Village of Worth
NPDES Phase II - MS4
Storm Water Management Plan (SWMP)

1. General Information
    a. Name of responsible official:
    Mary M. Werner
    Title: Village President
    Mailing Address: Village of Worth
    7112 West 111th Street
    Worth, IL 60482
    Telephone Number: (708) 448-1181

    b. Designated stormwater management program contact:
    Name: Mr. Wayne Demonbreun
    Title: Superintendent of Public Works
    Mailing Address: Village of Worth
    7112 West 111th Street
    Worth, IL 60482
    Telephone Number: (708) 448-4216

2. Receiving waters to which your MS4 discharges:
    a. Calumet-Sag Channel
    b. Stony Creek
    c. Kin Kay Ditch

3. Minimum Control Measures
    a. Public Education and Outreach – (Appendix 1)
    b. Public Involvement/Participation – (Appendix 2)
    c. Illicit Discharge Detection and Elimination – (Appendix 3)
    d. Construction Site Stormwater Runoff Control – (Appendix 4)
    e. Post-construction Stormwater Management in New Development and Redevelopment – (Appendix 5)
    f. Pollution Prevention/Good Housekeeping – (Appendix 6)

Appendix 1

Public Education and Outreach on Stormwater Impacts

In Accordance with the Illinois Pollution Control Board Rules and Regulations (35 Ill. Adm. Code, Subtitle C, Chapter 1) and the Clean Water Act, you must:

1. Implement a public education program to distribute educational materials to the community or conduct equivalent outreach activities about the impacts of storm water discharges on water bodies and the steps that the public can take to reduce pollutants in storm water runoff; and

2. Define appropriate BMPs for this minimum control measure and measurable goals for each BMP. These measurable goals must ensure the reduction of all of the pollutants of concern in your storm water discharges to the maximum extent practicable.

A. Best Management Practice (BMP) A.1 – Distributed Paper Material

1. Target Audience: Village Residents

2. Description of BMP:
   Develop educational stormwater brochures to be distributed at Worth Days Festival, Village Life Safety Committee Meetings, and be available to residents at the Public Works Building.

3. Measurable Goal(s):
   a. Distribute brochures at meetings and public events.
   b. The brochures will be provided to groups that tour the Public Works Pump Station.

4. Schedule:
   a. Frequency of actions: Life Safety Meetings occur monthly. Worth Days Festival is an annual event. Tours of Public Works Pump Station occur annually. Brochures are always available to the residents at the Public Works building.

5. Person (position) responsible for overall management and implementation of the BMP: Mr. Mr. Wayne Demonbreun, Superintendant of Public Works

6. Rationale for choosing BMP and setting measurable goal(s):
   Worth Days Festival is a high profile well attended event for the Village.

A. Best Management Practice (BMP) A.2 – Speaking Engagement

1. Target Audience: Village Residents

2. Description of BMP:

The Village holds numerous public meetings in which they discuss stormwater issues. The meetings will be publicized on the Village website. Minutes of the Life Safety Meetings are taken.

3. Measurable Goal(s):
    a. Number of public meetings that stormwater issues are discussed.
    b. Develop meeting summary/minutes

4. Schedule:
    a. b. Frequency of actions:
        i. Life Safety Meetings held each month. Stormwater issues are discussed at 4 meetings per year.
        ii. Group tours taken at Village Pump Station annually.
        ii. Develop a minutes of the meeting – Attach minutes

5. Person (position) responsible for overall management and implementation of the BMP:
Mr. Wayne Demonbreun, Superintendant of Public Works

6. Rationale for choosing BMP and setting measurable goal(s):
The public meetings will be advertised to the entire community so that any interested residents can attend and speak on stormwater issues affecting the community.

A. Best Management Practice (BMP) A.4 – Community Event

1. Target Audience: Village Residents

2. Description of BMP:
The Village holds two clean up days at Lucas Berg Nature Preserve during the year and hosts a spring planting day for beautification. The events will be publicized on the Village website. .

3. Measurable Goal(s):
    a. Hosting events

4. Schedule:
    a. b. Frequency of actions:
        i. Lucas Berg Nature Preserve cleanup occurs in the spring and fall. The Army Corp of Engineers allows access to the property for the community clean up day.
        ii. Spring planting day occurs annually.

5. Person (position) responsible for overall management and implementation of the BMP:
Mr. Wayne Demonbreun, Superintendant of Public Works

6. Rationale for choosing BMP and setting measurable goal(s):
The community event brings residents together to beautify their Village.

Appendix 2

Public Involvement / Participation

In Accordance with the Illinois Pollution Control Board Rules and Regulations (35 Ill. Adm. Code, Subtitle C, Chapter 1) and the Clean Water Act, you must:

1. At a minimum, comply with State and local public notice requirements when implementing a public involvement/participation program; and

2. Define appropriate BMPs for this minimum control measure and measurable goals for each BMP, which must ensure the reduction of all of the pollutants of concern in your storm water discharges to the maximum extent practicable.

A. Best Management Practice (BMP) B.5 – Volunteer Monitoring

1. Target Audience: Village Residents

2. Description of BMP:
   The Village holds two clean up days at Lucas Berg Nature Preserve during the year and hosts a spring planting day for beautification. The events will be publicized on the Village website. .

3. Measurable Goal(s):
   a. Hosting events

4. Schedule:
   a. b. Frequency of actions:
      i. Lucas Berg Nature Preserve cleanup occurs in the spring and fall. The Army Corp of Engineers allows access to the property for the community clean up day.
      ii. Spring planting day occurs annually.

5. Person (position) responsible for overall management and implementation of the BMP:
   Mr. Wayne Demonbreun, Superintendant of Public Works

6. Rationale for choosing BMP and setting measurable goal(s):
   The community event brings residents together to beautify their Village.

Appendix 3

Illicit Discharge Detection and Elimination

In Accordance with the Illinois Pollution Control Board Rules and Regulations (35 Ill. Adm. Code, Subtitle C, Chapter 1) and the Clean Water Act, you must:

1. Develop, implement and enforce a program to detect and eliminate illicit discharges into your small MS4;

2. Develop, if not already completed, a storm sewer system map, showing the location of all outfalls and the names and location of all waters that receive discharges from those outfalls;

3. To the extent allowable under state or local law, effectively prohibit, through ordinance, or other regulatory mechanism, non-storm water discharges into your storm sewer system and implement appropriate enforcement procedures and actions;

4. Develop, implement, and adequately fund a plan to detect and address non-storm water discharges, including illegal dumping, to your system;

5. Inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste

6. Address the categories of non-storm water discharges listed in Section I.B.2 only if you identify them as significant contributor of pollutants to your small MS4 (discharges or flows from the fire fighting activities are excluded from the effective prohibition against non-storm water and need only be addressed where they are identified as significant sources of pollutants to waters of the United States); and

7. Define appropriate BMPs for this minimum control measure and measurable goals for each BMP. These measurable goals must ensure the reduction of all of the pollutants of concern in your storm water discharges to the maximum extent practicable.

A. Storm Sewer Map

1. Does the MS4 have a completed storm sewer map showing the location of all outfalls and the names and location of all waters of the State that receive discharges from those outfalls? Yes__X____ No_____

   If yes, attach a copy of the storm sewer system map.

2. If the storm sewer system map must be developed, provide a schedule for completion (e.g. 30% of system to be mapped each year):

   The Village currently has a storm sewer atlas that is updated biannually.

B. Ordinance / Regulatory Mechanism Evaluation

1. Does the MS4 have an ordinance or regulatory mechanism that effectively prohibits illicit discharges? Yes___X____ No_____

   A copy of the MWRD ordinance has been attached.

2. If an evaluation of the ordinance / regulatory mechanism must be completed, or the MS4 is aware that the ordinance / regulatory mechanism will require revision, then a schedule for development of the document should be provided. N/A

C. Best Management Practice (BMP) – Detection / Elimination Prioritization Plan

1. Description of BMP:
   The Village of Worth performs inspection on its sewers for illegal connections. The Village inspects drainage structures, ditches and sewer outfalls during dry weather to determine if upstream facilities/connections are discharging non-stormwater flows to the drainage system. The inspection form that will be used is attached.

2. Measurable Goal(s):
   a. Develop dry weather screening procedures

3. Schedule:
   a. Inspections currently being performed.
   b. Frequency of actions: Annually during dry weather periods

4. Person (position) responsible for overall management and implementation of the BMP: Mr. Wayne Demonbreun, Superintendant of Public Works

5. Rationale for choosing BMP and setting measurable goal(s):
   This BMP will utilize Village staff to inspect drainage outfalls in Village of Worth.

Appendix 4

Construction Site Storm Water Runoff Control

In Accordance with the Illinois Pollution Control Board Rules and Regulations (35 Ill. Adm. Code, Subtitle C, Chapter 1) and the Clean Water Act, you must:

1) Develop, implement, and enforce a program to reduce pollutants in any storm water runoff to your small MS4 from construction activities that result in a land disturbance of greater than or equal to one (1) acre. Reduction of storm water discharges from construction activity disturbing less than one (1) acre must be included in your program if that construction activity is part of a larger common plan of development or sale that would disturb one (1) acre or more or has been designated by the permitting authority.

    i) Your program must include the development and implementation of, at a minimum:

        (1) An ordinance or other regulatory mechanism to require erosion and sediment controls, as well as sanctions to ensure compliance, to the extent allowable under state or local law;

        (2) Requirements for construction site operators to implement appropriate erosion and sediment control best management practices;

        (3) Requirements for construction site operators to control waste such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site that may cause adverse impacts to water quality;

        (4) Require all regulated construction sites to have a storm water pollution prevention plan that meets the requirements of Part IV of NPDES permit No. ILR10 including management practices, controls, and other provisions at least as protective as the requirements contained in the Illinois Urban Manual, 2002;

        (5) Procedures for site plan review which incorporate consideration of potential water quality impacts and review of individual pre-construction site plans to ensure consistency with local sediment and erosion control requirements;

        (6) Procedures for receipt and consideration of information submitted by the public; and

        (7) Procedures for site inspections and enforcement of control measures.

2) Define appropriate BMPs for this minimum control measure and measurable goals for each BMP. These measurable goals must ensure the reduction of all of the pollutants of concern in your storm water discharges to the maximum extent practicable.

A. Ordinance Evaluation

1. Does the MS4 have an ordinance, which is adequate to require erosion and sediment controls at construction sites? Yes_____ No___X_____

   The Village requires construction sites to manage stormwater runoff by a permit process through their Building Department. The Village is evaluating the policy to determine if they need to update their ordinances.

2. Does the ordinance include sanctions for failure to comply with erosion and sediment control requirements? Yes_____ No_____

B. Best Management Practice (BMP) #1 – Site Plan Review

1. Description of BMP:
   All developers are required to comply with the local E&S Ordinance. Additionally, all development that will disturb one (1) or more acres of land within the Village limits will require an IEPA permit.

   The Village Engineer reviews Erosion Control/Storm Water Pollution Prevention Plans for conformance to the Erosion and Sedimentation Control Ordinance.

2. Measurable Goal(s): All sites disturbing one (1) acre or more will be required an Erosion Control Plan.

3. Schedule:
   a. Interim Milestone Dates: N/A
   b. Implementation Date: N/A
   c. Frequency of actions: Review Erosion Control Plan for each plan submitted
   d. Month/Year of each action: N/A

4. Person (position) responsible for overall management and implementation of the BMP: Mr. Wayne Demonbreun, Superintendant of Public Works

5. Rationale for choosing BMP and setting measurable goal(s):
   The Village is performing this effort to enforce its Erosion and Sediment Control Ordinance.

C. Best Management Practice (BMP) #2 – Inspection Program

1. Description of BMP:
   Village of Worth will inspect active construction projects within the Village limits. Sites will be inspected for compliance with their approved Erosion Control Plan. All construction sites will be inspected shortly after land disturbing activities have commenced to ensure that all E&S BMPs are in place. During construction, regular inspections will take place.

   All construction sites will be inspected after construction activity has ceased to ensure that the site has been properly stabilized and erosion control measures have been removed.

During inspections, the contractor will check for compliance with the approved Erosion Control Plan and Village of Worth's Erosion & Sedimentation policies.

This provision will allow for Village staff to require and enforce the proper management of materials commonly found on construction sites such as oil and fluids, gasoline, concrete washout, sanitary waste, etc. An inspection form has been developed to ensure all inspections are uniform, and also to provide the Village with a written record of the inspection findings.

2. Measurable Goal(s):
   a. Create Erosion and Sedimentation Control Checklist and submit to EPD
   b. All construction sites disturbing more than one (1) acre will be inspected at the start and close of land disturbing activities
   c. Construction sites that are found to be in noncompliance will be re-inspected to ensure that appropriate measures are implemented
   d. Inspection forms for all construction activities disturbing one (1) acre or more will be filed and retained for a period of three (3) years.

3. Schedule:
   a. Interim Milestone Dates:
   b. Implementation Date:
   c. Frequency of actions: Inspections

4. Person (position) responsible for overall management and implementation of the BMP: Mr. Wayne Demonbreun, Superintendant of Public Works

5. Rationale for choosing BMP and setting measurable goal(s):
   The Village is performing this effort to enforce its Erosion and Sediment Control Ordinance.

Appendix 5

Post-Construction Storm Water Management in New Development and Redevelopment

In Accordance with the Illinois Pollution Control Board Rules and Regulations (35 Ill. Adm. Code, Subtitle C, Chapter 1) and the Clean Water Act, you must:

1. Develop, implement, and enforce a program to address storm water runoff from new development and redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale or that have been designated to protect water quality, that discharge into your small MS4. Your program must ensure that controls are in place that would protect water quality and reduce the discharge of pollutants to the maximum extent practicable;

2. Develop and implement strategies which include a combination of structural and/or non-structural BMPs appropriate for your community that will reduce the discharge of pollutants to the maximum extent practicable;

3. Use an ordinance or other regulatory mechanism to address post-construction runoff from new development and redevelopment projects to the extent allowable under state or local law;

4. Require all regulated construction sites to have post-construction management that meets or exceeds the requirements of Section IV (D)(2)(b) of NPDES permit No. ILR10 including management practices, controls, and other provisions at least as protective as the requirements contained in the Illinois Urban Manual, 2002;

5. Ensure adequate long-term operation and maintenance of BMPs; and

6. Define appropriate BMPs for this minimum control measure and measurable goals for each BMP. These measurable goals must ensure the reduction of all of the pollutants of concern in your storm water discharges to the maximum extent practicable.

A. Ordinance Evaluation

1. Does the MS4 have an ordinance that effectively controls runoff from new development or redevelopment construction sites?
   Yes_____ No____X_____

   The Village currently handles post construction activities through their building department and ordinance officers. The Village is reviewing this policy to determine if an update to the ordinances are required.

B. Best Management Practice (BMP) #2 – Stormwater Retention/Detention BMPs.

1. Description of BMP:
   Detention BMPs control stormwater by gathering runoff in wet ponds, dry basins or wetland bottomed detention basins and slowly releasing it to receiving waters or drainage

systems. These practices can be designed to both control stormwater volume and settle out particulates for pollutant removal.

2. Measurable Goals: All sites with a contiguous ownership of five (5) acres or more are required detention per the MWRD Ordinances.

3. Schedule:
    a. Interim Milestone Dates: N/A
    b. Implementation Date: Jul 1999
    c. Frequency of actions: Review Detention for each plan submitted.
    d. Month/Year of each action: N/A

4. Person (position) responsible for overall management and implementation of the BMP: Mr. Wayne Demonbreun, Superintendant of Public Works

5. Rationale for choosing BMP and setting measurable goal(s):
Requiring detention and using "softer" stormwater conveyance approaches, such as grassy swales, will increase infiltration and decrease the volume and velocity of runoff leaving development sites.

Appendix 6

Pollution Prevention/Good Housekeeping

In Accordance with the Illinois Pollution Control Board Rules and Regulations (35 Ill. Adm. Code, Subtitle C, Chapter 1) and the Clean Water Act, you must:

1. Develop and implement an operation and maintenance program that includes a training component and is designed to prevent and reduce the discharge of pollutants to the maximum extent practicable;

2. Using training materials that are available from EPA, the state of Illinois, or other organizations, your program must include employee training to prevent and reduce storm water pollution from activities such as park and open space maintenance, fleet and building maintenance, operation of storage yards, snow disposal, new construction and land disturbances, and storm water system maintenance procedures for proper disposal of street cleaning debris and catch basin material, address ways that flood management projects impact water quality, non-point source pollution control, and aquatic habitat; and

3. Define appropriate BMPs for this minimum control measure and measurable goals for each BMP. These measurable goals must ensure the reduction of all of the pollutants of concern in your storm water discharges to the maximum extent practicable.

A. Best Management Practice (BMP) #1 – Street Sweeping

1. Description of BMP:
   Streets accumulate significant amounts of pollutants that contribute to stormwater pollutant runoff to surface waters. Pollutants, including sediment, debris, trash, road salt and trace metals can be minimized by street sweeping. Street sweeping can also control dust and decrease the accumulation of pollutants in catch basins. The village hires an outside company to sweep all village streets three times per year in an effort to remove pollutants from the road before they enter the storm sewer system. All debris and litter removed is disposed of at a local landfill.

2. Measurable Goals: Sweep 100% of village streets three (3) times per year.

3. Schedule:
   a. Interim Milestone Dates: N/A
   b. Implementation Date: N/A
   c. Frequency of Action: Street sweeping – three (3) times per year

4. Person (position) responsible for overall management and implementation of the BMP: Mr. Wayne Demonbreun, Superintendant of Public Works

5. Rationale for choosing BMP and setting measurable goal(s):
   It is always easier and more cost effective to remove potential pollutants at the source rather than try to mitigate their effect on the storm sewer system after they enter the

system. With this in mind, Village of Worth has a street sweeping program to remove pollutants on the street before they are washed into the storm sewer system.

WORTH

The Friendly Village

EST. 1914

NPDES Event/Activity Form

Name of Village Representative filling out form: _____

Position: _____

Title of Event/Activity: _____

Sponsor/Department: _____

Date of Event/Activity: _____

Location of Event/Activity: _____

NPDES Type of Event/Activity, check one of the following:

_____ Public Education/Outreach (distribution of educational materials; presentations)

_____ Public Participation/Involvement (any event that includes the public in developing, implementing, updating and reviewing the stormwater management program)

_____ Pollution Prevention/Good Housekeeping (the municipality reduces the amount and type of pollution that collects in storm sewers and ditches, as well as on streets, parking lots, open spaces, and storage and vehicle maintenance areas)

Brief Description of Event/Activity: _____

_____

_____

Attendance of Event/Activity: _____

Duration of Event/Activity (hours): _____

Quantification of Event/Activity (for example: 100 brochures distributed, 15 attendees at a 20 minute presentation, 35 volunteers removing debris for 2 hours/approximately 40 garbage bags, ran the vacuum truck for 2 full business days/clearing approximately 45 catch basins/approximately 120 cubic yards). Please be as specific as possible): ___

_____

_____

Description of what this Event/Activity accomplished and/or how it prevented or reduced stormwater pollution: _____

_____

_____

_____

_____

WORTH
The Friendly Village

The storm drainage system carries untreated stormwater runoff directly to creeks and rivers. Improper pouring of wastes into storm drains directly impacts our environment. Oil, paint, fertilizer and pesticides pollute the water, destroy plants, endanger wildlife and affect drinking water. The pollutants most commonly dumped into storm drains are motor oil, fertilizer, antifreeze, pesticides, herbicides and paint.

Did You Know?

One quart of oil can contaminate 250,000 gallons of water. The oil from one motor oil change can create an 8-acre oil slick. Antifreeze is toxic to people, domestic animals and wildlife. Paint products can be harmful to people, animals and the environment. Herbicides destroy streamside brush and vegetation as well as animals. Fertilizers encourage the growth of algae, which can reduce the amount of oxygen in the water and harm or even kill fish.

What Are the Benefits of Improved Water Quality?

- We have clean water in our rivers for drinking, wildlife and recreation.
- Storm drainage facilities that are free of sediment and trash require less maintenance
- Stream corridors provide a healthy habitat for wildlife and an attractive space in a neighborhood.

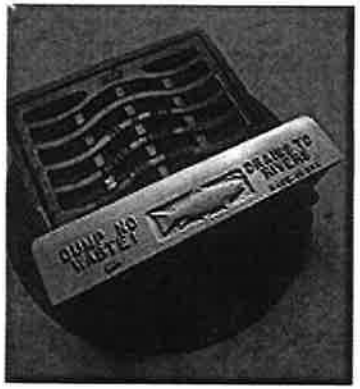
How Can Residents Help Improve Water Quality?

- Properly store and dispose of oils, chemicals, antifreeze and other toxic material.
- Never dump any waste in the storm drain. Dispose of litter and animal waste in a trashcan. Sweep sidewalks, driveways and other paved surfaces and put the debris in the trashcan.
- Use garden chemicals only when necessary, for they get washed into the creek.
- If you see dumping or debris in the ditches or basins, filling or construction near property lot lines, or filling or construction in the floodplain without a permit sign posted, contact the Village Public Works Department at (708) 448-1181.

What is the Village of Worth Doing to Improve Water Quality?

During construction, all sites are required to filter storm water leaving the site.

The Village also requires all new developments to detain storm water runoff on site and release it slowly into the Village's sewer system.



As part of the review process, all developments (residential and commercial) are required to be in compliance with the NPDES Phase II regulations. These regulations were established by the U.S. Environmental Protection Agency (EPA) to improve water quality.

Village of Worth
7112 W. 111th Street
Worth, IL 60482
Phone: (708) 448-1181

WORTH
The Friendly Village

Stormwater Protection Program

How Can I Help Improve the Quality of Water in Worth?

Village of Worth
7112 W. 111th Street
Worth, IL 60482
Phone: (708) 448-1181

WORTH
The Friendly Village

VILLAGE (PUBLIC WORKS, BUILDING, CODE ENFORCEMENT)

Stormwater Construction Site Inspection Form

General Information			
Project Name:			
Project Location:		**Inspected by:**	
NPDES Tracking No. (if known):		**Weather at time of inspection:**	
Present Phase of Construction:	☐ Clearing & Grubbing/Site Preparation	☐ Building Construction/Fine Grading	
	☐ Mass Grading/Underground Utilities	☐ Final Stabilization	
Type of Inspection:			
☐ **Regular (weekly)**	☐ **Pre-storm event**	☐ **During storm event**	☐ **Post-storm event**

Inspection Checklist					
	BMP/Activity	**Adequate**	**Needs Maintenance**	**N/A**	**Comment(s)**
1	**General Site Information**				
	a. Dust Control	☐	☐	☐	
	b. Stabilized construction entrance	☐	☐	☐	
	c. SWPPP on site & updated	☐	☐	☐	
	d. Other:_____	☐	☐	☐	
	e. Other:_____	☐	☐	☐	
2	**Storm Water System Inlet Protection**				
	a. Inlet protection	☐	☐	☐	
	b. Other:_____	☐	☐	☐	
	c. Other:_____	☐	☐	☐	
3	**Storm Water Discharge from Site**				
	a. Rock outlet protection	☐	☐	☐	
	b. Silt fence	☐	☐	☐	
	c. Temporary swale	☐	☐	☐	
	d. Other:_____	☐	☐	☐	
	e. Other:_____	☐	☐	☐	
4	**Soil Stabilization / Landscaping**				
	a. Land grading	☐	☐	☐	
	b. Permanent vegetation	☐	☐	☐	
	c. Temporary seeding	☐	☐	☐	
	d. Other:_____	☐	☐	☐	
	e. Other:_____	☐	☐	☐	

Action Taken	Description	Yes	No
Verbal Warning	Informed owner/builder of potential stormwater pollution violation and BMPs	☐	☐
Written Warning	Gave owner/builder copy of Inspection Form	☐	☐
Written Warning	Gave owner/builder stormwater pollution violation letter	☐	☐
Stop Work Notice	Issued a stop work notice to cease project until corrections are made	☐	☐

OUTFALL INSPECTION FIELD SHEET

Section 1: Background Data

Pond / Watercourse Name:		ID:	
Today's date:		Time (Military):	
Investigators:		Form completed by:	
Temperature (°F):	Rainfall (in.): Last 24 hours:	Last 48 hours:	
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera:		Photo #s:	
Land Use in Drainage Area (Check all that apply): ☐ Commercial ☐ Open Space ☐ Other:_____		☐ Residential ☐ Industrial Known Industries: _____	
Notes (eg., origin of outfall, if known):			

Section 2: Outfall Description

TYPE	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☐ **Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other:_____	☐ Circular ☐ Eliptical ☐ Box ☐ Other:_____	☐ Flared End ☐ Concrete Headwall ☐ Pipe ☐ Concrete Slope Wall ☐ Other:_____	Diameter / Dimensions:	In Water: ☐ No ☐ Partially ☐ Fully With Sediment: ☐ No ☐ Partially ☐ Fully
☐ **Open Drainage**	☐ Concrete channel ☐ Earthen ☐ Rip-rap ☐ Other:_____	☐ Trapezoid ☐ Parabolic ☐ Other:_____		Depth:_____ Top Width:_____ Bottom Width:____	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow Present?	☐ Yes ☐ No	***If No, skip to Section 4***			
Flow Description	☐ Trickle	Depth of Flow:_____(in.)			

Section 3: Physical Indicators for Flowing Outfalls Only

Are Any Physical Inciators Present in the Flow? ☐ Yes ☐ No

INDICATOR	CHECK IF PRESENT	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other	☐ 1-Faint	☐ 2-Easily Detected	☐ 3-Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other	☐ 1-Faint	☐ 2-Clearly Visible in Sample Bottle	☐ 3-Clearly Visible in Outfall Flow
Turbidity	☐	See Severity	☐ 1-Slight Cloudy	☐ 2-Cloudy	☐ 3-Opaque
Floatables	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petrolium (oil sheen) ☐ Other:	☐ 1-Few /Slight; Origin not Obvious	☐ 2-Some; Indication of Origin (e.g. possible suds or oil sheen)	☐ 3-Some; Origin Clear (e.g. obvious oil sheen, suds or floating sanitary

Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are Any Physical Inciators Present in the Flow? ☐ Yes ☐ No

INDICATOR	CHECK IF PRESENT	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibatad	
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheer ☐ Suds ☐ Excessive Algae ☐ Other:	
Algae	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	