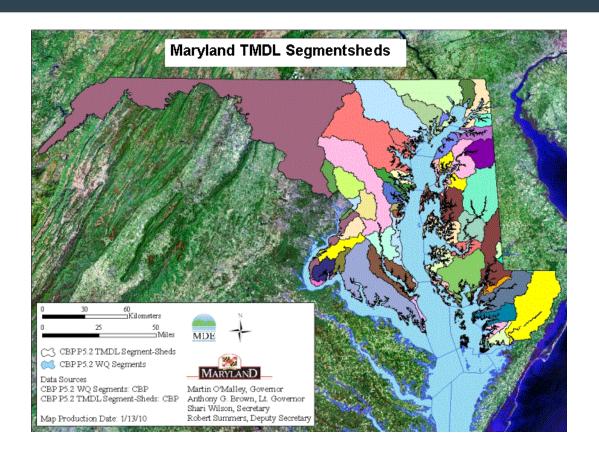


#### Phase II WIP Development



Potomac River Basin Drinking Water Source Protection Partnership Meeting April 26<sup>th</sup>, 2011















#### Phase II: Bottom Line

#### To avoid getting lost in the details...

... lets boil it down to the basics:

- Allocations: For the major source sectors
- 2-Year Milestone Commitments for 2012 & 2013:
  - Implementation Actions
  - Program Development Actions
- 2017 Interim Strategy: Plausible actions for achieving 70% of the Final Target by 2017.
  - Implementation Actions
  - Program Development Actions













#### Break it Down by Sector

- Agriculture: Expanding & Adding Programs
- Municipal Wastewater:
  - Major ENR upgrades
  - Minor Upgrades? Some have been proposed.
- Stormwater:
  - Phase I & II MS4s: Target has been set in Phase I WIP
  - Opportunities for alternative reductions in near term
- Septic Systems:
  - An approach has been proposed in Phase I WIP
  - Consider alternative reductions
- Other: Industrial sources, Atmospheric...













#### Basic Expectations of WIP

- Interim & Final Target Loads
- Strategies to Meet Targets
  - Strategy Narrative
  - Load Reduction Analysis (& Gap Analysis)
  - Cost Estimate & Strategy to Address Funding Gap
  - Schedule for "Program Development" (Including Funding)
- Contingency Strategies
- Tracking, Reporting and Verification
- Accounting for Growth in Loads
- Capacity Analysis & 2-Year Milestones













#### Overview of Phase II Process

- Set up Local Teams
- Spring Activities before Numbers are Available\*
- Orientation to Load Analysis Tools
- Assess Revised Phase I Allocations & Strategies
- Discuss & Refine Strategies and Target Loads
  - Reach Consensus, Use State Default or Hybrid
- Validate Revised Strategies via EPA Models
- Finish Writing Phase II Document
- Finalize 2-yr Milestones by end of 2011
- Public Review & Revise WIP (Fall of 2012)











<sup>\*</sup> Described in Next Slide



#### Let's Get Tangible

### New Numbers are not Ready until Late Spring... ... but there is Plenty to be Done.

#### Winter/Spring WIP Development Activities:

- Get Oriented (Study the Background Materials)
- Form Local Teams (Identify Local Primary Contacts)
- Local Governments: Setup Internal Coordination
- Determine "Current Capacity" for Implementation
  - Begin Developing 2-Year Milestones
  - Describe Tracking & Reporting (Current & Aspirations)
  - Start WIP Report Documentation
  - Prepare for Analyzing "the Numbers"
  - Prepare for Trading and Offsetting Future Loads













#### Phase I Interim Targets

#### Nitrogen Reductions by 2017

| Source            | Reduction (lbs) | Primary Strategy   |
|-------------------|-----------------|--|
| Agriculture       | 1,100,000       | Many Practices   |
| Wastewater        | 5,651,000       | ENR Upgrades   |
| Stormwater        | 448,000         | Retrofit 20% - 30% of Developed land w/o Stormwater Controls |
| Septic<br>Systems | 290,000         | Upgrade about 60%<br>of systems in the<br>Critical Area      |











#### **Current Capacity Assessment**

- Predict the pace of implementation in the future
- Based on "current resources" (capacity)
- Worksheets to Standardize Information Request:

Section I: Point Source Implementation Plan

| WWTP         |        | Water Shed                       | Permitted | Current Avg                 | Existin   | ng Limits                                   | Strategles/Plans   | Barriers/Sol  | lutions  | Tech Assistances Need  | d New Initiativ  | es Tracking  | Stakehol  | der Roles  |  |   |   |
|--------------|--------|----------------------------------|-----------|-----------------------------|---|---|--|---|--|--|--|--|---|--|--|---|---|
|              | Town - |                                  | Flow      | Dally Flow                  | Nitrogen  | Phosphorus                                  |  | 0.0000000000000000000000000000000000000   | economies E  |  | CONTRACTOR (1999)  | & Monitorin  | g In Implem   | nentations   |  |   |   |
|              | County | r-C                              | MGD       | MGD                         |   |   |  |   |  |  |  |  |   |  |  |   |   |
|              | т      |                                  | 20000     | 674841000                   | 100000000000000000000000000000000000000             |   | Danasky uporodod   | The 304 Corridor  | ele a  | rature mond to braun return  | nad  | T  |   |  |  |   |   |
| Millington   | ċ      | Upper Chester                    | 0.105     |                             | m II D:<br>rshed Res                                | toration and                                | Education Progr  | amis  |  |  |  |  |   |  |  |   |   |
| Worton       | С      | Middle Chester<br>(Morgan Creek) | 0.15      | The fo<br>be alig<br>recent | ollowing to<br>gued to pro<br>by released           | ble is adapte<br>steet and rest<br>TMDL Imp | enting the Strates<br>of from "A Users C<br>one watersheds. In<br>Mementation Guida<br>e.md.us/Frogr   | ruide to Wate<br>addition, this<br>mee. For more  | s format also<br>re informati  | o marrors an appro<br>on   | sch outlined in  | Maryland Dep   | artment of t  | he Environment   | 's   |   |   |
| Kennedyville | С      | Middle Chester<br>(Morgan Creek) | 0.06      |                             | Vatershed<br>tection To                             | 05000                                       |  |   | 9  | Maryland's<br>2009 Urt   | an Acres l   |  |   |  |  |   |   |
| 8.50         |        |                                  |           | Storm                       |   |   |  |   |  | ial Pollutant  |  |  |   |  |  |   |   |
|              |        | SW 5                             |           | Mana                        | iwater<br>gement for<br>levelopmer                  |   | Permitted Juris  | lictions  |  | County and   | te Storm S<br>Municipal  |  | tem An  | nual Repor   | ts<br>m Urban Acres  | Bud<br>(Thous   |   |
| Tolchester   | С      | Still Pond-<br>Fairlee           | 0.265     | Mana                        | gement for  | at .  | Permitted Juris  | dictions  Total Land Area (Acres)   |  | cipal Separ  | Municipal<br>rvious Acres<br>Referation<br>Regulared Thru  |  | tem An  | nual Repor   | ts<br>m Urban Acres  | Bud<br>(Thous<br>Operating  |   |
|              | С      |                                  | 0.265     | Mana                        | gement for  | at .  | County Permit  | Total Land<br>Area (Acres)  | Muni<br>Cutteded<br>Impervious Area  | County and<br>Baseline Imp   | Municipal rvious Acres  Redecation Required Thru Current Permit Term (Acres)   | Restocation<br>Required Thrus<br>Current Formal<br>Term 4s   | Chesaper<br>(In<br>Total Urban<br>Lead in   | nual Repor   | m Urban Acres Pervious)  Equivalent Urban Waterched Acres Return then Permi  | (Thous  | Capital   |
|              | С      |                                  | 0.265     | Mana                        | gement for  | at .  | County Permit<br>inicipality Issuance  | Total Land<br>Area (Acres)<br>4 265,477   | Muni  Varieted Impervious Area (Arres) <sup>2</sup>  | County and Baseline Imp Restored Perrun Restore  | Municipal<br>rvious Acres<br>Redecation<br>Regulard Thru<br>Curvat Franci<br>Term (Acres)  | Restocation<br>Required Thrus<br>Current Formal<br>Term 4s   | Chesape<br>(In<br>Total Urban<br>Land in<br>County  | nual Repor<br>also Bay Program<br>apervious and I<br>Equivalent Crises<br>Watershell Acres<br>Kentered <sup>44</sup>   | m Urban Acres Pervious) Equivalent Urban Waterfield Acres Rectantion Fermat Requirement  | (Thous<br>Operating   | Capital<br>S7,21  |
| Tolchester   |        | Fairlee                          |           | Mana                        | gement for  | at .  | County Permit Interpolity Inte | Total Land<br>Area (Acres)<br>4 265,477<br>5 51,418   | Muni  Cattered Impervious Area (Aure) <sup>2</sup> 45,172  | County and Baseline Imp Restored Perrun Restore 1,094 2.   | Municipal rvious Acres Redecation Registed Thru (Acres) Term (Acres) 4,517 4,675   | Retoration<br>Required Thrus<br>Current Fermal<br>Term in<br>10%   | Checaper<br>(In<br>Total Urban<br>Landin<br>Councy'<br>130,081  | nual Repor<br>ake Bay Program<br>apervious and I<br>Equivalent Urban<br>Watershed Acres<br>Restored <sup>54</sup><br>5,414   | m Urban Acres Pervious)  Equivalent Urban Waterthed Acres Restartion Forum Regularment  22,356   | (Thous<br>Operating<br>\$9,894  | Sands) Capital  \$7,21  \$3,49  |
|              | С      |                                  | 0.265     | Mana                        | gement for  | at .  | County Permit Invariant In | Total Land<br>Area (Acres)<br>4 265,477<br>5 51,418<br>5 280,060  | Muni  Valuesed Imperiest Area (Aires)  45,172  23,373  | County and Baseline Imp Restored Percent Restored 1,094 2.1,659 7.   | Municipal revious Acres  Endersine Required Time Current Permit Term (Acres)  4,517  4,675  4,675  5,3,105   | Restoration<br>Required Thra<br>Current Fermit<br>Term 40<br>20%   | Checape<br>(In<br>Total Urban<br>Lead in<br>County <sup>2</sup><br>130,081<br>48,407  | nual Reportation and I Equivalent Urbeat Westerhold Acres Restored 5,414 8,210   | m Urban Acres Pervious)  Equerded Urban Watershed Acres Respiration Forum Respiration  22,356  23,135  | (Thous<br>Operating<br>\$9,894<br>\$9,442   | Sands) Capital \$7,21 \$3,49 \$8,87   |
| Tolchester   |        | Fairlee                          |           | Mana                        | gement for  | at .  | Permit Formace 11/8/200 1/3/200 6/15/200   | Total Land<br>Area (Acres)<br>4 265,477<br>5 51,418<br>5 280,060<br>1 324,552   | Muni  Catterine Imperviont Area (Arres)  45,172  23,373  31,090  | County and   | Municipal revious Acres  Rederation Registed Time Current Permit Term (Acres) 4, 517 4, 675 4, 3,105 5, (6)  | Restoration<br>Required Thra<br>Carross Forms<br>10%<br>20%<br>10%   | Chesaper<br>(In<br>Total Urban<br>Land in<br>Councy<br>130,081<br>48,407<br>158,831   | nual Repor<br>alce Bay Program<br>apervious and I<br>Equivalent Urbon<br>Watershed Acres<br>Entered**<br>5,414<br>8,210<br>32,743  | m Urban Acres Pervious)  Equerded Urban Watershed Acres Respiration Forum Respiration  22,356  23,135  | (Thous<br>Operating<br>\$9,894<br>\$9,442<br>\$7,646  | sands)  |
| Tolchester   |        | Fairlee                          |           | Mana                        | gement for  | at .  | Density Dennis (Source 11/8/200 1/3/200 6/15/200 7/5/200 1/3/200 1/200 | Total Land<br>Area (Acres)<br>4 265,477<br>5 51,418<br>6 280,060<br>0 324,552<br>4 311,680  | Muni  Value 144 Impervious Area (Arrei)  45,172  23,373  31,090  25,800                                      | County and Baseline Implementaries   County an | Municipal avious Acres Required Tarm Carried Terms Carried Terms (Acres 4.617 % 4.675 % 3.105 % 3.571  | Retocration<br>Reposted Then<br>Carried Fernal<br>Term to<br>10%<br>20%<br>10%<br>0 10%  | Chesaper<br>(In<br>Total Urban<br>Land in<br>County <sup>3</sup><br>130,081<br>48,407<br>158,831<br>155,518                     | nual Reportation and Equivalent Crisis and Equivalent Crisis Waterled Across Entertain 4.9414  8.210  32,743  4,983  | m Urban Acres Pervious) Toperstons Drba Waterhed Acres Returning Drung Requirement 22,356 23,135 15,387  | (Thous<br>Operating<br>\$9,894<br>\$9,442<br>\$7,646<br>\$7,933   | Sands) Capital \$7,21 \$3,49 \$8,87 \$6,02                                  |
| Tolchester   |        | Fairlee                          |           | Mana                        | gement for  | at .  | Desarty Desarts articled by 11/8/200 13/200 5/15/200 7/5/200 10/13/200 10/13/200   | Total Land<br>Area (Acres)<br>4 265,477<br>5 51,418<br>6 280,060<br>1 324,552<br>4 311,680<br>5 289,280   | Muni  Value od Imperiora Area (Arror)  45,172  23,373  31,090  25,800  35,712                                | County and Baseline Imp  | Municipal rvious Acres  Municipal rvious Acres  Exercision Required Tara Current Person  5-4, 517  5-4, 675  5-6, 3,105  5-6, 3,577  5-7, 1,134  | Redecides<br>Repried Tyre<br>Ceres From<br>Tyres 8:<br>10%<br>20%<br>10%<br>0%<br>10%  | Chesape.<br>(It<br>Total Viban<br>Ladin<br>Counts <sup>3</sup><br>130,081<br>48,407<br>158,831<br>155,518<br>153,107            | nual Repor<br>also Bay Program<br>appervious and II<br>Equitable Orban<br>Waterbell Area<br>Krainerd**<br>5,414<br>8,210<br>32,743<br>4,983<br>3,271   | m Urban Acres ervinos  Egerstes Vrba Wairchel Acres Eegelranes  22,356  23,135  15,887  0  17,674  | (Thous<br>Operating<br>\$9,894<br>\$9,442<br>\$7,646<br>\$7,933<br>\$24,415                             | \$7,21<br>\$3,49<br>\$8,87<br>\$6,02<br>\$17,810                            |
| Tolchester   |        | Fairlee                          |           | Mana<br>new d               | gement for<br>levelopmen                            | at .  | Donate: Bonatace  11/8/200 2 1/3/200 (6/15/200 7/5/200 10/13/200 7/14/200  | Total Land Area (Acres) 4 265,477 5 51,418 5 280,060 4 324,552 4 311,680 5 289,280 2 289,011  | Muni  Cattested Impervious Area (Aurus)  45,172 23,373 31,090 25,800 35,712 11,344                           | County and Baseline Imp  | Municipal revious Acres   Excitation Register Transported Press   Experience Press   Expe | ### Sys  ###################################   | Chesape.<br>(It<br>Total Viban<br>Laddin<br>County <sup>2</sup><br>130,081<br>48,407<br>158,831<br>155,518<br>153,107<br>71,451 | nual Reportation and Experience and  | m Urban Acres ervinos  Egerstes Vrba Wairchel Acres Eegelranes  22,356  23,135  15,887  0  17,674  | (Thous<br>Operating<br>\$9,894<br>\$9,442<br>\$7,646<br>\$7,933<br>\$24,415<br>\$344                    | Sands)  Capital  \$7,21* \$3,49 \$8,87* \$6,02 \$17,810 \$2,770             |
| Tolchester   |        | Fairlee                          |           | Mana<br>new d               | gement for<br>levelopment                           | M. M.                                       | Desarty Permit Instantial Instant | Total Land<br>Area (Acres)<br>4 265,477<br>5 51,418<br>5 280,060<br>0 324,552<br>4 311,080<br>5 289,280<br>0 289,011<br>2 424,141                           | Muni  Value Med Area (Aurea)  45,172  23,373  31,090  25,800  35,712  11,344  2,607                          | County and Baseline Implementaries   County an | Municipal revious Acres  Bederima  B | ### Sys  ###################################   | Chesaper (Ir<br>Total Urban Laudin County 130,081<br>48,407<br>158,831<br>155,518<br>153,107<br>71,451<br>47,225                | nual Reportation and February States and Febru | m Urban Acres ervinos  Egerstes Vrba Wairchel Acres Eegelranes  22,356  23,135  15,887  0  17,674  | (Thous<br>Operating<br>\$9.894<br>\$9.442<br>\$7,646<br>\$7,933<br>\$24,415<br>\$344<br>\$355           | S7,21<br>\$7,21<br>\$3,49<br>\$8,87<br>\$6,02<br>\$17,81<br>\$2,77<br>\$47. |
| Tolchester   | т      | Fairlee Middle Chester           | 0.9       | Mana, new d                 | gement for<br>levelopment<br>enance of<br>ng stormw | M. M.                                       | County Permit Instantion   11/8/200   13/200   6/15/200   7/5/200   7/14/200   7/51/200   3/11/200  | Total Land<br>Ares (Acres)<br>4 265,477<br>15 51,418<br>15 280,060<br>11 324,552<br>14 311,080<br>15 289,280<br>12 289,281<br>12 424,141<br>14 286,490      | Muni  Cubesté lisperviou dres (45,172 23,373 31,090 25,800 35,712 11,344 2,607 6,725                         | County and Baseline Imp  | Municipal revious Acres   Storm   Stor | Research Regard Tars to 10%   00%   00%   10%   00%   10%   00%   10%   00%   10%   00%   10%   00%   10%   00%   10%  | Chesaper (I) Teral Urban Land in Councy 1 130,081 48,407 158,831 155,518 153,107 71,451 47,225 87,435                           | nual Reportation and Program spervious and Program Sequence (Communication Sequence  | m Urban Acres Pervious Egenden Urban Egenden | (Thouse<br>Operating<br>\$9,894<br>\$9,442<br>\$7,646<br>\$7,933<br>\$24,415<br>\$344<br>\$355<br>\$643 | \$7,21<br>\$3,49<br>\$8,87<br>\$6,02<br>\$17,81<br>\$2,77<br>\$47.          |
| Tolchester   | т      | Fairlee Middle Chester           | 0.9       | Mana, new d                 | gement for<br>levelopment                           | M. M.                                       | Donaty Permit Insurance   11/8/200   1/3/200   | Torol Land<br>Ares (Acres)<br>4 265,477<br>5 51,418<br>5 280,060<br>1 324,552<br>4 311,680<br>5 289,280<br>2 289,011<br>2 424,141<br>4 286,490<br>5 160,640 | Muni  Custosted Department Area (Aurer)  45,172  23,373  31,090  25,800  35,712  11,344  2,607  6,725  8,308 | County and Baseline Imp  | Municipal rytions Acres   Executive Registration   Executive Registrati | Restrict Sys   Rest | Chesaper (In Councy)  Total Urban Liad in Councy  130,081  48,407  158,831  155,518  153,107  71,451  47,225  87,435  74,393    | nual Reportation and Exercises and Exercises Area Watershell Area Science 4 983 4 983 3 271 3 908 223 3 608 1 267  | m Urban Acres ervbox  Egerslest Vrba Waisrieled Acres Engelsment 22,356 23,135 15,387 0 17,674 5,614 0 0 4,112   | (Thouse<br>59,894<br>\$9,442<br>\$7,646<br>\$7,933<br>\$24,415<br>\$344<br>\$355<br>\$643<br>\$1,300    | \$7,21* \$3,49 \$8,87* \$6,02 \$17,810 \$2,770 \$47. \$24*                  |















#### Example: Stormwater

#### • Phase I MS4 Jurisdiction Retrofit Goals

#### Maryland's Stormwater Management Program 2009 Urban Acres Restored and Planned

as reported in

National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System Annual Reports

|                        | Municipal Separate Storm Sewer System Annual Reports |                            |  |          |                          |  |  |   |  |  |           |          |
|------------------------|--|----------------------------|--|----------|--------------------------|--|--|---|--|--|-----------|----------|
| Permit                 | ted Jurisdi  | ctions                     |  |          | inty and M<br>ine Imperv | unicipal<br>ious Acres   |  |   | ake Bay Program<br>npervious and P                             | Budget<br>(Thousands)  |           |          |
| County<br>Municipality | Permit<br>Issuance                                   | Total Land<br>Area (Acres) | Untreated<br>Impervious Area<br>(Acres) <sup>1</sup> | Restored | Percent<br>Restored      | Restoration<br>Required Thru<br>Current Permit<br>Term (Acres) | Restoration<br>Required Thru<br>Current Permit<br>Term % | Total Urban<br>Land in<br>County <sup>2</sup> | Equivalent Urban<br>Watershed Acres<br>Restored <sup>3,4</sup> | Equivalent Urban<br>Watershed Acres<br>Restoration Permit<br>Requirement | Operating | Capital  |
|                        | 11/8/2004  | 265,477                    | 45,17  | 1,094    | 2.4%                     | 4,517  | 10%  | 130,081                                       | 5,414  | 22,356   | \$9,894   | \$7,217  |
| observe the            | 1/3/2005   | 51,418                     | 23,378   | 1,659    | 7.1%                     | 4,675  | 20%  | 48,407  | 8,210  | 23,135   | \$9,442   | \$3,491  |
|                        | 6/15/2005  | 280,060                    | 31,090   | 6,616    | 21.3%                    | 3,109  | 10%  | 158,831                                       | 32,743   | 15,387   | \$7,646   | \$8,879  |
|                        | 7/5/2001   | 324,552                    | 25,800   | 1,007    | 3.9%                     | 0  | 0%   | 155,518                                       | 4,983  | 0  | \$7,933   | \$6,021  |
| State Protect          | 10/13/2004   | 311,680                    | 35,7 2   | 661      | 1.9%                     | 3,571  | 10%  | 153,107                                       | 3,271  | 17,674   | \$24,415  | \$17,816 |
|                        | 7/14/2005  | 289,280                    | 11,3-4   | 669      | 5.9%                     | 1,134  | 10%  | 71,451  | 3,308  | 5,614  | \$344     | \$2,776  |
|                        | 7/31/2002  | 289,011                    | 2,6  | 45       | 1.7%                     | 0  | 0%   | 47,225  | 223  | 0  | \$355     | \$472    |
|                        | 3/11/2002  | 424,141                    | 6,725  | 729      | 10.8%                    | 0  | 0%   | 87,435  | 3,608  | 0  | \$643     | \$247    |
|                        | 11/1/2004  | 286,490                    | 8,308  | 256      | 3.1%                     | 831  | 10%  | 74,393  | 1,267  | 4,112  | \$1,300   | \$1,600  |
|                        | 6/20/2005  | 160,640                    | 11,70  | 255      | 2.2%                     | 1,170  | 10%  | 72,459  | 1,262  | 5,792  | \$3,049   | \$2,682  |
|                        | 10/21/2005   | incorporated               | 20,720   | 302      | 1.5%                     | 414  | 2%   | incorporated                                  | 1,494  | 2,051  | \$2,865   | \$2,865  |
| Total:                 |  | 2,682,748                  | 201,835  | 13,292   | 6.6%                     | 19,422   | 9.6%   | 998,907                                       | 65,784   | 96,122   | \$67,886  | \$54,065 |















Permitted Jurisdict

County

Municipality

Permit

Issuance

11/8/2004

1/3/2005

6/15/2005

7/5/2001

10/13/2004

7/14/2005

7/31/2002

3/11/2002

11/1/2004

6/20/2005

10/21/2005

#### Current Capacity: Stormwater



2007 622 acres

2008 930 acres

2009 + 712 acres

Local Knowledge

Total 2,274 acres /3 yrs =

~ 758 ac/year

| 31,410  | 23,373 | 1,039 | 7.170  | 4,073   | 2076  | 40,407  | 0,210  |
|---------|--------|-------|--------|---------|-------|---------|--------|
| 280,060 | 31,090 | 6,616 | 21.3%  | 3,109   | 10%   | 158,831 | 32,743 |
|         | (      | Othe  | r Co   | nside   | ratio | ns:     |        |
| Cu      | rrent  | Cap   | ital E | Budge   | et    |         |        |
| Sta     | atus c | of Pr | oject  | s in th | ne Pi | peline  | 9      |





rban Acres

quivalent Urban

Vatershed Acres

storation Permit Requirement

22,356

23.135

15,387

17,674

5.614

4.112

5.792

2.051



Budget

(Thousands)

Operating

\$9,894

\$9,442

\$7,646

\$7,933

\$24,415

\$344

\$355

\$643

\$1,300

\$3,049

\$2,865

\$67,886

Capital

\$7,21

\$3,491

\$8,879

\$6,021

\$17,816

\$2,776

\$472

\$247

\$1,600

\$2,682

\$2,865

\$54,065

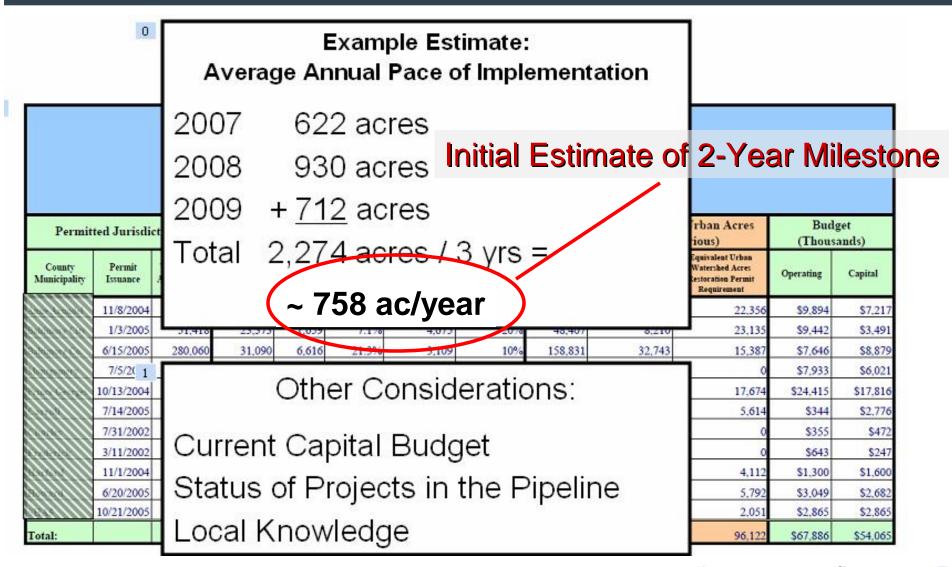




Total:



#### 2-Year Milestone: Stormwater

















#### Current Capacity: Other Aspects

- Legal & Regulatory
- Financial
- Staffing
- Technical
- Programmatic
- Narratives:
  - Current Programs
  - Identify Barriers, Needs, Gaps







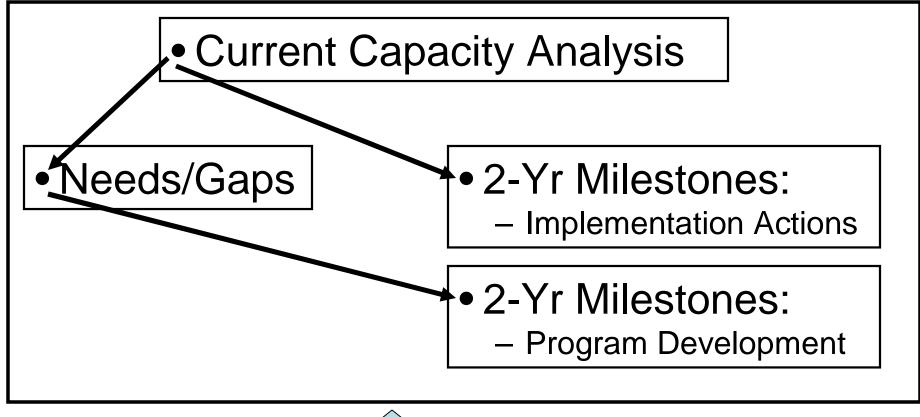








#### Connecting the Dots





Strategy Development









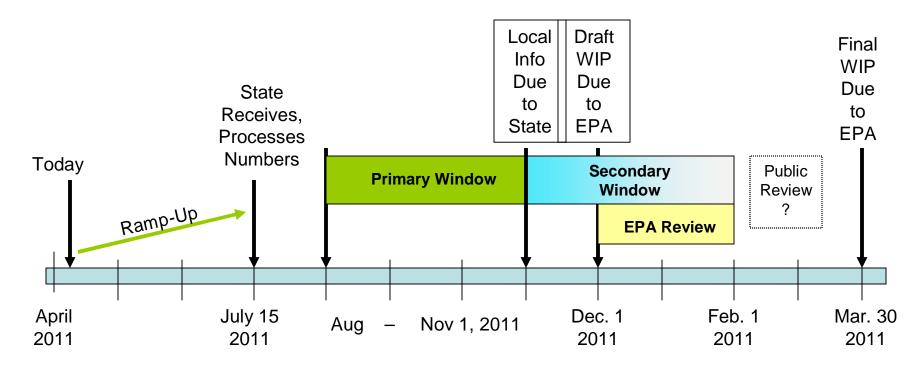






#### The Phase II Schedule

- The schedule is Tighter than Desired
- We will Need to Simplify where Possible















#### What is a "Phase II WIP"?

- EPA requests One Phase II WIP from Maryland
- Basic Composition of Phase II WIP Document:
  - Statewide Summary
  - County-scale Chapters
- Jurisdictions May Develop More In-depth Plans:
  - Included with WIP as an Appendix, or
  - Referenced outside of the WIP:
    - Locally maintained document
    - Web link to on-going local watershed planning













#### 2-Year Milestones

- 2013 Milestones are a Key Focus:
  - Near-Term Tangible Commitments
  - Basis of the First EPA Evaluation (Not Counting Delivery of WIP)
  - Many Local Team members can develop these now
- Two Categories of Milestone Commitments:
  - Accelerated Implementation Actions
  - Program Enhancement Actions (these Support WIP Strategies)
- Give Advanced Notice to Senior Local Officials:
  - Begin Developing and Elevating Milestone Options
  - Schedule Future Briefings of Elected Officials if Necessary













#### **MD Assessment Scenario Tool**

#### Modeling

- Use reduced form model to produce preliminary results
- Consistent with EPA Bay TMDL models
- Stakeholder involvement in scenario development
- Iterative process
- Information Management System to
  - Facilitate consistent and transparent approach
  - Combine WIP Team scenarios for direct input into EPA Bay Model











### Next Steps

| Month | Activities   |
|-------|--|
| March | <ul> <li>Next Local Team Meetings:         <ul> <li>Affirm Local Team Composition</li> <li>Follow-up Introductory Materials</li> <li>Initial Responses to Info. Request</li> </ul> </li> </ul>   |
|       | <ul> <li>Start Documenting Tracking Systems</li> </ul>   |
|       | •Next Local Team Meetings:   |
| April | <ul> <li>Start Working on the Current Capacity</li> <li>Request Due in May</li> <li>Start Documenting Tracking Systems</li> </ul>  |
|       | MARYLAND SECTION AND SECTION A |

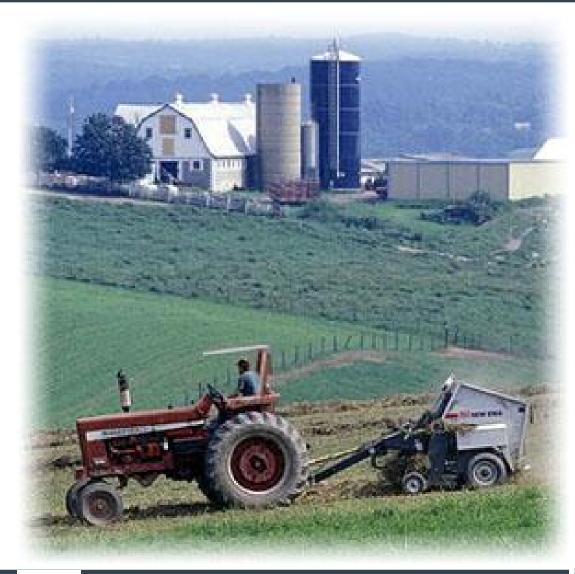








### A Word on Agriculture















# Agriculture's Role in WIPII

- Development & Implementation of Agricultural Component of WIPII
- Assist County Government in Development & Implementation of the Urban Component
  - E & S and Environmental Site Design
- Work with planning office on Smart Growth policy
  - Trading & Offsets















## Development & Implementation of Agricultural Component of WIPII

- SCD assigned county load allocation for agriculture
- Develop 2 year implementation goals
- Utilize Ag workgroups
- Report plan back to county WIP Teams
- Already developed in MOUs for 2009 & 2012
- Tracked & reported through Conservation Tracker















#### Participants

- SCD
- Natural Resources Conservation Service
- UMD Extension
- Agribusiness
- Farm Service Agency
- Farm Bureau
- Farmers
- County Agricultural/Environmental Planner
- NGOs















# Assist County in the Development & Implementation of Urban Component (SCD Role)

- Districts delegated E & S review
- Expanded role to provide pre-construction conferences
- New stormwater regulation require Environmental Site Design















#### Work with Planning Office on Smart Growth Policy

- Districts provide counties, municipalities and the developers the access to farmers and landowners willing to trade and have offsets
- Districts provide verification and inspection of offsets
- Developers will need permanent offsets that require easements
- District funding to develop and implement program















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