

MDEStat Meeting

April 12, 2010



Shari T. Wilson, Secretary

Sue Battle-McDonald, Stat Director

Table 1: Bay TMDL Allocation Schedule – Summary

Agency	Task Description	Start date	Completion date
EPA	EPA formally transmits watershed implementation plan (WIP) guidance and working target loads to States, DC		Oct. 30, 2009
MD	Develop, document, and test a draft TMDL segmented sub-allocation procedure using Phase 5.2 watershed model and concepts from the EPA major basin-jurisdiction allocation approach. Communicate the draft sub-allocation procedure to MD agencies for review and comment.	Nov. 2, 2009	Dec. 15, 2009
MD	Develop a web based GIS reporting using draft TMDL segmented sub-allocation results.	Dec. 1, 2009	Jan. 4, 2010
MD	Identify members and communicate responsibilities for Point Source (PS) and Nonpoint Source (NPS) Sector Teams <ul style="list-style-type: none"> •PS Sector team to check and confirm target loads to individual point sources •Revise sub-allocation procedure following interagency review 	Dec. 15, 2009	Feb. 15, 2010
MD	<ul style="list-style-type: none"> • Using Phase 5.3 watershed model, segmented sub-allocation procedure, and confirmed PS source estimates, subtract PS load from total load to estimate NPS target load. • NPS Sector Team to review NPS target load for feasibility 	Feb. 15, 2010	Apr. 1, 2010
MD	PS and NPS sector team discussions to identify loading gap options. Gap closure options will be included in the TMDL segmented sub-allocation procedure to finalize a scenario that meets the working target loads provided by EPA.	Apr. 1, 2010	Apr. 30, 2010
MD	<ul style="list-style-type: none"> • Meetings with local governments and stakeholders. • Finalize preliminary Phase 1 watershed implementation plan. 	May 1, 2010	May 30, 2010
EPA/MD	PSC agreement on draft watershed and tidal sediment target loads and States/District to adjust nutrient allocations as necessary. <u>(With the changes unknown, the June 1 timeframe for preliminary WIP submittal will likely be an issue in completing this task)</u>	Apr. 30, 2010	May 15, 2010
EPA	States, DC submit preliminary Phase 1 WIPs to EPA		June 1, 2010

Table 2: Phase I WIP Local Involvement Schedule

Date	Event
Feb 2009 – March 2010	Numerous briefings (See Attachment C for details)
Mid April	Letter to local officials Conference Call: Updated briefing & exchange (mostly background at a deeper level of detail. Solicit interest for May 4 Webinar)
Late April	Draft allocations available for review and comment (May?)
May 4	Webinar
Mid May	Conference Call: WIP Highlights for General Public (pre-release)
June 1-30	Local Review of Preliminary WIP
Mid July	Conference Call w/Local Government: WIP Highlights
Mid August	MACO Meeting Briefing
August 15 – October 15	Public Review of TMDL & Phase I WIP
August 15 – October 15	Public Meetings to Accept Comments??

Table 3: TMDL Accounting, All numbers are based on 2008 Integrated Report Listings unless otherwise noted

Development Year	MOU Count (Actual)	Other Listings Count	Total	Listings addressed through 303(d) List Revision (new data, error in listing, etc.)	Number of MOU Listings Promised	Total Number of Listings Promised
1998	1	3	4			
1999	9	2	11			9
2000	15	12	27			19
2001	12	17	29			18
2002	15	27	42	6		28
2003	9	27	36			55
2004	29	32	61	17		
2005	24	19	43		23	27
2006	34	35	69		38	48
2007	18	29	47		21	39 ⁴
2008	30	26	56	36	18	30
2009	15	15	30		20	30
Totals submitted	211	244	454			
2010					13	32
2011	(10) Table 2				31	36
Bay TMDL					96	137
Previously Submitted					211	
					351	

MOU revision allows an average of 24 listings per year to address 1996/1998 listings.

^[1] Based on 2008 Integrated Report Listings

^[2] Based on workplans/schedules provided to EPA

^[3] 2003-2004 renegotiation of MOU to extend timeframe to meet EPA guidance of 8-13 years. As a result, 2003-2004 total submittal goal became 55 over two years.

^[4] Number based on 2004 Integrated Report

^[5] Number based on 2006 Integrated Report.

Table 4: Projects that May Not Meet MOU Timeline

Basin Name	Impairment	Action/Status
Atkisson Reservoir	Nutrients and Sediments (2)	Assigned to staff to discuss with EPA region III at monthly Conference call - request their assistance with these listings since the federal facility Aberdeen Proving Ground claims to continue using this reservoir as a drinking water source.
Aberdeen Proving Ground	Toxics (1)	MDE is working with EPA and Tetratech to review data collected by APG to assist in the determination of impairment and if a TMDL is required.
Bodkin Creek	Copper (1)	EPA is planning to revise its copper criteria for saltwater using the Biotic Ligand Model. Once the saltwater criterion is available the water quality data will be reassessed to determine if Bodkin Creek is impaired.
Baltimore Harbor	Metals (2)	Based on other metals WQA, these listings were not pursued due to insufficient sediment quality guidelines. Currently MDE is in the process of developing sediment quality guidelines for the State. These guidelines could eventually be used as a basis for addressing the metals listings in the Baltimore Harbor. (Note: sulfide levels are high and conditions are anoxic so metals are bound in sediments)
Upper Pocomoke River	Nutrients (2)	Assigned to TMDL program Engineer. Reviewing data, existing models and will provide recommendation to move forward.
Susquehanna River/Conowingo Dam	Nutrients/Sediments (2)	Assigned to TMDL program Engineer. Plan to coordinate with SRBC on revision to existing work and using results from Bay TMDL for "main channel".

Table 5: Eight TMDL/WQA Projects Submitted, but Require Additional Action (i.e. not approved)

Basin Name	Impairment	Action/Status
Baltimore Harbor	Metals (5) Inner Harbor NW Branch (Cr) Inner Harbor NW Branch (Pb) Inner Harbor NW Branch (Zn) Bear Creek (Cr) Bear Creek (Zn)	EPA deferred delisting the waterbody for the metals (i.e. chromium, lead and zinc) until conclusion of a stressor identification study. The findings of the study were inconclusive as to whether metals are a source of toxicity. Additional studies are underway to determine sediment quality thresholds at which metals cause toxicity based on dose-response relationships. MDE is also in the process of developing sediment quality guidelines for the State. These guidelines could eventually be used as a basis for addressing the metals listings in the Baltimore Harbor. Given the sources of impairment and the expertise required to begin to address them additional funding will be necessary.
Baltimore Harbor Deep Channel	Nutrients (2)	Submitted and acknowledged that TMDL does not meet deep channel WQS. Plan to address through Bay TMDL. Note, the Bay TMDL model does not show impairment using allocation scenario. Current action is to wait until Bay TMDL allocation model runs are complete. Also, VIMS is revising the existing MDE Baltimore Harbor model, with funding from MPA, and will update watershed model inputs to CBP version 5.3 (also being used for Bay TMDL).
Edgewater Village Lake	Nutrients (1)	TMDL completed. As a result, EPA approved MDE to complete a Use Attainability Analysis (UAA) since the lake is really used as a stormwater retention area (according to SW program). The listing is on the impaired waters list with 1998 listing date and discussions are ongoing within the Water Quality Standards group to determine an approach on the process for completing UAAs.

Table 6: Federal 319 (h) Grants 1990-2008

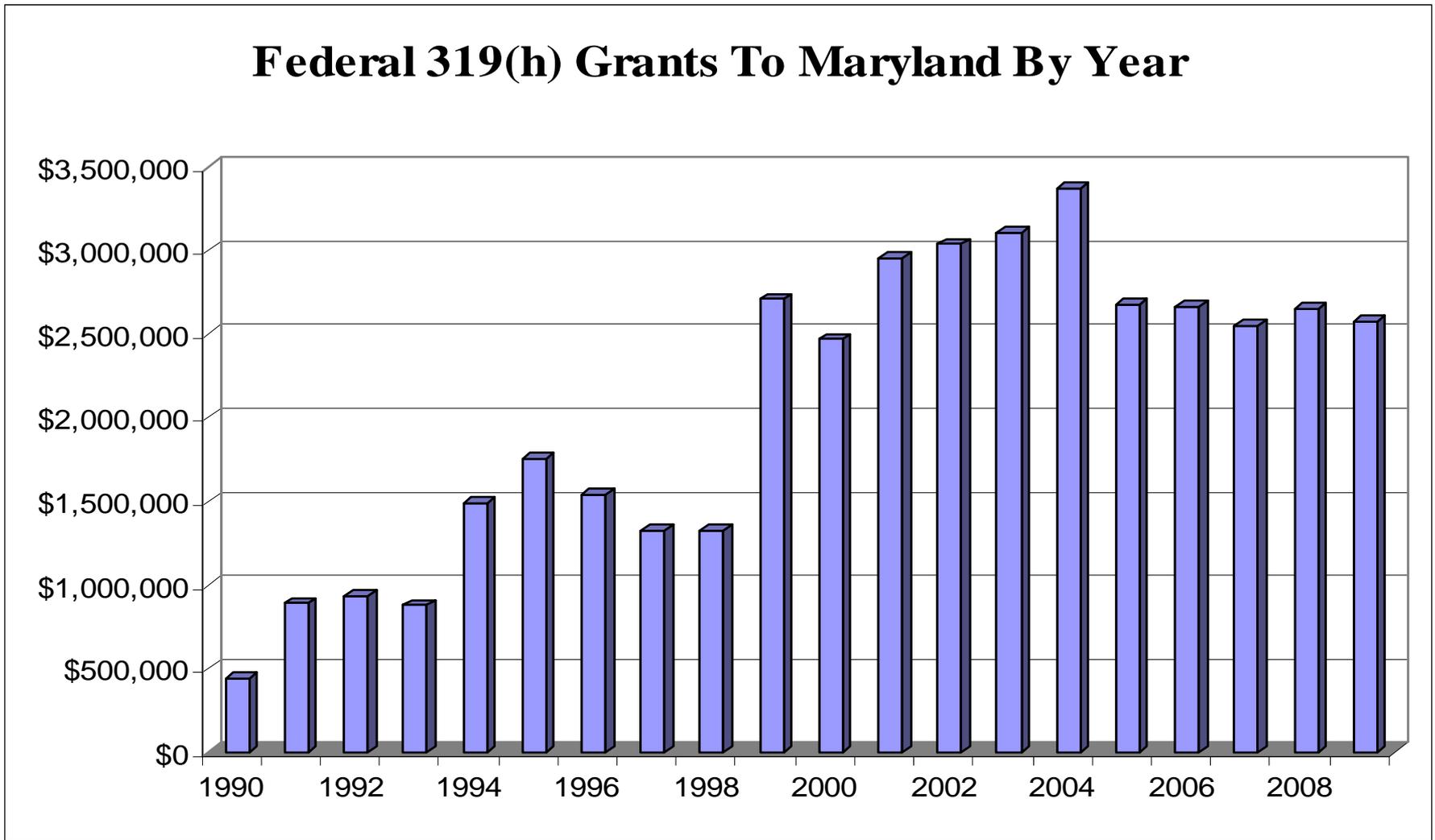


Table 7: 319(h) Grants for 2005-2009

FFY	Grant	Complete Project	MOU Active	In EPA Review	Total Projects By Grant	Grant Status 6/30/09	Grant Start	Grant End	Grant Extended
2010	Base			4	4	Grant application anticipated	07/01/10	06/30/13	
	Incremental			8	8	Grant application anticipated	07/01/10	06/30/13	
2009	Base		6		6	In progress	07/01/09	06/30/13	
	Incremental		5		5	In progress	07/01/09	06/30/13	
2008	Base	8			8	In progress	07/01/08	12/31/10	anticipated
	Incremental	4	5		9	In progress	07/01/08	12/31/10	anticipated
2007	Base	8	4		12	In progress, extended	07/01/07	12/31/09	3/31/10
	Incremental	5	4		9	In progress, extended	07/01/07	12/31/09	3/31/10
2006	Base	7	3		10	In progress, extended	07/01/06	12/31/08	12/31/10
	Incremental	7	2		9	In progress, extended	07/01/06	12/31/08	12/31/10
2005	Base	11			11	In progress, extended	7/1/2005	12/31/07	06/30/10
	Incremental	8	1		9	In progress, extended	10/01/05	12/31/07	06/30/10

Total Projects By Status	58	30	12	100
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Table 8: Watershed Plans Accepted by EPA

Watershed with EPA-Accepted A-I Plan	Jurisdictions	Implementation Total 319(h) Funds
Back River, Upper	Baltimore County	418,500
Corsica River	Centreville, Queen Anne's County, MDA/Queen Anne's SCD	1,299,280
Jones Falls, Lower	Baltimore City/ Baltimore County	0
Monocacy River, Lower	Frederick County	745,250
Spring Brach (Completed)	Baltimore County	240,00
Sassafras River	Sassafras River Association	0
Total		2,703,030

Table 9: County WRE Extensions and Reviews, Updated 4/2/10

Jurisdiction	Requested Extension	Date of Extension Request	Date letter sent for 1st extension (to April 1, 2010) - indicate approval or denial	Date letter sent for 2nd extension (to October 1, 2010) - indicate approval or denial	WRE Review by SSA Completed	Review Date
Allegany County	Yes	10/29/2009	11/10/2009			
Anne Arundel County	Yes	9/21/2009	9/22/2009		Yes	6/10/2009
Baltimore County	Yes	7/31/2009	9/9/2009			
Calvert County	Yes	9/29/2009	9/29/2009		Yes	8/10/2009
Caroline County	Yes	8/24/2009	9/3/2009		Yes	7/24/2009
Carroll County	Yes	7/7/2009	7/29/2009		Yes	12/22/2009
Cecil County	Yes	8/12/2009	8/17/2009		Yes	12/11/2009
Charles County	Yes	8/21/2009	9/3/2009			
Dorchester County	Yes	7/22/2009	8/4/2009		Yes	5/28/2009
Frederick County	Yes	5/11/2009	6/12/2009		Yes	6/4/2009
Garrett County	No				Yes	6/18/2008
Harford County	No				Yes	5/18/2009
Howard County	Yes	7/6/2009	7/20/2009		Yes	12/4/2009
Kent County	Yes	7/21/2009	9/1/2009		Yes	8/7/2009
Montgomery County	Yes	7/1/2009	7/27/2009		Yes	12/22/2009
Prince George's County	Yes	6/5/2009	8/4/2009	1/11/2010	Yes	1/20/2010
Queen Anne's County	Yes	9/8/2009	9/28/2009			
Somerset County	Yes	5/19/2009	7/20/2009		Yes	10/19/2009
St. Mary's County	Yes	9/28/2009	9/29/2009		Yes	6/22/2009
Talbot County	Yes	7/13/2009	8/4/2009		Yes	7/22/2009
Washington County	Yes	7/14/2009	8/4/2009			
Wicomico County	Yes		7/30/2009		Yes	6/25/2009
Worcester County	Yes	8/4/2009	9/9/2009	1/11/2010		

Table 10: Municipalities that have Submitted and Reviewed WREs:

ACCIDENT	ANNAPOLIS
BARCLAY	BEL AIR
BERLIN	BETTERTON
BOONSBORO	BROOKEVILLE
BRUNSWICK	CAMBRIDGE
CECILTON	CHARLESTOWN
CHESAPEAKE CITY	CHESTERTOWN
CHURCH HILL	CRISFIELD
CUMBERLAND	DEER PARK
DELMAR	EASTON
DENTON	LEONARDTOWN
EMMITSBURG	FEDERALSBURG
FREDERICK City	FRIENDSVILLE
FROSTBURG	FRUITLAND
GAITHERSBURG	GOLDSBORO
GRANTSVILLE	GREENSBORO
HAMPSTEAD	HEBRON
HENDERSON	HILLSBORO
HURLOCK	INDIAN HEAD
KEEDYSVILLE	KITZMILLER

LA PLATA	LAUREL
LOCH LYNN HEIGHTS	MARYDEL
MIDDLETOWN	MILLINGTON
MOUNTAIN LAKE PARK	MYERSVILLE
NORTH BEACH	OAKLAND
NORTH EAST	PERRYVILLE
OCEAN CITY	POOLESVILLE
POCOMOKE CITY	PRINCESS ANNE
PORT DEPOSIT	QUEENSTOWN
RIDGELY	SHARPTOWN
SALISBURY	SECRETARY
SNOW HILL	TANEYTOWN
TEMPLEVILLE	THURMONT
TRAPPE	VIENNA
WASHINGTON GROVE	WESTMINSTER
WILLARDS	

Table 11: List of Municipal Extensions: (76 municipalities (continued on next slide))

Jurisdiction	Requested Extension	Date of Extension Request	Date letter sent for 1st extension (to April 1, 2010) - indicate approval or denial	Date letter sent for 2nd extension (to October 1, 2010) - indicate approval or denial	WRE Review by SSA Completed	Review Date
Aberdeen	Yes	7/24/2009	8/3/2009			
Annapolis	Yes	9/9/2009	9/11/2009		Yes	3/3/2009
Barton	Yes	9/16/2009				
Berlin	Yes	7/28/2009	9/1/2009		Yes	11/17/2009
Betterton	Yes	9/10/2009	9/11/2009		Yes	12/3/2009
Brookeville	Yes	7/29/2009	9/9/2009		Yes	12/18/2009
Brunswick	Yes	8/4/2009	8/27/2009		Yes	7/9/2009
Burkittsville	Yes	5/11/2009	6/12/2009			
Cambridge	Yes	9/2/2009	9/3/2009		Yes	7/8/2009
Cecilton	Yes	7/20/2009	8/5/2009		Yes	10/23/2009
Centreville	Yes	7/16/2009	8/5/2009			
Chesapeake Beach	Yes	7/24/2009	9/9/2009			
Chestertown	Yes	8/31/2009	9/3/2009		Yes	12/10/2009
Church Creek	Yes	9/21/2009	9/29/2009			
Church Hill	Yes	7/15/2009	8/5/2009		Yes	11/30/2009
Clear Spring	Yes	9/25/2009	10/2/2009			
Crisfield	Yes	7/12/2009	9/9/2009		Yes	8/9/2009

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Denton	Yes	9/1/2009	9/3/2009		Yes	3/1/2010
East New Market	Yes	8/18/2009	8/26/2009			
Easton	Yes	7/24/2009	8/3/2009		Yes	7/8/2009
Elkton	Yes	8/20/2009	8/24/2009			
Emmitsburg	Yes	9/1/2009	9/9/2009		Yes	8/26/2009
Frederick City	Yes	6/19/2009	7/20/2009		Yes	9/18/2009
Funkstown	Yes	8/27/2009	9/8/2009			
Gaithersburg	Yes	4/6/2009	7/27/2009		Yes	12/3/2009
Glenarden	Yes	8/14/2009	8/20/2009			
Greensboro	Yes	8/10/2009	8/18/2009		Yes	7/22/2009
Hagerstown	Yes	7/13/2009	8/5/2009			
Hampstead	Yes	7/7/2009	7/29/2009		Yes	11/17/2009
Hancock	Yes	9/23/2009	10/2/2009			
Havre de Grace	Yes	6/29/2009	7/20/2009			

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Hebron	Yes	7/8/2009	7/29/2009		Yes	7/8/2009
Hillsboro	Yes	9/22/2009	10/5/2009		Yes	8/13/2009
Hurlock	Yes	7/17/2009	8/7/2009		Yes	10/1/2009
Indian Head	Yes	8/17/2009	9/9/2009		Yes	8/10/2009
Keedysville	Yes	8/12/2009	8/17/2009		Yes	10/1/2009
Laytonsville	Yes	6/5/2009	7/20/2009			
Leonardtwn	Yes	7/15/2009	8/7/2009		Yes	3/2/2010
Lonaconing	Yes	10/9/2009	10/15/2009			
Manchester	Yes	7/7/2009	7/29/2009			
Mardela Springs	Yes	8/10/2009	8/17/2009			
Middletow n	Yes	4/14/2009	6/12/2009		Yes	9/21/2009
Mount Airy	Yes	7/28/2009	8/3/2009			
Mountain Lake	Yes	8/18/2009	9/22/2009		Yes	7/8/2009
Myersville	Yes	4/15/2009	6/12/2009		Yes	9/21/2009
New Market	Yes	7/10/2009	8/6/2009			
New	Yes	7/7/2009	7/29/2009			

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North Beach	Yes	7/31/2009	8/3/2009		Yes	3/3/2010
Ocean City	Yes	7/28/2009	8/3/2009		Yes	8/10/2009
Oxford	Yes	9/4/2009	9/22/2009			
Perryville	Yes	8/4/2009	9/3/2009		Yes	4/9/2009
Pittsville	Yes	10/1/2009	10/7/2009			
Pocomoke City	Yes	7/7/2009	7/27/2009		Yes	8/17/2009
Preston	Yes	7/31/2009	8/7/2009			
Princess Anne	Yes	4/27/2009	7/20/2009		Yes	7/31/2009
Queen Anne	Yes	7/17/2009	8/17/2009			
Queenstown	Yes	8/6/2009	8/18/2009		Yes	2/26/2010
Rising Sun	Yes	8/12/2009	8/18/2009			
Rock Hall	Yes	7/21/2009	9/1/2009			
Rockville	Yes	7/31/2009	8/3/2009			
Rosemont	Yes	5/11/2009	6/12/2009			
Salisbury	Yes	7/28/2009	8/3/2009		Yes	2/26/2010
Secretary	Yes	8/10/2009	8/18/2009			
Smithsburg	Yes	8/4/2009	8/17/2009			
Snow Hill	Yes	7/23/2009	8/7/2009		Yes	10/28/2009
Sudlersville	Yes	9/2/2009	9/25/2009			

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Sykesville	Yes	7/7/2009	7/29/2009			
Taneytown	Yes	7/27/2009	8/3/2009		Yes	12/22/2009
Thurmont	Yes	9/8/2009	9/17/2009		Yes	5/28/2009
Trappe	Yes	7/28/2009	8/3/2009		Yes	7/8/2009
	Yes	7/7/2009	7/29/2009			
Walkersville	Yes	7/21/2009	8/3/2009			
	Yes	7/7/2009	7/29/2009		Yes	8/14/2009
Willards	Yes	7/15/2009	8/5/2009		Yes	8/4/2009
	Yes	8/11/2009	8/17/2009			
Woodsboro	Yes	9/11/2009	9/17/2009			