



Midwestern Gravel Pit Reclaim site

2 messages

David King <david@kirklandconstruction.us>

Wed, Mar 8, 2017 at 10:38 AM

To: "Amy Eschberger (amy.eschberger@state.co.us)" <amy.eschberger@state.co.us>

Cc: Marty Thomas <marty@kirklandconstruction.us>, "Mel Depra (mfdepra@gmail.com)" <mfdepra@gmail.com>, R Pran <rpran@aol.com>

Hello Amy,

Please see the attached NRCS seed mixes for the Midwestern Gravel Pit Reclamation with the following revision to the cover crop seed mix from sunflower to millet.

We are tentatively scheduled to begin the cover crop seeding after March 15th, 2017. The reclamation seed mix is scheduled to be completed by April 15th, 2018.

If you have questions or require additional information, please call.

All the best,

David

David A. King

Kirkland Construction

P.O. Box 580

Rye, Colorado 81069

david@kirklandconstruction.us

(719) 489-3385 (o)

(970) 903-4811 (c)

Hello David,

I attempted to call your office but they said you had an emergency. Hope all is well. Anyways I ended up talking with the DC from Eads that has seeded several thousands of acres in his career. Here is what we discussed:

- 1) On the cover crop if you wanted to take out the sunflower and add another 10% to the millet that would be ok. Plant at the $\frac{3}{4}$ in depth.
- 2) Do not plant full seed mix and full cover crop mix together that would be too many lbs/ac of seed on the site.

3) Recommends planting the full cover crop seed mixture this year and getting 2,500- 5,000 lbs production of cover crop in order to provide lasting cover on the ground when the grass is seeded the next year. Also allows lasting cover while the grass establishes. This is what matches our standard and specification for grass seeding, so this is why it is his and my recommendation to do cover crop this year and grass seeding next year.

Thank you,

Amber Freouf

Soil Conservationist, Area 3 Earth Team Coordinator

[719-537-6506](tel:719-537-6506)

PO Box 535

Holly, CO 81047

~ *"Work hard in silence, let your success be your noise."*~

From: Freouf, Amber - NRCS, Holly, CO [mailto:amber.Freouf@co.usda.gov]

Sent: Tuesday, February 21, 2017 9:32 AM

To: David King

Subject: Midwestern Gravel Pit Reclaim site

Good morning David,

I have included many attachments in this email. The first attachment is a cover crop seeding recommendation. In order for us to assist with conservation technical assistance we must meet standards and specifications. For the site we are dealing with since it has no cover our standards and specifications would require a cover crop planting. I have included a multi species cover crop that we have used on many CRP acres in this part of Colorado. I also recommended putting in radishes or turnips to deal with the compaction we found on Friday while doing our soil cores. Therefore we recommend planting of cover crop this year and grass next year.

I do know that you are held to contract and I do not know what the terms of the contract consist of therefore I have attached our sandy loam grass seed mix. In it I recommended planting 4lbs/ac companion crop of oats to allow for some more cover. In it you will see a wildrye which is native and non-invasive like annual rye can be. I have talked with my coworker and the seed mix you sent me on Friday we both believe would work as well if you wanted to get quotes between the two mixtures you now have.

Thirdly, I have attached a soils map and description. I used our web soil survey which is our online version of soils maps that anyone can use in any parts of the nation. Just a tip if you are ever in need of a soils map.

Lastly, attached are our seed companies list and CRP contractor list.

If you happen to have any questions on this please shoot me an email back or give me a ring [719-537-6506](tel:719-537-6506) ext 101.

Thank you and have a wonderful day,

Amber Freouf

Soil Conservationist, Area 3 Earth Team Coordinator

[719-537-6506](tel:719-537-6506)

PO Box 535

Holly, CO 81047

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2 attachments



cover crop.pdf
124K



grass seed mix.pdf
67K

David King <david@kirklandconstruction.us>

Wed, Mar 8, 2017 at 10:41 AM

To: "wally.erickson@state.co.us" <wally.erickson@state.co.us>, "Amy Eschberger (amy.eschberger@state.co.us)" <amy.eschberger@state.co.us>

fyi

From: David King

Sent: Wednesday, March 08, 2017 10:38 AM

To: Amy Eschberger (amy.eschberger@state.co.us)

Cc: Marty Thomas; Mel Depra (mfdepra@gmail.com); 'rpran@aol.com'

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2 attachments



cover crop.pdf

124K



grass seed mix.pdf

67K



Cover Crop (340) Conservation Practice Job Sheet

Colorado

Cooperator	Midwestern Gravel Pit Reclaim	Date	2/21/2017
Tract/Field No.	n/a	Planner	A. Freouf
CIN	n/a	Cover Crop Acres	225
Crop Rotation	Cover Crop	Previous Crop	gravel site

Purpose(s) for Planning and Applying this Practice (see Additional Specifications below)

- | | |
|--|---|
| <input checked="" type="checkbox"/> Reduce erosion from wind and water | <input type="checkbox"/> Increase organic matter content |
| <input type="checkbox"/> Increase biodiversity | <input checked="" type="checkbox"/> Suppress weeds |
| <input type="checkbox"/> Manage soil moisture | <input type="checkbox"/> Minimize and reduce soil compaction |
| <input type="checkbox"/> Capture and recycle or redistribute nutrients in the soil profile | <input type="checkbox"/> Promote biological nitrogen fixation and reduce energy use |

General Specification

† For Non-Irrigated Cover Crops, the termination date must be at or before the time period specified in NRCS Cover Crop Termination Guidelines, Version 2 - Non-Irrigated Cropland

Planting Date(s)	April 15 to July 15	Planting Method (select one)
Termination Date †	See notes below	<input type="checkbox"/> Broadcast - irrigated
Termination Method	Winter kill	<input type="checkbox"/> Broadcast - nonirrigated
Planned Nutrient		<input type="checkbox"/> Drill seed - irrigated
Application(s), Rate(s), Source(s) and Timing		<input type="checkbox"/> Drill seed - nonirrigated

Planned Cover Crop Species

Comon Names, (varieties)	Crop Type	Minimum Germination Temp. (°F)	Planting Depth (inches)			Percent of Mix	Seed Rate (lbs/acre)	Total Pounds
			min	max	mean			
Sorghum, forage	WSG	64	0.75	1.00	0.88	35	1.8	393.8
Millet, foxtail	WSG	60	0.50	0.75	0.63	40	1.2	270.0
Sunflower, common	WSB	60	0.50	2.00	1.25	10	1.3	281.3
Oat, common	CSG	38	0.50	1.50	1.00	5	1.5	337.5
Totals						90	5.7	1,282.5

Planned Cover Crop Species, Additional Information

Comon Names, (varieties)	Pollinator Benefit (at flowering)	Inoculant	Notes
Sorghum, forage	No		
Millet, foxtail	No		
Sunflower, common	Yes		Alternate Host - Tobacco rattle virus (Corky Ringspot Disease)
Oat, common	No		Alternate Host - Stubby-Root Nematode, Root Lesion Nematode

Additional Specifications - Checked items apply to this plan

- ☒ To reduce wind and water erosion, establish cover crop prior to 7/15/2017 and maintain at least % soil surface cover and or % canopy cover.
- ☐ To increase organic matter content, retain at least lbs/acre cover crop biomass to maintain a positive trend in the Soil Conditioning Index, soil organic matter sub-factor.
- ☐ To promote biological nitrogen fixation and reduce energy use inoculate legume seed with the appropriate rhizobium bacterium at planting time, if the rhizobium is not already present in the soil. (see Planned Cover Crop Species, Additional Information)

Operation and Maintenance

- ◆ Control the growth of the cover crop to reduce competition from volunteer plants and shading.
- ◆ Control weeds in cover crops by mowing or by using other pest management techniques.
- ◆ Control soil moisture depletion by selecting water efficient plant species and terminating the cover crop before excessive transpiration.
- ◆ Evaluate the cover crop to determine it is meeting the planned purpose(s). If the cover crop is not meeting the planned purpose(s) adjust the management, change the species, or choose a different technology.

Recommended Establishment Procedure

Cover crop will be mowed prior to viable seed production of oats. Allow cover crop to winter kill and drill perennial vegetative cover into crop residues. For compaction consider 1/4 lb/ ac of radishes or turnips.

Check Out

Date(s) Planted _____ No. of Acres Planted _____
 Planting Method _____ Date Terminated _____

Cover Crop Species Planted (attach seed tags)

Comon Names, (varieties)	Pounds per Acre Planted	Total Pounds Planted
Totals		

Certification

I understand the Specifications, Additional Specifications and Operation and Maintenance requirements of this plan and agree to apply this practice as designed.

Cooperator _____

Date _____

I certify that the application of this practice is complete, that it meets the planning criteria for the stated purpose, and complies with applicable laws and regulations.

Conservationist _____

Title _____

Date _____

FOTG, Section IV Planning Forms