

**11. Monitoring Indicators: Describe how indicators will be monitored to evaluate the effectiveness of implementation. If water quality standards and criteria are selected as indicators, describe how water quality will be monitored. Monitoring for other goals may include spot-checking, landowner participation, adoption of practices, or other measurements.**

**Monitoring Plan for short-term goals:**

1. Reduce sediment loading by 50% or to "T" levels Action:
  - Install 75 acres (at 20ft. wide) of filter strip in subwatersheds 6,16,17,18,23,24,25,26, MF4,8,9 and 10.
2. Action:
  - Develop and implement nutrient management plans for subwatersheds 16,17,18,24 and 25.

Monitoring:

- Gauged by landowner participation, progress will be tracked by In. Conservation Partnership members using ArcView, and reported semi-annually to Partnership and IDEM. Progress will be noted in updates/revisions to this Watershed Management Plan.
  - Gauged by load reduction over time, water quality monitoring will be performed using Hoosier Riverwatch "Advanced Chemical Monitoring" and "Stream Flow" methods, except for Total Suspended Solids (TSS), which will need to be performed by a laboratory. Samples for stream flow, TSS, nitrate, and ortho & total phosphate will be analyzed biannually- during both wet-season and dry-season conditions, by trained personnel. Results will be used to compute loadings and compared to baseline measurements. Monitoring sites will be the same as those used during Harza's Diagnostic Study of Pigeon Creek and McFadden Creek.(see map, Figure 30, at end of this section) Monitoring will not begin until significant adoption of BMP's has occurred.
3. Action:
    - Develop and implement manure mgt. plans in subwatersheds 20, MF4, 8 and 9.

Monitoring:

- Gauged by percentage of landowner participation in targeted watersheds, progress will be tracked by In. Conservation Partnership members using ArcView, and reported semi-annually to Partnership and IDEM. Progress will be noted in updates/revisions to this Watershed Management Plan.
4. Action:
    - Plan, survey, design and install waste mgt. practices in subwatersheds 20, MF4, 8 and 9.

Monitoring:

- Gauged by percentage of landowner participation in targeted watersheds (confirmed by site visits), progress will be tracked by In. Conservation Partnership members using ArcView, and reported semi-annually to Partnership and IDEM. Progress will be noted in updates/revisions to this Watershed Management Plan.
5. Action:
    - Preliminary Engineering Reports for wastewater disposal systems, Gibson, Vanderburgh, Warrick and Posey counties.

Monitoring:

- Gauged by initiation and completion of PER's in four counties in the watershed. Reported semi-annually to Partnership and IDEM. Progress will be noted in updates/revisions to this Watershed Management Plan.

6. Action:

- Provide educational opportunities specific to watersheds and water quality for all citizens of the watershed. Encourage landowners to install BMP's. Our proposal is to hire a "Watershed Educator".

Monitoring:

- After hiring Watershed Educator, success will be gauged by: number of stakeholders exposed to watershed information or programs; quantity of programs presented; quantity of news releases/articles published; number of students exposed to hands-on water quality testing; number of agricultural land owners/users contacted about best management practices. Reported monthly to SWCD's, semiannually to Partnership and IDEM. Progress will be noted in updates/revisions to this Watershed Management Plan.

Figure 31

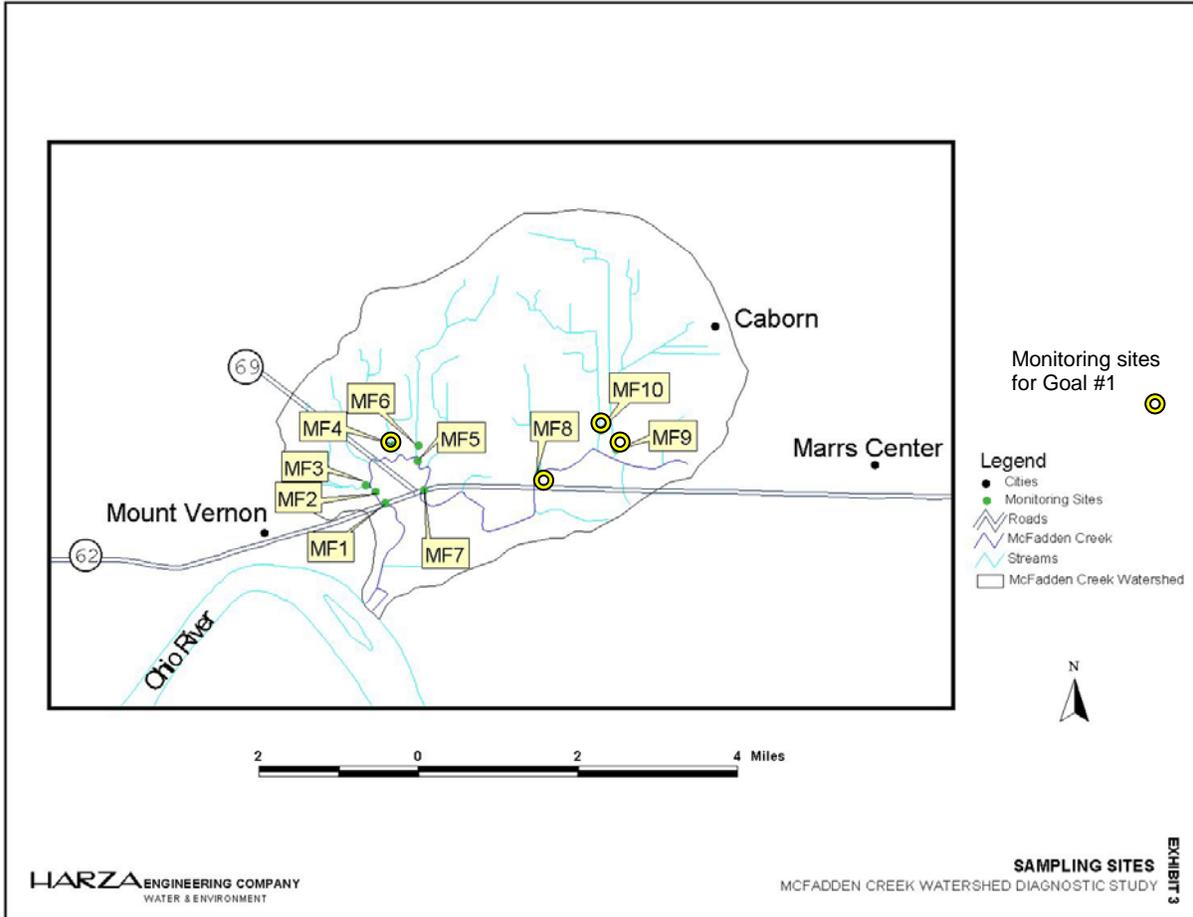


Figure 32

