

The Division of Reclamation, Mining and Safety has conducted an inspection of the mining operation noted below. This report documents observations concerning compliance with the terms of the permit and applicable rules and regulations of the Mined Land Reclamation Board.

| MINE NAME:                    | MINE/PROSPECTING ID#:           | MINERAL:            | COUNTY:           |
|-------------------------------|---------------------------------|---------------------|-------------------|
| Alamosa Pit No. 2             | M-1983-175                      | Sand and gravel     | Alamosa           |
| <b>INSPECTION TYPE:</b>       | INSPECTOR(S):                   | INSP. DATE:         | INSP. TIME:       |
| Surety-Related Inspection     | Wallace H. Erickson             | April 22, 2013      | 15:45             |
| OPERATOR:                     | <b>OPERATOR REPRESENTATIVE:</b> | TYPE OF OPERA       | TION:             |
| Southwest Ready-Mix Inc       | Roy Burtraw                     | 112c - Construction | Regular Operation |
|                               |                                 |                     |                   |
| <b>REASON FOR INSPECTION:</b> | BOND CALCULATION TYPE:          | <b>BOND AMOUNT:</b> |                   |
| Surety Related                | Complete Bond                   | \$888,995.00        |                   |
| DATE OF COMPLAINT:            | POST INSP. CONTACTS:            | JOINT INSP. AGE     | NCY:              |
| NA                            | None                            | None                |                   |
| WEATHER:                      | INSPECTOR'S SIGNATURE:          | SIGNATURE DAT       | E:                |
| Cloudy                        | Wallaad. SiL                    | May 7, 2013         |                   |

The following inspection topics were identified as having Problems or Possible Violations. OPERATORS SHOULD READ THE FOLLOWING PAGES CAREFULLY IN ORDER TO ASSURE COMPLIANCE WITH THE TERMS OF THE PERMIT AND APPLICABLE RULES AND REGULATIONS. If a Possible Violation is indicated, you will be notified under separate cover as to when the Mined Land Reclamation Board will consider possible enforcement action.

### **GENERAL INSPECTION TOPICS**

The following list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each

| (AR) RECORDS <u>N</u>                    | (FN) FINANCIAL WARRANTY Y                  | (RD) ROADS <u>Y</u>        |
|--|--|----------------------------|
| (HB) HYDROLOGIC BALANCE PB               | (BG) BACKFILL & GRADING <u>Y</u>           | (EX) EXPLOSIVES <u>NA</u>  |
| (PW) PROCESSING WASTE/TAILING <u>Y</u>   | (SF) PROCESSING FACILITIES $\underline{Y}$ | (TS) TOPSOIL <u>N</u>      |
| (MP) GENL MINE PLAN COMPLIANCE- <u>Y</u> | (FW) FISH & WILDLIFE <u>Y</u>              | (RV) REVEGETATION <u>N</u> |
| (SM) SIGNS AND MARKERS <u>Y</u>          | (SP) STORM WATER MGT PLAN <u>N</u>         | (SB) COMPLETE INSP Y       |
| (ES) OVERBURDEN/DEV. WASTE Y             | (SC) EROSION/SEDIMENTATION Y               | (RS) RECL PLAN/COMP Y      |
| (AT) ACID OR TOXIC MATERIALS <u>Y</u>    | (OD) OFF-SITE DAMAGE <u>Y</u>              |                            |

Y = Inspected and found in compliance / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

**INSPECTION TOPIC:** Hydrologic Balance

**PROBLEM:** The Division has no evidence as to whether the Operator has a valid well permit, substitute water supply plan, or approved water augmentation plan for the exposed ground water at the site. This is a problem related to Section 34-32.5-116(4)(h) C.R.S. and Construction Materials Rule 3.1.6(1)(a), governing injury to existing water rights.

**CORRECTIVE ACTIONS:** The Operator shall demonstrate compliance with the Division of Water Resources (DWR) requirements by providing copy of the approved well permit, approved substitute water supply plan, and/or approved augmentation plan, or show substantial evidence that the Operator is taking measures to bring the site into timely compliance with DWR requirements, <u>and</u> update the approved reclamation plan and demonstrate how the operation will comply with the requirements of Rule 3.1.6(1)(a) within 60 days, by July 7, 2013.

**CORRECTIVE ACTION DUE DATE: July 7, 2013** 

### **OBSERVATIONS**

This inspection occurred as part of the Division's review process of a request for reduction in surety (SR-02) for partial completion of reclamation. The 112c permit is approved to excavate and process construction materials within the 40-acre permit area. The Operator is the landowner. Affected lands will be reclaimed to support recreation post-mining land use. The Division holds \$888,995.00 financial warranty. This report is accompanied by three photos and an updated reclamation cost estimation totaling \$736,602.55.

Public access to the permit area is controlled by locked gate and a surrounding fence. The operation was active during the time of the inspection. Trucks were being loaded with processed materials and departing the site. Mining activities have consumed most of the mineable materials with minor reserves possibly remaining along the southernmost portions of the permit area. The operation remains active primarily as a processing yard for materials imported from other permitted sites and for reclamation activities.

Previous mining activities resulted in a series of ponds totaling approximately 14.55 acres of exposed ground water. An approximate 10-acre pond is described in the approved mining and reclamation plans. During the inspection the Operator indicated frustration regarding the procurement of the appropriate permits from the Division of Water Resources (DWR) for the exposed ground water. The Operator is currently backfilling the ponds with fines and reject materials from the processing plant, as well as inert materials imported from offsite areas. Progress towards backfilling the ponds appears slow; since 2011 approximately 3.55 acres of pond area has been eliminated, reducing the area of exposed ground water from 14.55 acres to 11 acres. In a correspondence dated February 21, 2011, the Operator proposed to import backfill materials and/or amend the permit to expand its boundaries and thereby secure an on-site borrow source for the backfill materials. However, the Division has not received the Amendment application and the Operator has not committed to a schedule or deadline whereby the operation will be compliant with DWR requirements. Pursuant to Construction Materials Rule 3.1.6(1)(a), the Operator is obligated to comply with DWR requirements.

Within 60 days of the signature date of this inspection report, by July 7, 2013, please submit an appropriate modification to the permit to update the approved reclamation plan and demonstrate how the operation will comply in a timely manner with the requirements of Rule 3.1.6(1)(a).

As illustrated by the enclosed photos the Operator has removed a substantial quantity of the partially dismantled equipment previously stockpiled within the permit area. Remnants of the equipment bone yard

include a stockpile of discarded tires, two partially dismantled truck beds, one partially dismantled water truck, one antique drag line, and various debris. Removal of mine related debris has reduced the reclamation liability at the site. The Operator has further reduced the reclamation liability by backfilling approximately 3.55 acres of pond area, effectively reducing the mandatory backfill area from 14.55 acres to 11 acres. Therefore, a reduction in the amount of financial warranty appears appropriate.

Based upon observations made during the inspection and recorded in this report the Division has reviewed the current cost of reclamation totaling \$736,602.55. Please find enclosed ten pages of summary and tasks sheets utilized by the Division to estimate the current cost of reclamation. Therefore, the Division recommends a bond reduction of \$152,392.45, but must retain \$736,602.55 to ensure completion of reclamation.

Under SR-02 the Operator requested \$183,391 reduction in financial warranty, from \$888,995 to \$705,604. As noted above, the Division recommends a reduction somewhat less (\$30,998.55) than requested. The discrepancies between the Divisions cost estimation and the cost estimation provided by the Operator appears greatest in reclamation tasks 1 and 2.

- 1. Under reclamation task 1, the Operator's cost estimation assumed all partially dismantled equipment and mine related debris had been removed. The Operator calculated \$0 for task 1. However, as noted in this inspection report and as itemized in task 1 of the Division's cost estimation, there remains a remnant of the equipment bond yard representing a current reclamation liability of \$28,805.20.
- 2. Under reclamation task 2, the Operator's cost estimation included an arithmetic error, which resulted in under-estimating material quantities and under-estimating the cost of procuring backfill materials from off-site sources.

| Fill materials required for 14.55 acres pond area   | 143,600 cy                   |
|---|------------------------------|
| Fill materials available on site                    | <u>-47,388 cy</u>            |
| Fill materials to be imported from off-site sources | 93,600 cy (arithmetic error) |

The Operator's cost for task 2 was \$318,433. The Division's cost for task 2 was \$330,187.50, representing a discrepancy of \$11,754.50. Had the Division incorporated the arithmetic error into its calculation there would have been no significant discrepancy for task 2.

Response to this inspection report should be addressed to Wally Erickson at the Division's office in Durango at 691 County Road 233, Suite A-2, Durango, CO 81301, phone (970) 247-5469.

### **Inspection Contact Address**

Roy Burtraw Southwest Ready Mix, Inc. 117 White Pine Drive Alamosa, CO 81101

Enclosure: 3 photos and an updated reclamation cost estimation totaling \$736,602.55

Ec w/enclosure: Roy Burtraw, <u>safety@southwayco.com</u> Russ Means, DRMS GFJO



and two partially dismantled Cat truck beds remained in the southwest corner of the permit area. Cattle tracks and dung were observed throughout the permit area.





# COST SUMMARY WORK

| Task descrip              | otion:                         | Summary of task  | s and costs |       |               | ****     |
|---------------------------|--------------------------------|------------------|-------------|-------|---------------|----------|
| Site: Alamosa             | Pit No. 2                      | Perr             | nit Action: | SR-02 | Permit/Job#:  | M1983175 |
| <u>PROJECT</u><br>Task #: | <u>T<b>IDENTIFI</b></u><br>000 | CATION<br>State: | Colorado    |       | Abbreviation: | None     |
| Date:<br>User:            | 5/6/2013<br>WHE                | County:          | Alamosa     |       | Filename:     | M175-000 |
| Ag                        | ency or organ                  | ization name: DR | MS          |       |               |          |

## TASK LIST (DIRECT COSTS)

| Task | Description   | Form<br>Used | Fleet<br>Size | Task<br>Hours | Cost         |
|------|---|--------------|---------------|---------------|--------------|
| 001  | Remove misc debris  | DEMOLISH     | 1             | 40.00         | \$28,805.20  |
| 002  | Purchase & deliver backfill material 73,375 cy @<br>\$4.50/cy | NA           | 10            | 1,087.00      | \$330,187.50 |
| 003  | Spread backfill material, backfill & grade ponds              | DOZER        | 1             | 212.52        | \$54,972.30  |
| 004  | Purchase & deliver topsoil material 22,267 cy @<br>\$4.50/cy  | NA           | 10            | 329.88        | \$100,201.50 |
| 005  | Redistribute topsoil 0.5 feet deep over 40 acres              | DOZER        | 1             | 49.92         | \$13,072.47  |
| 006  | Revegetate 40 acres affected lands                            | REVEGE       | 1             | 40.00         | \$58,806.80  |
| 007  | Haul reclamation equipment to and from job site               | MOBILIZE     | 1             | 3.00          | \$5,220.95   |
|      |   | SUBTO        | DTALS:        | 1762.32       | \$591,266.72 |

### **INDIRECT COSTS**

#### OVERHEAD AND PROFIT:

| Liability insurance: |             | Total =                            | \$11,943.59  |
|----------------------|-------------|------------------------------------|--------------|
| Performance bond:    | 1.05%       | Total =                            | \$6,208.30   |
| Job superintendent:  | 80.00 hours | Total =                            | \$5,232.80   |
| Profit:              | 10.00%      | Total =                            | \$59,126.67  |
|                      |             | TOTAL O & $P =$                    | \$82,511.36  |
|                      |             | CONTRACT AMOUNT (direct + O & P) = | \$673,778.08 |

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

| Financial warranty processing (legal/related costs): | \$500.00       | Total =            | \$500.00     |  |
|--|----------------|--------------------|--------------|--|
| Engineering work and/or contract/bid preparation:    | 4.25%          | Total =            | \$28,635.57  |  |
| Reclamation management and/or administration:        | 5.00%          |                    | \$33,688.90  |  |
| CONTINGENCY:   | 0.00           | Total =            | \$0.00       |  |
|  | TOTAL IN       | DIRECT COST =      | \$145,335.83 |  |
| TOTAL B  | OND AMOUNT (di | rect + indirect) = | \$736,602.55 |  |

# **DEMOLITION WORK**

| Т       | ask description:  | Remove mise | e debris       |       | <u> </u>      |                       |
|---------|-------------------|-------------|----------------|-------|---------------|-----------------------|
| Site:   | Alamosa Pit No. 2 | I           | Permit Action: | SR-02 | Permit/.      | Job#: <u>M1983175</u> |
| PROJEC  | T IDENTIFICATIO   | <u>N</u>    |                |       |               |                       |
| Task #: | 001               | State:      | Colorado       |       | Abbreviation: | None                  |
| Date:   | 5/6/2013          | County:     | Alamosa        |       | Filename:     | M175-001              |
| User:   | WHE               |             |                |       | un an         |                       |

Agency or organization name: <u>DRMS</u>

### **UNIT COSTS**

## Location adjustment: 91.60 %

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| Structure or Item<br>Description           | Dimensions            | Demolition Menu<br>Selection  | Quantity | Unit | Unit<br>Cost | <b>Total Cost</b> |
|--|-----------------------|---|----------|------|--------------|-------------------|
| Tires                                      | 60'L x 30'W x<br>3'H  | Loading and 2 mile haul,<br>no salvage - Hand<br>loading                | 200.00   | CY   | \$34.28      | \$6,856.00        |
| 2 dismantled Cat beds<br>+ 1 water trailer | 3(40'L x10'W<br>x8'H) | Loading and 5 mile haul,<br>salvage allowed - Steel<br>frame structures | 356.00   | CY   | \$9.48       | \$3,374.88        |
| Misc debris,<br>conveyors, booms, etc      | 80'L x 50'W x<br>3'H  | Loading and 5 mile haul,<br>salvage allowed - Steel<br>frame structures | 444.00   | CY   | \$9.48       | \$4,209.12        |
| Antique drag line                          | 12' x 12' x 12'       | Loading and 5 mile haul,<br>salvage allowed - Steel<br>frame structures | 64.00    | CY   | \$9.48       | \$606.72          |
| Dump fees                                  | (tires)               | Dump fees - Building construction materials.                            | 200.00   | CY   | \$82.00      | \$16,400.00       |

|                 |               |             | <b>Total Cost</b> |             |
|-----------------|---------------|-------------|-------------------|-------------|
|                 | Subtotal      |             | (adjusted for     |             |
| Job Hours: 0.00 | (unadjusted): | \$31,446.72 | location):        | \$28,805.20 |

## BULLDOZER WORK

| Task description:             | Spread backfill material, ba | ckfill & grade ponds         |               |          |
|-------------------------------|------------------------------|------------------------------|---------------|----------|
| ite: Alamosa Pit No. 2        | Permit Action:               | SR-02                        | Permit/Job#:  | M1983175 |
| PROJECT IDENTIFI              | CATION                       |                              |               |          |
| Task #: 003<br>Date: 5/6/2013 | State: Colorado              |                              | Abbreviation: | None     |
| User: WHE                     | County: <u>Alamosa</u>       |                              | Filename:     | M175-003 |
| Agency or organ               | nization name: DRMS          |                              |               |          |
| HOURLY EQUIPME                | NT COST                      |                              |               |          |
|                               | D9T - 9U                     |                              |               |          |
| Horsepower: 405               |                              |                              |               |          |
|                               | versal                       |                              |               |          |
|                               | ank ripper                   |                              |               |          |
|                               | er day                       |                              |               |          |
| Data Source: (CR              |                              |                              |               |          |
| Cost Breakdown:               |                              |                              |               |          |
|                               |                              | Utilization %                |               |          |
| Ownership Cost/Hour:          | \$78.33                      | NA                           |               |          |
| Operating Cost/Hour:          | \$142.13                     | 100                          |               |          |
| Ripper op. Cost/Hour:         | \$0.80                       | 10                           |               |          |
| Operator Cost/Hour:           | \$37.41                      | NA                           |               |          |
| operator costribut.           | 407. <b></b>                 | NA                           |               |          |
| Total unit Cost/Hour:         | \$258.67                     |                              |               |          |
| Total Fleet Cost/Hour:        | \$258.67                     |                              |               |          |
|                               |                              |                              |               |          |
| MATERIAL QUANT                | <u>ITHES</u>                 |                              |               |          |
| Initial Volume: 120,7         | 763                          |                              |               |          |
| Swell factor: 1.000           |                              |                              |               |          |
|                               | 763 LCY                      |                              |               |          |
|                               |                              |                              |               |          |
| Source of estimated volum     |                              | 500  cy - 22,837  cy = 120,7 | 763 cy        |          |
| Source of estimated swell     | factor: NA                   |                              |               |          |
| HOURLY PRODUCT                | ION                          |                              |               |          |
| Average push distance:        | 100 feet                     |                              |               |          |
| Unadjusted hourly produc      |                              |                              |               |          |
| Materials consistency desc    |                              | stocknile 1 1                |               |          |
| •                             | •                            |                              |               |          |
| Average push gradient:        | 0 %                          |                              |               |          |
| Average site altitude:        | 7,500 feet                   |                              |               |          |
|                               |                              |                              |               |          |
| Material weight:              | 2,900 lbs/LCY                |                              | _             |          |
| Weight description:           | Sand and gravel - Dry        |                              |               |          |
| Job Condition Correction      |                              | Source                       |               |          |
| Operator S                    | kill: 0.750                  | (AVG.)                       |               |          |
| Material consiste             |                              | (CAT HB)                     |               |          |
| Dozing met                    |                              | (GEN.)                       |               |          |
|                               |                              | 1                            |               |          |

| Visibili                   | ity: | 1.000       | (AVG.)        |
|----------------------------|------|-------------|---------------|
| Job efficien               | cy:  | 0.830       | (1 SHIFT/DAY) |
| Spoil pi                   | ile: | 0.800       | (FND-RF)      |
| Push gradie                | ent: | 1.000       | (CAT HB)      |
| Altitu                     | de:  | 1.000       | (CAT HB)      |
| Material Weig              | ht:  | 0.793       | (CAT HB)      |
| Blade ty                   | pe:  | 1.000       | (PAT)         |
| Net correction             | on:  | 0.4344      |               |
| Adjusted unit production:  | 56   | 8.24 LCY/hr |               |
| Adjusted fleet production: | 56   | 8.24 LCY/hr |               |

## JOB TIME AND COST

| Fleet size: | 1 Dozer(s)  |
|-------------|-------------|
| Unit cost:  | \$0.455/LCY |

| Total job time: | 212.52 Hours |
|-----------------|--------------|
| Total job cost: | \$54,972.30  |

### BULLDOZER WORK

| Task description:         | Redistribute top:          | soil 0.5 feet                                | deep over 40 acres                           |  |          |
|---------------------------|----------------------------|--|--|--|----------|
| te: Alamosa Pit No. 2     | Pen                        | mit Action:                                  | SR-02  | Permit/Job#:                           | M1983175 |
| PROJECT IDENTIH           | FICATION                   |  |  |  |          |
| Task #: 005               | State:                     | Colorado                                     |  | Abbreviation:                          | None     |
| Date: 5/6/2013            | County:                    | Alamosa                                      |  | Filename:                              | M175-005 |
| User: WHE                 |                            |  |  |  |          |
| Agency or orga            | anization name: DR         | MS   |  |  |          |
| HOURLY EQUIPM             | ENT COST                   |  |  |  |          |
| Basic Machine; Ca         | at D9T - 9U                |  |  |  |          |
| Horsepower: 40            |                            |  |  |  |          |
|                           | niversal                   |  |  |  |          |
|                           | shank ripper               |  |  |  |          |
|                           | per day                    | *****  |  |  |          |
|                           | RG)                        |  |  |  |          |
|                           | <u></u>                    |  |  |  |          |
| Cost Breakdown:           |                            |  | X 7. 11 . 1 0/                               |  |          |
| O                         | <b>670 33</b>              |  | <u>Utilization %</u>                         |  |          |
| Ownership Cost/Hour:      |                            |  | <u>NA</u>                                    |  |          |
| Operating Cost/Hour:      |                            |  | 100  |  |          |
| Ripper op. Cost/Hour:     |                            |  | 50   | 7 <b>4.1.8</b> .1.8.1.8.1.8.1.8.1.8.1. |          |
| Operator Cost/Hour:       | \$37.41                    |  | NA   |  |          |
| Total unit Cost/Hour:     | \$261.85                   |  |  |  |          |
| Total Fleet Cost/Hour:    | \$261.85                   |  |  |  |          |
|                           |                            |  |  |  |          |
| MATERIAL QUAN             | FITIES                     |  |  |  |          |
|                           |                            |  |  |  |          |
| Initial Volume: 32,2      |                            |  |  |  |          |
| Swell factor: 1.00        |                            |  |  |  |          |
| Loose volume: <u>32,2</u> | 267 LCY                    |  |  |  |          |
| Source of estimated volu  | me: (40ac)(43              | 560sf/ac)(0 ·                                | 5'D) / 27 = 32,266.67 cy                     | ,                                      |          |
| Source of estimated swel  |                            | <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u> | <u>, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u> |  |          |
|                           |                            |  |  |  |          |
| HOURLY PRODUC             | TION                       |  |  |  |          |
|                           |                            |  |  |  |          |
| Average push distance:    | 100 feet                   |  |  |  |          |
| Unadjusted hourly produ   | iction: <u>1,308.1 LCY</u> | //hr   |  |  |          |
| Materials consistency de  | scription: Partly c        | onsolidated                                  | stockpile 1.1                                |  |          |
| , <u> </u>                |                            |  |  | ·····                                  |          |
| Average push gradient:    | 0%                         |  |  |  |          |
| Average site altitude:    | 7,500 feet                 |  |  |  |          |
| <b></b>                   |                            |  |  |  |          |
| Material weight:          | 2,550 lbs/LCY              |  |  |  |          |
| Weight description:       | Earth - Dry packed         |  |  | ······                                 |          |
| Job Condition Correction  | 1 Factor                   |  | Source                                       |  |          |
| Operator                  | Skill: 0.7                 | 750  | (AVG.)                                       |  |          |
| Material consist          |                            | .00  | (CAT HB)                                     |  |          |
| Dozing me                 |                            | )00  | (GEN.)                                       |  |          |
| -                         |                            |  |  |  |          |

.

| Visibili                   | ity:        | 1.000 | (AVG.)        |
|----------------------------|-------------|-------|---------------|
| Job efficien               | cy:         | 0.830 | (1 SHIFT/DAY) |
| Spoil p                    | ile:        | 0.800 | (FND-RF)      |
| Push gradie                | ent:        | 1.000 | (CAT HB)      |
| Altitu                     | de:         | 1.000 | (CAT HB)      |
| Material Weig              | sht:        | 0.902 | (CAT HB)      |
| Blade ty                   | pe:         | 1.000 | (PAT)         |
| Net correction             | on: 0.494   | 1     |               |
| Adjusted unit production:  | 646.33 L0   | CY/hr |               |
| Adjusted fleet production: | 646.33 L(   | CY/hr |               |
|                            | *********** |       |               |

## JOB TIME AND COST

| Fleet size: | 1 Dozer(s)  |  |
|-------------|-------------|--|
| Unit cost:  | \$0.405/LCY |  |

| Total job time: | 49.92 Hours |
|-----------------|-------------|
| Total job cost: | \$13,072.47 |

## **REVEGETATION WORK**

| Task       | description:      | <b>Revegetate 40 acres affecte</b> | d lands |               | ·····    |
|------------|-------------------|------------------------------------|---------|---------------|----------|
| Site: Al   | lamosa Pit No.    | 2 Permit Action:                   | SR-02   | Permit/Job#:  | M1983175 |
| <u>PRC</u> | <u>DJECT IDEN</u> | <b>FIFICATION</b>                  |         |               |          |
| Τa         | ask #:006         | State: <u>Colorado</u>             | )       | Abbreviation: | None     |
|            | Date: 5/6/20      | 13 County: Alamosa                 |         | Filename:     | M175-006 |
|            | User: WHE         |                                    |         |               |          |

# **FERTILIZING**

| Description              | Units /<br>Acre | Unit  | Cost / Unit                                | Cost /Acre |
|--------------------------|-----------------|-------|--|------------|
| 10-34-0, 18-46-0, 5-10-5 | 200.00          | pound | \$0.33                                     | \$65.40    |
|                          |                 |       | Total Fertilizer<br>Materials<br>Cost/Acre | \$65.40    |

#### Application

| Description                                     |   | Cost /Acre |
|---|---|------------|
| Tractor towed spreader (MEANS 32 01 90.13 0120) |   | \$52.71    |
|   | -   |            |
|   | <b>Total Fertilizer Application Cost/Acre</b> | \$52.71    |

### <u>TILLING</u>

| Description                                      | Cost /Acre |
|--|------------|
| Disc harrowing, 6" deep (MEANS 32 91 13.23 6100) | \$98.01    |
|  |            |
| Total Tilling Cost/Acre                          | \$98.01    |

## **SEEDING**

| Seed Mix                      | Rate –<br>PLS<br>LBS /<br>Acre | Seeds<br>per SQ.<br>FT | Cost /Acre |
|-------------------------------|--------------------------------|------------------------|------------|
| Alkali Sacaton                | 1.30                           | 50.73                  | \$29.65    |
| Streambank Wheatgrass - Sodar | 8.70                           | 28.36                  | \$36.63    |
| Totals Seed Mix               | 10.00                          | 79.10                  | \$66.28    |

### Application

| Description                    |                                  | Cost /Acre |
|--------------------------------|----------------------------------|------------|
| Drill seeding (DRMS Cost Data) |                                  | \$88.20    |
|                                |                                  |            |
|                                | Total Seed Application Cost/Acre | \$88.20    |

# **MULCHING and MISCELLANEOUS**

#### Materials

| Description                             | Units /<br>Acre | Unit | Cost / Unit | Cost /Acre |
|---|-----------------|------|-------------|------------|
| Hay, delivered {MEANS 31 25 14.16 1200} | 2.00            | TON  | \$265.00    | \$530.00   |
| Herbicide - Curtail @ 4.0 pt/ac         | 1.00            | ACRE | \$16.24     | \$16.24    |
| Total Mulch Materials Cost/Acre         |                 |      |             | \$546.24   |

#### Application

| Description                                     |                                   | Cost /Acre |
|---|-----------------------------------|------------|
| Crimping, with tractor {DMG survey data}        |                                   | \$65.89    |
| Power mulcher (MEANS 32 91 13.16 0250)          |                                   | \$86.68    |
| Weed spray, truck, non-aquatic area, nox. [DMG] |                                   | \$61.49    |
|   | Total Mulch Application Cost/Acre | \$214.06   |

## **NURSERY STOCK PLANTING**

| Common Name                      | No /<br>Acre | Type and Size | Planting<br>Cost | Fertilizer<br>Pellet Cost | Cost /Acre |
|----------------------------------|--------------|---------------|------------------|---------------------------|------------|
|                                  |              |               |                  |                           | \$         |
|                                  |              |               |                  |                           |            |
| Totals Nursery Stock Cost / Acre |              |               |                  |                           | \$0.00     |

### JOB TIME AND COST

|                     | No. of Acres:    | 40                          | Cost /Acre:    | \$1,130.90 |  |
|---------------------|------------------|-----------------------------|----------------|------------|--|
| Estimat             | ed Failure Rate: | 30%                         | Cost /Acre*:   | \$1,130.90 |  |
| *Selected Replanti  | ng Work Items:   | FERTILIZING, TILL<br>LCHING | ING,SEEDING,MU |            |  |
| Initial Job Cost:   | \$45,236.00      |                             |                |            |  |
| Reseeding Job Cost: | \$13,570.80      |                             |                |            |  |
| Total Job Cost:     | \$58,806.80      |                             |                |            |  |
| Job Hours:          | 0.00             |                             |                |            |  |

## EQUIPMENT MOBILIZATION/DEMOBILIZATION

| Task descript           | ion: <u>Ha</u>     | ul reclamation eq | uipment to and       | from job | site          |             | <u>-</u> . |             |
|-------------------------|--------------------|-------------------|----------------------|----------|---------------|-------------|------------|-------------|
| ite: <u>Alamosa P</u>   | Pit No. 2          | Permit A          | Action: <u>SR-02</u> |          | Pe            | ermit/Job#: | M198       | 3175        |
| PROJECT                 | IDENTIFICAT        | ION               |                      |          |               |             |            |             |
| Task #:                 | 007                | State: Co         | olorado              |          | Abbı          | eviation:   | None       |             |
| Date:                   | 5/6/2013           | County: A         | lamosa               |          | F             | ilename:    | M175-0     | 007         |
| User:                   | WHE                |                   |                      |          |               |             |            |             |
| Age                     | ncy or organizatio | n name:DRMS       | ,<br>,               |          |               |             |            |             |
| EQUIPME                 | NT TRANSPOI        | RT RIG COST       |                      |          |               |             |            |             |
|                         |                    |                   |                      |          | Shift ba      | asis:       | l per day  |             |
|                         |                    |                   |                      |          | Cost Data Sou |             | CRG Data   |             |
| a                       |                    |                   |                      |          |               |             |            |             |
| L                       | Fruck Tractor Des  | cription: GEN     | ERIC ON-HIGH         |          | P (2ND HALF,  |             | JIESEL P   | 'OWERED,    |
|                         | Truck Trailer Des  | cription: GENE    | ERIC FOLDING         |          |               |             | TDMEN      | TTDATED     |
|                         | TTUCK TTAILOT DCS  | mption. Other     | SIGC FOLDING         |          | , 50T, AND 10 |             | JIPIVIEIN  | I IKAILEK   |
|                         |                    |                   |                      | (200)    | .,            | /01/        |            |             |
| Cost Breakdo            | wn:                |                   |                      |          |               |             |            |             |
| Available Rig           | 2 Capacities       | 0-25 Tons         | 26-50 Tons           | 51       | + Tons        |             |            |             |
|                         | ship Cost/Hour:    | \$16.63           | \$18.37              |          | 522.33        |             |            |             |
| Opera                   | ating Cost/Hour:   | \$44.38           | \$46.13              |          | 50.07         |             |            |             |
| Oper                    | rator Cost/Hour:   | \$27.66           | \$27.66              | 9        | 527.66        |             |            |             |
|                         | elper Cost/Hour:   | \$0.00            | \$25.39              | \$       | 25.39         |             |            |             |
| Total                   | Unit Cost/Hour:    | \$88.67           | \$117.55             | \$       | 125.45        |             |            |             |
|                         |                    |                   |                      |          |               |             |            |             |
| <u>NON ROAI</u>         | DABLE EQUIP        | MENT:             |                      |          |               |             |            |             |
| Machine                 | Weight/            | Owner ship        | Haul Rig             | Fleet    | Haul Trip     | Return 7    |            | DOT Permit  |
| Description             | Unit               | Cost/hr/ unit     | Cost/hr/unit         | Size     | Cost/hr/      | Cost/hr/    | fleet      | Cost/ fleet |
| -                       | (TONS)             |                   |                      |          | fleet         |             |            |             |
| Cat D9T - 9U            | 66.78              | \$78.33           | \$125.45             | 1        | \$203.78      | \$125.45    |            | \$250.00    |
| Cat 320D L 9'-<br>Stick | 6" 23.70           | \$24.63           | \$88.67              | 1        | \$113.30      | \$88.67     |            | \$250.00    |
| Drill/Broadcast         | 25.00              | \$39.59           | \$88.67              | 2        | \$256.51      | \$177.34    |            | \$500.00    |

Subtotals: \$764.99 \$568.80 \$1,500.00

\$177.34

\$500.00

\$191.40

### **ROADABLE EQUIPMENT:**

6.00

\$7.03

Seeder with Tractor Power Mulcher

(Reinco M90)

| Machine Description            | Total Cost/hr/ unit | Fleet Size | Haul Trip<br>Cost/hr/ fleet | Return Trip<br>Cost/hr/ fleet |
|--------------------------------|---------------------|------------|-----------------------------|-------------------------------|
| Flatbed Truck, 4x2, 30K GVW    | \$32.79             | 1          | \$32.79                     | \$32.79                       |
| Light Duty Pickup, 4x4, 3/4 T. | \$15.34             | 1          | \$15.34                     | \$15.34                       |
|                                |                     | Subtotals: | \$48.13                     | \$48,13                       |

\$88.67

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### **EQUIPMENT HAUL DISTANCE and Time**

| Nearest Major City or Town within project area region:                   | ALAMOSA    |              |
|--|------------|--------------|
| Total one-way travel distance:   | 5.00       | miles        |
| Average Travel Speed:  | 20.00      | mph          |
| Total Non-Roadable Mob/Demob Cost *<br>'* two round trips with haul rig: | \$5,196.88 |              |
| Total Roadable Mob/Demob Cost **<br>** one round trip, no haul rig:      | \$24.07    | ************ |

Transportation Cycle Time:

|                         | Non-Roadable<br>Equipment | Roadable<br>Equipment |
|-------------------------|---------------------------|-----------------------|
| Haul Time (Hours):      | 0.25                      | 0.25                  |
| Return Time (Hours):    | 0.25                      | 0.25                  |
| Loading Time (Hours):   | 0.50                      | NA                    |
| Unloading Time (Hours): | 0.50                      | NA                    |
| Subtotals:              | 1.50                      | 0.50                  |

### JOB TIME AND COST

Total job time: 3.00 Hours

Total job cost: \$5,220.95

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