

Freeport-McMoRan Chino Mines Company  
P.O. Box 10  
Bayard, NM 88023

Sherry Burt-Kested  
Manager, Environmental Services  
Telephone: 575-912-5927  
e-mail: sburtkest@fmi.com

May 22, 2018

**Certified Mail #70182290000117904850**

**Return Receipt Requested**

Ms. Rebecca Roose, Director  
New Mexico Environment Department  
Water Protection Division  
P.O. Box 5469  
Santa Fe, NM 87502

Dear Ms. Roose:

**Re: Smelter/Tailing Soils Investigation Unit - Chino AOC  
Vegetation Monitoring Report, Hurley Railroad Interim Remedial Action**

Freeport-McMoRan Chino Mines Company (Chino) submits under separate cover the revised 5 year *Vegetation Monitoring Report* for the Hurley Railroad Interim Remedial Action Site, Smelter/Tailing Investigation Unit under the Chino Administrative Order on Consent (AOC). This report was submitted today to Mr. David Mercer, New Mexico Environment Department (NMED) AOC Project Manager. The monitoring report was revised in response to comments received from the NMED in a letter dated May 1, 2019. NMED also provided conditional approval of the report pending corrections made to Section 4, Page 5 and Section 4.2, Page 5, and to Table 6. Chino has revised the report in response to these specific comments. Additionally, Chino revised some statements for better clarity but could not discern or address without specifications the request for improved composition as per general comment provided through public review.

Please contact Ms. Pam Pinson at (575) 912-5213 if you have any questions regarding this quantitative vegetation survey report.

Sincerely,



for  
Sherry Burt-Kested, Manager  
Environmental Services

SBK  
20190522-001

xc: David Mercer, NMED (via email)  
Joseph Fox, NMED (via email)  
Petra Sanchez, U.S. Environmental Protection Agency (via email)  
Mike Steward, FCX (via email)



**REPORT**

# VEGETATION MONITORING REPORT

*Hurley Railroad Interim Remedial Action, Smelter/Tailing Soils Investigation Unit*

Submitted to:

**Freeport-McMoRan**

Chino Mines Company  
PO Box 10  
Bayard, NM 88023

Submitted by:

**Golder Associates Inc.**

5200 Pasadena Avenue, N.E. Suite C Albuquerque, New Mexico, USA 87113

+1 505 821-3043

1779616

May 17, 2019



# Table of Contents

<b>1.0 INTRODUCTION.....</b>	<b>1</b>
1.1 Background .....	1
1.2 Objectives.....	2
<b>2.0 SUCCESS CRITERIA.....</b>	<b>2</b>
<b>3.0 METHODS.....</b>	<b>3</b>
3.1 Vegetation and Ground Cover .....	4
3.2 Shrub Density.....	4
3.3 Plant Diversity .....	4
3.4 Sample Adequacy .....	4
<b>4.0 RESULTS.....</b>	<b>5</b>
4.1 Precipitation.....	5
4.2 Canopy Cover .....	5
4.3 Basal Cover.....	6
4.4 Shrub Density.....	6
4.5 Diversity.....	6
<b>5.0 SUMMARY.....</b>	<b>6</b>
<b>6.0 REFERENCES.....</b>	<b>7</b>

## TABLES

- Table 1: Seed Mix Used at the Hurley Railroad IRA
- Table 2: Functions and Attributes of the Primary Plant Species for the Hurley Railroad IRA
- Table 3: Chino Mine Reclamation Success Standards and Technical Guidance for the Hurley RR IRA
- Table 4: Monthly Precipitation for Pond 7
- Table 5: Summary Statistics for Canopy and Basal Cover and Shrub Density
- Table 6: Comprehensive Plant List and Vegetation Cover and Density – Hurley Railroad IRA

## **FIGURES**

Figure 1: Site Location Map

Figure 2: Soil Removal Areas and Vegetation Transect Locations

Figure 3: Vegetation Plot, Transect, and Quadrat Layout

Figure 4: Canopy Cover Elements

Figure 5: Basal Cover Elements

## **APPENDICES**

### **APPENDIX A**

Construction and Site Vegetation Photos

### **APPENDIX B**

Sediment Control and Reclamation/Erosion Inspections

### **APPENDIX C**

Quadrat Data Summaries

### **APPENDIX D**

Quadrat Photographs

## 1.0 INTRODUCTION

Freeport McMoRan Chino Mines Company (Chino) conducted the Hurley Railroad Interim Remedial Action (Hurley RR IRA) in 2012 near the Town of Hurley, New Mexico. The remedial action fulfilled the mitigation requirements under IRAs within the Smelter/Tailing Soils Investigation Unit (STSIU) as part of an Administrative Order on Consent (AOC) with the New Mexico Environment Department (NMED) (NMED 1994).

The Hurley RR IRA was performed in areas adjacent to the Southwest Railroad (SWRR) corridor where surface soils were impacted mostly by windblown concentrate from the historic Hurley Concentrator and, to a lesser degree, railroad operations (Figure 1). Specifically, remediation was undertaken to address elevated copper in surface soils. Removal of surface soils was completed in December 2012 as documented in the Supplemental IRA Completion Report for the Hurley RR site remediation (Golder 2013).

Pursuant to the commitments in the IRA Work Plan (Chino 2003a and 2003b) and the Completion Report (Golder 2013), Chino performed quarterly qualitative vegetation and erosion monitoring of the remediated areas for four years after initial vegetation establishment. To fulfill the vegetation monitoring requirements described in the Completion Report, Chino retained Golder Associates Inc. (Golder) to conduct a quantitative vegetation survey of the Hurley RR IRA site to document the status of the revegetated area five years after seeding.

### 1.1 Background

Prior to the remedial action, surface soils in the Hurley RR IRA site had incurred substantial physical impacts associated with construction and grading of the SWRR track corridor, facilities, and dirt access roads, various paved roads and a former residential area east of the tracks. At the time of the soil removal, much of the area had naturally revegetated to various degrees with grasses, forbs, and shrubs. Thus, the much of the site was represented by disturbed soil and vegetation conditions prior to the removal efforts.

The *Interim Removal Action Work Plan for the STSIU* (the Work Plan), approved by NMED, addressed elevated copper in surface soils to the north and west of Hurley (ARCADIS 2007). The objective of the IRA was to remove soils in areas with copper concentrations higher than 5,000 milligrams per kilogram (mg/kg), delineated laterally. Chino applied the NMED-approved residential remedial action criteria of 5000 mg/kg for the Hurley Soils Investigation Unit (HSIU) to be conservative. The IRA also proposed that soils in areas with higher than or equal to 5,000 mg/kg copper concentrations would be removed vertically until the copper concentrations were less than 2,700 mg/kg to minimize exposure of newly stripped soils to ground-feeding birds. Following the completion of the Golf Course IRA, NMED determined the pre-feasibility study remedial action criteria (Pre-FS RAC) for copper in the STSIU was 1,600 mg/kg for both HSIU residential and ecological risk (NMED 2010 and 2011).

The STSIU IRA was implemented for areas north and west of Hurley in 2008 with the Hurley Golf Course accounting for most of the acreage, as detailed in the Interim Removal Action Completion Report, STSIU (ARCADIS 2009). Additional areas identified in the 2007 Work Plan (ARCADIS 2007) as exceeding the RAC along the non-operational areas of the SWRR corridor north and west of the Town of Hurley were not addressed in 2008 because of access issues. Access to the railroad corridor was granted in 2012 by SWRR and a second interim action for soil removal was implemented that year. The 2008 Golf Course IRA and 2012 Hurley Railroad IRA sites are shown in Figure 1.

Soil removal for the Hurley RR IRA was performed from September 4, 2012 to December 17, 2012 by Tipe Construction (Tipe) with oversight and confirmation sampling performed by Golder. The soil removal equipment included a road grader, front-end loader, backhoe, bulldozer, 2 skid-steer loaders. In addition, hand shovels were

used to scrape soils in some areas. Mesquite and other vegetation were cleared and grubbed to the extent practical prior to soil removal. The Work Plan required excavation of no less than 2 inches of soil. As a general rule, Tipe removed 3 inches of soil on the first pass. When confirmation sampling determined that additional excavation was necessary, Tipe removed an additional 2 inches of soil in successive increments until the field testing indicated that the criteria were achieved. Overall, soils were excavated to a depth of 3 to 12 inches. Final grading was conducted to eliminate low and high areas that might hamper positive drainage. Backfilling was not necessary to accomplish final grades. Based on the final delineation, 30.9 acres were remediated in the Hurley RR IRA site (Figure 2) and the total volume of soil removed was approximately 22,000 cubic yards. A photolog illustrating the soil removal process is provided in Appendix A.

The site was seeded by Rocky Mountain Reclamation the following spring prior to the summer monsoons. The seedbed was prepared by disking the soil surface to approximately 6 inches and seeded with a rangeland drill using a combined drill/broadcast process. A chain drag behind the seeder was used to improve soil-seed contact. The site was then mulched and crimped to protect the soil surface from erosion during the establishment phase. The seed mix and application rates for the remedial action are listed in Table 1 and are generally consistent with the Work Plan. The functions and attributes of the primary plant species are listed in Table 2.

Seed germination was observed about one month after seeding and seedling establishment was consistent across the site at the end of the 2013 growing season. By mid-summer 2014, canopy cover in revegetated areas was estimated to be 70% of undisturbed areas (see Appendix A for photos) and was sufficient to control wind and water erosion. Once vegetation establishment was deemed adequate, monthly stormwater inspections ceased and sediment controls (silt fences, straw wattles, and straw bales) were removed. Chino personnel conducted quarterly monitoring thereafter pursuant to the IRA Work Plan (ARCADIS 2007). The quarterly inspection reports for the site are provided in Appendix B.

## 1.2 Objectives

The primary objective for revegetation of the Hurley RR site is to limit erosion and provide dust control for remediated areas through the re-establishment of a native plant community. A secondary benefit of the reclamation is to establish wildlife habitat recognizing the site is adjacent to the Town of Hurley with significant vehicular and train traffic that may limit wildlife use of the area.

Per the Completion Report (Golder 2013), Chino is required to conduct a quantitative survey of revegetated areas and submit a report evaluating the site relative to Chino's *Vegetation Success Standards* (Appendix C, Mining and Minerals Division's [MMD] Revision 01-1 to Permit GR009RE). The post-mining land use (PMLU) for Chino Mine is wildlife habitat, although for these remediated sites there is potential for residential, business, or infrastructure development due to the proximity to the Town of Hurley. Under MMD's guidance for a wildlife PMLU, total canopy cover, shrub density, and plant diversity are evaluated to determine vegetation success (Section 2).

The intent of this document is to detail the methods and results of the quantitative vegetation monitoring in the remediated areas at the Hurley RR IRA. On October 23 and 24, 2017, Golder conducted a quantitative vegetation survey of the Hurley RR site to evaluate the progress of the revegetation after five growing seasons. Combined, the survey covered approximately 30.9 acres.

## 2.0 SUCCESS CRITERIA

Revegetation of the Hurley RR site was intended primarily to limit erosion and provide dust control for disturbed areas through re-establishment of a native plant community (Golder 2013). Reclamation success at Chino is

evaluated by a reference area approach as described in the *Interim Technical Standards* (ITS, DBS&A 1999) and the *Closure/Closeout Plan* (CCP, Chino 2007). The reclamation success criteria were developed for reclaimed tailing areas and are based upon analysis of vegetation data collected in the South Mine Reference Area (Figure 1).

Under the reference area approach, revegetation success criteria are established for the reclamation in proportion to a mature, native reference area. Reclaimed areas are eligible for bond release 12 years after seeding when both the reclaimed and reference areas are monitored to allow formal hypotheses testing to determine whether the success standards are met. The Hurley RR site technically is not a reclamation site (only native ground was revegetated), nor is it expected to have fully progressed in just five years. Therefore, the South Mine Reference Area was not monitored as part this study and reference area data presented in the ITS report (DBS&A 1999) were used to assign benchmarks or technical guidance to evaluate the progress and success of the Hurley RR remediation.

Table 3 provides the reclamation success criteria for Chino and the technical guidance used to evaluate the Hurley RR site five years after seeding. In summary, revegetation efforts are considered successful when the canopy cover on the reclaimed facility is at least 70% of the reference area canopy cover. Canopy cover in the South Mine Reference Area in 1999 was 54.1%, making the success criterion 37.9%.

Shrub density is considered adequate if it is at least 60% of the reference area. Shrub density at the South Mine Reference Area was 7.3 stems per square meter (stems/m<sup>2</sup>) based on quadrat frequency data collected in 1999. Thus, the technical guidance for the Hurley RR IRA vegetation monitoring was set at 4.4 stems/m<sup>2</sup>.

In addition to comparison to cover and shrub density, the revegetation would be considered successful if the plant community is composed of diversity of plant forms (grasses, forbs, and shrubs) without excessive noxious species. Diversity is evaluated against numerical guidelines for different structural components of the vegetation (Table 3). In summary, the diversity guideline would be met if at least three warm season grasses and two shrubs each have cover levels of at least 1%, and one perennial, cool- or intermediate-season grass with a minimum cover level of 0.5%. In addition, two non-weedy forb species with minimum cover level of at least 0.1% are required to meet the diversity guideline. Diversity is also demonstrated by evidence of colonization or recruitment of native (not-seeded) plants from adjacent undisturbed areas. Recruitment of native plant species is indicative of ecological succession and the capacity of the site to support a self-sustaining ecosystem.

### 3.0 METHODS

Golder conducted the quantitative vegetation survey of the remediated sites and reference area between October 23 and 24, 2017. Vegetation attributes were quantified using sampling methods approved by the MMD. Golder collected vegetation data using the approved transect/quadrat system (DBS&A 1999). Transect locations were selected from randomly generated coordinates on a 50-foot grid imposed over the remediated site. Transect coordinates originated from the southwestern corner of the grid. Each 30-meter (m) transect is configured in a dogleg pattern (Figure 3). Four 1-m<sup>2</sup> quadrats were placed at pre-determined intervals along each transect for quantitative vegetation measurements.

For each quadrat, ocular estimates were made of total canopy, species canopy cover, basal cover, surface litter, surface rock fragments, and bare soil. Prior to formal sampling, the site was traversed on foot to inventory the plant community. Not all plant species observed during the general site inspection are expected to occur in the sampling quadrats.

### 3.1 Vegetation and Ground Cover

Field scientists determined species canopy cover, total canopy cover, surface litter, surface rock fragments, and bare soil in each quadrat. They also measured basal cover and plant frequency on a species-basis by counting the number of individual plants rooted in each quadrat. A percent-area card with a minimum resolution of 0.1 percent was used to increase accuracy and consistency of the measurements. Cover estimates less than 0.1 percent were entered as trace amounts.

Canopy cover is the percentage of quadrat area included in the vertical projection of the canopy (Daubenmire 1968). Canopy cover estimates made on the species basis may exceed 100 percent in individual quadrats where the vegetation overlaps (multi-layered canopies). In contrast, the total canopy cover, surface litter, rock fragments, and bare soil does not exceed 100 percent. Relative canopy cover for a specific species or plant class is the calculated proportion of the canopy cover summed for all species.

Basal cover is the proportion of ground occupied by the crowns of grasses and rooting stems of forbs and shrubs. Like the total cover estimates, basal cover estimates do not exceed 100 percent. A photograph of each quadrat was taken to preserve a record of the conditions at the time of sampling.

### 3.2 Shrub Density

Shrub density, or the number of woody plants per area, was determined using a belt transect method (Bonham, 1989). Shrub density was determined from a 2-meter wide, 30-meter long belt transect along the perimeter of the dog-legged transect (Figure 3). Shrubs rooted in the belt transect were counted. Counts were made on a species basis. Shrub density was also calculated based on plant frequency data collected for each quadrat.

### 3.3 Plant Diversity

Plant diversity is assessed by comparing the number and occurrence of perennial species by life form found in the remediated sites to the technical standard developed for Chino (Section 2). The number of perennial grass (warm and cool seasons), perennial forb, and shrub species observed within the quadrats and their associated cover levels were compared to the technical standard (Table 3).

### 3.4 Sample Adequacy

The number of samples required to characterize a particular vegetation attribute depends on the uniformity of the vegetation and the desired degree of certainty required for the analysis. Sample adequacy is the minimum number of samples required to estimate a parameter within a given level of precision (Cochran 1977) and must be met for classical null hypothesis testing for bond release comparisons (MMD 1999). In contrast, vegetation monitoring activities, like those performed at the Hurley RR site, do not need to have this level of statistical rigor. Often it is impractical to achieve sample adequacy in vegetation monitoring studies and a minimum sample number approach is taken. MMD recognizes this limitation and has provided minimum sample sizes for various quantitative methods (MMD 1996).

The number of samples necessary to meet sample adequacy was calculated for total canopy cover and shrub density assuming the data were normally distributed using Snedecor and Cochran (1967).



$$m = \frac{t^2 s^2}{(\bar{x}D)^2}$$

Where  $m$  equals minimum number of samples required,  $t$  is the two-tailed t-distribution value based on a 90% level of confidence with  $n-1$  degrees of freedom,  $s$  is the standard deviation of the sample data,  $\bar{x}$  is the mean, and  $D$  is the desired level of accuracy, which is 10% of the mean. Sample adequacy is achieved when there is 90% confidence that the sample mean for total canopy cover is within 10% of the true population mean. The vegetation monitoring of the remediated site does not require or did not attempt to meet sample adequacy, though the number of samples necessary to meet sample adequacy is reported.

## 4.0 RESULTS

Vegetation attributes were measured at 20 quadrats along 5 randomly located transects within the remediated site during the 2017 monitoring event (Figure 2). Work was performed on October 23 and 24, 2017. Tables in Appendix C summarize individual quadrat data and photographs of the quadrats are provided in Appendix D.

### 4.1 Precipitation

Precipitation records from the Pond 7 gage for the past 5 years (2013 through 2017) are shown in Table 4. The average precipitation at this gauge for the 5-year period was 11.7 inches. This compares to the annual average precipitation regionally at Fort Bayard, New Mexico (Western Regional Climate Center, [www.wrcc.dri.edu](http://www.wrcc.dri.edu)) of approximately 15.7 inches. The precipitation data indicate the first 2 years after seeding were well below average. Despite the droughty conditions, the distribution of moisture, particularly through the monsoonal period (July through early October), was sufficient for vegetation establishment. Near normal precipitation occurred in 2015 and 2017. The August total recorded at Pond 7 in 2017 is roughly twice the Fort Bayard regional monthly average for August.

### 4.2 Canopy Cover

Mean canopy cover ( $\pm$  90% confidence interval [CI]) for the Hurley RR site was 80.0% ( $\pm$  6.5%; Table 5). The canopy cover for the individual quadrats ranged from 28 to 100% (Appendix C, Table C-1). The calculated minimum sample size needed to meet sample adequacy ( $N_{\min}$ ) for total canopy cover is 14 samples (Table 5). Figure 4a illustrates the mean cover for total vegetation canopy, surface rock, litter, and bare soil.

Figure 4b illustrates the proportional canopy cover for perennial grasses, perennial forbs, annual forbs and woody plants. Perennial grasses represent 67.1% of the total relative canopy cover at the remediated site. Sideoats grama (*Bouteloua curtipendula*) is the dominant perennial grass with blue grama (*B. gracilis*), streambank bristlegass (*Setaria leucopila*), sand dropseed (*Sporobolus cryptandrus*) and galleta (*Pleuraphis jamesii*) providing significant canopy cover (Table 6). Shrubs were the next most abundant plant class captured in the quadrats with 19.8% of the total relative cover. Slender janusia (*Janusia gracilis*), a vine, provided significant cover in addition to four-wing saltbush (*Atriplex canescens*), broom snakeweed (*Gutierrezia sarothrae*) and catclaw mimosa (*Mimosa aculeaticarpa* var. *biucifera*). Relative forb cover was 13.1 percent. Common forbs included slender goldenweed (*Machaeranthera gracilis*), dwarf pennyroyal (*Hedeoma nana*), rose heath (*Chaetopappa ericoides*), dwarf pennyroyal (*Hedeoma nana*), hairyseed bahia (*Bahia absinthifolia*), and Russian thistle (*Salsola tragus*).

### 4.3 Basal Cover

Basal cover associated with vegetation is a fraction of the total canopy cover and reflects the morphology of the predominant vegetation in the Chino Mine operational area (i.e., bunchgrasses, annual forbs, and shrubs). Although basal cover is not evaluated for revegetation success, it was measured to aid in ecological interpretations of a site. Basal cover is an important attribute because it is less affected by annual climatic variations than canopy cover, and thus, provides a consistent basis for evaluating reclamation success and changes in community structure.

Mean basal cover for the Hurley RR site was 6.6% ( $\pm 0.8\%$ ; Table 5). The basal cover for the individual quadrats ranged from 3 to 12.5% (Appendix C, Table C-2). The composition of the mean basal cover of the remediated area is illustrated in Figure 5a and indicates that perennial grasses dominate with 91% relative basal cover (Figure 5b).

### 4.4 Shrub Density

Shrub density at the Hurley RR site was 0.9 ( $\pm 1.1$ ) stems/m<sup>2</sup> (3650 shrubs/acre) using the belt transect method compared to 4.6 ( $\pm 2.3$ ) stems/m<sup>2</sup> (18,000 shrubs/acre) based on the quadrat frequency data (Table 5). The primary reason for the increased density with the quadrat data is attributed to numerous root shoots of slender janusia and Siberian elm (*Ulmus pumila*) encountered on transect VT 3. Five other shrub species were found in the quadrats including fairyduster (*Calliandra eriophylla*), and broom snakeweed that occur at a moderate frequency. The belt transects captured these species and other shrubs including four-wing saltbush, catclaw mimosa, soaptree yucca (*Yucca elata*) Douglas' ragwort (*Senecio flaccidus var. douglasii*), and winterfat (*Krascheninnikovia lanata*).

### 4.5 Diversity

The Hurley RR site supports a diverse complement of grass, forb and woody plant species. A total of 54 species were identified in the remediated area and more than half (32 species) of the species were captured in the 20 individual quadrats (Table 6). The seed mix contained 16 plant species (Table 1), of which 11 were identified in the revegetation. The other 43 volunteer species were either recruited from adjacent undisturbed areas or sprouted from vegetative propagules following topsoil removal.

In remediated areas, 16 grasses species, 11 woody plants, and 27 forbs were found. Warm season grasses generally dominate the canopy cover, though both a cool season grass (Letterman's needlegrass, *Achnatherum lettermanii*) and intermediate season grass (Plains lovegrass, *Eragrostis intermedia*) occur on the site. Woody plants are represented not only by shrubs but vines and trees as well. Numerous perennial and annual forbs were documented, and though Russian thistle is present at the site, no noxious weeds were found during the field investigation. The number of species identified at the site demonstrates that in the five years since seeding, the site is being colonized by native species and is self-sustaining.

## 5.0 SUMMARY

The primary objective for revegetation of the Hurley RR site is to limit wind and water erosion for remediated areas through the re-establishment of a native plant community. Golder conducted a quantitative vegetation survey of the site to document the progress of revegetation five years after completion of the IRA. Canopy cover, shrub density and diversity were measured and compared to the reference area technical guidance for Chino South Mine. This guidance is typically applied in 2 of the last 4 years of the 12-year liability period after seeding as part of demonstrating reclamation success.

The revegetation efforts associated with the IRA at the Hurley RR site are considered successful. An early-seral stage mixed grama-shrub community is well established across the Hurley RR site. Based on the 2017 sampling, mean total canopy cover is 80.0% and more than twice the reference area guidance for canopy cover set at 37.9%. Given the less than favorable precipitation during the vegetation establishment period and the condition of the plant community in 2017, the strong canopy cover demonstrates that the remediated site is resilient and self-sustaining. Shrub density of the Hurley RR site is 63% of the South Mine Reference Area using the quadrat frequency estimation method, exceeding the revegetation success standard of 60% of the reference area woody plant density.

Forty-three plant species that were not included in the reclamation seed mix were identified at the Hurley RR site. Recruitment of native plant species into the reclaimed plant community demonstrates the process of ecological succession and the gradual establishment of self-sustaining ecosystem. Vegetation on the remediated site meets the diversity requirements for warm-season grasses, forbs, and shrubs. Six warm-season, perennial grasses met the minimum occurrence of 1% canopy cover. Two annual forbs (excluding Russian thistle) and nine perennial forbs met the minimum occurrence of 0.1% canopy cover. Five woody plant species met the 1% canopy cover minimum occurrence. Cool season grasses are generally lacking at the site. The lack of cool season grasses is consistent with the surrounding undisturbed ecosystem (Golder 2015 and 2016). As such, the minimum cover for cool-season grasses was not met as specified in the diversity success standards. Based on regional studies, the requirements for cool-season grasses is being re-evaluated and may not be applicable in the future.

No significant erosion issues were documented during the 5-year monitoring period, and the currently established plant community meets the overall objective as a best management practice for erosion control. The reclaimed plant community provides significant canopy cover, while also providing both ecological and rangeland values to the area.

Results from the 2017 vegetation survey of the Hurley RR IRA indicate that revegetation efforts were successful, and the remediated area can support a self-sustaining ecosystem. The survey data demonstrate that the vegetation on the Hurley RR site is diverse and exceeds Chino's vegetation success standards for total canopy cover and shrub density. Thus, the IRA objective to return the area to a post-mining beneficial use (i.e., wildlife habitat) is met with a viable self-sustaining vegetated cover. No additional vegetation monitoring is recommended as the interim remedial action for the remediated site will remain under the oversight of the Chino AOC and will be addressed and released under the STSIU's Record of Decision.

## 6.0 REFERENCES

- ARCADIS BBL, Inc. (ARCADIS). 2007. Interim Removal Action Work Plan, Smelter Tailing Soils Investigation Units, Chino Mines Company, Hurley, New Mexico. November.
- ARCADIS. 2009. Administrative Order on Consent, Interim Removal Action Completion Report, Smelter/Tailing Soil Investigation Units. Prepared for Chino Mines Company, March 10, 2009.
- Bonham, C.D. 1989. Measurements for Terrestrial Vegetation. John Wiley & Sons, New York.
- Chino Mines Company (Chino). 2003a. Administrative Order On Consent, Interim Remedial Action, Groundhog Mine Stockpile, Interim Remedial Action Workplan, Hanover and Whitewater Creeks Investigation Unit. October 2003.

- Chino. 2003b. Administrative Order on Consent, Interim Remedial Action, Osceolla, CG Bell, and Tenderfoot B Stockpiles, Interim Remedial Action Workplan, Hanover and Whitewater Creeks Investigation Unit. August 2003.
- Chino. 2007. Chino Closure/Closeout Plan Update. Chino Mines Company, Hurley, New Mexico. Prepared for New Mexico Environment Department. August 28, 2007.
- Cochran, W.G. 1977. Sampling Techniques, 3rd edition. John Wiley & Sons, New York.
- Daniel B. Stephens and Associates (DBS&A). 1999. Interim Technical Standards for Revegetation Success, Prepared for Chino Mines Company, Hurley, New Mexico. November 30, 1999.
- Daubenmire, R. 1968. Plant Communities: A Textbook of Plant Synecology. Harper & Row, Publishers, New York.
- Golder Associates Inc. (Golder). 2013. Supplemental Completion Report: Interim Remedial Action Smelter/Tailing Soils Investigation Unit. Prepared for Chino Mines Company. May 2013.
- Golder. 2015. Chino Stockpile Test Plots 2015 Addendum Report. Prepared for Chino Mines Company. December 2015.
- Golder. 2016. Vegetation Monitoring Report: Groundhog Mine Site and Small Stockpile Sites, Interim Remedial Actions, Hanover and Whitewater Creeks Investigation Units. Prepared for Chino Mines Company. September 2016.
- Mining and Minerals Division (MMD). 1996. Draft Closeout Plan Guidelines for Existing Mines. Mining Act Reclamation Bureau, Santa Fe, NM. April 30.
- MMD. 1999. Coal Mine Reclamation Program Vegetation Standards. 19.8 NMAC Attachment 1. Santa Fe, NM. December 15.
- New Mexico Environment Department (NMED). 1994. Administrative Order on Consent, Chino Mines Company and New Mexico Environmental Department. December 23.
- NMED. 2010. Letter from Ron Curry (NMED) to Timothy Eastep (Chino) Re: Pre-Feasibility Study Remedial Action Criteria (Pre-FS RAC), Smelter and Tailing Soils Investigation Unit (S/TSIU), Chino Administrative Order on Consent (Chino AOC). September 16, 2010.
- NMED. 2011. Letter from William Olsen (NMED) to Ned Hall (Chino) Re: Chino AOC Informal Dispute Resolution, Smelter and Tailing Soils Investigation Unit. March 3, 2011.
- Snedecor, G.W., and W.G. Cochran. 1967. Statistical Methods. Iowa State University Press. 593 pp.

Golder and the G logo are trademarks of Golder Associates Corporation

## Tables

**Table 1: Seed Mix Used at the Hurley Railroad IRA**

Species	Life Form	Duration	Seasonality	Application Rate <sup>a</sup>
Blue grama ( <i>Bouteloua gracilis</i> )	Grass	Perennial	Warm	0.25
Side-oats grama ( <i>Bouteloua curtipendula</i> )	Grass	Perennial	Warm	0.60
Indian ricegrass ( <i>Achnatherum hymenoides</i> )	Grass	Perennial	Cool	1.40
Green sprangletop ( <i>Leptochloa dubia</i> )	Grass	Perennial	Warm	0.50
Needle and thread grass ( <i>Hesperostipa comata</i> )	Grass	Perennial	Cool	0.55
Prairie junegrass ( <i>Koeleria macrantha</i> )	Grass	Perennial	Cool	0.10
Galleta ( <i>Pleuraphis jamesii</i> )	Grass	Perennial	Warm	0.45
Streambank wheatgrass ( <i>Elymus lanceolatus</i> )	Grass	Perennial	Cool	0.50
Sand dropseed ( <i>Sporobolus cryptandrus</i> )	Grass	Perennial	Warm	0.10
Blue flax ( <i>Linum lewisii</i> )	Forb	Perennial	NA	0.15
Prairie coneflower ( <i>Ratibida columnifera</i> )	Forb	Perennial	NA	0.25
White prairie clover ( <i>Dalea candida</i> )	Forb	Perennial	NA	0.20
Fairyduster ( <i>Calliandra eriophylla</i> )	Shrub	Perennial	NA	0.05
Rubber rabbitbrush ( <i>Ericameria nauseosa</i> )	Shrub	Perennial	NA	0.25
Winterfat ( <i>Krascheninnikovia lanata</i> )	Shrub	Perennial	NA	0.60
Fourwing saltbush ( <i>Atriplex canescens</i> )	Shrub	Perennial	NA	1.40
<b>Total PLS (lb/acre)</b>				<b>7.35</b>

Notes:

a = Rate is in pounds of pure live seed (PLS) per acre (lb/ac)

NA = Not applicable

**Table 2: Functions and Attributes of the Primary Plant Species for the Hurley Railroad IRA**

Species	Character	Attributes and Function
Blue grama ( <i>Bouteloua gracilis</i> )	N, P, W, G	Sod and bunch grass providing ground cover and forage
Side-oats grama ( <i>Bouteloua curtipendula</i> )	N, P, W, G	Bunchgrass providing ground cover and forage
Indian ricegrass ( <i>Achnatherum hymenoides</i> )	N, P, C, G	Bunchgrass providing ground cover and forage
Green sprangletop ( <i>Leptochloa dubia</i> )	N, P, W, G	Erect bunch grass; aggressive short-lived nurse plant with forage value
Needle and thread grass ( <i>Hesperostipa comata</i> )	N, P, C, G	Tufted, erect bunchgrass providing ground cover and forage
Prairie junegrass ( <i>Koeleria macrantha</i> )	N, P, C, G	Bunchgrass providing ground cover and forage
Galleta ( <i>pleuraphic jamesii</i> )	N, P, W, G	Sod and bunch grass providing ground cover and forage
Streambank wheatgrass ( <i>Elymus lanceolatus</i> )	N, P, C, G	Sod-forming grass providing ground cover and forage
Sand dropseed ( <i>Sporobolus cryptandrus</i> )	N, P, W, G	Warm-season bunch grass providing erosion control of sandy soil
Blue flax ( <i>linum lewisii</i> )	N, P, F	Persistent forb providing forage, browse, erosion control and beautification
Prairie coneflower ( <i>Ratibida columnifera</i> )	N, P, F	Herbaceous perennial providing spring browse, forage, structural cover and beautification
White prairie clover ( <i>Dalea candida</i> )	N, P, F	Leguminous forb providing forage and browse
Fairyduster ( <i>Calliandra humilis</i> )	N, P, SS	Spreading herbaceous perennial providing browse
Rubber rabbitbrush ( <i>Ericameria nauseosa</i> )	N, P, S	Mid-height to tall shrub providing winter browes, cover, and pollinator habitat
Winterfat ( <i>Krascheninnikovia lanata</i> )	N, P, SS	Low shrub providing winter browse
Fourwing saltbush ( <i>Atriplex canescens</i> )	N, P, S	Mid-height to tall shrub providing browse and cover

## Notes:

N = Native

P = Perennial

W = Warm season

G = Grass

C = Cool season

S = Shrub

SS = Subshrub

F = Forb

**Table 3: Chino Mine Reclamation Success Standards and Technical Guidance for the Hurley RR IRA**

Criterion		Success Standard	Technical Guidance
<b>Cover</b>	Total canopy cover	≥ 70% of Reference Area (54.1%)	38%
<b>Shrub Density</b>	Stems per square meter or acre	≥ 60% of Reference Area (7.6 stems/m <sup>2</sup> )	4.4 stems/m <sup>2</sup>
<b>Diversity</b>	Perennial Grasses	Warm season	≥ 3 species, each ≥ 1% cover
		Cool season	≥ 1 species, each ≥ 0.5% cover
	Forbs		≥ 2 species, each ≥ 0.1% cover
	Shrubs		≥ 2 species, each ≥ 1% cover

Note:

From DBS&A, 1999



**Table 4: Monthly Precipitation for Pond 7**

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Grand Total
<b>Pond 7</b>													
<b>2013</b>	0.56	0.00	0.00	0.04	0.00	0.00	3.80	1.92	1.75	0.00	0.78	0.74	<b>9.59</b>
<b>2014</b>	0.00	0.00	0.39	0.24	0.00	0.20	1.68	1.12	0.00	1.57	0.21	0.61	<b>6.02</b>
<b>2015</b>	1.66	0.34	0.39	0.11	0.17	1.65	2.54	2.89	1.36	1.85	0.66	0.41	<b>14.03</b>
<b>2016</b>	0.58	0.13	0.01	0.51	0.13	0.42	1.59	2.60	1.07	0.15	3.82	1.60	<b>12.61</b>
<b>2017</b>	2.73	1.04	0.02	0.01	0.36	1.29	2.92	6.49	0.39	0.30	0.23	0.34	<b>16.12</b>
<b>Fort Bayard</b>													
<b>Average</b>	0.87	0.87	0.69	0.39	0.47	0.78	3.20	3.30	2.05	1.25	0.76	1.04	<b>15.66</b>

Note:

-- Not available

**Table 5: Summary Statistics for Canopy and Basal Cover and Shrub Density**

Cover		Shrub Density	
Total Canopy (%)		Belt transect (stems/m <sup>2</sup> )	
Mean	80.0	Mean	0.9
Std Dev	17.6	Std Dev	1.3
90% CI	6.5	90% CI	1.0
Nmin	14	Nmin	481
Basal (%)		Frequency (stems/m <sup>2</sup> )	
Mean	6.6	Mean	4.6
Std Dev	2.2	Std Dev	6.3
90% CI	0.8	90% CI	2.3
Nmin	33	Nmin	332

**Notes:**

90% CI = 90 percent confidence interval around the mean

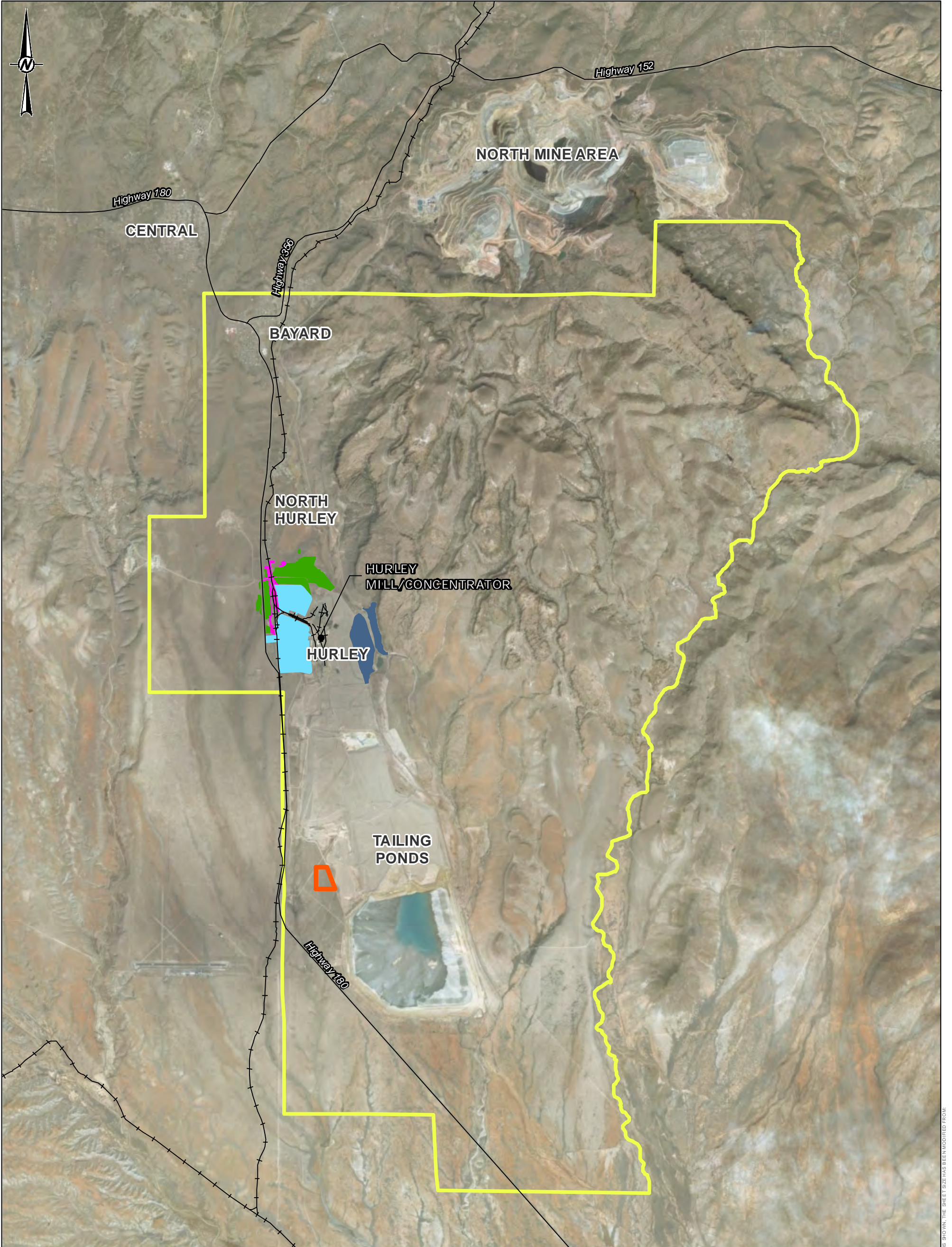
Nmin = sample adequacy (cover  $\alpha=0.1$ , shrub density  $\alpha=0.2$ )

**Table 6: Comprehensive Plant List and Vegetation Cover and Density – Hurley Railroad IRA**

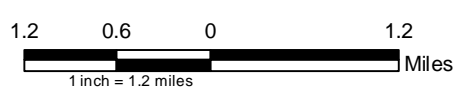
Scientific Name	Common Name	Code	Mean Cover (%)		Mean Density (stems/m <sup>2</sup> )	Source
			Canopy	Basal		
<b>Grasses</b>						
<i>Andropogon gerardii</i>	Big bluestem	ANGE	--	--	--	V
<i>Aristida divaricata</i>	Poverty threeawn	ARDI	1.64	0.19	0.35	V
<i>Aristida purpurea</i>	Purple threeawn	ARPU	0.60	<0.10	<0.10	V
<i>Bothriochloa barbinodis</i>	Cane bluestem	BOBA3	--	--	--	V
<i>Bothriochloa ischaemum</i>	Yellow bluestem	BOIS	0.74	<0.10	0.15	V
<i>Bouteloua curtipendula</i>	Sideoats grama	BOCU	32.21	2.76	12.95	S
<i>Bouteloua gracilis</i>	Blue grama	BOGR	8.48	0.78	3.45	S
<i>Dasyochloa pulchella</i>	Fluffgrass	DAPU2	--	--	--	V
<i>Eragrostis intermedia</i>	Plains lovegrass	ERIN	--	--	--	V
<i>Leptochloa dubia</i>	Green sprangletop	LEDU	0.20	<0.10	0.10	S
<i>Pleuraphis jamesii</i>	Galleta	PLJA	7.05	0.71	1.90	S
<i>Schedonnardus paniculatus</i>	Tumblegrass	SCPA	--	--	--	V
<i>Setaria leucopila</i>	Streambank bristlegrass	SELE	11.86	1.19	2.60	V
<i>Sorghastrum nutans</i>	Indiangrass	SONU	--	--	--	V
<i>Sporobolus cryptandrus</i>	Sand dropseed	SPCR	9.80	0.34	2.50	S
<i>Stipa lettermannii</i>	Letterman stipa	STLE	--	--	--	V
<b>Forbs</b>						
<i>Astragalus parryi</i>	Parry's milkvetch	ASPA	0.14	<0.10	0.10	V
<i>Aletes spp.</i>	Unk parsley	ALETE	--	--	--	V
<i>Asteracea spp</i>	Unk composite	ASTER	--	--	--	V
<i>Bahia absinthifolia</i>	Hairyseed bahia	BAAB	0.65	0.0025	0.05	V
<i>Calylophus hartwegii</i>	Hartweg's sundrops	CAHA	--	--	--	V
<i>Chaetopappa ericoides</i>	Rose heath	CHER	1.78	<0.10	1.65	V
<i>Chenopodium neomexicanum</i>	New Mexico goosefoot	CHNE	<0.10	<0.10	<0.10	V
<i>Cirsium spp</i>	Unk thistle	CIRCI	--	--	--	V
<i>Dalea candida</i>	White prairie clover	DACA	--	--	--	S
<i>Eriogonum spp.</i>	Unk buckwheat	ERIOG	--	--	--	V
<i>Fabaceae spp.</i>	Unk legume	FABAC	--	--	--	V
<i>Hedeoma nana</i>	Dwarf pennyroyal	HENA	1.55	<0.10	0.70	V
<i>Lesquerella spp.</i>	Unk bladderpod	LESQU	<0.10	<0.10	<0.10	V
<i>Lotus wrightii</i>	Wright's deervetch	LOWR	0.39	<0.10	0.30	V
<i>Machaeranthera canescens</i>	Purple aster	MACA	0.59	<0.10	0.25	V
<i>Machaeranthera gracilis</i>	Slender goldenweed	MAGR	4.02	<0.10	1.65	V
<i>Pectis angustifolia</i>	Lemonweed	PEAN	<0.10	<0.10	0.95	V
<i>Psilostrophe tagetina</i>	Wooly paperflower	PSTA	--	--	--	V
<i>Psoralea scoparius</i>	Broom dalea	PSSC	0.58	<0.10	0.25	V
<i>Ratibida columnifera</i>	Cone flower	RACO	<0.10	<0.10	<0.10	S
<i>Salsola tragus</i>	Russian thistle	SATR	4.16	<0.10	2.00	V
<i>Senna bahuinoides</i>	Twinleaf senna	SEBA	<0.10	<0.10	0.10	V
<i>Solanum elaeagnifolium</i>	Silverleaf nightshade	SOEL	0.24	<0.10	0.25	V
<i>Sphaeralcea hastulata</i>	Spear globemallow	SPHA	0.06	<0.10	0.20	V
<i>Sphaeralcea leptophylla</i>	Scaly globemallow	SPLE	0.54	<0.10	0.40	V
<i>Stephanomeria pauciflora</i>	Skeleton weed	STPA	--	--	--	V
<i>Thelesperma filifolium</i>	Green thread	THME	--	--	--	V
<b>Shrubs and Trees</b>						
<i>Atriplex canescens</i>	Four-wing saltbush	ATCA	2.40	0.04	0.05	S
<i>Calliandra eriophylla</i>	Fairyduster	CAER	0.27	0.01	0.65	S
<i>Eramerica nauseosus</i>	Rubber rabbitbush	ERNA	--	--	--	S
<i>Gutierrezia sarothrae</i>	Broom snakeweed	GUSA	5.45	0.26	0.45	V
<i>Janusia gracilis</i>	Slender janusia	JAGR	8.63	0.08	1.25	V
<i>Krascheninnikovia lanata</i>	Winterfat	KRLA	--	--	--	S
<i>Mimosa aculeaticarpa var. biucifera</i>	Catclaw mimosa	MIACB	3.10	<0.10	0.25	V
<i>Senecio flaccidus var. douglasii</i>	Douglas' ragwort	SEFL	--	--	--	V
<i>Ulmus pumila</i>	Siberian elm	ULPU	1.01	<0.10	1.70	V
<i>Yucca elata</i>	Soaptree yucca	YUEL	--	--	--	V
<i>Zinnia acerosa</i>	Desert zinnia	ZIAC	--	--	--	V

**Notes:**  
 stems/m<sup>2</sup> = stems per square meter  
 S= seeded, V=volunteer

## Figures



- LEGEND**
- SMELTER/TAILING SOILS INVESTIGATION
  - UNIT BOUNDARY (STSIU)
  - HURLEY SOILS INVESTIGATION
  - HURLEY RAILROAD IRA
  - GOLF COURSE IRA
  - RAZORBACK RIDGE
  - SOUTH MINE REFERENCE AREA
  - SWRR RAILROAD TRACKS/CORRIDOR



**REFERENCE**  
 COORDINATE SYSTEM: NAD 1983 STATEPLANE NEW MEXICO WEST FIPS 3003 FEET  
 AERIAL IMAGERY: NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), USDA FARM SERVICE AGENCY. IMAGE TAKEN JUNE 2016.

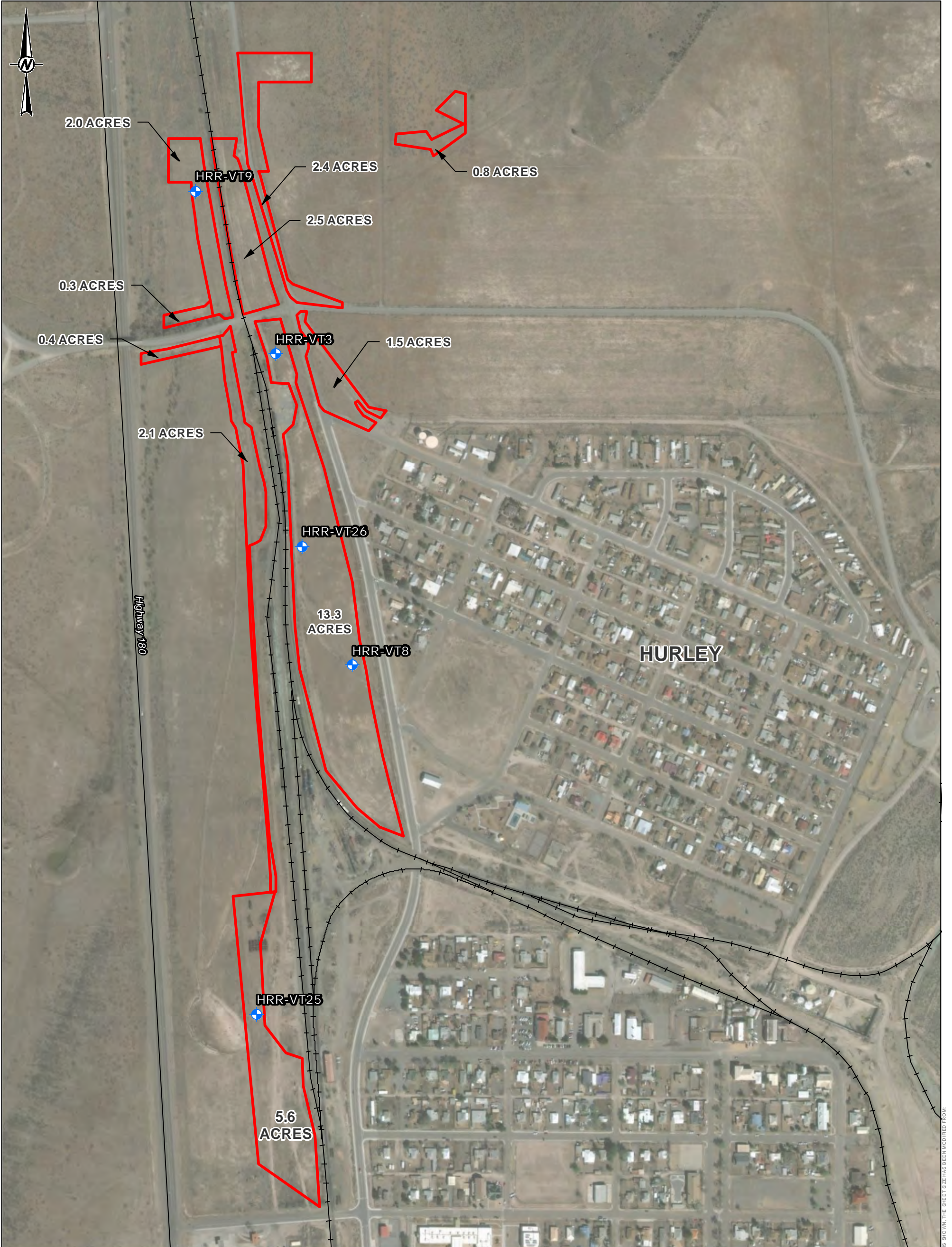
CLIENT  
 FREEPORT MCMORAN, CHINO MINES  
 GRANT COUNTY, HURLEY, NEW MEXICO

PROJECT  
 HURLEY RAILROAD IRA VEGETATION MONITORING




TITLE  
**SITE LOCATION MAP**

CONSULTANT	YYYY-MM-DD	2018-02-19
	PREPARED	DZF
	DESIGN	DZF
	REVIEW	DR
	APPROVED	DR

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM 11x17



**LEGEND**

-  TRANSECT LOCATION
-  SOIL REMOVAL AREAS
-  SWRR RAILROAD TRACKS/CORRIDOR



**REFERENCE**

COORDINATE SYSTEM: NAD 1983 STATEPLANE NEW MEXICO WEST FIPS 3003 FEET  
 AERIAL IMAGERY: NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), USDA FARM SERVICE AGENCY. IMAGE TAKEN MAY 2016.

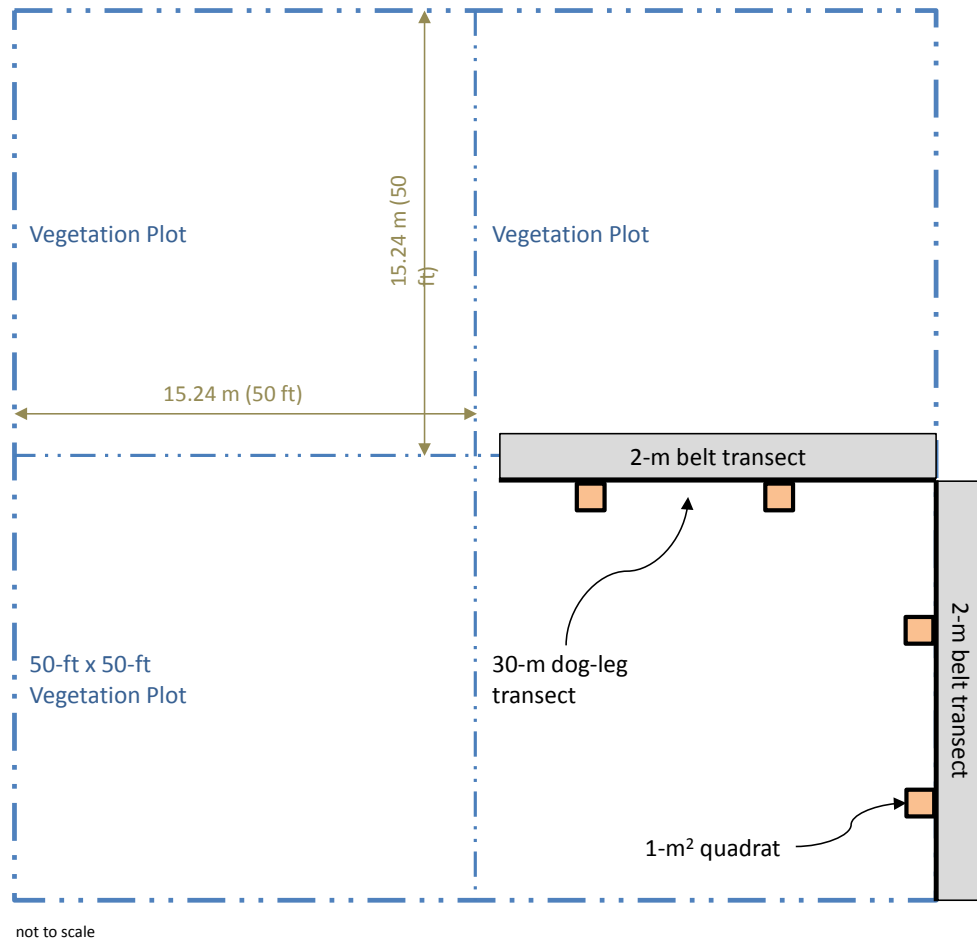
CLIENT  
 FREEPORT MCMORAN, CHINO MINES  
 GRANT COUNTY, HURLEY, NEW MEXICO

PROJECT  
 HURLEY RAILROAD IRA VEGETATION MONITORING

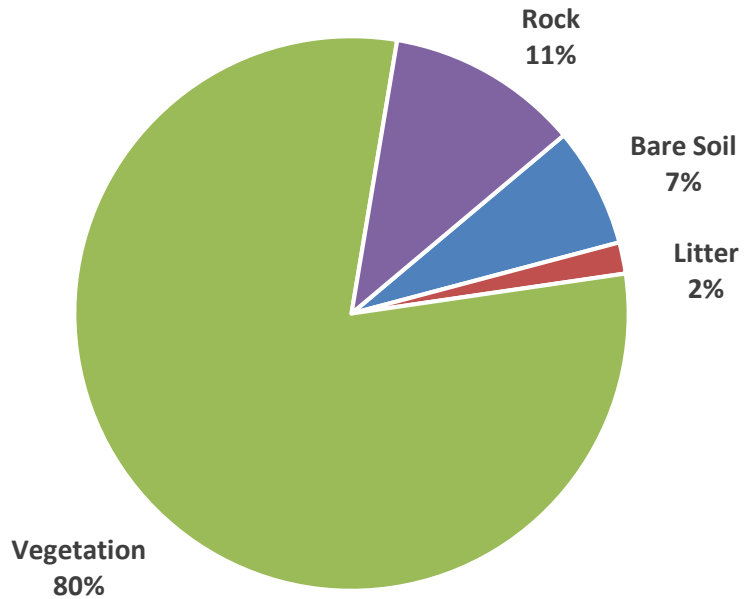
**TITLE**  
**SOIL REMOVAL AREAS AND VEGETATION TRANSECT LOCATIONS**

CONSULTANT	YYYY-MM-DD	2018-02-19
	PREPARED	DZF
	DESIGN	DZF
	REVIEW	DR
	APPROVED	DR

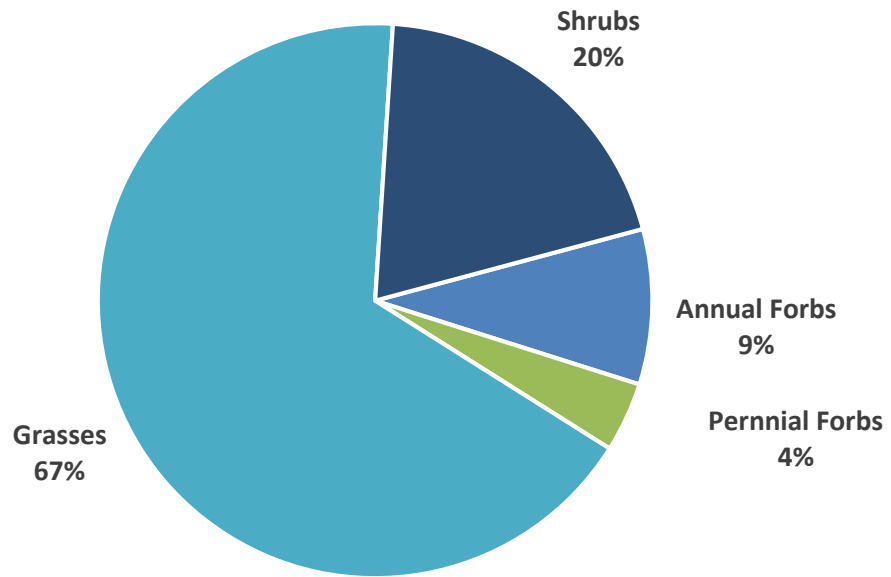
**Figure 3: Vegetation Plot, Transect, and Quadrat Layout**



#### 4a. Relative Mean Canopy Cover Components



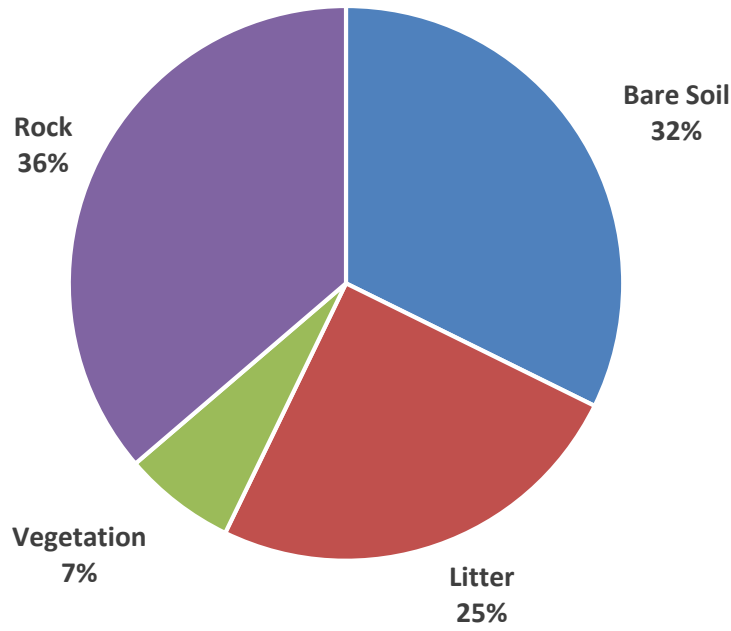
#### 4b. Proportional Canopy Cover by Plant Classes



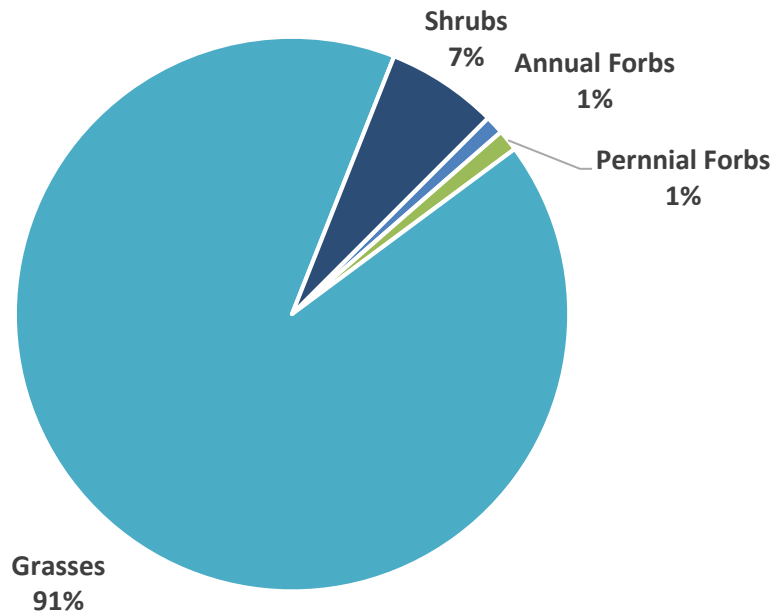
**Figure 4**  
**Canopy Cover Elements**  
Hurley RailRoad IRA Vegetation Monitoring



### 5a. Relative Mean Basal Cover Components



### 5b. Proportional Basal Cover by Plant Classes



**Figure 5**  
**Basal Cover Elements**  
Hurley Railroad IRA Vegetation Monitoring

**APPENDIX A**

**Construction and Site Vegetation  
Photos**

**Project Title: Hurley Railroad IRA Remedial Action and Vegetation**

Tippe Construction  
scraping and  
removing soil with  
front-end loader and  
grader.

2012-Oct



Southwest of RR tracks – facing north

Ground surface post-  
remediation and re-  
grading. Before  
seeding.

2013-Feb



Northeast of RR tracks – facing south

Rocky Mountain Reclamation used tractor to disc soil before drill seeding and chain dragging.

2013-March





East of RR tracks – facing west

Reclaimed area soon after seeding and mulching.

2013-April



NE sector - facing south

<p>Moderate revegetation after first growing season included grasses and annual vegetation (kochia.).</p> <p>2013-Sept</p>	 <p>Southwest corner of site – facing NE</p>
<p>Approaching second growing season after seeding, new vegetation was beginning to emerge.</p> <p>2014-Apr</p>	 <p>Diaz Avenue right-of-way</p>

In the second growing season after reseeding, vegetative cover was progressing well.

2014-Summer





NW corner of site - facing N/NE

In the second growing season, yucca roots that were not removed during remediation had resprouted growing amongst newly-seeded grasses.

2014-Summer



Adjacent to RR tracks

<p>Well-established grasses, forbs, and shrubs 5 years after seeding.</p> <p>2017-Oct</p>	 <p>East of RR tracks – facing N</p>
<p>Well-established grasses, forbs, and shrubs 5 years after seeding.</p> <p>2017-Oct</p>	 <p>Northeast of RR tracks – facing south</p>

**APPENDIX B**

**Sediment Control and  
Reclamation/Erosion Inspections**



## HURLEY SOILS REMEDIAL ACTION

### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection       Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: 0 Inches

Yes	No	Does Not Apply	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are all <u>runoff</u> BMPs properly located and properly installed?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Do any sedimentation BMPs require repair or to be cleaned out?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any sediment leaving the excavation area (yards)?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of erosion on cuts?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>
No excavation yet. Silt fence & wattles in place.

Inspected by:

Yusef Moya

Title:

HSS

Date:

9-20-12

## HURLEY SOILS REMEDIAL ACTION

### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection       Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: \_\_\_\_\_ Inches

Yes	No	Does Not Apply	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are all <u>runoff</u> BMPs properly located and properly installed?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Do any sedimentation BMPs require repair or to be cleaned out?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any sediment leaving the excavation area (yards)?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of erosion on cuts?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>
Start of week - Removing/replacing wedges daily
For haul road access

Inspected by: York Rozen      Title: HSS      Date: 10-2-12

## HURLEY SOILS REMEDIAL ACTION

### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection  
 Rainfall Event Inspection

Inspection before long weekends or down time  
 Rainfall: \_\_\_\_\_ Inches

Yes	No	Does Not Apply	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Are all <u>runoff</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Do any sedimentation BMPs require repair or to be cleaned out?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any sediment leaving the excavation area (yards)?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of erosion on cuts?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>		
Crew will patch broken silt fence west of depot before weekend		

Inspected by:

Yusef Moz

Title:

HSS

Date:

10-5-12

## HURLEY SOILS REMEDIAL ACTION

### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection       Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: \_\_\_\_\_ Inches

Yes	No	Does Not Apply	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are all <u>runoff</u> BMPs properly located and properly installed?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Do any sedimentation BMPs require repair or to be cleaned out?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any sediment leaving the excavation area (yards)?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of erosion on cuts?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>		
<i>No rain recently ; BMPs in good condition</i>		

Inspected by: York Mager      Title: HSS      Date: 10-10-12

# HURLEY SOILS REMEDIAL ACTION

## A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection       Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: \_\_\_\_\_ Inches

- | Yes                      | No                                  | Does Not Apply                      |   |
|--------------------------|-------------------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Are all <u>run-on</u> BMPs properly located and properly installed?                       |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Are all <u>runoff</u> BMPs properly located and properly installed?                       |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Do any sedimentation BMPs require repair or to be cleaned out?                            |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Is there any sediment leaving the excavation area (yards)?                                |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Is there any evidence of erosion on cuts?   |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Does the Sediment Control Plan require revision?  |

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>

Inspected by:



Title:

Field Tech

Date:

10-12-12

HURLEY SOILS REMEDIAL ACTION

A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection       Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: \_\_\_\_\_ Inches

- | Yes                                 | No                                  | Does Not Apply                      |   |
|-------------------------------------|-------------------------------------|-------------------------------------|---|
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Are all <u>run-on</u> BMPs properly located and properly installed?                       |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | Are all <u>runoff</u> BMPs properly located and properly installed?                       |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Do any sedimentation BMPs require repair or to be cleaned out?                            |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Is there any sediment leaving the excavation area (yards)?                                |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Is there any evidence of erosion on cuts?   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses? |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Does the Sediment Control Plan require revision?  |

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>
All BMPs look good

Inspected by:                      Title: HSS Date: 10-16-12  
*Joe Boy*

## HURLEY SOILS REMEDIAL ACTION

### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection                       Inspection before long weekends or down time  
 Rainfall Event Inspection                  Rainfall: 0.0 Inches

Yes	No	Does Not Apply	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Are all <u>runoff</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Do any sedimentation BMPs require repair or to be cleaned out?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any sediment leaving the excavation area (yards)?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of erosion on cuts?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>
Crew is repairing silt fence in 3 spots and cleaning road
in prep for 3-day wknd

Inspected by: YJR Roy                      Title: HSS                      Date: 10-18-12

HURLEY SOILS REMEDIAL ACTION

A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection       Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: 6.0 Inches

Yes	No	Does Not Apply	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are all <u>runoff</u> BMPs properly located and properly installed?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Do any sedimentation BMPs require repair or to be cleaned out?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any sediment leaving the excavation area (yards)?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of erosion on cuts?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>

Inspected by:

Yore Roy

Title:

HSS

Date:

10.23.12



## HURLEY SOILS REMEDIAL ACTION

### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection       Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: 0.0 Inches

Yes	No	Does Not Apply	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are all <u>runoff</u> BMPs properly located and properly installed?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Do any sedimentation BMPs require repair or to be cleaned out?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any sediment leaving the excavation area (yards)?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of erosion on cuts?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>		
All BMPs look good		

Inspected by: Yael Moya      Title: HSS      Date: 10-29-12

## HURLEY SOILS REMEDIAL ACTION

### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection       Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: 0.0 Inches

Yes	No	Does Not Apply	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are all <u>runoff</u> BMPs properly located and properly installed?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Do any sedimentation BMPs require repair or to be cleaned out?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any sediment leaving the excavation area (yards)?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of erosion on cuts?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>
Note a silt fence repairs that were completed before
leaving the site

Inspected by: Yael Roy      Title: ASS      Date: 11-1-12

HURLEY SOILS REMEDIAL ACTION

A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection       Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: \_\_\_\_\_ Inches

Yes	No	Does Not Apply	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are all <u>runoff</u> BMPs properly located and properly installed?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Do any sedimentation BMPs require repair or to be cleaned out?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any sediment leaving the excavation area (yards)?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of erosion on cuts?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>
All look good - repaired last Thurs. - No work since

Inspected by: YOR Ruz Title: HSS Date: 11-5-12

## HURLEY SOILS REMEDIAL ACTION

### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection                       Inspection before long weekends or down time  
 Rainfall Event Inspection                  Rainfall: 0 Inches

Yes	No	Does Not Apply	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are all <u>runoff</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Do any sedimentation BMPs require repair or to be cleaned out?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any sediment leaving the excavation area (yards)?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of erosion on cuts?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>
<i>Crew making minor silt fence repairs before</i>
<i>end of day</i>

Inspected by: *Yosh Mroz*                      Title: *HSS*                      Date: *11-8-12*

## HURLEY SOILS REMEDIAL ACTION

### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection       Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: 0 Inches

Yes	No	Does Not Apply	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are all <u>runoff</u> BMPs properly located and properly installed?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Do any sedimentation BMPs require repair or to be cleaned out?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any sediment leaving the excavation area (yards)?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of erosion on cuts?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>
well prepped for 3 day weekend. Silt fence
repaired.

Inspected by: YOE Moy      Title: ASS      Date: 11-15-12

## HURLEY SOILS REMEDIAL ACTION

### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection      ( ) Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: \_\_\_\_\_ Inches

Yes	No	Does Not Apply	
( )	( )	<input checked="" type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	( )	( )	Are all <u>runoff</u> BMPs properly located and properly installed?
( )	<input checked="" type="checkbox"/>	( )	Do any sedimentation BMPs require repair or to be cleaned out?
( )	<input checked="" type="checkbox"/>	( )	Is there any sediment leaving the excavation area (yards)?
( )	<input checked="" type="checkbox"/>	( )	Is there any evidence of erosion on cuts?
( )	<input checked="" type="checkbox"/>	( )	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
( )	<input checked="" type="checkbox"/>	( )	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>
<i>Beginning of week inspection - all looks good</i>

Inspected by: *Yael Royce*      Title: *HSS*      Date: *11-19-12*

## MURLEY SOILS REMEDIAL ACTION

### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection       Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: \_\_\_\_\_ Inches

Yes	No	Does Not Apply	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are all <u>runoff</u> BMPs properly located and properly installed?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Do any sedimentation BMPs require repair or to be cleaned out?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any sediment leaving the excavation area (yards)?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of erosion on cuts?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>
- crew repaired section of silt fence that was run over
- minor repairs in prep for 4-day Thanksgiving weekend

Inspected by:

Yael Roy

Title:

HSS

Date:

11-21-12

11-26-12

HURLEY SOILS REMEDIAL ACTION

A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

(x) Bi-weekly Inspection ( ) Inspection before long weekends or down time  
( ) Rainfall Event Inspection Rainfall: \_\_\_\_\_ Inches

Yes	No	Does Not Apply	
( )	( )	(x)	Are all <u>run-on</u> BMPs properly located and properly installed?
(x)	( )	( )	Are all <u>runoff</u> BMPs properly located and properly installed?
( )	(x)	( )	Do any sedimentation BMPs require repair or to be cleaned out?
( )	(x)	( )	Is there any sediment leaving the excavation area (yards)?
( )	(x)	( )	Is there any evidence of erosion on cuts?
( )	(x)	( )	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
( )	(x)	( )	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>
All OK after long Holiday weekend

Inspected by: Yael Moya Title: HSS Date: 11-26-12



HURLEY SOILS REMEDIAL ACTION

A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

( ) Bi-weekly Inspection      (X) Inspection before long weekends or down time  
 ( ) Rainfall Event Inspection      Rainfall: \_\_\_\_\_ Inches

Yes	No	Does Not Apply	
( )	( )	(X)	Are all <u>run-on</u> BMPs properly located and properly installed?
(X)	( )	( )	Are all <u>runoff</u> BMPs properly located and properly installed?
( )	(X)	( )	Do any sedimentation BMPs require repair or to be cleaned out?
( )	(X)	( )	Is there any sediment leaving the excavation area (yards)?
( )	(X)	( )	Is there any evidence of erosion on cuts?
( )	(X)	( )	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
( )	(X)	( )	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>
All OK before 3-day weekend

Inspected by: Yorey Title: HSS Date: 11-29-12

12-4-12

HURLEY SOILS REMEDIAL ACTION

A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

() Bi-weekly Inspection      ( ) Inspection before long weekends or down time  
( ) Rainfall Event Inspection      Rainfall: 0.0 inches

- | Yes                                     | No                                      | Does Not Apply                          |   |
|---|---|---|---|
| ( <input checked="" type="checkbox"/> ) | ( )                                     | ( <input checked="" type="checkbox"/> ) | Are all <u>run-on</u> BMPs properly located and properly installed?                       |
| ( <input checked="" type="checkbox"/> ) | ( )                                     | ( )                                     | Are all <u>runoff</u> BMPs properly located and properly installed?                       |
| ( )                                     | ( <input checked="" type="checkbox"/> ) | ( )                                     | Do any sedimentation BMPs require repair or to be cleaned out?                            |
| ( )                                     | ( <input checked="" type="checkbox"/> ) | ( )                                     | Is there any sediment leaving the excavation area (yards)?                                |
| ( )                                     | ( <input checked="" type="checkbox"/> ) | ( )                                     | Is there any evidence of erosion on cuts?   |
| ( )                                     | ( <input checked="" type="checkbox"/> ) | ( )                                     | Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses? |
| ( )                                     | ( <input checked="" type="checkbox"/> ) | ( )                                     | Does the Sediment Control Plan require revision?  |

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>
All BMPs look good

Inspected by: YORR Proy      Title: HSE      Date: 12-4-12

## HURLEY SOILS REMEDIAL ACTION

### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection       Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: 0.0 Inches

- | Yes                                 | No                                  | Does Not Apply                      |   |
|-------------------------------------|-------------------------------------|-------------------------------------|---|
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Are all <u>run-on</u> BMPs properly located and properly installed?                       |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | Are all <u>runoff</u> BMPs properly located and properly installed?                       |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Do any sedimentation BMPs require repair or to be cleaned out?                            |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Is there any sediment leaving the excavation area (yards)?                                |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Is there any evidence of erosion on cuts?   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses? |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Does the Sediment Control Plan require revision?  |

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>		
<i>Substantial repairs to silt fence at end of day</i>		

Inspected by: *[Signature]*      Title: *HS*      Date: *12-6-12*

12-11-12

HURLEY SOILS REMEDIAL ACTION

A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

(x) Bi-weekly Inspection ( ) Inspection before long weekends or down time  
( ) Rainfall Event Inspection Rainfall: \_\_\_\_\_ Inches

Yes	No	Does Not Apply	
( )	( )	(x)	Are all <u>run-on</u> BMPs properly located and properly installed?
(x)	( )	( )	Are all <u>runoff</u> BMPs properly located and properly installed?
( )	(x)	( )	Do any sedimentation BMPs require repair or to be cleaned out?
( )	(x)	( )	Is there any sediment leaving the excavation area (yards)?
( )	(x)	( )	Is there any evidence of erosion on cuts?
( )	(x)	( )	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
( )	(x)	( )	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>
midweek check - one repair required

Inspected by: Yorley Title: HSS Date: 12-11-12

12-17-12

HURLEY SOILS REMEDIAL ACTION

A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

( ) Bi-weekly Inspection  
( ) Rainfall Event Inspection  
*Final inspection*  
 Inspection before long weekends or down time  
Rainfall: \_\_\_\_\_ Inches

- | Yes                                 | No                                  | Does Not Apply                      |   |
|-------------------------------------|-------------------------------------|-------------------------------------|---|
| ( )                                 | ( )                                 | <input checked="" type="checkbox"/> | Are all <u>run-on</u> BMPs properly located and properly installed?                       |
| <input checked="" type="checkbox"/> | ( )                                 | ( )                                 | Are all <u>runoff</u> BMPs properly located and properly installed?                       |
| ( )                                 | <input checked="" type="checkbox"/> | ( )                                 | Do any sedimentation BMPs require repair or to be cleaned out?                            |
| ( )                                 | <input checked="" type="checkbox"/> | ( )                                 | Is there any sediment leaving the excavation area (yards)?                                |
| ( )                                 | <input checked="" type="checkbox"/> | ( )                                 | Is there any evidence of erosion on cuts?   |
| ( )                                 | <input checked="" type="checkbox"/> | ( )                                 | Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses? |
| ( )                                 | <input checked="" type="checkbox"/> | ( )                                 | Does the Sediment Control Plan require revision?  |

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>
<i>Final inspection - last day of project</i>
<i>crew making repairs around entire site</i>

Inspected by:

*York My*

Title:

*H.S.S*

Date:

*12-17-12*

## MURLEY SOILS REMEDIAL ACTION

### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection       Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: \_\_\_\_\_ Inches

Yes	No	Does Not Apply	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are all <u>runoff</u> BMPs properly located and properly installed?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Do any sedimentation BMPs require repair or to be cleaned out?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any sediment leaving the excavation area (yards)?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of erosion on cuts?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>
Completed Substantial repairs to silt fence - mostly resecuring fencing to posts and re-burying edges with soil

Inspected by: Yusef Boy      Title: Technician      Date: 12-26-12

## MURLEY SOILS REMEDIAL ACTION

### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection                       Inspection before long weekends or down time  
 Rainfall Event Inspection                  Rainfall: 2 Inches  
Snow

- | Yes                                 | No                                  | Does Not Apply                      |   |
|-------------------------------------|-------------------------------------|-------------------------------------|---|
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Are all <u>run-on</u> BMPs properly located and properly installed?                       |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | Are all <u>runoff</u> BMPs properly located and properly installed?                       |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Do any sedimentation BMPs require repair or to be cleaned out?                            |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Is there any sediment leaving the excavation area (yards)?                                |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Is there any evidence of erosion on cuts?   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses? |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Does the Sediment Control Plan require revision?  |

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>
Repaired 50' section of silt fencing east of RR tracks - otherwise, BMBs in good condition

Inspected by:	Title:	Date:
<u>Joe Roy</u>	<u>HSS</u>	<u>1/4/13</u>

## HURLEY SOILS REMEDIAL ACTION

### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection       Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: \_\_\_\_\_ Inches

Yes	No	Does Not Apply	
( )	( )	<input checked="" type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	( )	( )	Are all <u>runoff</u> BMPs properly located and properly installed?
( )	<input checked="" type="checkbox"/>	( )	Do any sedimentation BMPs require repair or to be cleaned out?
( )	<input checked="" type="checkbox"/>	( )	Is there any sediment leaving the excavation area (yards)?
( )	<input checked="" type="checkbox"/>	( )	Is there any evidence of erosion on cuts?
( )	<input checked="" type="checkbox"/>	( )	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
( )	<input checked="" type="checkbox"/>	( )	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>	<i>Just stapling it</i>
<i>Repaired 60' section of silt fence W. of RR tracks.</i>	
<i>Also repaired several downed spots along Diaz Rd. and 1 spot E. of RR tracks</i>	

Inspected by: *Yorl May*      Title: *HSS*      Date: *1-9-13*



HURLEY SOILS REMEDIAL ACTION

A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

( ) Bi-weekly Inspection      (X) Inspection before long weekends or down time  
 ( ) Rainfall Event Inspection      Rainfall: \_\_\_\_\_ Inches

Yes	No	Does Not Apply	
( )	( )	(X)	Are all <u>run-on</u> BMPs properly located and properly installed?
(X)	( )	( )	Are all <u>runoff</u> BMPs properly located and properly installed?
( )	(X)	( )	Do any sedimentation BMPs require repair or to be cleaned out?
( )	(X)	( )	Is there any sediment leaving the excavation area (yards)?
( )	(X)	( )	Is there any evidence of erosion on cuts?
( )	(X)	( )	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
( )	(X)	( )	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>
Re-stapled 70' of silt fencing along Diaz Rd.

Inspected by: YOR [Signature]

Title: LSS

Date: 1-16-13

HURLEY SOILS REMEDIAL ACTION

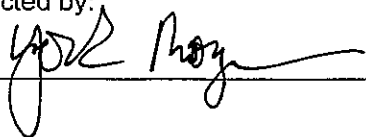
A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection       Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: \_\_\_\_\_ Inches

Yes	No	Does Not Apply	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are all <u>runoff</u> BMPs properly located and properly installed?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Do any sedimentation BMPs require repair or to be cleaned out?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any sediment leaving the excavation area (yards)?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of erosion on cuts?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>
Repaired/Replaced 60' of silt fence
on east side of Diaz Rd.

Inspected by: 

Title: HSS

Date: 1-25-13

## HURLEY SOILS REMEDIAL ACTION

### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection      ( ) Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: \_\_\_\_\_ Inches

Yes	No	Does Not Apply	
( )	( )	<input checked="" type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	( )	( )	Are all <u>runoff</u> BMPs properly located and properly installed?
( )	<input checked="" type="checkbox"/>	( )	Do any sedimentation BMPs require repair or to be cleaned out?
( )	<input checked="" type="checkbox"/>	( )	Is there any sediment leaving the excavation area (yards)?
( )	<input checked="" type="checkbox"/>	( )	Is there any evidence of erosion on cuts?
( )	<input checked="" type="checkbox"/>	( )	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
( )	<input checked="" type="checkbox"/>	( )	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>		
Re-stapled fencing along Diaz Rd. In process of amending SWPPP to include updates to BMPs. Work is pending. Recent rain & snow but no indication sediment is leaving site.		

Inspected by: Yolp May      Title: Technician      Date: 1-31-13

## HURLEY SOILS REMEDIAL ACTION

### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection       Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: \_\_\_\_\_ Inches

Yes	No	Does Not Apply	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are all <u>runoff</u> BMPs properly located and properly installed?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Do any sedimentation BMPs require repair or to be cleaned out?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any sediment leaving the excavation area (yards)?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of erosion on cuts?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>
Silt fence along Diaz Rd was in Fairly good condition. No repairs were required. No inspection along RR tracks pending BMP updates.

Inspected by: Yusef Ruy      Title: Technician      Date: 2-6-13

## HURLEY SOILS REMEDIAL ACTION

### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection       Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: \_\_\_\_\_ Inches

Yes	No	Does Not Apply	
( )	( )	( <input checked="" type="checkbox"/> )	Are all <u>run-on</u> BMPs properly located and properly installed?
( <input checked="" type="checkbox"/> )	( )	( )	Are all <u>runoff</u> BMPs properly located and properly installed?
( )	( <input checked="" type="checkbox"/> )	( )	Do any sedimentation BMPs require repair or to be cleaned out?
( )	( <input checked="" type="checkbox"/> )	( )	Is there any sediment leaving the excavation area (yards)?
( )	( <input checked="" type="checkbox"/> )	( )	Is there any evidence of erosion on cuts?
( )	( <input checked="" type="checkbox"/> )	( )	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
( )	( <input checked="" type="checkbox"/> )	( )	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>
Repaired lengthy sections of fence along Niez Rd. Met w/ Michael Sanzer (FMI Contracting) re: upcoming efforts to repair SWPPP BMPs.

Inspected by: York May                      Title: Technician                      Date: 2-14-13

## HURLEY SOILS REMEDIAL ACTION

### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection      ( ) Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: \_\_\_\_\_ Inches

Yes	No	Does Not Apply	
( )	( )	<input checked="" type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
( )	<input checked="" type="checkbox"/>	( )	Are all <u>runoff</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	( )	Do any sedimentation BMPs require <sup>yes</sup> <u>repair</u> or to be <sup>no</sup> <u>cleaned out</u> ?
( )	<input checked="" type="checkbox"/>	( )	Is there any sediment leaving the excavation area (yards)?
( )	<input checked="" type="checkbox"/>	( )	Is there any evidence of erosion on cuts?
( )	<input checked="" type="checkbox"/>	( )	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
( )	<input checked="" type="checkbox"/>	( )	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>
Repair silt fence along Dixie. Met w/ FMI Contracting & Langan Const. Upgrades to BMPs to be implemented ASAP after contract in place.

Inspected by:

Joe Mory

Title:

Technician

Date:

2-28-13

## HURLEY SOILS REMEDIAL ACTION

### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection       Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: \_\_\_\_\_ Inches

Yes	No	Does Not Apply	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Are all <u>runoff</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Do any sedimentation BMPs require repair or to be cleaned out?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any sediment leaving the excavation area (yards)?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of erosion on cuts?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does the Sediment Control Plan require revision?

- Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
- Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
- Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
- Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
- If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>		
BMP repairs & upgrades underway - Ditches installed last week look good. Straw wattles to replace silt fence later this week. Identified additional areas along boundaries that require wattles. Site visit w/ Jen Pepe (Golder) and Mike Janzer (FAI).		

Inspected by: Yvonne Morgan      Title: Technician      Date: 3-11-13

## HURLEY SOILS REMEDIAL ACTION

### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection       Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: \_\_\_\_\_ inches

Yes	No	Does Not Apply	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are all <u>runoff</u> BMPs properly located and properly installed?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Do any sedimentation BMPs require repair or to be cleaned out?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any sediment leaving the excavation area (yards)?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of erosion on cuts?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>		
Site inspection following upgrades to BMPs, including trenches for runoff controls and wattles replacing silt fence. Upgrades complete, SWPPP will be revised to show new configuration. ≈40' of trench in road near bridge requires hand shoveling to correct, will complete during next inspection.		
Inspected by:	Title:	Date:
Jen Pepe	Project Manager	3/14/13



## HURLEY SOILS REMEDIAL ACTION

### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection       Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: \_\_\_\_\_ Inches

Yes	No	Does Not Apply	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are all <u>runoff</u> BMPs properly located and properly installed?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Do any sedimentation BMPs require repair or to be cleaned out?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any sediment leaving the excavation area (yards)?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of erosion on cuts?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

OBSERVATIONS and COMMENTS:
Rocky Mtn Soil onsite - filling + seeding. No dust. Looks good.
Shoveled loose soil out of 1 ditch. Posted new
NPDES Forms @ entrances to replace weathered ones.
New wattles look good.

Inspected by: Yazir Moya      Title: Technician      Date: 3-26-13

## HURLEY SOILS REMEDIAL ACTION

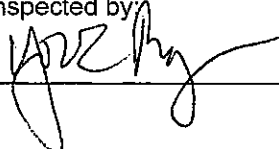
### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection       Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: \_\_\_\_\_ Inches

Yes	No	Does Not Apply	
( <input type="checkbox"/> )	( <input type="checkbox"/> )	( <input checked="" type="checkbox"/> )	Are all <u>run-on</u> BMPs properly located and properly installed?
( <input type="checkbox"/> )	( <input checked="" type="checkbox"/> )	( <input type="checkbox"/> )	Are all <u>runoff</u> BMPs properly located and properly installed?
( <input checked="" type="checkbox"/> )	( <input type="checkbox"/> )	( <input type="checkbox"/> )	Do any sedimentation BMPs require repair or to be cleaned out?
( <input type="checkbox"/> )	( <input checked="" type="checkbox"/> )	( <input type="checkbox"/> )	Is there any sediment leaving the excavation area (yards)?
( <input type="checkbox"/> )	( <input checked="" type="checkbox"/> )	( <input type="checkbox"/> )	Is there any evidence of erosion on cuts?
( <input type="checkbox"/> )	( <input checked="" type="checkbox"/> )	( <input type="checkbox"/> )	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
( <input type="checkbox"/> )	( <input checked="" type="checkbox"/> )	( <input type="checkbox"/> )	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>
Along Diaz Rd - 1 wattle stolen + 1 wattle run over. Repaired several runover areas and anchored with rocks. Took "extra" wattle from N. polygons and replaced missing one along Diaz. All else looks good.

Inspected by: <u></u>	Title: <u>Technician</u>	Date: <u>4-11-13</u>
--	--------------------------	----------------------

## HURLEY SOILS REMEDIAL ACTION

### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection       Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: \_\_\_\_\_ Inches

Yes	No	Does Not Apply	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are all <u>runoff</u> BMPs properly located and properly installed?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Do any sedimentation BMPs require repair or to be cleaned out?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any sediment leaving the excavation area (yards)?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of erosion on cuts?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>		
- Repaired straw wattle w. of RR tracks & large culvert		
- Repaired wattles east of Diaz Rd.		
- All other BMPs look good		

Inspected by:	Title:	Date:
Yusef Moya	Technician	6-10-13
Brian Archibald	Intern	6-10-13

## HURLEY SOILS REMEDIAL ACTION

### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection                       Inspection before long weekends or down time  
 Rainfall Event Inspection                  Rainfall: \_\_\_\_\_ Inches

Yes	No	Does Not Apply	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are all <u>runoff</u> BMPs properly located and properly installed?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Do any sedimentation BMPs require repair or to be cleaned out?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any sediment leaving the excavation area (yards)?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of erosion on cuts?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>
<i>Repaired straw wattles on East side of Diaz Rd.</i>
<i>All other BMPs look good</i>

Inspected by:

Title:

Date:

Brian Archibald

Intern

6-24-13

## HURLEY SOILS REMEDIAL ACTION

### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection                       Inspection before long weekends or down time  
 Rainfall Event Inspection                  Rainfall: \_\_\_\_\_ Inches

Yes	No	Does Not Apply	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are all <u>runoff</u> BMPs properly located and properly installed?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Do any sedimentation BMPs require repair or to be cleaned out?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any sediment leaving the excavation area (yards)?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of erosion on cuts?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>
<i>Repaired BMPs along Diaz Road</i>

Inspected by:

*Brian Archibald*

Title:

*Intern*

Date:

*7-2-13*

## HURLEY SOILS REMEDIAL ACTION

### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection       Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: \_\_\_\_\_ Inches

Yes	No	Does Not Apply	
( )	( )	<input checked="" type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	( )	( )	Are all <u>runoff</u> BMPs properly located and properly installed?
( )	<input checked="" type="checkbox"/>	( )	Do any sedimentation BMPs require repair or to be cleaned out?
( )	<input checked="" type="checkbox"/>	( )	Is there any sediment leaving the excavation area (yards)?
( )	<input checked="" type="checkbox"/>	( )	Is there any evidence of erosion on cuts?
( )	<input checked="" type="checkbox"/>	( )	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
( )	<input checked="" type="checkbox"/>	( )	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>
<i>Repaired BMPs along Diaz Rd. All other BMPs look good</i>

Inspected by:

*Brian Archibald*

Title:

*Intern*

Date:

*7-8-13*

## HURLEY SOILS REMEDIAL ACTION

### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection       Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: \_\_\_\_\_ Inches

Yes	No	Does Not Apply	
( <input type="checkbox"/> )	( <input type="checkbox"/> )	( <input checked="" type="checkbox"/> )	Are all <u>run-on</u> BMPs properly located and properly installed?
( <input checked="" type="checkbox"/> )	( <input type="checkbox"/> )	( <input type="checkbox"/> )	Are all <u>runoff</u> BMPs properly located and properly installed?
( <input checked="" type="checkbox"/> )	( <input type="checkbox"/> )	( <input type="checkbox"/> )	Do any sedimentation BMPs require repair or to be cleaned out?
( <input type="checkbox"/> )	( <input checked="" type="checkbox"/> )	( <input type="checkbox"/> )	Is there any sediment leaving the excavation area (yards)?
( <input checked="" type="checkbox"/> )	( <input type="checkbox"/> )	( <input type="checkbox"/> )	Is there any evidence of erosion on cuts?
( <input type="checkbox"/> )	( <input checked="" type="checkbox"/> )	( <input type="checkbox"/> )	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
( <input type="checkbox"/> )	( <input checked="" type="checkbox"/> )	( <input type="checkbox"/> )	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>
Repaired BMPs along Digg road. There are a few small openings along drainage ditch along railroad tracks that should be repaired.

Inspected by:

Brian Archibald

Title:

Intern

Date:

7-22-13

HURLEY SOILS REMEDIAL ACTION

A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection       Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: .95 Inches

Yes	No	Does Not Apply	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are all <u>runoff</u> BMPs properly located and properly installed?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Do any sedimentation BMPs require repair or to be cleaned out?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any sediment leaving the excavation area (yards)?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of erosion on cuts?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>
<i>All BMPs look good</i>

Inspected by: Brian Archibald      Title: Intern      Date: 7-25-13



HURLEY SOILS REMEDIAL ACTION

A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection       Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: 0.5 Inches

Yes	No	Does Not Apply	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are all <u>runoff</u> BMPs properly located and properly installed?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Do any sedimentation BMPs require repair or to be cleaned out?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any sediment leaving the excavation area (yards)?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of erosion on cuts?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>
<i>All BMPs look good</i>

Inspected by: Brian Archibald      Title: Intern      Date: 7-29-13

## HURLEY SOILS REMEDIAL ACTION

### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection                       Inspection before long weekends or down time  
 Rainfall Event Inspection                  Rainfall: \_\_\_\_\_ inches

Yes	No	Does Not Apply	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are all <u>runoff</u> BMPs properly located and properly installed?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Do any sedimentation BMPs require repair or to be cleaned out?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any sediment leaving the excavation area (yards)?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of erosion on cuts?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>
<i>Repaired straw wattle along RR tracks. All other BMPs look good</i>

Inspected by:

*Brian Archibald*

Title:

*Intern*

Date:

*8-5-13*

## HURLEY SOILS REMEDIAL ACTION

### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection      ( ) Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: \_\_\_\_\_ inches

Yes	No	Does Not Apply	
( )	( )	<input checked="" type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	( )	( )	Are all <u>runoff</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	( )	( )	Do any sedimentation BMPs require repair or to be cleaned out?
( )	<input checked="" type="checkbox"/>	( )	Is there any sediment leaving the excavation area (yards)?
( )	<input checked="" type="checkbox"/>	( )	Is there any evidence of erosion on cuts?
( )	<input checked="" type="checkbox"/>	( )	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
( )	<input checked="" type="checkbox"/>	( )	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

OBSERVATIONS and COMMENTS:
Repaired Wattle on E. side of Diaz Rd.
*Sediment is also starting to bury straw wattle on a short section of Diaz Rd. *

Inspected by: KARIN GARRETT      Title: Intern      Date: 8/20/13

HURLEY SOILS REMEDIAL ACTION

A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection       Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: \_\_\_\_\_ inches

Yes	No	Does Not Apply	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Are all <u>runoff</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Do any sedimentation BMPs require repair or to be cleaned out?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is there any sediment leaving the excavation area (yards)?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of erosion on cuts?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

**OBSERVATIONS and COMMENTS:**  
 Installed 5 bales of straw bales at N. Hurley Rd to prevent run-off from access road. Secured wattles in multiple locations. Shovel sediment (minimal) from road and from around BMPs where it has accumulated recently. BMPs properly located, repaired, and cleaned out upon departure. No sediment on roads

Inspected by:

Title:

Date:

Yusef Progen

Technician

8-28-13

## HURLEY SOILS REMEDIAL ACTION

### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly inspection       Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: 1.5 Inches

	Yes	No	Does Not Apply	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are all <u>runoff</u> BMPs properly located and properly installed?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Do any sedimentation BMPs require repair or to be cleaned out?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is there any sediment leaving the excavation area (yards)?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of erosion on cuts?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>
Heavy rains recently have spurred very good plant growth. Surface >80% covered in most areas. BMPs in good condition. Hay bales working well. Minimal repairs required.

Inspected by: *J. P. Roy*      Title: *Technician*      Date: *9-10-13*

HURLEY SOILS REMEDIAL ACTION

A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

( ) Bi-weekly Inspection                      ( ) Inspection before long weekends or down time  
 Rainfall Event Inspection              Rainfall: 1.08 Inches

Yes	No	Does Not Apply	
( )	( )	<input checked="" type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
( )	<input checked="" type="checkbox"/>	( )	Are all <u>runoff</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	( )	( )	Do any sedimentation BMPs require repair or to be cleaned out?
<input checked="" type="checkbox"/>	( )	( )	Is there any sediment leaving the excavation area (yards)?
<input checked="" type="checkbox"/>	( )	( )	Is there any evidence of erosion on cuts?
<input checked="" type="checkbox"/>	( )	( )	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
( )	<input checked="" type="checkbox"/>	( )	Does the Sediment Control Plan require revision?

- Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
- Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
- Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
- Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
- If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

**OBSERVATIONS and COMMENTS:**  
 Repaired 1 Wattle near the Gate of hay Near the access Road. Wattle repair on Diaz and held by the water tanks  
 Shoveled Sediment from the Road. Repaired some run off V ditched along west of the Rail road tracks where the V Ditches failed (Repaired with the Rocks)

Inspected by: [Signature] Title: Technician Date: 9-12-13

## HURLEY SOILS REMEDIAL ACTION

### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection       Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: 1.89 Inches

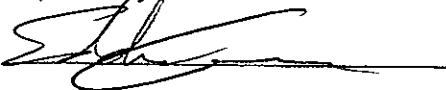
Yes	No	Does Not Apply	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Are all <u>runoff</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Do any sedimentation BMPs require repair or to be cleaned out?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any sediment leaving the excavation area (yards)?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of erosion on cuts?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does the Sediment Control Plan require revision?

- Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
- Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
- Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
- Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
- If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

**OBSERVATIONS and COMMENTS:**

- Repaired Wattle east side of Da - Rd  
 Looks Like ATV Tracks on Wattles  
 - Repaired Wattle by the Railroad Track and  
 Bridge mine Gate Rd

Inspected by:



Title:

Technician

Date:

9-13-13

HURLEY SOILS REMEDIAL ACTION

A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly inspection  
 Rainfall Event Inspection

Inspection before long weekends or down time  
 Rainfall: 7.3 inches *last week*  
*Following inspection*

Yes	No	Does Not Apply	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Are all <u>runoff</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Do any sedimentation BMPs require repair or to be cleaned out?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any sediment leaving the excavation area (yards)?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of erosion on cuts?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does the Sediment Control Plan require revision?

- Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
- Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
- Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
- Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
- If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

**OBSERVATIONS and COMMENTS:**

Cleaned out sediment from Hay bales and wattle along Dixz. Repositioned wattle that had blown out and secured it with new stakes.

Inspected by: Yolc Morgan Title: Technician Date: 9-16-13



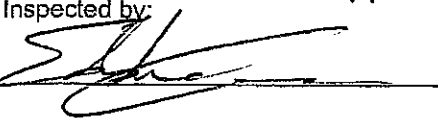
HURLEY SOILS REMEDIAL ACTION

A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

( ) Bi-weekly Inspection ( ) Inspection before long weekends or down time  
 (x) Rainfall Event Inspection Rainfall: 1.0 inches

Yes	No	Does Not Apply	
( )	( )	(x)	Are all <u>run-on</u> BMPs properly located and properly installed?
(x)	( )	( )	Are all <u>runoff</u> BMPs properly located and properly installed?
(x)	( )	( )	Do any sedimentation BMPs require repair or to be cleaned out?
(x)	( )	( )	Is there any sediment leaving the excavation area (yards)?
(x)	( )	( )	Is there any evidence of erosion on cuts?
( )	(x)	( )	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
( )	(x)	( )	Does the Sediment Control Plan require revision?

- Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
- Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
- Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
- Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
- If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>		
Repaired all ditch on the W side of the tracks with some run off, Repaired with rocks.		
We had (2) Ditch on the E side of the tracks tail. Repaired with rocks. Hay bales have sediment built up behind them 1/2 to 3/4 up.		
Inspected by:	Title:	Date:
	Technician	9/23/13

## HURLEY SOILS REMEDIAL ACTION

### A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

<sup>Monthly</sup> Bi-weekly Inspection      ( ) Inspection before long weekends or down time  
 Rainfall Event Inspection      Rainfall: \_\_\_\_\_ Inches

Yes	No	Does Not Apply	
( )	( )	<input checked="" type="checkbox"/>	Are all <u>run-on</u> BMPs properly located and properly installed?
( )	<input checked="" type="checkbox"/>	( )	Are all <u>runoff</u> BMPs properly located and properly installed?
<input checked="" type="checkbox"/>	( )	( )	Do any sedimentation BMPs require repair or to be cleaned out?
( )	<input checked="" type="checkbox"/>	( )	Is there any sediment leaving the excavation area (yards)?
<input checked="" type="checkbox"/>	( )	( )	Is there any evidence of erosion on cuts?
( )	<input checked="" type="checkbox"/>	( )	Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses?
( )	<input checked="" type="checkbox"/>	( )	Does the Sediment Control Plan require revision?

1. Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
2. Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
3. Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
4. Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
5. If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

<b>OBSERVATIONS and COMMENTS:</b>
Extensive repairs to ditches, berms, & wattles along Diaz & W. of RR tracks. New Blue Stake. New stakes in wattles.

Inspected by: Y. P. Boy

Title: Technician

Date: 10-24-13

HURLEY SOILS REMEDIAL ACTION

A SEDIMENT CONTROL PLAN INSPECTION AND MAINTENANCE RECORD

Bi-weekly Inspection  
 Rainfall Event Inspection

Inspection before long weekends or down time  
 Rainfall: 0.67 Inches on 11-16-13

- | Yes                                 | No                                  | Does Not Apply                      |   |
|-------------------------------------|-------------------------------------|-------------------------------------|---|
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Are all <u>run-on</u> BMPs properly located and properly installed?                       |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | Are all <u>runoff</u> BMPs properly located and properly installed?                       |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Do any sedimentation BMPs require repair or to be cleaned out?                            |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Is there any sediment leaving the excavation area (yards)?                                |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Is there any evidence of erosion on cuts?   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Is there any evidence of sediment, debris, or mud on public roadways or roadway accesses? |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Does the Sediment Control Plan require revision?  |

- Inspections to be performed (1) bi-weekly, (2) immediately before holidays or any down time greater than a normal weekend, and (3) within 24 hours of a rainfall of 0.50-inch or greater.
- Inspect storm water drainage areas for evidence of pollutants entering the drainage systems.
- Evaluate the effectiveness of controls and BMP (good housekeeping activities, preventive maintenance practices, etc.).
- Observe structural measures, sediment controls, vegetative cover, and other stormwater BMP to ensure proper function or proper condition.
- If a "Yes" answer was checked to any of the above questions, explain necessary actions or plan revisions. Revise the plan as needed within 1 week of inspection and implement any necessary physical changes within 1 week of inspection (attach additional sheet if necessary).

**OBSERVATIONS and COMMENTS:**

All BMPs look good. Repaired one water along Diaz that was disturbed by a ATV.

Inspected by:

Eddie Garcia

Title:

Field Tech

Date:

11-20-13

Company: Golder Associates Inc.  
ATTN: Jen Pepe  
301 W. College Ave Suite 8  
Silver City NM 88061

Facility: Hurley Railroad IRA  
Diaz Road  
Hurley NM 88043

Permit Tracking Number: NMR12AB25

This email acknowledges that a complete Notice of Termination (NOT) form for NOI Tracking Number NMR12AB25 covered under EPA's Construction General Permit (CGP) has been processed and the NOI is now terminated. Your NOT was completed and submitted on 11/03/2014.

If you have general questions regarding the stormwater program or your responsibilities under the CGP, please call your region contact. Regional contact email and phone number can be found at: <http://cfpub.epa.gov/npdes/contacts.cfm>

If you have questions about your NOI form, please call the EPA NOI Processing Center at 1-866-352-7755 (toll free) or send an inquiry via the online form at: <http://cfpub.epa.gov/npdes/noicontact.cfm>

If you have difficulty accessing CDX, please contact the CDX Help Desk at: (888) 890-1995.

You can return to the eNOI system using the following link at any time  
<https://cdx.epa.gov/SSL/cdx/login.asp>.

EPA NOI Processing Center  
Operated by Avanti Corporation  
1200 Pennsylvania Ave., NW  
Mail Code: 4203M  
Washington, DC 20460  
1-866-352-7755



Submission of this Notice of Termination constitutes notice that the operator identified in Section II of this form is no longer authorized discharge pursuant to the NPDES Construction General Permit (CGP) from the site identified in Section III of this form. All necessary information must be included on this form. Refer to the instructions at the end of this form.

**I. Approval to Use Paper NOI Form**

Have you been given approval from the Regional Office to use this paper NOT form\*?  Yes  NO

\* Note: You must have been given approval by the Regional Office prior to using this paper NOT form.

**II. Permit Information:**

NPDES Stormwater General Permit Tracking Number: NMR12AB25

Reason for Termination (Check only one):

- Another operator has assumed control over all areas of the site and that operator has submitted an NOI and obtained coverage under the CGP.
- You have completed earth-disturbing activities at your site, and you have met all other requirements in Part 8.2.1.
- You have obtained coverage under an individual permit or another general NPDES permit addressing stormwater discharges from the construction site.

**III. Operator Information**

Name: Golder Associates Inc.

IRS Employer Identification Number (EIN): 58-1401091

Mailing Address:

Street: 301 W. College Ave Suite 8

City: Silver City

State: NM

Zip: 88061

Phone: 575-388-0118

Fax (Optional): 575-388-0120

Email: jpepe@golder.com

**IV. Project/Site Information**

Project/Site Name: Hurley Railroad IRA

Project/Site Address:

Street:

City: Hurley

State: NM

Zip: 88043

County or similar government subdivision: Grant

**V. Certification Information**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

First Name, Middle Initial, Last Name: John Purcell

Title:

Signature:

Date: Friday, August 17, 2012

E-mail: jpurcell@golder.com



Submission of this Notice of Intent (NOI) constitutes notice that the operator identified in Section II of this form requests authorization to discharge pursuant to the NPDES Construction General Permit (CGP) permit number identified in Section I of this form. Submission of this NOI also constitutes notice that the operator identified in Section II of this form meets the eligibility requirements of Parts 1.1 and 1.2 of the CGP for the project identified in Section III of this form. Permit coverage is required prior to commencement of construction activity until you are eligible to terminate coverage as detailed in Part 8 of the CGP. To obtain authorization, you must submit a complete and accurate NOI form. Discharges are not authorized if your NOI is incomplete or inaccurate or if you were never eligible for permit coverage. Refer to the instructions at the end of this form.

**I. Approval to Use Paper NOI Form**

Have you been given approval from the Regional Office to use this paper NOI form\*?  Yes  NO

If yes, provide the reason you need to use this paper form, the name of the EPA Regional Office staff person who approved your use of this form, and the date of approval:

Reason for using paper form:

Name of EPA staff person:

Date approval obtained:

**\* Note: You are required to obtain approval from the applicable Regional Office prior to using this paper NOI form.**

**II. Permit Information:**

**Tracking Number (EPA Use Only) NMR12AB25**

Permit Number: NMR120000

(see Appendix B of the CGP for the list of eligible permit numbers)

**III. Operator Information**

Name: Golder Associates Inc.

Phone: 575-388-0118

Fax (Optional): 575-388-0120

Email: jpepe@golder.com

IRS Employer Identification Number (EIN): 58-1401091

Point of Contact (First Name, Middle Initial, Last Name): Jen Pepe

Mailing Address:

Street: 301 W. College Ave Suite 8

City: Silver City

State: NM

Zip: 88061

**NOI Preparer (Complete if NOI was prepared by someone other than the certifier):**

Prepared by (First Name, Middle Initial, Last Name): John Purcell

Organization: Golder Associates Inc

Phone:

Fax (Optional):

E-mail: jpurcell@golder.com

**IV. Project/Site Information**

Project/Site Name: Hurley Railroad IRA

**Project/Site Address:**

Street/Location:

City: Hurley

State: NM

Zip: 88043

County or similar government subdivision: Grant

**For the project/site for which you are seeking permit coverage, provide the following information:**

Latitude/Longitude (Use one of three possible formats, and specify method)

Latitude 1. _____	N(degrees, minutes, seconds)	Longitude 1. _____	W(degrees, minutes, seconds)
2. _____	N(degrees, minutes, decimal)	2. _____	W(degrees, minutes, decimal)
3. _____	N(degrees, decimals)	3. _____	W(degrees, decimals)

Latitude/Longitude Data Source:  U.S.G.S topographical map  EPA Web Site  GPS  Other: \_\_\_\_\_

If you used a U.S.G.S. topographic map, what was the scale?

Horizontal Reference Datum:  NAD 27  NAD 83 or WGS 84  Unknown

Is your project located in Indian Country lands?  Yes  No

If yes, provide the name of the Indian tribe associated with the area of Indian country (including name of Indian reservation, if applicable), or if not in Indian country, provide the name of the Indian tribe associated with the property:

Are you requesting coverage under this NOI as a "federal operator" as defined in Appendix A?  Yes  No

Estimated Project Start Date: 08/27/2012 Estimated Project Completion Date: 10/19/2012

Estimated Area to be Disturbed (to the nearest quarter acre): 32.0

Have earth-disturbing activities commenced on your project/site?  Yes  No

If yes, is your project an emergency-related project?  Yes  No

Have stormwater discharges from your project/site been covered previously under an NPDES permit?  Yes  No

If yes, provide the Tracking Number if you had coverage under EPA's CGP or the NPDES permit number if you had coverage under an EPA individual permit:

**V. Discharge Information**

Does your project/site discharge stormwater into a Municipal Separate Storm Sewer System (MS4)?  Yes  No

Are there any surface waters within 50 feet of your project's earth disturbances?  Yes  No

**Receiving Waters and Wetlands Information: (Attach a separate list if necessary)**

Surface water(s) to which discharge	Impaired Water	Listed Water Pollutant(s)	Tier 2, 2.5 or 3	Source	TMDL Name and Pollutant
-------------------------------------	----------------	---------------------------	------------------	--------	-------------------------

Describe the methods you used to complete the above table: Please refer to the Source(s) in the above table.

**VI. Chemical Treatment Information**

Will you use polymers, flocculants, or other treatment chemicals at your construction site?  Yes  No

If yes, will you use cationic treatment chemicals\* at your construction site?  Yes  No

If yes, have you been authorized to use cationic treatment chemicals by your applicable EPA Regional Office in advance of filing your NOI\*?  Yes  No

If you have been authorized to use cationic treatment chemicals by your applicable EPA Regional Office, attach a copy of your authorization letter and include documentation of the appropriate controls and implementation procedures designed to ensure that your use of cationic treatment chemicals will not lead to a violation of water quality standards.

Please indicate the treatment chemicals that you will use:

\* Note: You are ineligible for coverage under this permit unless you notify your applicable EPA Regional Office in advance and the EPA office authorizes coverage under this permit after you have included appropriate controls and implementation procedures designed to ensure that your use of cationic treatment chemicals will not lead to a violation of water quality standards.

### VII. Stormwater Pollution Prevention Plan (SWPPP) Information

Has the SWPPP been prepared in advance of filing this NOI?  Yes  No

#### SWPPP Contact Information:

First Name, Middle Initial, Last Name: Steve Bounds

Organization: TIPE Construction

Phone: 575-537-0186

Fax (Optional):

E-mail: admin@tipeconst.com

### VIII. Endangered Species Protection

Using the instructions in Appendix D of the CGP, under which criterion listed in Appendix D are you eligible for coverage under this permit (only check 1 box)?

A  B  C  D  E  F

Provide a brief summary of the basis for criterion selection listed in Appendix D (e.g., communication with U.S. Fish and Wildlife Service or National Marine Fisheries Service, specific study): WestLand Resources, Inc. - Draft Biological Evaluation in Support of Endangered Species Act (ESA) Certification Multi-Sector General permit (MSGP) - 2000 Chino Mines Company

If you select criterion B, provide the Tracking Number from the other operator's notification of authorization under this permit: NMR05A945

If you select criterion C, you must attach a copy of your site map (see Part 7.2.6 of the permit), and you must answer the following questions:

What federally-listed species or federally-designated critical habitat are located in your "action area":

What is the distance between your site and the listed species or critical habitat (miles):

If you select criterion D, E, or F, attach copies of any letters or other communications between you and the U.S. Fish and Wildlife Service or National Marine Fisheries Service.

### IX. Historic Preservation

Is your project/site located on a property of religious or cultural significance to an Indian tribe?  Yes  No

If yes, provide the name of the Indian tribe associated with the property:

Are you installing any stormwater controls as described in Appendix E that require subsurface earth disturbance? (Appendix E, Step 1)  Yes  No

If yes, have prior surveys or evaluations conducted on the site have already determined historic properties do not exist, or that prior disturbances have precluded the existence of historic properties? (Appendix E, Step 2)  Yes  No

If no, have you determined that your installation of subsurface earth-disturbing stormwater controls will have no effect on historic properties? (Appendix E, Step 3)  Yes  No

If no, did the SHPO, THPO, or other tribal representative (whichever applies) respond to you within the 15 calendar days to indicate whether the subsurface earth disturbances caused by the installation of stormwater controls affect historic properties? (Appendix E, Step 4)  Yes  No

If yes, describe the nature of their response:

- |                          |  |
|--------------------------|--|
| <input type="checkbox"/> | Written indication that adverse effects to historic properties from the installation of stormwater controls can be mitigated by agreed upon actions. |
| <input type="checkbox"/> | No agreement has been reached regarding measures to mitigate effects to historic properties from the installation of stormwater controls.            |
| <input type="checkbox"/> | Other: _____   |

### X. Certification Information



I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

First Name, Middle Initial, Last Name: John Purcell

Title:

Signature:

Date: Friday, August 17, 2012

E-mail: jpurcell@golder.com

**Chino Mines Co. Reclamation/Erosion Monitoring Form**

Monthly  
 Quarterly  
 1" Rain Event

Reclamation Unit: <i>Golf Course</i>	Weather Conditions: <i>Clear breezy? Cool</i>
Inspector: <i>Steve Garcia</i>	
Time/Date: <i>10:20 AM 12-11-2014</i>	
Vegetation Conditions: <i>Dry Grasses and shrubs visible.</i>	Fences/Livestock: <i>Noted that fence west of railroad track is down</i>
Ditches/Water Control: <i>No visible concerns.</i>	Significant Erosion (Attach Description): <i>Non visible</i>
Monitoring Stations: <i>None.</i>	
Other Observations: <i>None.</i>	

**Chino Mines Co. Reclamation/Erosion Monitoring Form**

Monthly  
 Quarterly  
 1" Rain Event

Reclamation Unit: <i>Golf Course.</i>	Weather Conditions: <i>Cloudy &amp; wet</i>
Inspector: <i>Steven Garcia</i>	
Time/Date: <i>1:30 PM 3-18-2015</i>	
Vegetation Conditions: <i>Dry grass and shrubs visible Some new growth also showing up through out.</i>	Fences/Livestock: <i>None.</i>
Ditches/Water Control: <i>None visible.</i>	Significant Erosion (Attach Description): <i>None visible.</i>
Monitoring Stations: <i>None</i>	
Other Observations:	

**Chino Mines Co. Reclamation/Erosion Monitoring Form**

Monthly  
 Quarterly  
 1" Rain Event

Reclamation Unit: Golf Course	Weather Conditions: <i>Clear</i>
Inspector: Steve Garcia	
Time/Date: <i>11:40 AM 6-18-2015</i>	
Vegetation Conditions: <i>Abundant new growth of GRASSES and plants.</i>	Fences/Livestock: <i>None</i>
Ditches/Water Control: <i>No visible concerns.</i>	Significant Erosion (Attach Description): <i>None visible.</i>
Monitoring Stations: <i>None.</i>	
Other Observations:	

**Chino Mines Co. Reclamation/Erosion Monitoring Form**

Monthly  
 Quarterly  
 1" Rain Event

Reclamation Unit: <i>Golf Course.</i>	Weather Conditions: <i>Clear</i>
Inspector: <i>Steven Garcia</i>	
Time/Date: <i>12:00pm 9-17-2015</i>	
Vegetation Conditions: <i>Lots of vegetation visible throughout site.</i>	Fences/Livestock: <i>None</i>
Ditches/Water Control: <i>No visible concerns.</i>	Significant Erosion (Attach Description): <i>None visible</i>
Monitoring Stations: <i>None.</i>	
Other Observations:	

**Chino Mines Co. Reclamation/Erosion Monitoring Form**

Monthly  
 Quarterly  
 1" Rain Event

Reclamation Unit: <i>Golf Course</i>	Weather Conditions:
Inspector: <i>Steven Garcia</i>	
Time/Date: <i>11:15 12-22-2015</i>	
Vegetation Conditions: <i>Abundant dry grass visible.</i>	Fences/Livestock: <i>None.</i>
Ditches/Water Control: <i>No visible concerns.</i>	Significant Erosion (Attach Description): <i>None visible.</i>
Monitoring Stations: <i>None.</i>	
Other Observations: <i>None.</i>	

**Chino Mines Co. Reclamation/Erosion Monitoring Form**

Monthly  
 Quarterly  
 1" Rain Event

Reclamation Unit: <i>Golf Course Hurley Railroad.</i>		Weather Conditions: <del>Clear</del> <i>Clear, dry</i>	
Inspector: <i>Steven M. Garcia</i>			
Time/Date: <i>12:15 3-24-2016</i>			
Vegetation Conditions: <i>Abundant Dry grass and shrubs visible throughout site. Green vegetation also visible.</i>		Fences/Livestock: <i>None</i>	
Ditches/Water Control: <i>No visible concerns.</i>		Significant Erosion (Attach Description): <i>None visible.</i>	
Monitoring Stations: <i>None.</i>			
Other Observations: <i>None.</i>			

**Chino Mines Co. Reclamation/Erosion Monitoring Form**

Monthly  
 Quarterly  
 1" Rain Event

Reclamation Unit: <i>Golfcourse RA/Road Areas</i>	Weather Conditions: <i>Cloudy</i>
Inspector: <i>Steve Garcia</i>	
Time/Date: <i>2:00pm 6-28-2016</i>	
Vegetation Conditions: <i>Lots of dry grass and other vegetation visible. As well as new growth.</i>	Fences/Livestock: <i>None.</i>
Ditches/Water Control: <i>No visible concerns.</i>	Significant Erosion (Attach Description): <i>None visible</i>
Monitoring Stations:  <i>None.</i>	
Other Observations: <i>Noticed tire tracks on plot North of overpass (144180).</i>	



Chino Mines Co. Reclamation/Erosion Monitoring Form

Monthly  
 Quarterly  
 1" Rain Event

Site inspected with DAVID MERCER NMED

Reclamation Unit: <b>GOLF COURSE</b>	Weather Conditions: <b>Cloudy Cool</b>
Inspector: <b>Steven GARCIA Pam Pierson</b>	
Time/Date: <b>10:45 AM 9/27/2016</b>	
Vegetation Conditions: <b>Lots of grass visible along with some shrubs.</b>	Fences/Livestock: <b>Cows grazing on old portion of Golf Course</b>
Ditches/Water Control: <b>No visible concerns.</b>	Significant Erosion (Attach Description): <b>None noted.</b>
Monitoring Stations: <b>None.</b>	
Other Observations:	

**Chino Mines Co. Reclamation/Erosion Monitoring Form**

Monthly  
 Quarterly  
 1" Rain Event

Reclamation Unit: <i>Gold Course Rail Road</i>	Weather Conditions: <i>Partly Cloudy</i>
Inspector: <i>Steve Garcia / Pam Pinson</i>	
Time/Date: <i>2:00 PM 12-8-2016</i>	
Vegetation Conditions: <i>Abundant dry grass and other plants, shrubs visible</i>	Fences/Livestock: <i>Fence down</i>
Ditches/Water Control: <i>berm on west side of road along fence washed out in a few places.</i>	Significant Erosion (Attach Description): <i>None Noted</i>
Monitoring Stations: <i>None.</i>	
Other Observations:	

**Chino Mines Co. Reclamation/Erosion Monitoring Form**

Monthly  
 Quarterly  
 1" Rain Event

Reclamation Unit: <i>Golf Course Rail Road Area</i>	Weather Conditions: <i>Clear, warm</i>
Inspector: <i>Steven M. Garcia</i>	
Time/Date: <i>10:20 3-9-2017</i>	
Vegetation Conditions: <i>Abundant dry grass visible throughout site, along with other vegetation</i>	Fences/Livestock: <i>Fence, west side of tracks in need of rebuild. down through most of its length</i>
Ditches/Water Control: <i>Some washout visible on Road west of tracks.</i>	Significant Erosion (Attach Description): <i>None visible.</i>
Monitoring Stations:  <i>None.</i>	
Other Observations:	

**Chino Mines Co. Reclamation/Erosion Monitoring Form**

Monthly  
 Quarterly  
 1" Rain Event

Reclamation Unit: <i>Golf Course Rail Road Area</i>	Weather Conditions: <i>Partly Cloudy Hot</i>
Inspector: <i>Steven M. Garcia</i>	
Time/Date: <i>11:30 AM 6-23-2017</i>	
Vegetation Conditions: <i>Green vegetation and dry grass visible through outside.</i>	Fences/Livestock: <i>None.</i>
Ditches/Water Control: <i>No visible concerns.</i>	Significant Erosion (Attach Description): <i>None visible.</i>
Monitoring Stations: <i>None.</i>	
Other Observations: <i>None.</i>	

**Chino Mines Co. Reclamation/Erosion Monitoring Form**

Monthly  
 Quarterly  
 1" Rain Event

Reclamation Unit: <i>Golf Course Rail Road Area</i>	Weather Conditions: <i>Cloudy &amp; Cool</i>
Inspector: <i>Steven M. Garcia</i>	
Time/Date: <i>1:50 PM 12-5-2017</i>	
Vegetation Conditions: <i>Dry grass visible throughout                  some green vegetation,                  sunflowers in bloom noted on                  site.</i>	Fences/Livestock: <i>None.</i>
Ditches/Water Control: <i>No visible concerns.</i>	Significant Erosion (Attach Description): <i>None visible.</i>
Monitoring Stations: <i>None.</i>	
Other Observations:	

Chino Mines Co. Reclamation/Erosion Monitoring Form

Monthly  
 Quarterly  
 1" Rain Event

Reclamation Unit: Golf Course RR IRA Area	Weather Conditions: Windy, overcast
Inspector: Pam Pinson	
Time/Date: 2:30 pm 7-27-17	
Vegetation Conditions: Good grasses & shrubs	Fences/Livestock: NA
Ditches/Water Control: BMP's on west side of tracks need reset.	Significant Erosion (Attach Description): Not an issue across IRA areas.
Monitoring Stations: NA	
Other Observations: 5 yr quantitative survey will be performed for IRA Area in October or as early as late Sept.	

**APPENDIX C**

# Quadrat Data Summaries

Table C-1: Canopy Cover Summary

FORM	SPECIES CODE <sup>1</sup>	TRANSECT 3				TRANSECT 8				TRANSECT 9				TRANSECT 25				TRANSECT 26			
		Q-1	Q-2	Q-3	Q-4	Q-1	Q-2	Q-3	Q-4	Q-1	Q-2	Q-3	Q-4	Q-1	Q-2	Q-3	Q-4	Q-1	Q-2	Q-3	Q-4
F	SOEL	0.2	--	0.9	--	--	--	--	--	--	--	--	--	--	--	--	--	3.6	--	--	--
	SPLE	0.4	1.2	--	--	--	--	--	--	--	--	--	--	--	6	--	0.3	0.6	--	2.2	--
	PEAN	--	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	0.8	--	--	--	--
	ASPA	--	2.4	--	--	--	--	--	--	--	--	--	--	--	0.3	--	--	--	--	--	--
	SEBA	--	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MAGR	--	--	30	29	--	--	--	12	--	--	8	0.3	--	--	--	--	0.7	0.4	--	--
	LOWR	--	--	--	--	0.3	--	--	6.2	--	--	--	--	1.2	--	--	--	--	--	--	--
	SATR	--	--	--	--	--	1	--	1	5.6	0.2	11.5	56	--	5.5	2.2	--	--	--	--	0.1
	MACA	--	--	--	--	--	--	--	11.8	--	--	--	--	--	--	--	--	--	--	--	--
	CHER	--	--	--	--	--	--	--	--	1.4	14.4	2.1	3.3	1.6	3.8	8.9	--	--	--	--	--
	LESQU	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.1	--	--	--	--	--	--
	CHNE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.4	--	--	--
	RACO	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.5	--	--
	SPHA	0.2	--	0.5	0.4	--	--	--	--	--	--	--	--	--	--	0.1	--	--	--	--	--
	HENA	31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BAAB	--	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
G	BOCU	34	52	8.3	19	27	--	67	29	27.8	36	20	20	18	16	13	7	72	80	66	32
	PLJA	20	--	6.4	--	8.2	6.5	6	13	--	7.4	11.5	28	29	--	--	--	--	--	5	--
	BOGR	--	3.8	--	--	32	23.2	19	5.1	4.8	9	10.5	--	12.4	--	--	6.2	9.5	3.1	14	17
	SELE	--	--	29	62	--	--	--	11	7.1	--	11.2	12.8	17	53	28	--	--	--	--	6
	SPCR	--	--	2	16	--	--	6	12	--	18	42.2	30.8	--	25	28	16	--	--	--	--
	BOIS	--	--	--	--	--	--	8	--	--	--	--	--	--	--	--	--	--	--	2.5	4.2
	LEDU	--	--	--	--	--	--	--	4	--	--	--	--	--	--	--	--	--	--	--	--
	ARDI	--	--	--	--	--	--	--	--	28	4.7	--	--	--	--	--	--	--	--	--	--
	ARPU	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12	--	--	--	--
	S	ULPU	4.2	2.8	11.5	1.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
JAGR		25	21	19	30	--	0.5	--	--	--	18	--	--	--	--	--	--	16	6	28.6	8.5
GUSA		2.5	26	25	--	--	--	--	--	--	--	--	--	9	1.5	--	45	--	--	--	--
ATCA		--	--	48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CAER		--	--	--	--	--	--	0.7	0.6	--	--	--	--	--	4	--	--	--	--	--	--
PSSC		--	--	--	--	--	--	--	--	11.5	--	--	--	--	--	--	--	--	--	--	--
MIACB		19	--	8	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
(blank)	BARE	6	3.3	1.1	<0.1	6.9	17	1.1	5.3	10	3.6	1.5	0.8	4.9	2	8.7	17	0.4	6.8	4.6	38.6
	LITTER	0.3	0.3	0.3	<0.1	1.1	1.3	7.4	0.7	7.4	2.4	0.5	0.2	1.1	<0.1	0.3	2.2	0.6	8.5	1.4	0.4
	ROCK	0.7	0.4	0.1	<0.1	26	53.7	0.5	22	1.6	11	10	5	17	9	23	5.8	18	2.2	6	13
	TOTAL	93	96	98.5	100	66	28	91	72	81	83	88	94	77	89	68	75	81	82.5	88	48

Notes:

-- = Species not observed

<sup>1</sup> See table 5 for corresponding scientific and common names



Table C-2: Basal Cover Summary

FORM	SPECIES CODE <sup>1</sup>	TRANSECT 3				TRANSECT 8				TRANSECT 9				TRANSECT 25				TRANSECT 26			
		Q-1	Q-2	Q-3	Q-4	Q-1	Q-2	Q-3	Q-4	Q-1	Q-2	Q-3	Q-4	Q-1	Q-2	Q-3	Q-4	Q-1	Q-2	Q-3	Q-4
F	SOEL	<0.1	--	<0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.1	--	--	--
	SPLE	<0.1	<0.1	--	--	--	--	--	--	--	--	--	--	--	0.2	--	<0.1	<0.1	--	<0.1	--
	PEAN	--	<0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.1	--	--	--	--
	ASPA	--	<0.1	--	--	--	--	--	--	--	--	--	--	--	<0.1	--	--	--	--	--	--
	SEBA	--	<0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MAGR	--	--	0.1	0.1	--	--	--	0.1	--	--	<0.1	<0.1	--	--	--	--	<0.1	<0.1	--	--
	LOWR	--	--	--	--	<0.1	--	--	<0.1	--	--	--	--	<0.1	--	--	--	--	--	--	--
	SATR	--	--	--	--	--	<0.1	--	<0.1	<0.1	<0.1	<0.1	0.2	--	<0.1	0.1	--	--	--	--	<0.1
	MACA	--	--	--	--	--	--	--	0.1	--	--	--	--	--	--	--	--	--	--	--	--
	CHER	--	--	--	--	--	--	--	--	<0.1	0.15	<0.1	<0.1	<0.1	0.1	0.2	--	--	--	--	--
	LESQU	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.1	--	--	--	--	--	--
	CHNE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.1	--	--	--
	RACO	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.1	--	--
	SPHA	<0.1	--	<0.1	<0.1	--	--	--	--	--	--	--	--	--	--	--	<0.1	--	--	--	--
	HENA	0.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	BAAB	--	<0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G	BOCU	2.15	2.8	0.4	1.1	1.8	--	9.7	2.7	1.3	3.5	1.5	1.2	1.5	0.55	0.6	0.4	7.5	9	5.6	1.8
	PLJA	2.4	--	1	--	0.5	0.55	0.1	2.1	--	1	1.8	1.7	2.8	--	--	--	--	--	0.3	--
	BOGR	--	0.3	--	--	2.4	2.4	2.2	0.7	<0.1	0.75	0.8	--	1.4	--	--	0.3	0.9	0.65	1.25	1.5
	SELE	--	--	2.3	3.7	--	--	--	1.65	1.2	--	0.6	2	1.9	6.3	3.4	--	--	--	--	0.7
	SPCR	--	--	<0.1	0.5	--	--	0.1	0.4	--	1.4	1.9	0.9	--	0.25	1	0.4	--	--	--	--
	BOIS	--	--	--	--	--	--	0.4	--	--	--	--	--	--	--	--	--	--	--	0.2	0.1
	LEDU	--	--	--	--	--	--	--	0.2	--	--	--	--	--	--	--	--	--	--	--	--
	ARDI	--	--	--	--	--	--	--	--	3.2	0.5	--	--	--	--	--	--	--	--	--	--
	ARPU	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.5	--	--	--	--
	S	ULPU	0.1	<0.1	0.1	<0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
JAGR		0.3	<0.1	0.2	0.1	--	<0.1	--	--	--	0.4	--	--	--	--	--	--	<0.1	<0.1	0.1	0.3
GUSA		<0.1	0.9	1	--	--	--	--	--	--	--	--	--	0.2	<0.1	--	2.9	--	--	--	--
ATCA		--	--	0.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CAER		--	--	--	--	--	--	<0.1	<0.1	--	--	--	--	--	0.1	--	--	--	--	--	--
PSSC		--	--	--	--	--	--	--	--	0.2	--	--	--	--	--	--	--	--	--	--	--
MIACB		0.3	--	0.1	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
(blank)	BARE	78	71	64	29	14.3	25.6	23	19	59.1	31	12	9.4	25	13.4	17	52	8.6	12.3	16	66
	LITTER	8	16	22.5	56.4	9	3.4	57	42.9	26	16.3	9.3	13.6	34.2	52	13.7	28.5	8.5	65	9.5	6
	ROCK	8.4	8.9	7.5	9	72	68	7.5	30	8.9	45	72	71	33	27	64	15	74.5	13	67	23.6
	TOTAL	5.6	4.1	6	5.6	4.7	3	12.5	8.1	6	7.7	6.7	6	7.8	7.6	5.3	4.5	8.4	9.7	7.5	4.4









Notes:

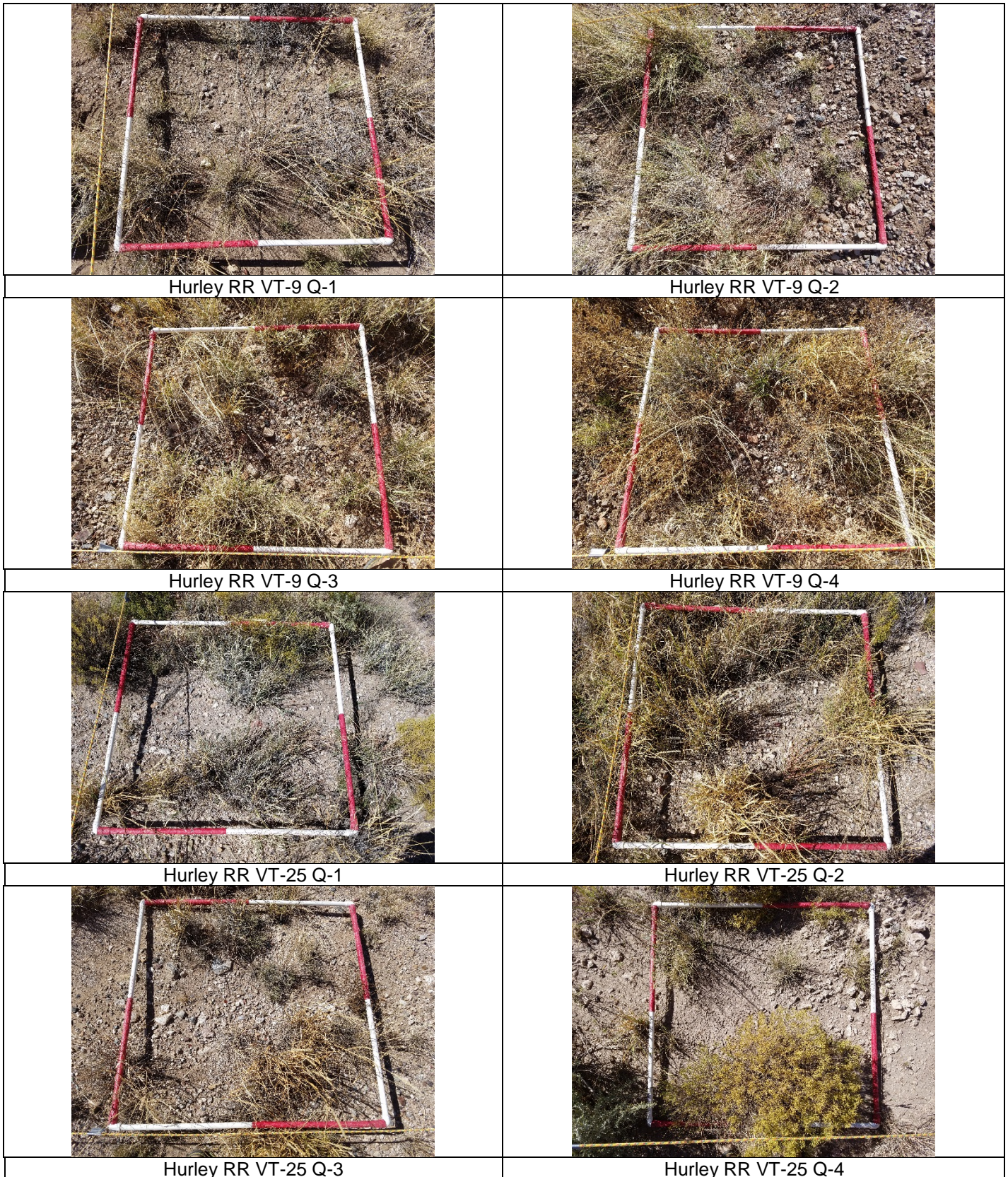
-- = Species not observed

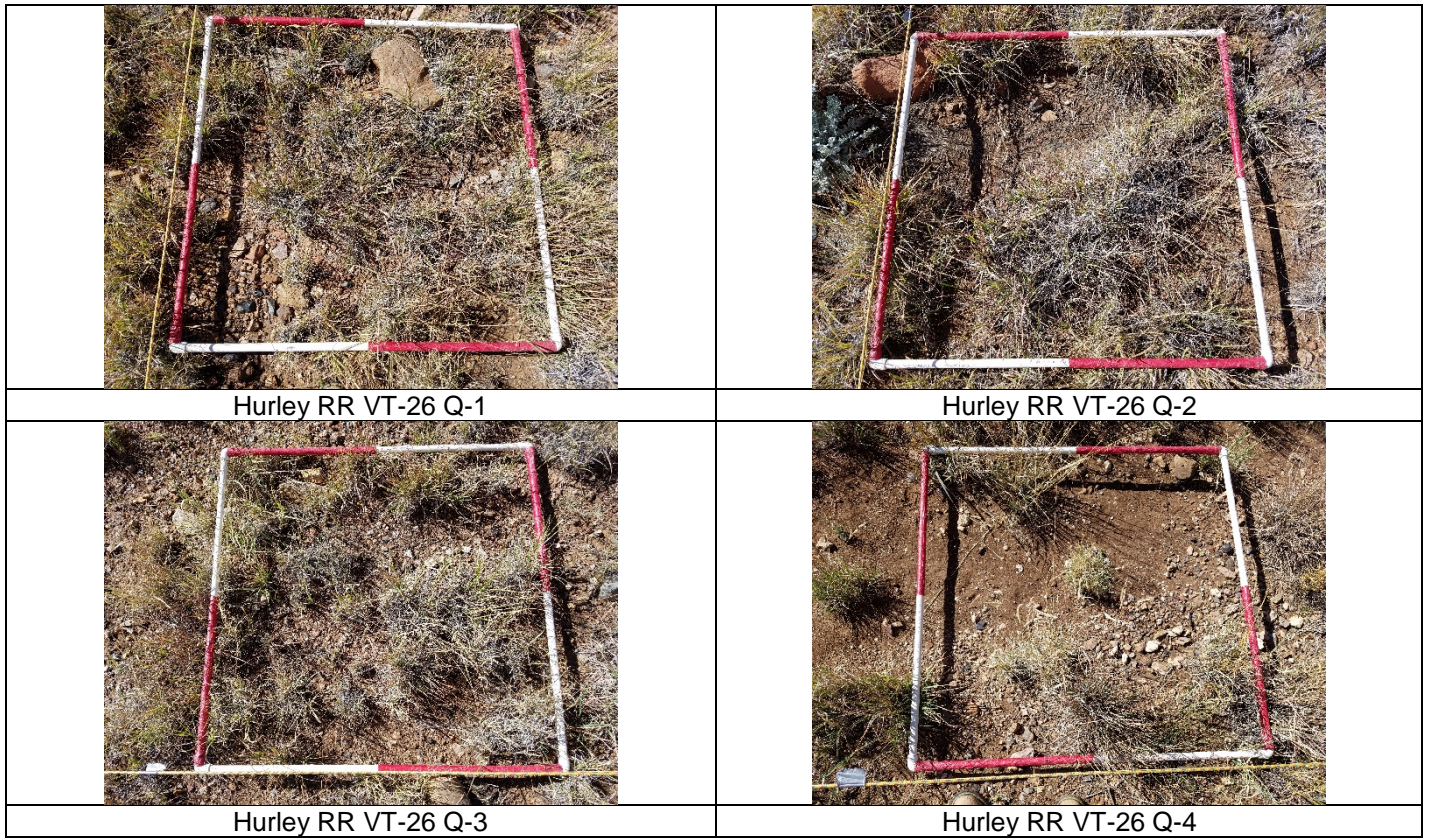
<sup>1</sup> See table 5 for corresponding scientific and common names

**APPENDIX D**

# Quadrat Photographs

	
<p>Hurley RR VT-3 Q-1</p>	<p>Hurley RR VT-3 Q-2</p>
	
<p>Hurley RR VT-3 Q-3</p>	<p>Hurley RR VT-3 Q-4</p>
	
<p>Hurley RR VT-8 Q-1</p>	<p>Hurley RR VT-8 Q-2</p>
	
<p>Hurley RR VT-8 Q-3</p>	<p>Hurley RR VT-8 Q-4</p>







**[golder.com](http://golder.com)**