Permittee: Construction & Equipment Services, L.L.C.
Project Name: CES Gravel #3800
Project City: Hampton

Tracking Number: ARR15 3641
Location of SWPPP on-site: 5281 Arkansas Hwy 160 (owner's residen NW corner of property

Yes = Complete
No = Incomplete/Deficient
N/A = Not Applicable to project

Yes	No	N/A		Notes
			A. A site description, including:	
x			1. Pre-construction topographic view	Part II.A.4.A.1
x			2. Nature of activity and intended use after NOT is filed	Part II.A.4.A.2
x			3. Sequence of major activities	Part II.A.4.A.3
x			4. Total area of site/Disturbed area.	Part II.A.4.A.4
x			5. The runoff coefficient of the site after construction is complete.	Part II.A.4.A.5
x			6. Existing soil or storm water data.	Part II.A.4.A.5
x			**B. Responsible Parties: All parties dealing with the SWPPP and the areas they are responsible for on-site.**	Part II.A.4.B
x			**C. Receiving Waters: Site to ultimate waters**	Part II.A.4.C
			D. Documentation of permit eligibility related to Impaired Water Bodies and Total Maximum Daily Loads (TMDLs).	
x			1. Are pollutants listed on the 303(d) list or in the TMDLs for the receiving waters addressed in SWPPP?	Part II.A.4.D.1
x			2. Have pollutants directly related to the site been addressed?	Part II.A.4.D.2-
x			3. Measures taken to reduce pollutants from the site.	Part II.A.4.D.3
x			**E. Documentation of attainment of Water Quality Standards after authorization.**	Part II.A.4.E
x			**F. Endangered Species information.**	Part II.A.4.F
			G. Site Map showing:	
x			1. Drainage patterns.	Part II.A.4.G.1
		x	2. Approximate slopes after major grading.	Part II.A.4.G.1
x			3. Area of soil disturbance.	Part II.A.4.G.2
x			4. Outline of areas which will not be disturbed.	Part II.A.4.G.2
x			5. Location of major structural and non-structural controls.	Part II.A.4.G.3
x			6. Location of main construction entrance and exit.	Part II.A.4.G.4
x			7. Areas where stabilization practices are expected to occur.	Part II.A.4.G.5
		x	8. Locations of off-site materials, waste, borrow area or storage area.	Part II.A.4.G.6
		x	9. Locations of areas used for concrete wash-out.	Part II.A.4.G.7
		x	10. Surface waters.	Part II.A.4.G.8
		x	11. Locations where water is discharged to a surface water or MS4.	Part II.A.4.G.9
x			12. Storm water discharge locations.	Part II.A.4.G.10
		x	13.Areas where final stabilization has been accomplished.	Part II.A.4.G.11
			H. Description of Controls:	
			1. Erosion and sediment controls, including:	
x			a. Initial disturbed areas.	Part II.A.4.H.1.a
x			b. Erosion and Sediment controls to retain sediment on-site.	Part II.A.4.H.1.b
x			c. Replacement of inadequate controls.	Part II.A.4.H.1.c
x			d. Removal of off-site accumulations.	Part II.A.4.H.1.d
x			e. Maintenance of sediment traps/basins @ 50% capacity.	Part II.A.4.H.1.e
x			f. Litter, construction debris and chemicals properly handled.	Part II.A.4.H.1.f
		x	g. Off-site storage areas and controls.	Part II.A.4.H.1.g

Permittee: Construction & Equipment Services, L.L.C.
Project Name: CES Gravel #3800
Project City: Hampton

Tracking Number: ARR15 3641
Location of SWPPP on-site: 5281 Arkansas Hwy 160 (owner's residen NW corner of property

Yes = Complete
No = Incomplete/Deficient
N/A = Not Applicable to project

Yes	No	N/A		
			2. Stabilization practices.	
x			a. Description and schedule for stabilization.	Part II.A.4.H.2.a
x			b. Description of buffer areas.	Part II.A.4.H.2.b
x			c. Records of stabilization.	Part II.A.4.H.2.c
x			d. Deadlines for stabilization.	Part II.A.4.H.2.d
			3. Structural Practices.	
x			a. Sediment basins	Part II.A.4.H.3.a.1
		x	Are more than 10 acres draining to a common point? If so, are sediment basins included? If not, skip to item 3.b.	Part II.A.4.H.3.a.1
		x	Sediment basin dimensions and capacity description and calculations.	Part II.A.4.H.3.a.1
		x	Sediment basin outfall type, size, capacity, etc. calculations.	Part II.A.4.H.3.a.1
		x	If a basin wasn't practicable, are other controls sufficient?	Part II.A.4.H.3.a.1
x			b. Velocity dissipation devices to provide non-erosive flow conditions from the discharge point along the length of any outfall channel.	Part II.A.4.H.3.b
			I. Other controls including:	
x			1. Waste disposal practices which prevent discharge of solid materials to waters of the State.	Part II.A.4.I.1
x			2. Measures to minimize offsite tracking of sediments by construction vehicles.	Part II.A.4.I.2
x			3. Measures to ensure compliance with State or local waste disposal, sanitary sewer, or septic system regulations.	Part II.A.4.I.4
		x	4.Does the site have a concrete washout area controls?	Part II.A.4.I.5
		x	5. Does the site have fuel storage areas, hazardous waste storage and/or truck wash areas controls?	Part II.A.4.I.6
			J. Identification of allowable non-storm water discharges	Part II.A.4.J
			K. Post construction stormwater management.	Part II.A.4.K
			L. State or local requirements incorporated into the plan.	Part II.A.4.L
x			**M. Are inspection procedures identified in the plan?**	
x			1. Frequency listed?	Part II.A.4.M.1
			2. Inspection form	Part II.A.4.M.2
		x	Ours.	
		x	If not ours, does it contain the following items:	
x			a. Inspector name and title	Part II.A.4.M.2.a
x			b. Date of inspection.	Part II.A.4.M.2.b
x			c. Amount of rainfall and days since last rain event (Part II.A.4.M	Part II.A.4.M.2.c
x			d. BMPs used on-site	Part II.A.4.M.2.d
x			e. If BMPs are in working order and if maintenance is needed (Scheduled and completed)	Part II.A.4.M.2.e
x			f. Location and dates when major construction activities begin, occur or cease	Part II.A.4.M.2.f
x			g. Report signature of inspector	Part II.A.4.M.2.g
x			3. Inspection Records	Part II.A.4.M.3
		x	4. Winter Conditions	Part II.A.4.M.4
x			**N. Maintenance procedures for control measures identified in the SWPPP.**	Part II.A.4.N
x			**K. Signed Plan certification.**	Part II.A.7. and Part II.B.10

Construction & Equipment services

David Lewis
Cell: (870) 310-2757

Buddy McAdams
Cell: (870) 310-8733

Rickey Vaughn
Cell: (870) 310-9602

Howard Cupp, Jr.
Cell: (870) 314-2877

Local (870) 881-8830 • Fax: (870) 881-8809
LICENSED, BONDED & INSURED

Storm Water Pollution Prevention Plan for CES Gravel #3800

Project Dates:
Start Date: November 1, 2011
End Date: October 31, 2016

CONTENTS

APPENDICES

APPENDIX A	Arkansas General Storm Water Permit
APPENDIX B	Notice of Intent
APPENDIX C	Site Map
APPENDIX D	Soil Map, Soil Description and Soil Physical Properties
APPENDIX E	U.S. Fish & Wildlife Service Documentation
APPENDIX F	Inspector Certification Forms
APPENDIX G	Inspection Report
APPENDIX H	Subcontractor Certification Agreement
APPENDIX I	Certification Statements
APPENDIX J	Record Keeping and Training
APPENCIX K	Notice of Termination

Contact Information
Responsible Parties

Operators and SWPPP Contacts:

William D. (Tuffy) Lewis
Ricky L. Vaughn
Buddy McAdams
Ford P. Summerlin
1403 W. 19th Street
El Dorado, AR 71730
Phone 870-881-8830
Fax 870-881-8809

Office Administrator

Amanda Lewis
1403 W. 19th Street
El Dorado, AR 71730
Phone 870-881-8830
Fax 870-881-8809

SWPPP Prepared By:

Ford P. Summerlin
1403 W. 19th Street
El Dorado, AR 71730
Phone 870-881-8830
Fax 870-881-8809
e-mail modelt76@yahoo.com

Project Coordinator and Inspector:

Buddy McAdams
Office 870-881-8830
Cell 870-310-8733

INTRODUCTION

This document has been prepared as the Storm Water Pollution Prevention Plan (SWPPP) associated with excavation/open-cut mining activities for the CES Gravel facility located near Harrell, Arkansas. The purpose of the SWPPP is to document the management practices and storm water pollution prevention measures that will be implemented during excavation/mining to prevent or minimize contamination of storm water discharges by potential pollutant sources at the site. This plan has been prepared pursuant to the requirements and provisions of the Arkansas General Storm Water Permit for Storm Water Discharges Associated with Construction Activity (Permit No. ARR150000). A copy of the general storm water permit for construction activities is found in Appendix A. A copy of the Notice of Intent (NOI) is included in Appendix B.

SITE DESCRIPTION

The site is located near Harrell, Arkansas approximately 4.6 miles east on Highway 160. A site location map and aerial photograph is included. The proposed facility construction/excavation will include soil-disturbing activities such as clearing, excavation and grading portions of the property for the purpose of collecting and removal of clay gravel. The following shows the expected sequence of major construction events.

1) Mobilization
2) Site preparation including clearing of vegetation, topsoil and construction of access roads.
3) Installation of sediment and erosion control best management practices (BMPs) as specified in this SWPPP.
4) Excavation and removal of clay gravel.
5) Construction of holding pond where clay gravel was removed.
6) Re-grading and replacement of topsoil for final stabilization.

The total area of the facility site is approximately 40 acres and the total area disturbed by excavation activities in this area is approximately 20 acres combined.

The average post-construction runoff coefficient for the areas disturbed by excavation activities will be returned as closely to pre-excavation conditions as practicable.

Pre-construction area Runoff Coefficient is .22
Proposed Post-construction area Runoff Coefficient is .22

On-site soils for the CESG facility are identified by the Natural Resources Conservation Web Soil Survey for Calhoun County, Arkansas as Guyton soils, Pheba silt loam, Pikeville find sandy loam, Savannah fine sandy loam and Smithdale fine sandy loam. See Appendix D for soil map, soil descriptions, and soil physical properties.

The United States Fish and Wildlife Service (USFWS) were contacted regarding potential impacts to listed endangered or threatened species caused by excavation activities. Documents from the USFWS can be found in Appendix E.

SITE MAPS

Storm water drainage from the site and excavation area enters a unnamed tributary of Moro Creek, thence into Moro Creek, thence into the Quachita River. The SWPPP maps in Appendix D depict the following features of the excavation site.

1) Drainage patterns
2) Area of soil disturbance
3) Outline of area which will not be disturbed
4) Areas were stabilization practices are expected to occur
5) Surface waters
6) Storm water discharge locations
7) Entrance to facility

EROSION & SEDIMENT CONTROLS BMPs

Erosion and sediment controls will be implemented at the excavation site to prevent sediment from being discharged offsite in

storm water runoff. Specific site conditions may alter the locations or type of controls used. A description of the Best Management Practices (BMPs) to be implemented at the site is provided below.

Erosion Control

Stabilization Practices

Vegetation Buffers – Preserving existing vegetation to the maximum extent possible will reduce or eliminate erosion on the site. Efforts will be made to maintain existing vegetation and limit unnecessary clearing. In addition, vegetated areas will provide natural filtration of runoff from active excavation areas. Vegetative buffers will include preservation of existing vegetation at a minimum of 40 feet from property lines and where possible, but may also include seeding areas with rye grass, or other temporary and permanent vegetation, to provide natural filtration and stabilization of areas as needed. Where possible, a vegetative butter will be maintained along the border of drainage ditches running through the property.

Temporary Stabilization – Disturbed portions of the site where excavation activity temporarily ceases for at least 21 days will be stabilized no later than 14 days from the last excavation activity in that area. In areas where vegetation would be expected to grow, stabilization practices may include temporary seeding, mulching and vegetative buffer strips.

Permanent Stabilization – Disturbed vegetated portions of the site where excavation activities permanently cease will be stabilized with regarding topsoil and permanent seed no later than 14 days after the last excavation activity.

Structural Practices

Various structural controls will be implemented to protect undisturbed areas and prevent sediment from entering storm water runoff. As needed and applicable, silt fence, straw bales or other BMPs will be utilized to control sediment and erosion at the excavation site. Specific areas where these BMPs may be utilized are

along drainage ditches and along the down slope and side slope perimeters of disturbed areas. Additional BMPs such as check dams or velocity dissipation devices will be implemented where needed.

Other Controls

Waste Disposal – Waste materials will be collected in appropriate container and properly disposed of at an authorized waste handling facility.

Off-Site Tracking - The points of entrance and exit at the site will be limited to prevent unnecessary offsite tracking. If necessary, a gate will be constructed. The generation of dust will be minimized during excavation activities.

Removal of Off-Site Accumulations – A proactive method of preventing off-site migration or deposits of sediment on public roadways will be established and maintained. Any sediment which has collected on the nearby public highway must be removed so that it is now washed into nearby streams and/or does not pose a safety hazard to users of the public highway. Arrangements concerning removal of sediment on adjoining property must be settled with the adjoining property owner before removal of sediment.

Replacement of Inadequate Controls – Erosion and sediment controls shall be modified as necessary so that they are effective at all times throughout the course of this project.

Sanitary/Portable Toilets – Due to having a very limited number of personnel at the site during excavation activities, portable toilets will not be provided. Personnel will be instructed to use public restrooms in the near by town of Hampton. If the situation changes such that portable toilets are needed, they will be provided. Portable sanitary toilets will be located away from areas that drain directly into ditches or outfalls.

Litter, Construction Debris and Chemicals – Any litter, construction debris or chemicals exposed to storm water will be picked up and removed from storm water exposure prior to anticipated storm events or before being carried off of the sige by wind, or otherwise prevented from becoming a pollutant source for storm water discharge. After use, materials used for erosion controls will be

removed. The only chemicals that should be present on the site will be petroleum products and fluids needed to operate excavation equipment. No fuels will be stored at the site. All spills wull be reported to the appropriate agency, and measures will be taken immediately to prevent the pollution of any waters, including groundwater, shall a spill occur.

MAINTENANCE

Maintenance of the controls will be the responsibility of Construction & Equipment Services (CES). Inspections will be utilized to determine maintenance needs. If repairs are necessary, they will be initiated within 24 hours of determining the maintenance needs. Based on the repairs needed, excavation activity in the area may be limited or halted to prevent sediment from entering storm water runoff.

Maintenance of sediment traps/basins @ 50% capacity: Inspection, repair, and maintenance of erosion and sediment controls is to be performed on a regular basis. All controls will be maintained to ADEQ standards and good engineering practices. Sediment will be removed from sediment traps, silt fence, sediment basins, and other controls when the design capacity has been reduced by 50%.

INSPECTION

A qualified person will inspect disturbed areas of the excavation site and structural controls at least once every 14 days and within 24 hours of the end of a storm that is 0.5 inches or greater. A certification form is included as Appendix F, and the person conduction site inspections will be required to read and sign this document prior to conducting the inspection. A copy of each inspector certification will be kept with the SWPPP at CES. An inspection form is included in Appendix G and includes the requirements for signature of the qualified person performing the inspection.

A qualified inspector is defined as a person knowledgeable in the principals of erosion and sediment control, who possesses the skills to evaluate conditions at a construction site that could impact storm water quality. The person must be knowledgeable in the correct

installation of erosion and sediment controls and have the ability to assess the effectiveness of sediment and erosion control measures selected in the SWPPP. The person must review the Arkansas Storm Water Construction General Permit ARR150000 and the SWPPP for the site.

TOTAL MAXIMUM DAILY LOAD (TMDL)

Implementation of erosion and sediment controls at the site will prevent or eliminate impacts to the receiving streams. Storm water from the property discharges to an unnamed tributary of Moro Creek, thence to Moro Creek, thence to the Quachita River. The established Total Maximum Daily Loads (TMDL) for the Quachita River is 15. Moro Creek is listed on the 303 (d) list as a Category 4 stream for Mercury, and as a Category 5 stream for Siltation, Lead, Zinc and Copper, but is over 2 miles in distance from the facility.

WATER QUALITY STANDARDS

The BMPs and structural controls identified in the above sections of this SWPPP will be implemented at the excavation site to prevent, or minimize to the greatest extent possible, the discharge of potential pollutants in storm water runoff from the property. If necessary, CES will install, implement, and maintain additional BMPs that will minimize pollutants in the storm water discharge to meet applicable water quality standards.

SPILL PREVENTION

The discharge of hazardous substances or oil in storm water discharges from the facility will be prevented or minimized to the greatest extent possible. Spills and leaks will be cleaned up immediately after discovery. Control and clean up of soils and leads will be conducted by onsite personnel using available spill control equipment (backhoe, dozer, absorbent materials, etc.). An outside spill cleanup agency will be called to assist with cleanup efforts if necessary. Spilled material and affected media will be properly disposed at an authorized waste handling facility. In the event of an

emergency, the Arkansas Department of Emergency Management should be contacted.

SUBCONTRACTORS

Subcontractor Certification required by the general storm water permit for construction activity is included in Appendix H. Management practices, control devices and permit conditions will be implemented by CES. Subcontractors providing services at the site will be required to sign the Subcontractor Certification prior to providing professional services. A form for signatures of additional subcontractors is provided in Appendix H.

REVIEW AND UPDATE

CES shall make the SWPPP available, upon request, to the EPA, ADEQ, or other authorized state or local agency. ADEQ may notify CES at any time that the SWPPP does not meet one or more of the minimum requirements of the permit. Within 7 days of such notification from ADEQ, CES must make the required changes to the SWPPP and submit to ADEQ a written certification that the requested changes have been make.

CES must amend the SWPPP whenever there is a change in design, construction, operation, or maintenance, which has a significant affect on the potential for the discharge of pollutants to the water of the State. The SWPPP must also be updated if the plan proves to be ineffective in eliminating or minimizing pollutants from sources of excavation activity at the site.

RETENTION OF RECORDS

CES must retain records of the SWPPP, associated reports, and NOI documentation for a period of three years from the date the site is finally stabilized. A copy of the SWPPP must be maintained from the date of project initiation to the date of final stabilization. A Copy of the SWPPP is located at the CES main office. A construction site notice will be posted in a prominent place at the site for public

viewing once the permit has been issued by ADEQ and the site notice has been received.

NOTICE OF TERMINATION

After the site has been finally stabilized and storm water discharges from excavation activities by the general storm water permit are eliminated, CES must submit a Notice of Termination (NOT) to terminate coverage under the permit. If a NOT is not submitted when the project is completed, CES will be responsible for annual fees due to ADEQ.