and create seed/soil contact. This action compressed the surface four inches down to two inches. It is hoped that the compaction will be relieved by the action of freeze/thaw.

At the subsoil/topsoil stockpiles/Pond #6 area. The subsoil and topsoil piles were graded with the D8 dozer. Fifty-eight bales of straw were scattered. The site was seeded and the whole was disced by a tractor pulling a discer. Fifty eight bales corresponds to 1.16 tons (based upon a 40 lb bale). One fifty pound bag of seed (31.68 lbs PLS) were hand broadcast. The area was too muddy to pace off, so the ton/acre application of straw and the pounds per acre seed will be evaluated at a later date.

Reverse Osmosis Pond#4 berm. Tamarix growing in the bottom of the pond were upended by the dozer and buried in the fill of the berm. These tamarisks appeared dead, according to those present at the time. The surface was mixed to a depth of 18 inches with pocking by a track hoe. Then flattened again with grading by the D9 dozer at my request. Approximately 50 bales of straw (1 ton of straw) was applied to the surface. The site was seeded and disced with the tractor pulling a discer. One fifty pound bag of seed (31.68 lbs PLS) were hand broadcast. The area was too muddy to pace off, so the ton/acre application of straw and the pounds per acre seed will be evaluated at a later date.

3. Topsoil

Nielson Construction was the contractor. Using a Cat D8 dozer, the Pond #6 topsoil/subsoil site was graded to diminish the pile height and side slope distance. Piles now are approximately 2 to 3 ft. high, with minimal side slope. Berms (also of subsoil) were reconstructed around the pile. The berms were seeded but not mulched.

In the next 60 days (by March 1), the topsoil storage area must be fenced as described in Chap III, p. 4a.

In the next 60 days (by March 1), soil sampling must be completed as described for each of these recently reclaimed study areas (see Chap III, p. 4a).

11. Contemporaneous Reclamation

Certified weed free straw tag and certified seed tags are attached to this inspection report and were sent to the Incoming file on 1/20/2015.

Technical Inspection Report #4081
January 8 and 12, 2015
Attachment A (8 pages)

Pond #4 Location



Pocks photographed on January 7th were graded out.



Pond #4 location graded, mulched seeded. Work completed January 12. Photo taken January 13, 2015. (In addition to the light snow that blanketed the area immediately after seeding, there were two more light rainstorms hit the area on January 27 and January 31.)

Pond #6 topsoil and subsoil stockpile location



Pond #6 Topsoil stockpile before treatment



Pond #6 smaller topsoil stockpile before treatment

Pond #6 topsoil and subsoil stockpile location



January 8. pond #6 subsoil stockpile before treatment



January 8. Grading out the topsoil/subsoil stockpiles and berms.



January 12. Applying mulch to graded subsoil/topsoil pile at pond #6



January 13, 2015. Pond #6 topsoil/subsoil stockpile graded, mulched, seeded, disced.



A tractor and disc was used to incorporate the mulch into the soil before broadcasting seed by hand.



Pond #1 Subsoil Berm



Pond #1 subsoil before treatment



January 8, 2015. After grading two treatment areas.



Seeding graded and mulched area.



Seed.



January 8. Track hoe compacts surface after mulching and seeding.



soil surface and seed after pass of track hoe to ensure good soil contact.

mail to Judd

UTAH DEPARTMENT OF AGRICULTURE & FOOD
DIVISION OF PLANT INDUSTRY
350 NORTH REDWOOD ROAD
PO BOX 146500
SALT LAKE CITY, UT 84114-6500

3196

PHYTOSANITARY CERTIFICATE

HAY OR STRAW INSPECTION

This is to certify that the hay or straw described below has been inspected according to appropriate procedures by a duly authorized inspector of the State of Utah and found to be:

FREE FROM: NOXIOUS WEEDS REGIONAL NOXIOUS WEEDS

The hay or straw described below does not meet noxious weed certification standards for Utah.
See remarks.

DATE INSPECTED 7/ 28-29/ 2014 FIELD LOCATION Elberta Church Farm

APPLICANT Judd Harward FIELD NAME Many

ADDRESS 1988 W Center St Springville, UT 84663 PHONE NO. 801-489-9412

PRODUCT Grain Straw NUMBER OF BALES 3000 (3x4) 2500 sm

GROWN BY ~~LDS Church Farm~~ LDS Church Farm BALE TYPE* Sm & 3x4

ADDRESS Elberta COUNTY Utah

NAME AND ADDRESS OF CONSIGNEE _____

TRAILER OR TRUCK LICENSE NUMBER _____ STATE _____

CERTIFICATE IS VALID FOR 1 2 3 4 5 6 7 8 9 10 LOADS (Contract Loads only)

REMARKS OR ADDITIONAL DECLARATIONS Leave outside 2 feet on north & South of basson fields

Tags \$ _____

Mileage \$ 15.00

Fee \$ 115.00

Total \$ 130.00

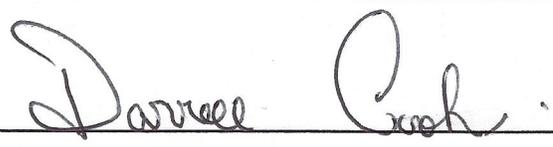
Receipt \$ _____

From: _____ To: _____

Hay Tag Numbers

7/28-29/2014

Date Issued



Signature of Inspector

No liability shall attach to the Utah Department of Agriculture & Food or to any officer or representative of the Department with respect to this certificate.

- * Bale Type: SB Small Rectangular Bale
- LB Large Rectangular Bale
- LR Large Round Bales
- SR Small Round Bales

From: Granite Seed - Lehi
 1397 W 2100 N
 Lehi, UT 84043

1-1-13

Mix Name: Consol Mine

1-28241

Mix # 148159

Consol Mine

% Pure	Common Name	Variety	G + D or H	Origin
14.53	SALTBUSH, SHADSCALE	VNS	60 -TZ	UT
14.29	MAT SALTBUSH	VNS	61 -TZ	UT
13.76	CASTLE VALLEY SALTBUSH	VNS	38 -TZ	UT
11.62	SALTBUSH, FOURWING	VNS	15 + 60 = 75	UT
10.25	WINTERFAT	VNS	85 -TZ	WY
9.37	SUNFLOWER, ANNUAL	VNS	3 + 90 = 93	UT
3.79	WESTERN WHEATGRASS	Arriba	92 -TZ	WA
3.63	SULFUR BUCKWHEAT	VNS	72 -TZ	UT
3.59	JAMES' GALLETIA	Viva	97 + 0 = 97	TX
2.84	INDIAN RICEGRASS	Rimrock	92 -TZ	WA
1.03	GOOSEBERRYLEAF GLOBEMALLOW	VNS	85 -TZ	UT
0.59	WILD RYE, RUSSIAN	Bozoi sky	49 + 39 = 88	MT
0.59	DESERT BLUEBELLS	VNS	89 -TZ	MEX
0.28	ALKALI SACATON	VNS	10 + 85 = 95	NM
0.18	SAND DROPSEED	VNS	97 -TZ	CO
0.07	Other Crop	Date Tested	26-AUG-13	
9.57	Inert Matter	% Hard Seed	0.00	
0.02	Weed Seed	Noxious Weed	salsola kali	

Net Weight: 31.88 Lbs. PLS 50.00 Lbs. Bulk

NOTICE TO BUYER LIMITATIONS OF WARRANTIES AND REMEDIES

Crop yield and quality are dependent upon many factors beyond the control of the labeled seller and NO WARRANTY is made for crop yield and quality. The labeled seller warrants that all seed sold has been labeled as required under applicable state and federal seed law and that the seed conforms to the label description, within recognized tolerances. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE LABEL.

No claim shall be asserted against the labeled seller unless Buyer reports to the labeled seller within a reasonable period after discovery (not to exceed thirty days), any condition that might lead to a complaint. BUYER'S EXCLUSIVE REMEDY FOR ANY CLAIM OR LOSS RESULTING FROM BREACH OF WARRANTY, BREACH OF CONTRACT OR NEGLIGENCE (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES) SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE.

By acceptance of the seed, Buyer agrees the terms and conditions stated above are a benefit to the bargain and constitute the entire agreement between Buyer and the labeled seller. Buyer shall return the original unopened seed package to the labeled seller within twenty days of receipt for a refund of the purchase price if not accepted under these terms.

NOTICE: REQUIRED ARBITRATION / CONCILIATION / MEDIATION

The seed laws of several states including Arkansas, California, Colorado, Florida, Georgia, Idaho, Illinois, Indiana, Minnesota, Mississippi, Montana, North Dakota, South Carolina (Section 46-21-260), South Dakota, Texas and Washington require arbitration, conciliation or mediation of disputes involving alleged defective seed before certain legal actions may be maintained against a seller. North Carolina offers an alternative to court action that allows claims to be investigated and heard before the Special Seed Board. A complaint (sworn for AR, CO, FL, IL, IN, MN, MS, MT, NC, SC, TX, WA; signed only, CA, GA, ID, ND, SD) must be filed with the Department of Agriculture or Seed Commissioner (IN) or State Plant Board (AR) or Commissioner of Agriculture (HC) within such time to permit an inspection of seed, crops or plants (by an Arbitration Committee - AR, ID, MS, SC). In NC, failure to follow this procedure will limit the amount of damages recoverable. Certified copy of complaint must be sent by registered mail to the labeled seller as provided in individual state law. Information about these requirements may be obtained from the state Department of Agriculture.

Ship To
 Nielson Construction Co
 801-749-2494
 823 North Loop Road
 Huntington, UT 84628



Granite Seed - Lehi
1697 W 2100 N
Lehi, UT 84043

1-28241

Date Shipped: 19-DEC-14

Sold To:
Nielson Construction Co.
P.O. Box 620
Huntington, UT 84528

Project Name: Consol Mine
Mix Name: Consol Mine
Seed Mix Number: 148159

Letter of Certification

This memo is written to certify that this seed mix is true to label and has been duly tested by a fully accredited seed testing laboratory using rules sanctioned by the Association of Official Seed Analysts. The specifications of the seed used in the mix are as follows:

Common Name	Variety	Origin	Lot #	Purity	G+D+H	%PLS
Alkali sacaton	VNS	NM	SPAI - 018333	97.24	10 + 85 = 95	92.38
Castle valley Saltbush	VNS	UT	ATCU - 28061	92.46	38	35.13
Desert bluebells	VNS	MEX	PHCR - INV110479	98.78	89	87.91
Indian ricegrass	Rimrock	WA	ORHY - 1401-1	98.63	92	90.74
James' galleta	Viva	TX	HIJA - 3301211A	83.61	97 + 0 = 97	81.10
Mat Saltbush	VNS	UT	ATCO2 - G0328	98.68	61	60.19
Saltbush, Fourwing	VNS	UT	ATCA - G0384	90.16	15 + 60 = 75	67.62
Saltbush, Shadscale	VNS	UT	ATCO - G1490	88.63	60	53.18
Sand dropseed	VNS	CO	SPCR - G1462	94.99	97	92.14
Sulfur buckwheat	VNS	UT	ERUM - G0789	95.51	72	68.77
Sunflower, Annual	VNS	UT	HEAN - G0753	97.31	3 + 90 = 93	90.50
Western wheatgrass	Arriba	WA	AGSM - 1464-1	94.17	92	86.64
Wildrye, Russian	Bozoisky	MT	ELJU - 13-0-1	97.84	49 + 39 = 88	86.10
Winterfat	VNS	WY	CELA - G1519	73.22	85	62.24
gooseberryleaf globemallow	VNS	UT	SPGR - G0924	98.12	85	83.40

Mix #	Number of Bags	Bulk Lbs. Per Bag
148159	2	50 full
148159	1	14.74 partial

Common Name	Lot #	Total Bulk Lbs.	Total PLS Lbs.	% Total Bulk Lbs.
Alkali sacaton	SPAI - 018333	0.32	0.30	0.28
Castle valley Saltbush	ATCU - 28061	17.08	6.00	14.88
Desert bluebells	PHCR - INV110479	0.68	0.60	0.59
Indian ricegrass	ORHY - 1401-1	3.31	3.00	2.88
James' galleta	HIJA - 3301211A	4.93	4.00	4.30
Mat Saltbush	ATCO2 - G0328	16.61	10.00	14.48
Saltbush, Fourwing	ATCA - G0384	14.79	10.00	12.89
Saltbush, Shadscale	ATCO - G1490	18.80	10.00	16.39
Sand dropseed	SPCR - G1462	0.22	0.20	0.19
Sulfur buckwheat	ERUM - G0789	4.36	3.00	3.80
Sunflower, Annual	HEAN - G0753	11.05	10.00	9.63
Western wheatgrass	AGSM - 1464-1	4.62	4.00	4.02
Wildrye, Russian	ELJU - 13-0-1	0.70	0.60	0.61
Winterfat	CELA - G1519	16.07	10.00	14.00
gooseberryleaf globemallow	SPGR - G0924	1.20	1.00	1.04

Common Name

Lot #

Total Bulk Lbs.

Total PLS Lbs.

% Total Bulk Lbs.

Grand Total Lbs:

114.74

72.70

If you have any questions, please call.

Sincerely,
Granite Seed - Lehi



CERTIFIED COPY OF SEED ANALYSIS

Kind and Variety: ACHNATHERUM HYMENOIDES - INDIAN RICEGRASS - RIMROCK

Lot Number:	ORHY - 1401-1	Origin:	WA	Laboratory Name:	
Pure Seed:	98.63 %	Germ % + Hard %	92 -P&TZ	WA Dept. of Agriculture	
Other Crop:	0.00 %	Total Viable %:	92.00		
Inert Matter:	1.03 %	Date Tested:	04-SEP-14		
Weed Seed:	0.34 %	Prohibited or Restricted	salsola kali		
Pure Live Seed:	90.74%	Noxious Weed:			

Kind and Variety: ATRIPLEX CANESCENS - SALTBUSH, FOURWING - VNS

Lot Number:	ATCA - G0384	Origin:	UT	Laboratory Names:	
Pure Seed:	90.16 %	Germ % + Hard %	15 + 60 = 75-G	New Mexico Dept. of Agri.	
Other Crop:	0.00 %	Total Viable %:	75.00	(Purity: New Mexico Dept. of Agri.)	
Inert Matter:	9.84 %	Date Tested:	09-SEP-14		
Weed Seed:	0.00 %	Prohibited or Restricted	None		
Pure Live Seed:	67.62%	Noxious Weed:			

Kind and Variety: ATRIPLEX CONFERTIFOLIA - SALTBUSH, SHADSCALE - VNS

Lot Number:	ATCO - G1490	Origin:	UT	Laboratory Name:	
Pure Seed:	88.63 %	Germ % + Hard %	60 -P&TZ	New Mexico Dept. of Agri.	
Other Crop:	0.00 %	Total Viable %:	60.00		
Inert Matter:	11.37 %	Date Tested:	29-JUL-14		
Weed Seed:	0.00 %	Prohibited or Restricted	None		
Pure Live Seed:	53.18%	Noxious Weed:			

Kind and Variety: ATRIPLEX CORRUGATA - MAT SALTBUSH - VNS

Lot Number:	ATCO2 - G0328	Origin:	UT	Laboratory Names:	
Pure Seed:	98.68 %	Germ % + Hard %	61 -TZ	New Mexico Dept. of Agri.	
Other Crop:	0.00 %	Total Viable %:	61.00	(Purity: Hulsey Seed Lab)	
Inert Matter:	1.32 %	Date Tested:	22-AUG-14		
Weed Seed:	0.00 %	Prohibited or Restricted	None		
Pure Live Seed:	60.19%	Noxious Weed:			

Kind and Variety: ATRIPLEX CUNEATA - CASTLE VALLEY SALTBUSH - VNS

Lot Number:	ATCU - 28061	Origin:	UT	Laboratory Names:	
Pure Seed:	92.46 %	Germ % + Hard %	38 -TZ	New Mexico Dept. of Agri.	
Other Crop:	0.00 %	Total Viable %:	38.00	(Purity: Idaho State Seed Lab)	
Inert Matter:	7.50 %	Date Tested:	01-JUL-14		
Weed Seed:	0.04 %	Prohibited or Restricted	None		
Pure Live Seed:	35.13%	Noxious Weed:			

Granite Seed - Lehi certifies that this analysis accurately represents the original copy of seed analysis and, where applicable, all testing has been conducted by a certified Seed Technologist using the sanctioned rules established by the Association of Official Seed Analysts.

Signature:  Date: 12/19/14

Kind and Variety: ERIOGONUM UMBELLATUM - SULFUR BUCKWHEAT - VNS

Lot Number:	ERUM - G0789	Origin:	UT	Laboratory Names:
Pure Seed:	95.51 %	Germ % + Hard %	72 -TZ	A V Seed Testing LLC
Other Crop:	0.84 %	Total Viable %:	72.00	(Purity: Wyoming Seed Analysis Lab)
Inert Matter:	3.56 %	Date Tested:	11-AUG-14	
Weed Seed:	0.09 %	Prohibited or Restricted	None	
Pure Live Seed:	68.77%	Noxious Weed:		

Kind and Variety: HELIANTHUS ANNUUS - SUNFLOWER, ANNUAL - VNS

Lot Number:	HEAN - G0753	Origin:	UT	Laboratory Names:
Pure Seed:	97.31 %	Germ % + Hard %	3 + 90 = 93-G	A V Seed Testing LLC
Other Crop:	0.24 %	Total Viable %:	93.00	(Purity: NST Labs)
Inert Matter:	2.45 %	Date Tested:	19-AUG-14	
Weed Seed:	0.00 %	Prohibited or Restricted	None	
Pure Live Seed:	90.50%	Noxious Weed:		

Kind and Variety: KRASCHEINNIKOVIA LANATA - WINTERFAT - VNS

Lot Number:	CELA - G1519	Origin:	WY	Laboratory Name:
Pure Seed:	73.22 %	Germ % + Hard %	85 -P&TZ	New Mexico Dept. of Agri.
Other Crop:	0.08 %	Total Viable %:	85.00	
Inert Matter:	26.70 %	Date Tested:	01-OCT-14	
Weed Seed:	0.00 %	Prohibited or Restricted	None	
Pure Live Seed:	62.24%	Noxious Weed:		

Kind and Variety: PASCOPYRUM SMITHII - WESTERN WHEATGRASS - ARRIBA

Lot Number:	AGSM - 1464-1	Origin:	WA	Laboratory Name:
Pure Seed:	94.17 %	Germ % + Hard %	92 -P&TZ	NST Labs
Other Crop:	0.00 %	Total Viable %:	92.00	
Inert Matter:	5.83 %	Date Tested:	14-AUG-14	
Weed Seed:	0.00 %	Prohibited or Restricted	None	
Pure Live Seed:	86.64%	Noxious Weed:		

Kind and Variety: PHACELIA CREMULATA - DESERT BLUEBELLS - VNS

Lot Number:	PHCR - INV110479	Origin:	MEX	Laboratory Names:
Pure Seed:	98.78 %	Germ % + Hard %	89 -TZ	NST Labs
Other Crop:	0.01 %	Total Viable %:	89.00	(Purity: Wyoming Seed Analysis Lab)
Inert Matter:	1.13 %	Date Tested:	23-JUL-14	
Weed Seed:	0.08 %	Prohibited or Restricted	None	
Pure Live Seed:	87.91%	Noxious Weed:		

Granite Seed - Lehi certifies that this analysis accurately represents the original copy of seed analysis and, where applicable, all testing has been conducted by a certified Seed Technologist using the sanctioned rules established by the Association of Official Seed Analysts.

Signature:  Date: 12/19/14

Kind and Variety: PLEURAPHIS JAMESII - JAMES' GALLETA - VIVA

Lot Number: HIJA - 3301211A	Origin: TX	Laboratory Names:
Pure Seed: 83.61 %	Germ % + Hard % 97 + 0 = 97-G	Hulsey Seed Lab
Other Crop: 0.01 %	Total Viable %: 97.00	(Purity: Hulsey Seed Lab)
Inert Matter: 16.36 %	Date Tested: 24-NOV-14	
Weed Seed: 0.02 %	Prohibited or Restricted	
Pure Live Seed: 81.10%	Noxious Weed: None	

Kind and Variety: PSATHYROSTACHYS JUNCEA - WILDRYE, RUSSIAN - BOZOISKY

Lot Number: ELJU - 13-0-1	Origin: MT	Laboratory Name:
Pure Seed: 97.84 %	Germ % + Hard % 49 + 39 = 88-P&G	Montana State Seed Lab
Other Crop: 0.00 %	Total Viable %: 88.00	
Inert Matter: 2.13 %	Date Tested: 26-AUG-13	
Weed Seed: 0.03 %	Prohibited or Restricted	
Pure Live Seed: 86.10%	Noxious Weed: None	

Kind and Variety: SPHAERALCEA GROSSULARIAEFOLIA - GOOSEBERRYLEAF GLOBEMALLOW - VNS

Lot Number: SPGR - G0924	Origin: UT	Laboratory Names:
Pure Seed: 98.12 %	Germ % + Hard % 85 -TZ	NST Labs
Other Crop: 0.15 %	Total Viable %: 85.00	(Purity: New Mexico Dept. of Agri.)
Inert Matter: 1.73 %	Date Tested: 22-SEP-14	
Weed Seed: 0.00 %	Prohibited or Restricted	
Pure Live Seed: 83.40%	Noxious Weed: None	

Kind and Variety: SPOROBOLUS AIROIDES - ALKALI SACATON - VNS

Lot Number: SPAI - 018333	Origin: NM	Laboratory Names:
Pure Seed: 97.24 %	Germ % + Hard % 10 + 85 = 95-G&TZ	NST Labs
Other Crop: 1.20 %	Total Viable %: 95.00	(Purity: NST Labs)
Inert Matter: 1.49 %	Date Tested: 25-JUN-14	
Weed Seed: 0.07 %	Prohibited or Restricted	
Pure Live Seed: 92.38%	Noxious Weed: None	

Kind and Variety: SPOROBOLUS CRYPTANDRUS - SAND DROPSEED - VNS

Lot Number: SPCR - G1462	Origin: CO	Laboratory Name:
Pure Seed: 94.99 %	Germ % + Hard % 97 -P&TZ	NST Labs
Other Crop: 0.26 %	Total Viable %: 97.00	
Inert Matter: 4.49 %	Date Tested: 12-FEB-14	
Weed Seed: 0.26 %	Prohibited or Restricted	
Pure Live Seed: 92.14%	Noxious Weed: None	

Granite Seed - Lehi certifies that this analysis accurately represents the original copy of seed analysis and, where applicable, all testing has been conducted by a certified Seed Technologist using the sanctioned rules established by the Association of Official Seed Analysts.

Signature:  Date: 12/19/14