Catch Basin and Outfall

**Reconnaissance Inventory/Sample Collection Field Sheet**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Subwatershed: | | | Outfall ID: | | Outfall not in inventory: | |
| Today’s date: | | | Time (Military): | | | |
| Investigators: | | | Form completed by: | | | |
| Temperature: | | Rainfall (in.): Last 24 hours: Last 48 hours: | | | | |
| Latitude: | Longitude: | | GPS Unit: | | | Location as mapped: |
| Camera: | | | Photo #s: | | | |
| Land Use in Drainage Area (Check all that apply):  Industrial  Open Space  Urban Residential  Institutional  Suburban Residential Other:  Commercial Known Industries: | | | | Maintenance Priority:  Priority 1  Priority 2  Priority 3  Notes: | | |
| Notes (e.g., origin of outfall, if known): | | | |

**Section 1: Background Data**

**Section 2: Outfall Description**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Location** | **Material** | **Shape** | |  |
| Closed Pipe  Diameter/Dimensions: | RCP  CMP  PVC  HDPE  Steel  Other: | Circular  Elliptical  Box  Other: | Single  Double  Triple  Other: | In water:  No  Partially  Fully  With Sediment:  No  Partially  Fully |
| Open drainage | Concrete/Paved  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 5) | | | |
| Flow Description | Trickle  Moderate  Substantial | | | |

**Section 3: Quantitative Characterization**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Data For Flowing Outfalls** | | | | |
| **Parameter** | | **Result** | **Unit** | **Equipment** |
| Flow #1 | Volume |  | Liter | Bottle |
| Time to fill |  | Sec | Stop watch |
| Flow #2 | Flow Depth |  | In | Tape measure |
| Flow Width | \_\_\_\_\_\_\_\_\_\_\_\_\_**’** \_\_\_\_\_\_\_\_\_\_\_\_\_**”** | Ft, In | Tape measure |
| Measured length | \_\_\_\_\_\_\_\_\_\_\_\_\_**’** \_\_\_\_\_\_\_\_\_\_\_\_\_**”** | Ft, In | Tape measure |
| Time of travel |  | Sec | Stop watch |

Catch Basin and Outfall

**Reconnaissance Inventory Field Sheet**

**Section 4: Physical Indicators for Flowing Outfalls Only**

Are Any Physical Indicators Present in the flow? Yes No (If No, Skip to Section 5)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Indicator** | **Check if Present** | **Description** | **Relative Severity Index** | | |
| 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 colors in sample …bottle | 2 – Clearly visible.in …sample bottle | 3 – Clearly visible in …outfall flow |
| Turbidity |  | See severity | 1 – Slight cloudiness | 2 – Cloudy | 3 – Opaque |
| Floatables - Does not Include Trash!! |  | Sewage (Toilet Paper, etc.) Suds  Petroleum (oil sheen) Other: | 1 – Few/slight: origin not …obvious | 2 – Some; indicators of …origin (e.g., possible suds or …oil sheen) | 3 – Some; origin clear … … (e.g., obvious soil sheen, …suds, or floating sanitary …materials) |

**Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls**

Are physical indicators that are not related to flow present? 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 Inhibited  Invasive Species |  |
| Poor Pool Quality |  | Odors  Colors  Floatables Oil Sheen  Suds  Excessive Algae  Other |  |
| Pipe Benthic Growth |  | Brown Orange  Green  Other: |  |
| Animal Life |  | None/ little presence  Average presence High presence |  |

**Section 6: Overall Outfall Characterization**

|  |
| --- |
| Unlikely  Potential (presence of two or more indicators)  Suspect (one or more indicators with a severity of 3)  Obvious |

**Section 7: Field Tests**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test** | **Calibration Date**  **And LOT#** | **Data** | |
| Ammonia |  | ppm | |
| Chlorine |  | mg/L | |
| Conductivity |  | µS/cm | |
| Salinity |  | ppt | |
| pH |  |  | |
| **Test** | **Calibration Date**  **And LOT#** | | **Data** |
| Temperature |  | | °F |
| Nitrate |  | | ppm |
| Nitrite |  | | ppm |
| D.O. |  | | mg/L |

**Section 8: Data Collection**

|  |
| --- |
| Sample for the lab?  Yes  No |
| If yes, collected from:  Flow  Pool |
| If yes: Chain of Custody Number:  Surfactants \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Aluminum \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Iron \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Phosphorous \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  E. Coli \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**Section 9: Non-Illicit Discharge Concerns (eg. trash, repairs needed)**

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|  |

**Notes:**

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