

**POST-CLOSURE INSPECTION FORM
MARJOL BATTERY SITE, THROOP, PENNSLYVANIA**

Date of Inspection: November 19, 2010 **Day of Inspection:** Friday **Time Started:** 1000 **Time Completed:** 1200

Weather: Sunny High of 42°

Attendees: Kevin O'Rourke, Jamie Heimbach, Lisa Ayers (AGC), Arnie Boyer (SCE), Len Zelinka (PADEP)

Inspection Checklist: Complete the checklist for all items. If deficiencies were observed during a previous inspection, note if conditions have changed or been repaired since the previous inspection. See O&M Plan for additional information regarding each item. Sketch areas of erosion, ponded water, lack of vegetative cover and other items requiring repair on a site plan and attach to this form.

ITEM	Y / N	COMMENTS	MARK IF REPAIR NEEDED
<i>Containment Area Cap</i>			
Has proper vegetative cover been established? (at least 90 percent surface area coverage of live, growing species, with the largest individual surface area not meeting the 90 percent coverage requirement not to exceed 100 square feet)	No	Additional coverage needed on the eastern areas of the CA. Steep slope and western areas have improved. Recent seeding has germinated and new grass growth is continuing.	
Are trees, shrubs or deep rooted plants present on the cap?	No		
Is additional seeding, mulching or watering needed?	No	Soil is moist from recent rain events. No additional water needed at this time. Additional ECM to be placed north of top bench as shown on attached sketch.	X
When was mowing last conducted?		October 23, 2010. No need for additional mowing at this time.	

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Have significant changes in vegetative cover occurred (color, density, height, overall health)?	Yes	Density of grass growth has increased since last inspection (October 22, 2010) and reseeded. Germination has occurred on newly reseeded areas.	
Is the integrity and effectiveness of the Containment Area soil cover acceptable?	Yes	No issues noted	
Are significant erosion rills or soil cracking present?	No		
Is ponding present? If yes, note depth.	Yes	Small puddles with less than one inch depth on benches.	
Is settlement or subsidence visible?	No		
Are Containment Area slopes visually stable?	Yes		
Are cap drain outfall pipes free of blockage?	Yes	Sediment removed from outfall identified during last inspection.	
Are the geosynthetics visible?	No		
Is any waste material exposed?	No		
Is there a visible change in the designed drainage pattern?	No		

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Is damage from burrowing animals present?	No		
Are the silt socks in the CA functional?	Yes		
Is erosion occurring under the silt socks?	Yes	Minor erosion in specific points. Grass growth density is increasing causing less erosion beneath socks.	X
<i>Restored Excavation Areas</i>			
Has proper vegetative cover been established? (at least 90 percent surface area coverage of live, growing species, with the largest individual surface area not meeting the 90 percent coverage requirement not to exceed 100 square feet)	No	Areas of the Site (North woods) have the required coverage except former haul roads. The Facility portion is improving.	
Is additional seeding, mulching or watering needed?	No	Areas of the site with less than required coverage were reseeded on October 22, 2010.	
When was mowing last conducted?		October 23, 2010. No need for additional mowing at this time.	
Have changes in vegetative cover occurred?	Yes	Vegetation on slope above former support zone has increased.	

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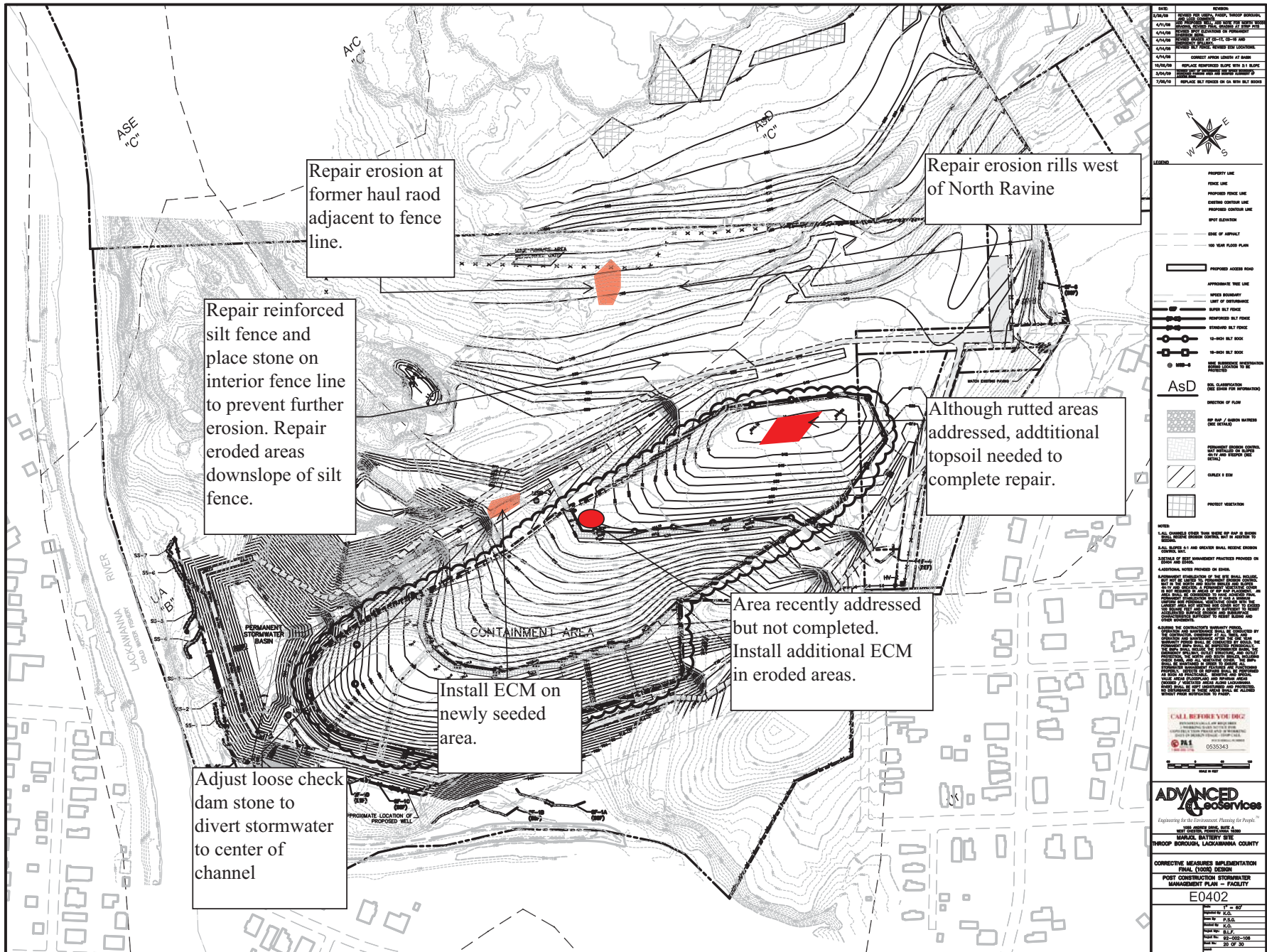
ITEM	Y / N	COMMENTS	MARK IF REPAIR NEEDED
Are significant erosion rills or soil cracking present ($\geq 9''$)?	No	Minor rills in North Ravine area less than 9 inches.	X
Is ponding present? If yes, note depth.	Yes	Minor puddles downstream of permanent diversion berm.	
Is settlement or subsidence visible?	No		
Are slopes visually stable?	Yes		
Are erosion and sedimentation controls functioning properly? (silt socks, silt fence, RCE, etc.)	Yes	Repair to silt fence south of temporary stockpiles needs to be addressed.	X
<i>Access Roads</i>			
Are significant cracks, potholes, or erosion present?	No		
Is the roadway in adequate working order?	Yes		
<i>Fencing</i>			
Is the fence rusted or deteriorated?	No	New split rail fence and gates recently completed.	

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Is the fence cut or breached?	No	Temporary chain link at split rail fence gap to be secured more effectively.	X
Is burrowing or tunneling present under the fences?	No		
Are all gates and locks operating?	Yes		
Are required signs present?	Yes	Additional "Posted Private Property" signs to be installed.	
Are there any signs of trespassing, including the North Woods Trails?	No		
<i>Stormwater System</i>			
What is the water level in the stormwater basin?		Approximately 4 feet.	
Are there indications of animal activity?	No	Geese and Ducks using the basin.	
Is adequate vegetation present?	Yes		
Is erosion occurring in the basin or channels?	Yes	Erosion occurring at CD-7 where the North Swale enters the basin. Repairs required.	X

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Are basin slopes visually stable?	Yes		
Has blockage or clogging occurred in channels, inlets or the discharge pipe?	No		
Are sediments present in channels, inlets or the basin? If yes, note depth.	Yes	Basin sediment is present but not enough to require removal at this time.	
Are rip rap channel linings / gabion mattresses in adequate working order?	No	CD-7 requires repair to the gabion mattress at the top of the check dam.	X
Are check dams in adequate working order?	No	Adjustment of stone check dams located below CD-3 to divert stormwater flow to center of channel.	X
Is there water present in the North Woods Low Area? If yes, note depth.	No		
Is the North Woods Low Area drainage system functioning properly?	Yes		
Is vegetation established in the North Woods Low Area?	Yes	Stone installation disturbed existing growth. Areas reseeded and stabilized.	



DATE	REVISION
6/29/10	ADD TO CORRECT EROSION CONTROL MEASURES
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LEGEND

- PROJECT LINE
- FENCE LINE
- PROPOSED FENCE LINE
- EXISTING CONTOUR LINE
- PROPOSED CONTOUR LINE
- SPOT ELEVATION
- EDGE OF ASPHALT
- 100 YEAR FLOOD PLAIN
- PROPOSED ACCESS ROAD
- APPROXIMATE TREE LINE
- SPRINKLER BOUNDARY
- LIMIT OF INTERFERENCE
- EXISTING SILT FENCE
- REINFORCED SILT FENCE
- STANDARD SILT FENCE
- 12-INCH SILT SOCK
- 18-INCH SILT SOCK
- LINE & SPACING INFORMATION
- SPACING INFORMATION

AsD

- SILT CLASSIFICATION (SEE SHEET FOR INFORMATION)
- DIRECTION OF FLOW
- SP. PAV. / GRAVEL MATTER (SEE DETAIL)
- PROPOSED EROSION CONTROL MEASUREMENT SYSTEM (SEE DETAIL)
- CURBS & EDGES
- PROJECT VEGETATION

NOTES

1. VERIFY ALL DIMENSIONS AND SPACING OF ALL EROSION CONTROL MEASURES.
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CALL BEFORE YOU DIG!

ADVANCED & SERVICES

Engineering and Construction Services for Florida

10000 BATTERY BLVD. SUITE 200
 MIAMI, FL 33146
 (305) 555-1000
 FAX: (305) 555-1001
 WWW.ASANDS.COM

CORRECTIVE MEASURES IMPLEMENTATION FINAL (100% DESIGN)

POST CONSTRUCTION STORMWATER MANAGEMENT PLAN - FACILITY

E0402

DATE	7-27-10
DESIGNED BY	P.S.G.
CHECKED BY	P.S.G.
DATE	7-27-10
PROJECT NO.	02-000-100
SHEET NO.	20 OF 30