

### Silt Fence Detail

#### Non-woven Silt Fence

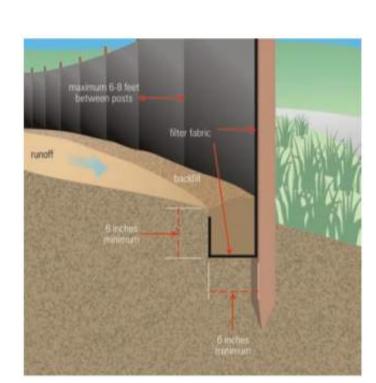
A silt fence is a temporary sediment barrier consisting of a geotextile attached to supporting posts and trenched into the ground. Intended to retain sediment that has been dislodged by

Use silt fence as a perimeter control particularly at lower or down slope edge of a disturbed area. Leave space for maintenance between slope and silt fence or roll. Trench in the silt fence on the uphill side (6 in deep by 6 in wide). Install stakes on the downhill side of the fence. Curve silt fence up-gradient to help it contain runoff.

To maintain remove sediment when it reaches one-third of the height of the fence. Replace the silt fence where it is worn, torn, or otherwise damaged. Retrench or replace any silt fence that is not properly anchored to the ground. If the silt fence cannot be toed in properly due to existing hard surface, place mulch filter sock at base to prevent sediment from leaving site.

8' max wood stake spacing and 10' max spacing for steel T-post.

Silt Fence Installation



Source: USEPA Guide for Construction Site

# **VEHICLE TRACK-OUT** CONTROL 3" TO 8" **ROCK MEDIA 6" MINIMUM DEPTH GEOTEXTILE FABRIC UNDERLINER NOT TO SCALE** - DIMENSIONS NOTED CAN BE SITE RESTRICTIVE.

# TYPICAL CONCRETE WASHOUT-BELOW GRADE



- Install appropriate signage to inform concrete equipment operators of the proper washout location.
- An appropriate stabilized entrance shall be installed where applicable. The length and width of the stabilized entrance may vary based on size and location of the washout.
- Washout facilities must be sized to contain washout water and
- Typical dimensions are 10 feet long by 10 feet wide but may vary upon site limitations.
- Pit shall be delineated with Orange Filter Sock and A-Framed staked.
- The pit shall be lined with 10mil (minimum) polyethylene impermeable liner on the bottom and sides overlapping the top edges completing a leak-proof container.

# **GRAVEL BAG INLET PROTECTION**



Inlet gravel bags are manufactured on site to fit in the gutter pan on the upstream side of the inlet. Filled with smooth rounded pea gravel. The ends are sealed with ½" #12 hog rings. The gravel bags are connected together with the hogs to help create weight and stability.

#### FABRIC PHYSICAL SPECIFICATIONS:

Property Test Method Wov Fabric Weight	ren (typical) ASTDM D-5261	F oz /sg /yd
		5 oz/sq./yd.
Grab Tensile (MD/TD)	ASTDM D-4632	350/220 lbs.
Trapezoid Tear (MD/TD)	ASTM D-4533	146/75 lbs.
Puncture	ASTM D-4833	112 lbs.
Mullen Burst	ASTM D-3786	388 psi.
UV Resistance (2000hrs)	ASTM D-4355	>70%
Water Flow	ASTM D-4355	195 gpm/sq-ft
Material		High Density Polyethylene
		(HPDE)

THE ABOVE VALUES ARE M.A.R.V. (minimum average roll values)

## ESC Plan Standard Notes (2021-03-24)

- All Erosion and Sediment Control (ESC) work on these plans, except as otherwise stated or provided hereon shall be permitted, constructed, inspected, and maintained in accordance with:
  - a. The City Ordinance § 14-5-2-11, the ESC Ordinance,
  - The EPA's 2017 Construction General Permit (CGP), and
  - c. The City Of Albuquerque Construction BMP Manual
- 2. All BMP's must be installed prior to beginning any earth moving activities except as specified hereon in the Phasing Plan. Construction of earthen BMP's such as sediment traps, sediment basins, and diversion berms shall be completed and inspected prior to any other construction or earthwork. Self-inspection is required after installation of the BMPs and prior to beginning construction.
- Self-inspections At a minimum a routine compliance self-inspection is required to review the project for compliance with the Construction General Permit once every 14 days and after any precipitation event of 1/4 inch or greater until the site construction has been completed and the site determined as stabilized by the city. Reports of these inspections shall be kept by the person or entity authorized to direct the construction activities on the site and made available upon request.
- Corrective action reports must be kept by the person or entity authorized to direct the construction activities on the site and made available upon request.
- Stabilization reports must be kept by the person or entity authorized to direct the construction activities on the site and made available upon request. Reports should include records of weed removal per City Ordinance (§ 9-8-1), sterilization, soil test results and recommendation, materials and manufacturer's specifications for application rates, estimated functional longevity, methods of application, inspection and maintenance. The reduced self-inspection schedule in CGP 4.4.1 applies to stabilized area and any damaged or worn stabilization must be identified in the reports along with weed problems. Corrective actions for stabilization shall be documented in a stabilization report including actual rates and dates of stabilization, and the materials and manufacturer's specifications used.
- BMPs shall be inspected and maintained until all disturbed areas are stabilized in accordance with the Final Stabilization Criteria (CGP 2.2.14.b). Generally, all disturbed areas, other than structures and impervious surfaces, must have uniform perennial vegetation that provides 70 percent or more of the cover provided by native vegetation or seed the disturbed area and provide non-vegetative mulch that provides cover for at least three years without active maintenance. Final stabilization must be approved by the City of Albuquerque prior to removal of BMPs and discontinuation of inspections.

# Coir Mat Inlet Protection



**UV Resistance (ASTM D 4355 – 500 hour exposure) Tensile Properties** (ASTM D 5035/ECTC)

## (4 inch wide strip specimen)

% Light Penetration

<b>Baseline Properties</b>	
MD – Maximum Load (ppi)	14.6
TD – Maximum Load (ppi)	18.7
MD – Elongation @ Max Load (%)	19.3
TD – Elongation @ Max Load (%)	27.7

3.000	
Light Penetration (ECTC Guideline	es)
Baseline Reading	125
Reading with sample	10

Swell (ECTC)	
Dry thickness (mils)	1984
Thickness after soak (mils)	2098
% change	6
Water Absorption (ASTM D 1117/E	ECTC)
Pre-soak Weight (grams)	69
Post-Soak (grams)	152
Weight change (grams)	82
9/ Weight Change	110

#### |% Weight Change 119 Sediment Control (ASTM D 5141) Sand sieved thru No. 10 sieve Filtering Efficiency (%) 40.8 Flow Rate (liter/minute) 150

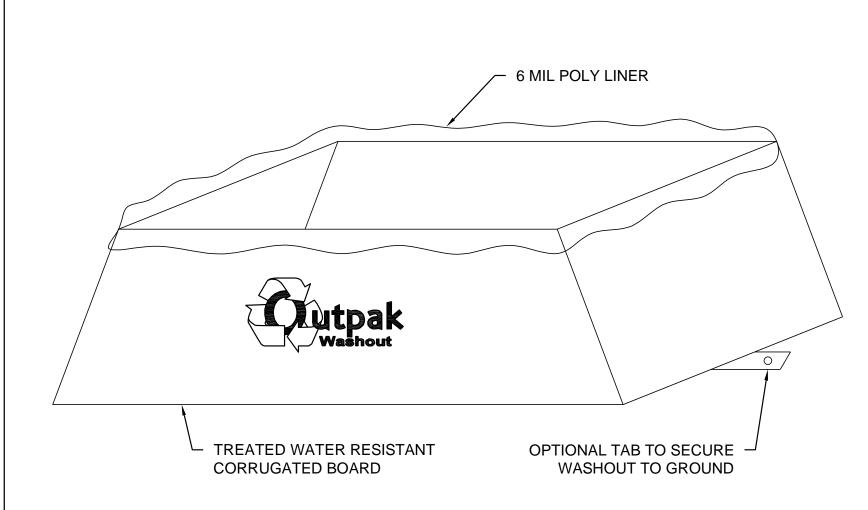


500 Hour Exposed Properties	
MD – Maximum Load (ppi)	10.2
TD – Maximum Load (ppi)	13.8
MD – Elongation @ Max Load (%)	16.9
TD – Elongation @ Max Load (%)	16.6

Resiliency (ASTM D 6524)		
Pre-loading thickness (mils)	1943	
Post-loading thickness (mils)	326	
% change	-83	

Mass/Unit Area (ASTM D 6565)  Mass/unit area (oz/sq. yd)	50.89
Mass/unit area (g/sq. meter)	1725

nolder Resistance (ECTC) Maximum Burn Distance (in)



- THE WASHOUT SHALL BE INSTALLED PRIOR TO USING MATERIALS THAT REQUIRE WASHOUT
- AS NECESSARY, SIGNS SHALL BE PLACED THROUGHOUT THE SITE TO INDICATE THE
- THE WASHOUT AREA WILL BE REPLACED AS NECESSARY TO MAINTAIN CAPACITY FOR
- 4. WASHOUT RESIDUE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN

7. LOCATE WASHOUT AT LEAST 50' (15 METERS) FROM STORM DRAIN, OPEN DITCHES, OR

- 5. DO NOT WASHOUT INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS,
- 6. AVOID DUMPING EXCESS CONCRETE IN NON-DESIGNATED DUMPING AREAS.
- 8. THE WASHOUT SHALL BE USED ONLY FOR NON-HAZARDOUS WASTES



OPERATOR: DR HORTON, INC.

**ITOTAL SITE AREA: 4.5 ACRES TOTAL DISTURBED AREA: 4.5 ACRES** 

RECEIVING WATERS: RIO GRANDE RIVER (TIJERAS ARROYO TO ALAMEDA BRIDGE), TIER 2 SEE ESC-4 FOR IMPAIRMENTS.

REFER TO THE ESC BMP DETAILS (ESC-3) FOR INSTALLATION, INSPECTION AND MAINTENANCE REQUIREMENTS.

**VOLCANO CLIFFS AT LA CUENTISTA** 

**TEMPORARY EROSION AND SEDIMENT CONTROL PLAN** 

M. VALLEJOS, CPESC, CISEC
CPESC.  WATHEW F. VALLEJOS  No. 9108  AND SEDIMENT

**Drawn By:** 

ESC-3

04/28/2021

Start Date-Finish Date¶ (dates to be marked on site plan by operator)    Date   Date	¶ Construction Activity, BMPs, and location
¶ ¶ ¶ Initial· Phasea	Pre-Site Grading¶  1. Install-perimeter BMPs (silt-fence, erosion control logs, downstream inlet-protection, etc.)¶  2. Construct VTC.¶  3. Set up construction trailer, construction barrier, and material storage areas¶  4. Install sanitary facilities and dumpster.¶  5. Implement stabilization procedures where work is complete or ceases (persection 2.2.14 of the 2017 EPA CGP)○
¶ ¶ Interim· Phase¤	Site ·Grading / Building ·Construction ¶ I. ·Mass · grade · site ¶ 2. · Construct · utilities, infrastructure ¶ 3. · Building, pavement construction ¶ 4. · Implement · stabilization · procedures · were work · is complete or ceases (per · section · 2.2.14 · of · the · 2017 · EPA · CGP) □
¶ ¶ ¶ Final· Phase¤	Final·Stabilization¶  1. Implement·stabilization·procedures· <u>were</u> work is complete or ceases (per-section- 2.2.14·of·the·2017·EPA·CGP)¶  2. Prepare·final·seeding·and· <u>landscaping</u> ¶  3. Monitor·stabilized·areas·until·final·stabilization·is <u>reached</u> ¶  4. Remove·temporary·control·BMPs·and·stabilize·any·areas·disturbed·by·theremoval©

Nature of Construct	•	<u> </u>	
			is project covers approximately
	00000000	999991	on, Inc. is responsible for all
	<del>-</del>		ties, flatwork and vertical
construction. The a	ctivities to occur on-si	te are consistent witl	n residential home construction
	-1.55		
	Volcano Cliffs at La		-1 1
•	tion: Kimn	nick Dr. NW and Unse	er Blvd. NW
City: Albud	querque		
State: NM			
Zip Code:	87114		
County:	BERNALILLO		
Project Latitude:	35.16790	Longitude:	-106.71752
Determination of La	titude/Longitude:		
☐ USGS topographi	c map (scale:	)	
☐ EPA Web Site	☑ NM OpenEnvirol	Map □ GPS	
□ Other (please speed)	ecify):		
_			
	ation Activity:		
Function of Constru	ction Activity.		
Function of Constru  Residential	☐ Commercial	□ Industrial	☐ Linear (roadway)

Is your project/site located on federally recognized Country Lands

ROLE	COMPANY	REPRESENTATVIE NAME	PHONE	EMAIL
OPERATOR	DR HORTON, INC.	KEVIN GRIFFIN	505-206-8226	KTGRIFFIN@DRHORTON.COM
OWNER	DR HORTON, INC.	KEVIN GRIFFIN	505-206-8226	KTGRIFFIN@DRHORTON.COM
BMP MAINTENANCE	SUPERIROR STORMWATER SERVICES	TIM SLATUNAS	505-353-2558	TIM@SUPERIORSTORMWATER.COM
SWPPP INSPECTIONS	GREEN GLOBE ENVIRONMENTAL	TIM SLATUNAS	505-353-2558	TIM@GREENGLOBENM.COM



Rio Grande (Tijeras Arroyo to Alameda Bridge)		AU IR CATEGORY	LOCATION DESCRIPTION		
			5/5C	HUC: 13020203	Rio Grande-Albuquerque
AU ID	WQS REF	WATER TYPE	SIZE	ASSESSED	MONITORING SCHEDULE
NM-2105_51	20.6.4.105	RIVER	15.6 MILES	2020	2023
USE	ATTAINMENT	CAUSE(S)	FIRST LISTED	TMDL DATE	PARAMETER IR CATEGORY
IRR	Fully Supporting				
LW	Fully Supporting			+ 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1	0404114000000161144000000014
MWWAL	Not Supporting	Mercury - Fish Consumption Advisor PCBS - Fish Consumption Advisor Dissolved oxygen Temperature	HT123-0000	2023 (est.) 2023 (est.)	5/5C 5/5C 5/5A 5/5A
PC	Not Supporting		2020	6/30/2010	4A
PWS	Not Assessed				
WH	Fully Supporting				

Yes□

No⊠

AU Comment: TMDL for E. coli. Fish Consumption Advisory listings are based on NMs current fish consumption advisories for this water body. Per USEPA guidance, these advisories demonstrate non-attainment of CWA goals stating that all waters should be "fishable." Therefore, the impaired designated use is the associated aquatic life even though human consumption of the fish is the actual concern.

	Summary by Map Unit — Bernalillo County and Parts of Sandoval and		ocico (NM600)	
Summary by Map Uni	<ul> <li>Bernalillo County and Parts of Sandoval and Valencia Counties, i</li> </ul>	New Mexico (NM600)		(8
Map unit symbol	Map unit name	Rating	Acres in AO1	Percent of AOI
AkC	Akela-Rock outcrop complex, 1 to 9 percent slopes	.10	29.3	12.5%
AmB	Alemeda sandy loam, 0 to 5 percent slopes	.24	87.7	37.5%
KR	Kokan-Rock outcrop association	.02	0.4	0.29
MWA	Madurez-Wink associatin, gently sloping	.24	116.4	49.89
Totals for Area of Interest			233.7	100.0%



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M. VALLEJOS, CPESC, CISEC

PROFESSIONE

4-28-21

CPESC

CPESC

No. 9108

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Drawn By:

ESC-4

04/28/2021