

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

Date of Inspection: December 21, 2010 **Day of Inspection:** Tuesday **Time Started:** 1000 **Time Completed:** 1200

Weather: Partly Sunny 24°

Attendees: Kevin O'Rourke, Jamie Heimbach, Lisa Ayers (AGC), Nate Butler (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. Other areas of site in various turf establishment conditions.	X
Are trees, shrubs or deep rooted plants present on the cap?	No		
Is additional seeding, mulching or watering needed?	No	Site soils are frozen in place. Watering not required at this time.	
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	No significant changes in grass growth since last inspection.	
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	Minor erosion noted on steep slopes and western section.	X
Is ponding present? If yes, note depth.	No	No ponding present on the CA	
Is settlement or subsidence visible?	Yes	Undulation observed on the eastern section of the CA at the high point areas; most likely due to topsoil settlement.	
Are Containment Area slopes visually stable?	Yes		
Are cap drain outfall pipes free of blockage?	Yes		
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. Erosion areas have not increased since last inspection.	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	No change in establishment of turf since last inspection.	
Is additional seeding, mulching or watering needed?	No	Growing season has passed, no new germination seeded areas at this time. No watering is required at this time.	
When was mowing last conducted?		October 23, 2010.	
Have changes in vegetative cover occurred?	No	No changes in vegetative cover since last inspection.	

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Are significant erosion rills or soil cracking present ($\geq 9''$)?	No	Minor rills in North Ravine area and upslope of permanent diversion berm eastern perimeter.	X
Is ponding present? If yes, note depth.	Yes	No ponding observed.	
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	Additional ECM required proximate to stockpile area where soils require stabilization.	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		

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Is the fence cut or breached?	No		
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; surface is frozen	
Are there indications of animal activity?	No		
Is adequate vegetation present?	Yes		
Is erosion occurring in the basin or channels?	Yes	Erosion which occurred along North Swale and ECM requires repair.	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?	Yes	CD-7 repaired. CD-6 damaged during repair of CD-7. One basket lid to be replaced.	X
Are check dams in adequate working order?	No	Adjustment of stone check dams located below CD-3 and CD-4 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.	

