







## Attachment 2: Field Data Sheets

| SWAMP Tissue Sampling - Non-Trawl (Event Type = TI) BOG Coastal                                    |  |                         |                    | Entered in d-base (initial/date)                 |       |                                  |                | Pg of Pgs  |           |
|--|--|-------------------------|--------------------|--|-------|----------------------------------|----------------|--|-----------|
| *StationCode: _____  |  | *StationName: _____     |                    | *Trip: _____                                     |       | Agency: _____                    |                |  |           |
| *FundingCode1: _____   |  | *Date (mm/dd/yyyy): / / |                    |  |       |                                  |                |  |           |
| *FundingCode2: _____   |  | ArrivalTime: _____      |                    | *Purpose (circle all that apply) Tissue: Habitat |       | *Purpose Failure Code: _____     |                |  |           |
| *Sampling Crew: _____  |  | DepartureTime: _____    |                    | BEAUFORT SCALE (see attachment):                 |       | WIND DIRECTION (from):           |                |  PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode); |           |
| HabitatObs (CollectionMethod= Not App.) associated with Location 1                                 |  |                         |                    |  |       |                                  |                |  |           |
| DOMINANTSUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Other _____, unk                           |  |                         |                    |  |       | 1: (RB / LB / BB / US / DS / ##) |                |  |           |
| OTHER PRESENCE: Foam, OilySheen, None, Trash, MacroAlgae, Other _____                              |  |                         |                    |  |       | 2: (RB / LB / BB / US / DS / ##) |                |  |           |
| Comments:  |  |                         |                    |  |       | 3: (RB / LB / BB / US / DS / ##) |                |  |           |
| OCCUPATIONMETHOD: Boat (RV _____), Walk-In   |  |                         |                    | GPS Model: _____                                 |       | accuracy _____                   |                | Datum: NAD83 Other _____   |           |
| Location:  | OpenWater/Bank/MidChan   | # _____                 | *StationDepth (m): | DistanceFromBank(m):                             | Coord | (ft / m)                         | Lat (dd.dxxxx) | Long (-ddd.dxxxx)  | Depth (m) |
| COLLECTION METHOD:   | Hook, Net, Seine, Spear, Trap, Shock                               |                         |                    | Start Time                                       | 1     |                                  |                |  |           |
| COLLECTIONDEVICE:  | Hook/Line, Gill Net (mesh size) _____, CastNet, Seine, Other _____ |                         |                    |  | 2     |                                  |                |  |           |
| HYDROMODIFICATION:   | None, Bridge, Pipes, Concrete Channel, Pier, Breakwater            |                         |                    | End Time   | 3     |                                  |                |  |           |
| HYDROMODLOC(to sample):  | US / DS / NA / WI  | Other _____             |                    | GEOSHAPE: Line Poly Point                        | 4     |                                  |                |  |           |
| Location:  | OpenWater/Bank/MidChan   | # _____                 | *StationDepth (m): | DistanceFromBank(m):                             | Coord | (ft / m)                         | Lat (dd.dxxxx) | Long (-ddd.dxxxx)  | Depth (m) |
| COLLECTION METHOD:   | Hook, Net, Seine, Spear, Trap, Shock                               |                         |                    | Start Time                                       | 1     |                                  |                |  |           |
| COLLECTIONDEVICE:  | Hook/Line, Gill Net (mesh size) _____, CastNet, Seine, Other _____ |                         |                    |  | 2     |                                  |                |  |           |
| HYDROMODIFICATION:   | None, Bridge, Pipes, Concrete Channel, Pier, Breakwater            |                         |                    | End Time   | 3     |                                  |                |  |           |
| HYDROMODLOC(to sample):  | US / DS / NA / WI  | Other _____             |                    | GEOSHAPE: Line Poly Point                        | 4     |                                  |                |  |           |
| Location:  | OpenWater/Bank/MidChan   | # _____                 | *StationDepth (m): | DistanceFromBank(m):                             | Coord | (ft / m)                         | Lat (dd.dxxxx) | Long (-ddd.dxxxx)  | Depth (m) |
| COLLECTION METHOD:   | Hook, Net, Seine, Spear, Trap, Shock                               |                         |                    | Start Time                                       | 1     |                                  |                |  |           |
| COLLECTIONDEVICE:  | Hook/Line, Gill Net (mesh size) _____, CastNet, Seine, Other _____ |                         |                    |  | 2     |                                  |                |  |           |
| HYDROMODIFICATION:   | None, Bridge, Pipes, Concrete Channel, Pier, Breakwater            |                         |                    | End Time   | 3     |                                  |                |  |           |
| HYDROMODLOC(to sample):  | US / DS / NA / WI  | Other _____             |                    | GEOSHAPE: Line Poly Point                        | 4     |                                  |                |  |           |
| Location:  | OpenWater/Bank/MidChan   | # _____                 | *StationDepth (m): | DistanceFromBank(m):                             | Coord | (ft / m)                         | Lat (dd.dxxxx) | Long (-ddd.dxxxx)  | Depth (m) |
| COLLECTION METHOD:   | Hook, Net, Seine, Spear, Trap, Shock                               |                         |                    | Start Time                                       | 1     |                                  |                |  |           |
| COLLECTIONDEVICE:  | Hook/Line, Gill Net (mesh size) _____, CastNet, Seine, Other _____ |                         |                    |  | 2     |                                  |                |  |           |
| HYDROMODIFICATION:   | None, Bridge, Pipes, Concrete Channel, Pier, Breakwater            |                         |                    | End Time   | 3     |                                  |                |  |           |
| HYDROMODLOC(to sample):  | US / DS / NA / WI  | Other _____             |                    | GEOSHAPE: Line Poly Point                        | 4     |                                  |                |  |           |
| Failure Codes: Dry (no water), Instrument Failure, No Access, Non-sampleable, Pre-abandoned, Other |  |                         |                    |  |       |                                  |                |  |           |
| Collection Comments:   |  |                         |                    |  |       |                                  |                |  |           |

| SWAMP Tissue Sampling - Trawl (Event Type = TI) BOG Coastal               |   |                      |  |  |  |             |                              |                               |   | Entered in d-base (initial/date) |  | Pg             | of | Pgs               |  |
|---|---|----------------------|--|--|--|-------------|------------------------------|-------------------------------|---|----------------------------------|--|----------------|----|-------------------|--|
| *StationCode: _____   |   |                      | *StationName: _____                      |  |  |             | *Trip: _____                 |                               | *Purpose Failure Code: _____  |                                  | Agency   |                |    |                   |  |
| *FundingCode1: _____  |   |                      | *Date (mm/dd/yyyy): _____ / _____ / 2009 |  |  |             |                              |                               |   |                                  |  |                |    |                   |  |
| *FundingCode2: _____  |   |                      | ArrivalTime: _____                       |  | *Purpose (circle all that apply): Tissue Habitat                         |             |                              |                               |   |                                  |  |                |    |                   |  |
| *Sampling Crew: _____   |   |                      | DepartureTime: _____                     |  | BEAUFORT SCALE (see attachment): _____                                   |             | WIND DIRECTION (from): _____ |                               |  |                                  | PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode): |                |    |                   |  |
| HabitatObs (CollectionMethod= Not App.) associated with Location1         |   |                      |  |  | DOMINANTSUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Other _____, unk |             |                              |                               |   |                                  | 1: (RB / LB / BB / US / DS / ##)   |                |    |                   |  |
| OTHER PRESENCE: Foam, OilySheen, None, Trash, MacroAlgae, Other _____     |   |                      |  |  |  |             |                              |                               |   | 2: (RB / LB / BB / US / DS / ##) |  |                |    |                   |  |
| Comments:   |   |                      |  |  |  |             |                              |                               |   | 3: (RB / LB / BB / US / DS / ##) |  |                |    |                   |  |
| <b>Tissue Collection (MethodCode: Trawl)</b>                              |   |                      |  |  |  |             |                              |                               |   | *GPS/DGPS                        |  | Lat (dd.dxxxx) |    | Long (-ddd.dxxxx) |  |
| OCCUPATIONMETHOD: Boat RV _____   |   |                      |  |  |  |             |                              |                               |   | Target:                          |  | NA             |    | NA                |  |
| COLLECTION DEVICE: MPSTL-DFG_OtterTrawl, other _____                      |   |                      |  |  |  |             |                              |                               |   | GPS Model:                       |  |                |    |                   |  |
|   |   |                      |  |  |  |             |                              | GEOSHAPE: Line / Point        |   | Datum: NAD83 WGS84 Other _____   |  |                |    |                   |  |
| Location  | # | Start Time           | Latitude (dd.dxxxx)                      | Longitude (-ddd.dxxxx)                                       | Depth (m)  | WireOut (m) | End Time                     | Latitude (dd.dxxxx)           | Longitude (-ddd.dxxxx)  | Accuracy (ft / m)                |  |                |    |                   |  |
| OpenWat/ Bank/ MidChan  | 1 |                      |  |  |  |             |                              |                               |   |                                  |  |                |    |                   |  |
| StationWaterDepth(m):   |   | DistanceFromBank(m): |  | HydroMod: None, Bridge, Pipes, Pier, Breakwater, Other _____ |  |             |                              | HydroModLoc: US / DS / WithIn |   |                                  |  |                |    |                   |  |
| OpenWat/ Bank/ MidChan  |   |                      |  |  |  |             |                              |                               |   |                                  |  |                |    |                   |  |
| StationWaterDepth(m):   |   | DistanceFromBank(m): |  | HydroMod: None, Bridge, Pipes, Pier, Breakwater, Other _____ |  |             |                              | HydroModLoc: US / DS / WithIn |   |                                  |  |                |    |                   |  |
| OpenWat/ Bank/ MidChan  |   |                      |  |  |  |             |                              |                               |   |                                  |  |                |    |                   |  |
| StationWaterDepth(m):   |   | DistanceFromBank(m): |  | HydroMod: None, Bridge, Pipes, Pier, Breakwater, Other _____ |  |             |                              | HydroModLoc: US / DS / WithIn |   |                                  |  |                |    |                   |  |
| OpenWat/ Bank/ MidChan  |   |                      |  |  |  |             |                              |                               |   |                                  |  |                |    |                   |  |
| StationWaterDepth(m):   |   | DistanceFromBank(m): |  | HydroMod: None, Bridge, Pipes, Pier, Breakwater, Other _____ |  |             |                              | HydroModLoc: US / DS / WithIn |   |                                  |  |                |    |                   |  |
| OpenWat/ Bank/ MidChan  |   |                      |  |  |  |             |                              |                               |   |                                  |  |                |    |                   |  |
| StationWaterDepth(m):   |   | DistanceFromBank(m): |  | HydroMod: None, Bridge, Pipes, Pier, Breakwater, Other _____ |  |             |                              | HydroModLoc: US / DS / WithIn |   |                                  |  |                |    |                   |  |
| OpenWat/ Bank/ MidChan  |   |                      |  |  |  |             |                              |                               |   |                                  |  |                |    |                   |  |
| StationWaterDepth(m):   |   | DistanceFromBank(m): |  | HydroMod: None, Bridge, Pipes, Pier, Breakwater, Other _____ |  |             |                              | HydroModLoc: US / DS / WithIn |   |                                  |  |                |    |                   |  |
| OpenWat/ Bank/ MidChan  |   |                      |  |  |  |             |                              |                               |   |                                  |  |                |    |                   |  |
| StationWaterDepth(m):   |   | DistanceFromBank(m): |  | HydroMod: None, Bridge, Pipes, Pier, Breakwater, Other _____ |  |             |                              | HydroModLoc: US / DS / WithIn |   |                                  |  |                |    |                   |  |
| Comments: Failure Codes: Dry (no water), No Access, Non-sampleable, Other |   |                      |  |  |  |             |                              |                               |   |                                  |  |                |    |                   |  |

| SWAMP Tissue Sampling - Non-Trawl (Event Type = TI) Continued |  |                                 |       |                           | Entered in d-base (initial/date) |                      |        | Pg             | of | Pgs                 |                    |                        |  |           |  |
|---|--|---------------------------------|-------|---------------------------|----------------------------------|----------------------|--------|----------------|----|---------------------|--------------------|------------------------|--|-----------|--|
| *StationCode: _____   |  | *StationName: _____             |       |                           | Trip: _____                      |                      | Agency |                |    |                     |                    |                        |  |           |  |
| *FundingCode: _____   |  | *Date (mm/dd/yyyy):     /     / |       |                           |                                  |                      |        |                |    |                     |                    |                        |  |           |  |
| Tissue Collection   |  |                                 |       |                           |                                  |                      |        | Accuracy       |    |                     |                    |                        |  |           |  |
| Location:   | OpenWater/Bank/MidChan   | #                               | _____ | *StationDepth (m):        |                                  | DistanceFromBank(m): |        | Coord (ft / m) |    | Latitude (dd.dxxxx) |                    | Longitude (-ddd.dxxxx) |  | Depth (m) |  |
| COLLECTION METHOD:  | Hook, Net, Seine, Spear, Trap, Shock                             |                                 |       |                           | Start Time                       | 1                    |        |                |    |                     |                    |                        |  |           |  |
| COLLECTIONDEVICE:   | Hook/Line, Gill Net (mesh size)_____, CastNet, Seine, Other_____ |                                 |       |                           |                                  | 2                    |        |                |    |                     |                    |                        |  |           |  |
| HYDROMODIFICATION:  | None, Bridge, Pipes, Concrete Channel, Pier, Breakwater          |                                 |       |                           | End Time                         | 3                    |        |                |    |                     |                    |                        |  |           |  |
| HYDROMODLOC(to sample):                                       | US / DS / NA/ WI   | Other _____                     |       | GEOSHAPE: Line Poly Point |                                  |                      | 4      |                |    |                     |                    |                        |  |           |  |
| Location:   | OpenWater/Bank/MidChan   | #                               | _____ | *StationDepth (m):        |                                  | DistanceFromBank(m): |        | Coord (ft / m) |    | Latitude (dd.dxxxx) |                    | Longitude (-ddd.dxxxx) |  | Depth (m) |  |
| COLLECTION METHOD:  | Hook, Net, Seine, Spear, Trap, Shock                             |                                 |       |                           | Start Time                       | 1                    |        |                |    |                     |                    |                        |  |           |  |
| COLLECTIONDEVICE:   | Hook/Line, Gill Net (mesh size)_____, CastNet, Seine, Other_____ |                                 |       |                           |                                  | 2                    |        |                |    |                     |                    |                        |  |           |  |
| HYDROMODIFICATION:  | None, Bridge, Pipes, Concrete Channel, Pier, Breakwater          |                                 |       |                           | End Time                         | 3                    |        |                |    |                     |                    |                        |  |           |  |
| HYDROMODLOC(to sample):                                       | US / DS / NA/ WI   | Other _____                     |       | GEOSHAPE: Line Poly Point |                                  |                      | 4      |                |    |                     |                    |                        |  |           |  |
| Location:   | OpenWater/Bank/MidChan   | #                               | _____ | *StationDepth (m):        |                                  | DistanceFromBank(m): |        | Coord (ft / m) |    | Latitude (dd.dxxxx) |                    | Longitude (-ddd.dxxxx) |  | Depth (m) |  |
| COLLECTION METHOD:  | Hook, Net, Seine, Spear, Trap, Shock                             |                                 |       |                           | Start Time                       | 1                    |        |                |    |                     |                    |                        |  |           |  |
| COLLECTIONDEVICE:   | Hook/Line, Gill Net (mesh size)_____, CastNet, Seine, Other_____ |                                 |       |                           |                                  | 2                    |        |                |    |                     |                    |                        |  |           |  |
| HYDROMODIFICATION:  | None, Bridge, Pipes, Concrete Channel, Pier, Breakwater          |                                 |       |                           | End Time                         | 3                    |        |                |    |                     |                    |                        |  |           |  |
| HYDROMODLOC(to sample):                                       | US / DS / NA/ WI   | Other _____                     |       | GEOSHAPE: Line Poly Point |                                  |                      | 4      |                |    |                     |                    |                        |  |           |  |
| Location:   | OpenWater/Bank/MidChan   | #                               | _____ | *StationDepth (m):        |                                  | DistanceFromBank(m): |        | Coord (ft / m) |    | Latitude (dd.dxxxx) |                    | Longitude (-ddd.dxxxx) |  | Depth (m) |  |
| COLLECTION METHOD:  | Hook, Net, Seine, Spear, Trap, Shock                             |                                 |       |                           | Start Time                       | 1                    |        |                |    |                     |                    |                        |  |           |  |
| COLLECTIONDEVICE:   | Hook/Line, Gill Net (mesh size)_____, CastNet, Seine, Other_____ |                                 |       |                           |                                  | 2                    |        |                |    |                     |                    |                        |  |           |  |
| HYDROMODIFICATION:  | None, Bridge, Pipes, Concrete Channel, Pier, Breakwater          |                                 |       |                           | End Time                         | 3                    |        |                |    |                     |                    |                        |  |           |  |
| HYDROMODLOC(to sample):                                       | US / DS / NA/ WI   | Other _____                     |       | GEOSHAPE: Line Poly Point |                                  |                      | 4      |                |    |                     |                    |                        |  |           |  |
| Location:   | OpenWater/Bank/MidChan   | #                               | _____ | *StationDepth (m):        |                                  | DistanceFromBank(m): |        | Coord (ft / m) |    | Latitude (dd.dxxxx) |                    | Longitude (-ddd.dxxxx) |  | Depth (m) |  |
| COLLECTION METHOD:  | Hook, Net, Seine, Spear, Trap, Shock                             |                                 |       |                           | Start Time                       | 1                    |        |                |    |                     |                    |                        |  |           |  |
| COLLECTIONDEVICE:   | Hook/Line, Gill Net (mesh size)_____, CastNet, Seine, Other_____ |                                 |       |                           |                                  | 2                    |        |                |    |                     |                    |                        |  |           |  |
| HYDROMODIFICATION:  | None, Bridge, Pipes, Concrete Channel, Pier, Breakwater          |                                 |       |                           | End Time                         | 3                    |        |                |    |                     |                    |                        |  |           |  |
| HYDROMODLOC(to sample):                                       | US / DS / NA/ WI   | Other _____                     |       | GEOSHAPE: Line Poly Point |                                  |                      | 4      |                |    |                     |                    |                        |  |           |  |
| Location:   | OpenWater/Bank/MidChan   | #                               | _____ | *StationDepth (m):        |                                  | DistanceFromBank(m): |        | Coord (ft / m) |    | Latitude (dd.dxxxx) |                    | Longitude (-ddd.dxxxx) |  | Depth (m) |  |
| COLLECTION METHOD:  | Hook, Net, Seine, Spear, Trap, Shock                             |                                 |       |                           | Start Time                       | 1                    |        |                |    |                     |                    |                        |  |           |  |
| COLLECTIONDEVICE:   | Hook/Line, Gill Net (mesh size)_____, CastNet, Seine, Other_____ |                                 |       |                           |                                  | 2                    |        |                |    |                     |                    |                        |  |           |  |
| HYDROMODIFICATION:  | None, Bridge, Pipes, Concrete Channel, Pier, Breakwater          |                                 |       |                           | End Time                         | 3                    |        |                |    |                     |                    |                        |  |           |  |
| HYDROMODLOC(to sample):                                       | US / DS / NA/ WI   | Other _____                     |       | GEOSHAPE: Line Poly Point |                                  |                      | 4      |                |    |                     |                    |                        |  |           |  |
| Comments:   |  |                                 |       |                           |                                  |                      |        |                |    |                     | Modified 9/24/2009 |                        |  |           |  |

| SWAMP Tissue Sampling - Fish Abundance |                               |             |                    |                   | Entered in d-base (initial/date) |         |  |       | Pg: _____ of _____ Pgs |            |            |      |           |
|--|-------------------------------|-------------|--------------------|-------------------|----------------------------------|---------|--|-------|------------------------|------------|------------|------|-----------|
| *StationCode: _____                    |                               |             | StationName: _____ |                   |                                  |         | Date (mm/dd/yyyy): _____ / _____ / _____ |       |                        |            |            |      |           |
| Storage                                | Location/ Collection Method # | Organism ID | Tag #              | Species Name/Code | TL (mm)                          | FL (mm) | Weight (g)                               | Count | Sex                    | Range (mm) | Count Est. | Anom | Condition |
|  |                               |             |                    |                   |                                  |         |  |       | M F Unk LAB            |            |            |      | D W L     |
|  |                               |             |                    |                   |                                  |         |  |       | M F Unk LAB            |            |            |      | D W L     |
|  |                               |             |                    |                   |                                  |         |  |       | M F Unk LAB            |            |            |      | D W L     |
|  |                               |             |                    |                   |                                  |         |  |       | M F Unk LAB            |            |            |      | D W L     |
|  |                               |             |                    |                   |                                  |         |  |       | M F Unk LAB            |            |            |      | D W L     |
|  |                               |             |                    |                   |                                  |         |  |       | M F Unk LAB            |            |            |      | D W L     |
|  |                               |             |                    |                   |                                  |         |  |       | M F Unk LAB            |            |            |      | D W L     |
|  |                               |             |                    |                   |                                  |         |  |       | M F Unk LAB            |            |            |      | D W L     |
|  |                               |             |                    |                   |                                  |         |  |       | M F Unk LAB            |            |            |      | D W L     |
|  |                               |             |                    |                   |                                  |         |  |       | M F Unk LAB            |            |            |      | D W L     |
|  |                               |             |                    |                   |                                  |         |  |       | M F Unk LAB            |            |            |      | D W L     |
|  |                               |             |                    |                   |                                  |         |  |       | M F Unk LAB            |            |            |      | D W L     |
|  |                               |             |                    |                   |                                  |         |  |       | M F Unk LAB            |            |            |      | D W L     |
|  |                               |             |                    |                   |                                  |         |  |       | M F Unk LAB            |            |            |      | D W L     |
|  |                               |             |                    |                   |                                  |         |  |       | M F Unk LAB            |            |            |      | D W L     |
|  |                               |             |                    |                   |                                  |         |  |       | M F Unk LAB            |            |            |      | D W L     |
|  |                               |             |                    |                   |                                  |         |  |       | M F Unk LAB            |            |            |      | D W L     |
|  |                               |             |                    |                   |                                  |         |  |       | M F Unk LAB            |            |            |      | D W L     |
|  |                               |             |                    |                   |                                  |         |  |       | M F Unk LAB            |            |            |      | D W L     |
|  |                               |             |                    |                   |                                  |         |  |       | M F Unk LAB            |            |            |      | D W L     |
|  |                               |             |                    |                   |                                  |         |  |       | M F Unk LAB            |            |            |      | D W L     |

**Location/CollectionMethod #:** Match fish with LocationName, Collection Method, and # from Tissue Collection sheet  
**Organism ID:** Combine BAG # and FISH # (e.g., fish 1 of composite WVC01 is WVC01-1) to be unique     **Tag #:** Use if applicable; must be unique     **Species Code:** see attached list for codes  
**Stage:** Adult (A), Juvenile (J), Subadult (SA), Not Recorded (NR)     **Count Est:** If appropriate, add < or > if count is estimated     **Condition:** Note whether individual is Dead (D), Weak (W), or Live (L)  
**Anomalies:** Fin Erosion (FinEro), Gill Erosion (GillEro), Lesion (Les), Parasite (Par), Popeye (PE), Tumor (Tum), Hemmorage (Hem), Skeletal Deformity (SkDef)  
**Comments:** BOG\_Coastal 1) Bag Numbers must be consecutive by previous trips per StationCode, 2) Smaller fish that are bagged by species but not tagged must be bagged by location #.

Modified 9/24/2009

Coastal Fish Species Code List Author Gary Ichikawa

| Coastal Fish List       | Code | Coastal Fish List     | Code | Coastal Fish List    | Code        |
|-------------------------|------|-----------------------|------|----------------------|-------------|
| Barred sand bass        | BSB  | Jack mackerel         | OJM  | Spotfin surfperch    | SFS         |
| Barred surfperch        | BRS  | Jack smelt            | OJS  | Spotted sand bass    | SSB         |
| Bat ray                 | OBR  | Kelp bass             | OKB  | Spotted scorpionfish | SSF         |
| Black & yellow rockfish | BYR  | Kelp greenling        | OKG  | Spotted turbot       | STR         |
| Black croaker           | BKC  | Kelp rockfish         | KPR  | Starry flounder      | OSF         |
| Black surfperch         | BLS  | Kelp perch            | OKP  | Striped bass         | STB         |
| Black rockfish          | BLR  | Leopard shark         | OLS  | Striped mullet       | OSM         |
| Blacksmith              | BKS  | Lingcod               | OLC  | Striped surfperch    | STS         |
| Blue rockfish           | BUR  | Littleneck clam       | LNC  | Tapes clam           | OTC         |
| Bocaccio                | BOC  | Longfin sanddab       | LFS  | Top smelt            | TPS         |
| Bonefish                | OBF  | Northern Anchovy      | ONA  | Vermillion rockfish  | OVR         |
| Brown rock crab         | BRC  | Pacific halibut       | OPH  | Walleye surfperch    | WSP         |
| Brown rockfish          | BRR  | Chub mackerel         | OCM  | White croaker        | OWC         |
| Brown smoothhound       | BSH  | Ocean whitefish       | OWF  | White Sturgeon       | WST         |
| Calico surfperch        | CSP  | Olive rockfish        | OLR  | White surfperch      | WHS         |
| California corbina      | OCC  | Opaleye               | OPE  | Wolf eel             | OWE         |
| California halibut      | OCH  | Pacific angel shark   | PAS  | Yellow rockcrab      | YRC         |
| California lizardfish   | CLF  | Pacific hake          | PCH  | Yellowfin croaker    | OYC         |
| California sheephead    | CSH  | Pacific sandad        | PSD  | Yellowtail rockfish  | YTR         |
| Canary rockfish         | CNR  | Pacific sardine       | PSR  |                      |             |
| Chilipepper rockfish    | CPR  | Pile surfperch        | PSP  | <u>New Species</u>   | <u>Code</u> |
| China rockfish          | CHR  | Queenfish             | QUF  |                      |             |
| Chinook salmon          | CHS  | Quillback rockfish    | QBR  |                      |             |
| Coho salmon             | COS  | Rainbow surfperch     | RBS  |                      |             |
| Copper rockfish         | CPR  | Red rock crab         | RRC  |                      |             |
| Diamond turbot          | ODT  | Redtail surfperch     | RSP  |                      |             |
| Dungeness crab          | ODC  | Reef surfperch        | RFS  |                      |             |
| Dwarf surfperch         | DWS  | Rosethorn rockfish    | RTR  |                      |             |
| English sole            | OES  | Round stingray        | ORS  |                      |             |
| Fantail sole            | OFS  | Rubberlip surfperch   | RLS  |                      |             |
| Gaper clam              | OGC  | Sargo                 | SAR  |                      |             |
| Gopher rockfish         | OGR  | Shiner surfperch      | SHS  |                      |             |
| Grass rockfish          | GRR  | Shovelnose guitarfish | SGF  |                      |             |
| Grass shrimp            | OGS  | Silver surfperch      | SSP  |                      |             |
| Greenstriped rockfish   | GSR  | Speckled sanddab      | SSD  |                      |             |
| Grey smoothhound Shark  | GSS  | Spiny dogfish         | SDF  |                      |             |
| Halfmoon                | HFM  | Splitnose rockfish    | SPN  |                      |             |
| Horseneck clam          | HNC  | Spotfin croaker       | SFC  |                      |             |

| CollectionDeviceName            | Datasheet |
|---------------------------------|-----------|
| MPSL-DFG_CastNet_Bait           | Bait      |
| MPSL-DFG_CastNet_Mullet         | Mullet    |
| MPSL-DFG_GillNet_1ComboPanel    | 1         |
| MPSL-DFG_GillNet_2ComboPanel    | 2         |
| MPSL-DFG_GillNet_3(100m, 8.5")  | 3         |
| MPSL-DFG_GillNet_4ComboPanel    | 4         |
| MPSL-DFG_GillNet_5(100m, 6.0")  | 5         |
| MPSL-DFG_GillNet_6(100m, 3.75") | 6         |
| MPSL-DFG_OtterTrawl_12          | 12        |
| MPSL-DFG_OtterTrawl_16          | 16        |
| MPSL-DFG_PoleSpears             | Spears    |



## Notes to Standardize SWAMP Field Data Sheets (For in the field use)

### Key Reminders to identify samples:

1. **Sample Time** is the SAME for all samples (Water, Sediment, & Probe) taken at the sampling event. Use time of FIRST sample; important for COC.
2. **Group**; many different ways to do a group, one suggestion is to create groups which assign trips to assess frequency of field QA

### Collection Details

1. **Personnel**: S. Mundell, G Ichikawa (first person listed is crew leader)
2. **Location**: Use "openwater" in bay/estuary/harbor only if no distinguishable channel exists
3. **GRAB vs INTEGRATED**: GRAB samples are when bottles are filled from a single depth; INTEGRATED sample are taken from MULTIPLE depths and combined.
  - a. GRAB: use 0.1 for subsurface samples; if too shallow to submerge bottle; depth =0
  - b. INTEGRATED: -88 in depth sampled, record depths combined in sample comments
4. **TARGET LAT/LONG**: Refers to the existing station location that the sampling crew is trying to achieve; can be filled out prior to sampling
5. **ACTUAL LAT/ LONG**: is the location of the current sample event.
6. **HYDROMODIFICATION**: Describe existing hydromodifications such as a grade control, drainage pipes, bridge, culvert
7. **HYDROMOD LOC**: if there is an IMMEDIATE (with in range potentially effecting sample) hydromodification; Is the hydromodification upstream/downstream/within area of sample; if there is no hydromodification, NA is appropriate
8. **STREAM WIDTH and DEPTH**: describe in meters at point of sample.

**FIELD OBSERVATIONS**: (each one of these observations has a comment field in the database so use comment space on data sheet to add information about an observation if necessary)

1. **PICTURES**: use space to record picture numbers given by camera; be sure to rename accordingly back in the office. (StationCode\_yyyy\_mm\_dd\_uniquecode)
2. **WADEABILITY**: in general, is waterbody being sampled wadeable to the average person AT the POINT of SAMPLE
3. **DOMINANT SUBSTRATE**: if possible; describe DOMINANT substrate type; use UNK if you cannot see the dominant substrate type
4. **BEAUFORT SCALE**: use scale 0-12; refer to scales listed below.
5. **WIND DIRECTION**: records the direction from which the wind is blowing
6. **OTHER PRESENCE**: VASCULAR refers to terrestrial plants or submerged aquatic vegetation (SAV) and NONVASCULAR refers to plankton, periphyton etc. These definitions apply to vegetation IN the water at the immediate sampling area.
7. **OBSERVED FLOW**: Visual estimates in cubic feet/ second.
8. **WATER COLOR**: This is the color of the water from standing creek side
9. **WATER CLARITY**: this describes the clarity of the water while standing creek side; clear represents water that is clear to the bottom, cloudy may not be clear to bottom but greater than 4" can be seen through the water column.
10. **SedimentComp**: generally described sediments used for chemistry sample

Note: these reminders do not give all details needed to maintain equivalent SWAMP sampling protocols, they are strictly for "infield" use to help insure comparability of field observations.



## BEAUFORT SCALE: Specifications and equivalent speeds for use at sea

| FORCE | EQUIVALENT SPEED<br>10 m above ground |       | DESCRIPTION     | SPECIFICATIONS FOR USE AT<br>SEA  |
|-------|---------------------------------------|-------|-----------------|---|
|       | miles/hour                            | knots |                 |   |
| 0     | 0-1                                   | 0-1   | Calm            | Sea like a mirror   |
| 1     | 1-3                                   | 1-3   | Light air       | Ripples with the appearance of scales are formed, but without foam crests.  |
| 2     | 4-7                                   | 4-6   | Light breeze    | Small wavelets, still short, but more pronounced. Crests have a glassy appearance and do not break.   |
| 3     | 8-12                                  | 7-10  | Gentle breeze   | Large wavelets. Crests begin to break. Foam of glassy appearance. Perhaps scattered white horses.   |
| 4     | 13-18                                 | 11-16 | Moderate breeze | Small waves, becoming larger; fairly frequent white horses.   |
| 5     | 19-24                                 | 17-21 | Fresh breeze    | Moderate waves, taking a more pronounced long form; many white horses are formed. Chance of some spray.   |
| 6     | 25-31                                 | 22-27 | Strong breeze   | Large waves begin to form; the white foam crests are more extensive everywhere. Probably some spray.  |
| 7     | 32-38                                 | 28-33 | Near gale       | Sea heaps up and white foam from breaking waves begins to be blown in streaks along the direction of the wind.  |
| 8     | 39-46                                 | 34-40 | Gale            | Moderately high waves of greater length; edges of crests begin to break into spindrift. The foam is blown in well-marked streaks along the direction of the wind.   |
| 9     | 47-54                                 | 41-47 | Severe gale     | High waves. Dense streaks of foam along the direction of the wind. Crests of waves begin to topple, tumble and roll over. Spray may affect visibility.  |
| 10    | 55-63                                 | 48-55 | Storm           | Very high waves with long overhanging crests. The resulting foam, in great patches, is blown in dense white streaks along the direction of the wind. On the whole the surface of the sea takes on a white appearance. The 'tumbling' of the sea |

Source:

Last edited on 09 January, 1999 Dave Wheeler weatherman@zetnet.co.uk

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heavy and shock-like. Visibility affected.

## BEAUFORT SCALE: Specifications and equivalent speeds for use on land

| FORCE | EQUIVALENT<br>10 m above ground<br>miles/hour | SPEED<br>knots | DESCRIPTION     | SPECIFICATIONS FOR USE ON<br>LAND   |
|-------|---|----------------|-----------------|---|
| 0     | 0-1   | 0-1            | Calm            | Calm; smoke rises verticall.  |
| 1     | 1-3   | 1-3            | Light air       | Direction of wind shown by smoke drift, but not by wind vanes                               |
| 2     | 4-7   | 4-6            | Light Breeze    | Wind felt on face; leaves rustle; ordinary vanes moved by wind                              |
| 3     | 8-12  | 7-10           | Gentle Breeze   | Leaves and small twigs in constant motion; wind extends light flag                          |
| 4     | 13-18   | 11-16          | Moderate Breeze | Raises dust and loose paper; small branches are moved.                                      |
| 5     | 19-24   | 17-12          | Fresh Breeze    | Small trees in leaf begin to sway crested wavelets form on inland waters                    |
| 6     | 25-31   | 22-27          | Strong Breeze   | Large branches in motion; whistling heard in telegraph wires umbrellas used with difficulty |
| 7     | 32-38   | 28-33          | Neargale        | Whole trees in motion; inconvenience felt when walking against the wind                     |
| 8     | 39-46   | 34-40          | Gale            | Breaks Twigs and generally impedes progress   |

Source:

Last edited on 09 January, 1999 Dave Wheeler weatherman@zetnet.co.uk

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# Attachment 3: Analysis Authorization Forms

Analysis Authorization  
Fiscal Year: 08/09  
Region:

Project ID: SWAMP\_SB\_BOG  
Season:  
Date:

Contact Person: Autumn Bonnema  
Phone: 831-771-4175  
email: bonnema@miml.calstate.edu  
Mailing Address: 7544 Sandholdt Road  
Moss Landing, CA 95039

| Trip         | Station | SpeciesCode | CompositeIDText | Dissect and Analyze |         |         |           | Weight/Sex |
|--------------|---------|-------------|-----------------|---------------------|---------|---------|-----------|------------|
|              |         |             |                 | Hg                  | Comp Hg | Comp Se | %Moisture |            |
|              |         |             |                 |                     |         |         |           |            |
|              |         |             |                 |                     |         |         |           |            |
|              |         |             |                 |                     |         |         |           |            |
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|              |         |             |                 |                     |         |         |           |            |
| <b>Total</b> |         |             |                 | 0                   | 0       | 0       | 0         | 0          |

| OC | PCB | PBDE | Dissect and Send to WPCL |        |
|----|-----|------|--------------------------|--------|
|    |     |      | %Moisture                | %Lipid |
|    |     |      |                          |        |
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| Archive Individuals | Archive Comp |
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**Analysis Authorization**  
**Fiscal Year:** 08/09  
**Region:**

**Project ID:** SWAMP\_SB\_BOG  
**Season:**  
**Date:**

**Contact Person:** Autumn Bonnema  
**Phone:** 831-771-4175  
**email:** bonnema@mmlm.calstate.edu  
**Mailing Address:** 7544 Sandholdt Road  
Moss Landing, CA 95039

| Trip         | Station | SpeciesCode | CompositeIDText | Dissect and Analyze |     |      |              |        |            |
|--------------|---------|-------------|-----------------|---------------------|-----|------|--------------|--------|------------|
|              |         |             |                 | OC                  | PCB | PBDE | Tissue Flesh |        | Weight/Sex |
|              |         |             |                 |                     |     |      | %Moisture    | %Lipid |            |
|              |         |             |                 |                     |     |      |              |        |            |
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|              |         |             |                 |                     |     |      |              |        |            |
| <b>Total</b> |         |             |                 | 0                   | 0   | 0    | 0            | 0      | 0          |

| Dissect and Send to MPPL |         |         |             |               |
|--------------------------|---------|---------|-------------|---------------|
| Tissue Flesh             |         |         | Archive     |               |
| Ind Hg                   | Comp Hg | Comp Se | Individuals | Location Comp |
|                          |         |         |             |               |
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| 0                        | 0       | 0       | 0           | 0             |

## Attachment 4: Laboratory Data Sheets

| SWAMP Lab Data Sheet - FISH |               | ProjectID: SWAMP_SB_BOG              |             | PrepPres:                 |         | LabID:                        |                   | Pg: 1 of 2 Pgs |             |           |         |               |
|-----------------------------|---------------|--------------------------------------|-------------|---------------------------|---------|-------------------------------|-------------------|----------------|-------------|-----------|---------|---------------|
| StationCode:                |               | Tissue: Fillet                       |             |                           |         | Entered d-base (initial/date) |                   |                |             |           |         |               |
| StationName:                |               | Homog. Method: BUCCHI POLYTRON OTHER |             |                           |         | Staff: Diss. Homog.           |                   |                |             |           |         |               |
| Species Name:               |               | Date Diss. (mm/dd/yyyy): / /         |             |                           |         | Date Homog. (mm/dd/yyyy): / / |                   |                |             |           |         |               |
| #                           | Tissue/Bag ID | Fish #                               | Organism ID | Composite / Individual ID | FL (mm) | TL (mm)                       | Whole Fish Wt (g) | Part Wt (g)    | Sex         | Part      | Anomaly | Body Location |
| 1                           |               |                                      |             |                           |         |                               |                   |                | M / F / Unk | T / L / O |         |               |
| 2                           |               |                                      |             |                           |         |                               |                   |                | M / F / Unk | T / L / O |         |               |
| 3                           |               |                                      |             |                           |         |                               |                   |                | M / F / Unk | T / L / O |         |               |
| 4                           |               |                                      |             |                           |         |                               |                   |                | M / F / Unk | T / L / O |         |               |
| 5                           |               |                                      |             |                           |         |                               |                   |                | M / F / Unk | T / L / O |         |               |
| 6                           |               |                                      |             |                           |         |                               |                   |                | M / F / Unk | T / L / O |         |               |
| 7                           |               |                                      |             |                           |         |                               |                   |                | M / F / Unk | T / L / O |         |               |
| 8                           |               |                                      |             |                           |         |                               |                   |                | M / F / Unk | T / L / O |         |               |
| 9                           |               |                                      |             |                           |         |                               |                   |                | M / F / Unk | T / L / O |         |               |
| 10                          |               |                                      |             |                           |         |                               |                   |                | M / F / Unk | T / L / O |         |               |
| 11                          |               |                                      |             |                           |         |                               |                   |                | M / F / Unk | T / L / O |         |               |
| 12                          |               |                                      |             |                           |         |                               |                   |                | M / F / Unk | T / L / O |         |               |
| 13                          |               |                                      |             |                           |         |                               |                   |                | M / F / Unk | T / L / O |         |               |
| 14                          |               |                                      |             |                           |         |                               |                   |                | M / F / Unk | T / L / O |         |               |
| 15                          |               |                                      |             |                           |         |                               |                   |                | M / F / Unk | T / L / O |         |               |
| 16                          |               |                                      |             |                           |         |                               |                   |                | M / F / Unk | T / L / O |         |               |
| 17                          |               |                                      |             |                           |         |                               |                   |                | M / F / Unk | T / L / O |         |               |
| 18                          |               |                                      |             |                           |         |                               |                   |                | M / F / Unk | T / L / O |         |               |
| 19                          |               |                                      |             |                           |         |                               |                   |                | M / F / Unk | T / L / O |         |               |
| 20                          |               |                                      |             |                           |         |                               |                   |                | M / F / Unk | T / L / O |         |               |
| 21                          |               |                                      |             |                           |         |                               |                   |                | M / F / Unk | T / L / O |         |               |
| 22                          |               |                                      |             |                           |         |                               |                   |                | M / F / Unk | T / L / O |         |               |
| 23                          |               |                                      |             |                           |         |                               |                   |                | M / F / Unk | T / L / O |         |               |
| 24                          |               |                                      |             |                           |         |                               |                   |                | M / F / Unk | T / L / O |         |               |
| 25                          |               |                                      |             |                           |         |                               |                   |                | M / F / Unk | T / L / O |         |               |

**OrganismID:** xxxxxxxxLLXX##YYZz-ZZ; unique code - StationCode (xxxxxxxx), Location (LL), Project (XX), ProjectYear (##), OrganismCode (YYYY), Bag # (zz), Fish # (ZZ); ex. 203SRF101L1SW04CAR01-01

**TissueID:** Differentiates different parts from same fish or differentiates composited vs. individual fish      **Part:** Tissue (T), Liver (L), Other (O) - list in Comments

**Comp/IndID:** Unique code; include Agency code in the ID; e.g., 2003-1823-MLML or C031501-MLML

**Anomalies:** Ambicoloration (A), Albinism (B), Cloudiness (CL), Deformity-skeletal (D), Discoloration (DC), Depression (DS), Fin Erosion (F), Gill Erosion (T), Hemorrhage (H), Lesion (L), Parasite (P),

**Body Locations:** Branchial Chamber (BRC), Buccal Cavity (BC), Eyes (E), Musculoskeleton (M), Skin/Fins (SF)      Popeye (PE), Tumor (T), Ulceration (U), White Spots (W), and any combination

**Comments:** Measure length to nearest 1 mm; Measure weight to nearest 0.01 g; Keep archive tissue if possible; If a duplicate is made, use DupID as identification for analysis

Modified 06/08/07

|  |   |   |                               |   |                |
|--|---|---|-------------------------------|---|----------------|
| <b>SWAMP Lab Data Sheet - FISH</b>   |   | ProjectID: SWAMP_SB_BOG                     | PrepPres: Skin OFF            | LabID:                                      | Pg: 1 of 2 Pgs |
| StationCode:   | Tissue: Fillet                            |   | Entered d-base (initial/date) |   |                |
| StationName:   | Homog. Method: BUCCHI POLYTRON OTHER_____ |   | Staff: Diss.                  | Homog.                                      |                |
| Species Name:  | Date Diss. (mm/dd/yyyy): / /              |   | Date Homog. (mm/dd/yyyy): / / |   |                |
| <b>CHEMISTRY JARS</b>  |   |   |                               |   |                |
| <b>Composite/Individual ID:</b>  |   | <b>Composite/Individual ID:</b>             |                               | <b>Composite/Individual ID:</b>             |                |
| Analysis: Mercury Organics Archive   |   | Analysis: Mercury Organics Archive          |                               | Analysis: Mercury Organics Archive          |                |
| Jar Weight Full (g): _____   |   | Jar Weight Full (g): _____                  |                               | Jar Weight Full (g): _____                  |                |
| Jar Weight Empty (g): _____  |   | Jar Weight Empty (g): _____                 |                               | Jar Weight Empty (g): _____                 |                |
| Comp Tissue Wt (Jar Full - Empty; g): _____  |   | Comp Tissue Wt (Jar Full - Empty; g): _____ |                               | Comp Tissue Wt (Jar Full - Empty; g): _____ |                |
| Duplicate: Yes / No DUP ID:  |   | Dup: Yes / No DUP ID:                       |                               | Duplicate: Yes / No DUP ID:                 |                |
| <b>Composite/Individual ID:</b>  |   | <b>Composite/Individual ID:</b>             |                               | <b>Composite/Individual ID:</b>             |                |
| Analysis: Mercury Organics Archive   |   | Analysis: Mercury Organics Archive          |                               | Analysis: Mercury Organics Archive          |                |
| Jar Weight Full (g): _____   |   | Jar Weight Full (g): _____                  |                               | Jar Weight Full (g): _____                  |                |
| Jar Weight Empty (g): _____  |   | Jar Weight Empty (g): _____                 |                               | Jar Weight Empty (g): _____                 |                |
| Comp Tissue Wt (Jar Full - Empty; g): _____  |   | Comp Tissue Wt (Jar Full - Empty; g): _____ |                               | Comp Tissue Wt (Jar Full - Empty; g): _____ |                |
| Duplicate: Yes / No DUP ID:  |   | Dup: Yes / No DUP ID:                       |                               | Duplicate: Yes / No DUP ID:                 |                |
| <b>Composite/Individual ID:</b>  |   | <b>Composite/Individual ID:</b>             |                               | <b>Composite/Individual ID:</b>             |                |
| Analysis: Mercury Organics Archive   |   | Analysis: Mercury Organics Archive          |                               | Analysis: Mercury Organics Archive          |                |
| Jar Weight Full (g): _____   |   | Jar Weight Full (g): _____                  |                               | Jar Weight Full (g): _____                  |                |
| Jar Weight Empty (g): _____  |   | Jar Weight Empty (g): _____                 |                               | Jar Weight Empty (g): _____                 |                |
| Comp Tissue Wt (Jar Full - Empty; g): _____  |   | Comp Tissue Wt (Jar Full - Empty; g): _____ |                               | Comp Tissue Wt (Jar Full - Empty; g): _____ |                |
| Duplicate: Yes / No DUP ID:  |   | Dup: Yes / No DUP ID:                       |                               | Duplicate: Yes / No DUP ID:                 |                |
| <b>Composite/Individual ID:</b>  |   | <b>Composite/Individual ID:</b>             |                               | <b>Composite/Individual ID:</b>             |                |
| Analysis: Mercury Organics Archive   |   | Analysis: Mercury Organics Archive          |                               | Analysis: Mercury Organics Archive          |                |
| Jar Weight Full (g): _____   |   | Jar Weight Full (g): _____                  |                               | Jar Weight Full (g): _____                  |                |
| Jar Weight Empty (g): _____  |   | Jar Weight Empty (g): _____                 |                               | Jar Weight Empty (g): _____                 |                |
| Comp Tissue Wt (Jar Full - Empty; g): _____  |   | Comp Tissue Wt (Jar Full - Empty; g): _____ |                               | Comp Tissue Wt (Jar Full - Empty; g): _____ |                |
| Duplicate: Yes / No DUP ID:  |   | Dup: Yes / No DUP ID:                       |                               | Duplicate: Yes / No DUP ID:                 |                |
| <b>Composite/Individual ID:</b>  |   | <b>Composite/Individual ID:</b>             |                               | <b>Composite/Individual ID:</b>             |                |
| Analysis: Mercury Organics Archive   |   | Analysis: Mercury Organics Archive          |                               | Analysis: Mercury Organics Archive          |                |
| Jar Weight Full (g): _____   |   | Jar Weight Full (g): _____                  |                               | Jar Weight Full (g): _____                  |                |
| Jar Weight Empty (g): _____  |   | Jar Weight Empty (g): _____                 |                               | Jar Weight Empty (g): _____                 |                |
| Comp Tissue Wt (Jar Full - Empty; g): _____  |   | Comp Tissue Wt (Jar Full - Empty; g): _____ |                               | Comp Tissue Wt (Jar Full - Empty; g): _____ |                |
| Duplicate: Yes / No DUP ID:  |   | Dup: Yes / No DUP ID:                       |                               | Duplicate: Yes / No DUP ID:                 |                |
| Comments: Keep archive tissue if possible; If a duplicate is made, use Dup ID as identification for analysis |   |   |                               |   |                |