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 3Notes:  |
| Notes (e.g., origin of outfall, if known):  |

**Section 1: Background Data**

**Section 2: Outfall Description**

|  |  |  |  |
| --- | --- | --- | --- |
| **Location** | **Material** | **Shape** |  |
| [ ]  Closed PipeDiameter/Dimensions:  | [ ]  RCP [ ]  CMP[ ]  PVC [ ]  HDPE[ ]  Steel[ ]  Other:  | [ ]  Circular[ ]  Elliptical[ ]  Box[ ]  Other:  | [ ]  Single[ ] Double[ ]  Triple[ ]  Other:  | In water:[ ] No[ ]  Partially[ ]  FullyWith 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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