



## APPENDIX 1 – Fish List

| Family                  | Genus                   | Species               | Creole                  | Makushi         |
|-------------------------|-------------------------|-----------------------|-------------------------|-----------------|
| <i>Ageniosidae</i>      | <i>Ageniosus</i>        | <i>brevifilis</i>     | Dawalu                  | p̄rap̄irari     |
| <i>Auchenipteridae</i>  | <i>Parauchenipterus</i> | <i>galeatus</i>       | Imehri                  | anuiya          |
| <i>Auchenipteridae</i>  | <i>Trachycorystes</i>   | <i>trachycorystes</i> | Boots                   | am̄iri          |
| <i>Callichthyidae</i>   | <i>Hoplosternum</i>     | <i>thoracatum</i>     | Round-headed<br>Hassar  | k̄riwou         |
| <i>Characidae</i>       | <i>Acestrorhynchus</i>  | <i>falcatus</i>       | Fox Fish                | maikan          |
| <i>Characidae</i>       | <i>Astyanax</i>         | <i>sp.</i>            | Big-eye serebe          | kam̄iya, sapuru |
| <i>Characidae</i>       | <i>Brycon</i>           | <i>falcatus</i>       | Curumai                 | purumai         |
| <i>Characidae</i>       | <i>Metynnis</i>         | <i>hypsauchen</i>     | White Pacu              | kumaru, waita   |
| <i>Characidae</i>       | <i>Myleus</i>           | <i>pacu</i>           | Cartabac                | kamana          |
| <i>Characidae</i>       | <i>Pygocentrus</i>      | <i>nattereri</i>      | Cashew Perai            | suyu arai       |
| <i>Characidae</i>       | <i>Serrasalmus</i>      | <i>niger</i>          | Black Perai             | riktun arai     |
| <i>Characidae</i>       | <i>Triportheus</i>      | <i>rotundatus</i>     | Basket Fish             | p̄ikarum̄a      |
| <i>Cichlidae</i>        | <i>Cichla</i>           | <i>ocellaris</i>      | Lukunani                | kamakara        |
| <i>Cichlidae</i>        | <i>Crenicichla</i>      | <i>alta</i>           | Sunfish                 | kurapi          |
| <i>Cichlidae</i>        | <i>Geophagus</i>        | <i>surinemensis</i>   | Sand Grinder            | saimaka         |
| <i>Ctenoluciidae</i>    | <i>Boulengerella</i>    | <i>cuvieri</i>        | Sword Fish              | moruwi          |
| <i>Curimatidae</i>      | <i>Leporinus</i>        | <i>friderici</i>      | Dare                    | k̄im̄iyari      |
| <i>Curimatidae</i>      | <i>Prochilodus</i>      | <i>rubrotaeniatus</i> | Yakutu                  | k̄im̄ita        |
| <i>Cynodontidae</i>     | <i>Hydrolycus</i>       | <i>scomberoides</i>   | Baiara                  |                 |
| <i>Cynodontidae</i>     | <i>Hydrolycus</i>       | <i>armatus</i>        | Creek Baiara            | w̄inni, paya    |
| <i>Doradidae</i>        | <i>Hassar</i>           | <i>notospilus</i>     | Bitter Head             | maipupai        |
| <i>Doradidae</i>        | <i>Pseudodoras</i>      | <i>niger</i>          | Zip Fish                | kuyun kuyun     |
| <i>Erythrinidae</i>     | <i>Hoploerythrinus</i>  | <i>unitaeniatus</i>   | Yarrow                  | karasai         |
| <i>Erythrinidae</i>     | <i>Hoplias</i>          | <i>aimara</i>         | Haimara                 | aima            |
| <i>Erythrinidae</i>     | <i>Hoplias</i>          | <i>malabaricus</i>    | Huri                    | patakai         |
| <i>Erythrinidae</i>     | <i>Erythrinus</i>       | <i>erythrinus</i>     | Bush Yarrow             | woyomari        |
| <i>Gymnotidae</i>       | <i>Electrophorus</i>    | <i>electricus</i>     | Electric eel            | a'rinra         |
| <i>Loricariidae</i>     | <i>Ancistrus</i>        | <i>hoplogenyis</i>    | Banjuman                | ariwa           |
| <i>Osteoglossidae</i>   | <i>Arapaima</i>         | <i>gigas</i>          | Arapaima                | warapai         |
| <i>Osteoglossidae</i>   | <i>Osteoglossum</i>     | <i>bichirrosum</i>    | Arawana                 | arauwuna        |
| <i>Pimelodidae</i>      | <i>Pimelodus</i>        | <i>blochii</i>        | Johnny Mangy,<br>Larima | kat̄ir̄ina      |
| <i>Pimelodidae</i>      | <i>Pseudoplatystoma</i> | <i>tigrinum</i>       | Long-head Cullet        | ararama         |
| <i>Pimelodidae</i>      | <i>Pseudoplatystoma</i> | <i>fasciatum</i>      | Short-head Cullet       | kurutu, karama  |
| <i>Pimelodidae</i>      | <i>Rhamdia</i>          | <i>quelen</i>         | Kassi                   | rek̄i           |
| <i>Potamotrygonidae</i> | <i>Potamotrygon</i>     | <i>sp.</i>            | String Ray              | sipare          |
| <i>Sciaenidae</i>       | <i>Pachypops</i>        | <i>grunniens</i>      | Small Basha             | siriki          |
| <i>Sciaenidae</i>       | <i>Plagioscion</i>      | <i>sqamosissimus</i>  | Basha                   | pakupa          |



## Appendix 2 – Wetland Bird List

| Family and Common Names                       | Scientific Name                  |
|---|----------------------------------|
| <b>Phalacrocoracidae (Cormorants)</b>         |                                  |
| Neotropical Cormorant                         | <i>Phalacrocorax brasilianus</i> |
| <b>Anhingidae (Anhingas)</b>                  |                                  |
| Anhinga                                       | <i>Anhinga anhinga</i>           |
| <b>Anatidae (Ducks and Geese)</b>             |                                  |
| Blue-winged Teal                              | <i>Anas discors</i>              |
| Muscovy Duck                                  | <i>Cairina moschata</i>          |
| Black-bellied Whistling Duck                  | <i>Dendrocygna autumnalis</i>    |
| <b>Ardeidae (Hérons and Egrets)</b>           |                                  |
| Great Egret                                   | <i>Ardea alba</i>                |
| Cattle Egret                                  | <i>Bubulcus ibis</i>             |
| Snowy Egret                                   | <i>Egretta thula</i>             |
| White-necked Heron (Cocoi Heron)              | <i>Ardea cocoi</i>               |
| Capped Heron                                  | <i>Pilherodius pileatus</i>      |
| Striated Heron                                | <i>Butorides striatus</i>        |
| Little Blue Heron                             | <i>Egretta caerulea</i>          |
| Tricoloured Heron                             | <i>Hydranassa tricolor</i>       |
| Rufescent Tiger Heron                         | <i>Trigrisoma lineatum</i>       |
| Chestnut-bellied Heron (Agami Heron)          | <i>Agamia agami</i>              |
| Zigzag Heron                                  | <i>Zebrilus undulates</i>        |
| <b>Cochleariidae (Boat-billed Herons)</b>     |                                  |
| Boat-billed Heron                             | <i>Cochlearius coclearius</i>    |
| <b>Ciconiidae (Storks)</b>                    |                                  |
| Jabiru  | <i>Jabiru mycteria</i>           |
| American Wood Ibis                            | <i>Mycteria americana</i>        |
| Maguari Stork                                 | <i>Euxenura maguari</i>          |
| <b>Threskiornithidae (Ibises, Spoonbills)</b> |                                  |
| Green Ibis                                    | <i>Mesembrinibis cayennensis</i> |
| Glossy Ibis                                   | <i>Plegadis falcinellus</i>      |

| <b>Family and Common Names</b>              | <b>Scientific Name</b>            |
|---|-----------------------------------|
| Roseate Spoonbill                           | <i>Ajaia ajaja</i>                |
| <b>Cathartidae (New World Vultures)</b>     |                                   |
| Black Vulture                               | <i>Coragyps atratus</i>           |
| Greater Yellow-headed Vulture               | <i>Cathartes melambrotus</i>      |
| Lesser Yellow-headed Vulture                | <i>Cathartes burrovianus</i>      |
| <b>Accipitridae (Kites, Hawks, Eagles)</b>  |                                   |
| Black-collared Hawk                         | <i>Busarellus nigricollis</i>     |
| Common Black Hawk                           | <i>Buteogallus anthracinus</i>    |
| Snail Kite                                  | <i>Rostrhamus sociabilis</i>      |
| Savannah Hawk                               | <i>Heterospizias meridionalis</i> |
| <b>Pandionidae (Osprey)</b>                 |                                   |
| Osprey                                      | <i>Pandion haliaetus</i>          |
| <b>Falconidae (Falcons, Caracaras)</b>      |                                   |
| Black Caracara                              | <i>Daptrius ater</i>              |
| Yellow-headed Caracara                      | <i>Milvago chimachima</i>         |
| Crested Caracara                            | <i>Polyborus plancus</i>          |
| <b>Rallidae (Coots and Rails)</b>           |                                   |
| Gray-necked Wood Rail                       | <i>Aramides cajanea</i>           |
| Purple Gallinule                            | <i>Porphyryla martinica</i>       |
| Azure Gallinule                             | <i>Porphyryla flavirostris</i>    |
| <b>Eurypyidae (Sunbittern)</b>              |                                   |
| Sunbittern                                  | <i>Eurypyga helias</i>            |
| <b>Heliornithidae (Sungrebe)</b>            |                                   |
| Sungrebe                                    | <i>Heliornis fulica</i>           |
| <b>Jacanidae (Jacanas)</b>                  |                                   |
| Wattled Jacana                              | <i>Jacana jacana</i>              |
| <b>Charadriidae (Lapwings and Plovers)</b>  |                                   |
| Southern Lapwings                           | <i>Vanellus chilensis</i>         |
| Pied Plover                                 | <i>Hoploxypterus cayanus</i>      |
| <b>Scolopacidae (Sandpipers and Snipes)</b> |                                   |
| Solitary Sandpiper                          | <i>Tringa solitaria</i>           |

| <b>Family and Common Names</b>   | <b>Scientific Name</b>        |
|----------------------------------|-------------------------------|
| <b>Laridae (Gulls and Terns)</b> |                               |
| Large-billed Tern                | <i>Phaetusa simplex</i>       |
| Least Tern                       | <i>Sterna albifrons</i>       |
| Yellow-billed Tern               | <i>Sterna superciliaris</i>   |
| <b>Rynchopidae (Skimmers)</b>    |                               |
| Black Skimmer                    | <i>Rynchops niger</i>         |
| <b>Alcedinidae (Kingfishers)</b> |                               |
| Ringed Kingfisher                | <i>Ceryle torquata</i>        |
| Amazon Kingfisher                | <i>Chloroceryle amazona</i>   |
| Green Kingfisher                 | <i>Chloroceryle americana</i> |
| Green and Rufous Kingfisher      | <i>Chloroceryle inda</i>      |
| Pygmy Kingfisher                 | <i>Chloroceryle aenea</i>     |



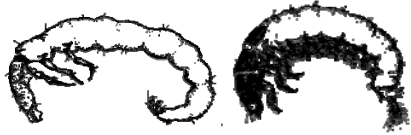
### Appendix 3 – Wildlife List for Monitoring / Consumption Monitoring

| Local Name    | Scientific Name                          | Makushi Name | English Common Name            |
|---------------|--|--------------|--------------------------------|
| Bush Cow      | <i>Tapirus terrestris</i>                | waira        | Brazilian Tapir                |
| Watras        | <i>Hydrochaeris hydrochaeris</i>         | pranwei      | Capybara                       |
| Savannah Deer |  | kîri yakî    | White Tailed Deer              |
| Bush Deer     |  | kusari       | Red Brocket Deer               |
| Land Turtle   | <i>Geochelone carbonaria/denticulata</i> |              | Red and Yellow Footed Tortoise |
| Yaci          |  | kiekan       | Armadillo                      |
| Agouti/John   | <i>Agouti paca</i>                       | kuri         | Red Rumped Agouti              |
| Labba         | <i>Dasyprocta agouti</i>                 | warana       | Paca                           |
| Tartuga       | <i>Podocnemis expansa</i>                | warara       | Giant River Turtle             |
| Caiman        | <i>Caiman crocodiles</i>                 | kare         | Spectacled Caiman              |
| Caiman        | <i>Melanosuchus niger</i>                | karatu       | Black Caiman                   |
| Water Dog     | <i>Pteronura brasiliensis</i>            | turara       | Giant River Otter              |
| Jaguar        | <i>Panthera onca</i>                     | kaikushi     | Jaguar                         |
| Wild Hog      | <i>Pecari tajacu</i>                     | praka        | Collared Peccary               |
| Wild Hog      | <i>Tajassu pecari</i>                    | pinkî        | White Lipped Peccary           |
| Anteater      | <i>Myrmecophaga tridactyla</i>           | tamanuwa     | Giant Anteater                 |
| Deer Tiger    | <i>Felis concolor</i>                    | sariwara     | Puma                           |



Appendix 4 - Macro-Invertebrate Identification Plate | Adapted from the Virginia Stream Study

**Caddisfly Larvae**



**Gilled Snails**



**Dragonfly**



**Riffle Beetle Adult**



**Crayfish**



**Stonefly Larvae**



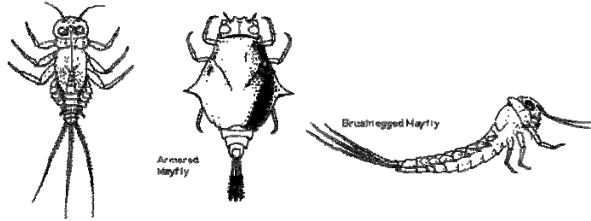
**Water Penny**



**Freshwater Bivalve**



**Mayfly Larvae**



**Damselfly**



**Lunged Snail**



**Aquatic Worms**



**Blackfly Larvae**



**Leeches**



**Midge Larvae**





## Appendix 5 - Site Monitoring Form Wetland Monitoring in the Rupununi

### Site details

|                     |  |
|---------------------|--|
| Site Name           |  |
| Site Code           |  |
| Date of survey      |  |
| Weather conditions  |  |
| Name of surveyors   |  |
| GPS location        |  |
| Time survey started |  |

### Type of Waterbody

|  |  |                          |
|--|--|--------------------------|
| River type   | Main River Channel                               | <input type="checkbox"/> |
|  | Creek  | <input type="checkbox"/> |
| Pond or lake that floods directly from river                           | Cut-off channel (inlet with connection to river) | <input type="checkbox"/> |
|  | Former channel (separate from river)             | <input type="checkbox"/> |
|  | Ox-bow lake (separate from river)                | <input type="checkbox"/> |
| Pond or lake that floods back up small creek from river                | Former channel (separate from river)             | <input type="checkbox"/> |
|  | Ox-bow lake (separate from river)                | <input type="checkbox"/> |
| Basin Ponds (these ponds have no direct input from the river flooding) | Permanent pond                                   | <input type="checkbox"/> |
|  | Pond that dries out                              | <input type="checkbox"/> |

### Hydrological attributes

|                     |   |                          |
|---------------------|---|--------------------------|
| Hydrological inputs | Groundwater discharge   | <input type="checkbox"/> |
|                     | Surface runoff  | <input type="checkbox"/> |
|                     | Surface overbank inundation from a river                              | <input type="checkbox"/> |
|                     | Surface overbank inundation from a rise in water level of a waterbody | <input type="checkbox"/> |
|                     | Precipitation   | <input type="checkbox"/> |
|                     | Other.....  | <input type="checkbox"/> |
| Flooding regime     | Water present   | <input type="checkbox"/> |
|                     | Water not present   | <input type="checkbox"/> |
| Water colour        | Black   | <input type="checkbox"/> |
|                     | White   | <input type="checkbox"/> |
|                     | Clear   | <input type="checkbox"/> |
|                     | Brown   | <input type="checkbox"/> |

### Waterbody dimensions and features

|                                 |                       |                          |               |             |                          |                  |             |                          |
|---------------------------------|-----------------------|--------------------------|---------------|-------------|--------------------------|------------------|-------------|--------------------------|
| Waterbody WATER width (metres)  |                       |                          |               |             |                          |                  |             |                          |
| Waterbody WATER depth (metres)  |                       |                          |               |             |                          |                  |             |                          |
| Waterbody WATER length (metres) |                       |                          |               |             |                          |                  |             |                          |
| Bank features                   | None                  | <input type="checkbox"/> | Bank material | Not visible | <input type="checkbox"/> | Bottom substrate | Not visible | <input type="checkbox"/> |
|                                 | Not visible           | <input type="checkbox"/> |               | Gravel/sand | <input type="checkbox"/> |                  | Boulder     | <input type="checkbox"/> |
|                                 | Eroding earth bank    | <input type="checkbox"/> |               | Clay        | <input type="checkbox"/> |                  | Sand        | <input type="checkbox"/> |
|                                 | Stable earth bank     | <input type="checkbox"/> |               | Silt        | <input type="checkbox"/> |                  | Silt        | <input type="checkbox"/> |
| Bank vegetation features        | Unvegetated bank base | <input type="checkbox"/> |               |             |                          |                  | Clay        | <input type="checkbox"/> |
|                                 | Vegetated bank base   | <input type="checkbox"/> |               |             |                          |                  |             | <input type="checkbox"/> |

### Habitat characterisation

|   |                               |                          |                          |                              |                          |                          |  |
|---|-------------------------------|--------------------------|--------------------------|------------------------------|--------------------------|--------------------------|--|
| Habitat types around waterbody          | Forest - Flooded              |                          | <input type="checkbox"/> |                              |                          |                          |  |
|   | Forest – Non-flooded          |                          | <input type="checkbox"/> |                              |                          |                          |  |
|   | Savannah – Flooded            |                          | <input type="checkbox"/> |                              |                          |                          |  |
|   | Savannah – Non-flooded        |                          | <input type="checkbox"/> |                              |                          |                          |  |
| Species present around waterbody        | Wallaba                       | <input type="checkbox"/> | Water Cedar              | <input type="checkbox"/>     |                          | <input type="checkbox"/> |  |
|   | Palm                          | <input type="checkbox"/> | Inga Spp.                | <input type="checkbox"/>     |                          | <input type="checkbox"/> |  |
|   | Mora                          | <input type="checkbox"/> | Aripipi Pala             | <input type="checkbox"/>     |                          | <input type="checkbox"/> |  |
|   | Scrub                         | <input type="checkbox"/> | Gauvaballi               | <input type="checkbox"/>     |                          | <input type="checkbox"/> |  |
|   | Lana                          | <input type="checkbox"/> | Old Man Back             | <input type="checkbox"/>     |                          | <input type="checkbox"/> |  |
|   | Bamboo                        | <input type="checkbox"/> |                          | <input type="checkbox"/>     |                          | <input type="checkbox"/> |  |
| Extent of trees and associated features | Isolated/scattered            | <input type="checkbox"/> | Bank vegetation types    | Bryophytes (mosses)          | <input type="checkbox"/> |                          |  |
|   | Regularly spaced, single      | <input type="checkbox"/> |                          | Short herbs/creeping grasses | <input type="checkbox"/> |                          |  |
|   | Occasional clumps             | <input type="checkbox"/> |                          | Tall herbs/grasses           | <input type="checkbox"/> |                          |  |
|   | Semi-continuous               | <input type="checkbox"/> |                          | Shrubs                       | <input type="checkbox"/> |                          |  |
|   | Continuous                    | <input type="checkbox"/> |                          | Climbers                     | <input type="checkbox"/> |                          |  |
|   | Shading of waterbody          | <input type="checkbox"/> |                          | Trees and saplings           | <input type="checkbox"/> |                          |  |
|   | Overhanging trees             | <input type="checkbox"/> |                          | Waterbody vegetation types   | Floating                 | <input type="checkbox"/> |  |
|   | Exposed bankside roots        | <input type="checkbox"/> |                          |                              | Emergent                 | <input type="checkbox"/> |  |
|   | Underwater tree roots         | <input type="checkbox"/> |                          |                              | Submerged                | <input type="checkbox"/> |  |
|   | Fallen trees                  | <input type="checkbox"/> |                          |                              |                          |                          |  |
|   | Coarse woody debris           | <input type="checkbox"/> |                          |                              |                          |                          |  |
| Habitat niches                          | Otter dens and campsites      |                          | <input type="checkbox"/> |                              | <input type="checkbox"/> |                          |  |
|   | Victoria amazonica (Big Lily) |                          | <input type="checkbox"/> |                              | <input type="checkbox"/> |                          |  |
|   | Floating grass                |                          | <input type="checkbox"/> |                              | <input type="checkbox"/> |                          |  |
|   | Nymphaea (Small Lily)         |                          | <input type="checkbox"/> |                              | <input type="checkbox"/> |                          |  |
|   | Guavaballi                    |                          | <input type="checkbox"/> |                              | <input type="checkbox"/> |                          |  |
|   | Maaho                         |                          | <input type="checkbox"/> |                              | <input type="checkbox"/> |                          |  |
|   | Moco moco                     |                          | <input type="checkbox"/> |                              | <input type="checkbox"/> |                          |  |
|   | Tapir entrances               |                          | <input type="checkbox"/> |                              | <input type="checkbox"/> |                          |  |
|   | Arapipi Palm                  |                          | <input type="checkbox"/> |                              | <input type="checkbox"/> |                          |  |
|   | Water Hyacinth                |                          | <input type="checkbox"/> |                              | <input type="checkbox"/> |                          |  |
|   | Busy Busy (Spiked rush)       |                          | <input type="checkbox"/> |                              | <input type="checkbox"/> |                          |  |

### Land use

|   |  |                          |                          |                          |
|---|--|--------------------------|--------------------------|--------------------------|
| Land use (please note that there are more categories on the following page) |  | Waterbody                | 50m of bank top          | Hinterland               |
|   | Fishing - Commercial                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|   | Fishing - Subsistence                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|   | Farming – Slash/burn without pesticide | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |



|  |   |                          |                          |                          |
|--|---|--------------------------|--------------------------|--------------------------|
|  | <b>Farming – Slash/burn with pesticide</b>          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  | <b>Farming - Ranching</b>                           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  | <b>Farming – Agro-forestry</b>                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  | <b>Hunting</b>                                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  | <b>Trapping</b>                                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  | <b>Mining - Riverbed</b>                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  | <b>Mining - Land</b>                                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  | <b>Tourism – Sport fishing</b>                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  | <b>Tourism - Trekking</b>                           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  | <b>Tourism - Riding</b>                             | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  | <b>Tourism – Boat trips</b>                         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  | <b>Tourism - accommodation</b>                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  | <b>Tourism – Sight seeing</b>                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  | <b>Settlement</b>                                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  | <b>Burning</b>                                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  | <b>Logging - commercial</b>                         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  | <b>Logging – local construction</b>                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  | <b>Transportation - river</b>                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  | <b>Transportation - land</b>                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  | <b>Cultural significance / practice</b>             | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  | <b>Scientific research</b>                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  | <b>Biodiversity conservation</b>                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  | <b>Brick making</b>                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  | <b>Gathering - Honey</b>                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  | <b>Gathering - Seeds</b>                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  | <b>Gathering - Plants</b>                           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  | <b>Gathering - Firewood</b>                         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  | <b>Gathering – other non-timber forest products</b> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  | <b>Recreation</b>                                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

**EXTRA NOTES**



|                                       |                             |                                |                      |                              |                 |
|---------------------------------------|-----------------------------|--------------------------------|----------------------|------------------------------|-----------------|
| <b>Caiman Surveys</b>                 | <b>Time survey started</b>  |                                |                      | <b>Time End</b>              |                 |
|                                       | <b>Species Type</b>         | <b>Length of head (inches)</b> | <b>Time observed</b> | <b>Number of Individuals</b> | <b>Comments</b> |
|                                       |                             |                                |                      |                              |                 |
|                                       |                             |                                |                      |                              |                 |
|                                       |                             |                                |                      |                              |                 |
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|                                       |                             |                                |                      |                              |                 |
|                                       |                             |                                |                      |                              |                 |
| <b>Giant River Otter</b>              | <b>Dens &amp; Campsites</b> | <b>Direct Observations</b>     |                      |                              |                 |
| <b>Incidental Faunal Observations</b> |                             |                                |                      |                              |                 |

|   |
|---|
| <b>North Rupununi Wetlands<br/>Monitoring</b> |
| <b>Water Quality Sheet</b>                    |
| <b>Site Name</b>                              |
| <b>Date</b>                                   |

| Common Name              | Scientific Group | Pollution Sensitivity | Present/Absent  | Total Sensitivity Number                        |
|--------------------------|------------------|-----------------------|---|---|
| Mayfly nymph             | Ephemeroptera    | 10                    |   |   |
| Caddis Fly Larvae        | Trichoptera      | 10                    |   |   |
| Stonefly Nymph           | Plecoptera       | 9                     |   |   |
| Riffle Beetle Adult      | Coleoptera       | 8                     |   |   |
| Riffle Beetle Larvae     | Coleoptera       | 8                     |   |   |
| Crane Fly Larvae         | Diptera          | 6                     |   |   |
| Water Mite               | Acariformes      | 6                     |   |   |
| Black Fly Larvae         | Diptera          | 5                     |   |   |
| Damselfly Larvae         | Odonata          | 4                     |   |   |
| Dragonfly Larvae         | Odonata          | 4                     |   |   |
| Scud                     | Amphipoda        | 4                     |   |   |
| Freshwater Shrimp        | Decapoda         | 4                     |   |   |
| Biting Midge Larvae      | Diptera          | 4                     |   |   |
| Water Scorpion           | Hemiptera        | 3                     |   |   |
| Freshwater Mussel        | Bivalvia         | 3                     |   |   |
| Mosquito Larvae/Pupae    | Diptera          | 3                     |   |   |
| Flatworm                 | Turbellaria      | 3                     |   |   |
| Freshwater Crab          | Decapoda         | 2                     |   |   |
| Freshwater Snail         | Gastropoda       | 2                     |   |   |
| Leech                    | Hirudinea        | 2                     |   |   |
| Predacious Beetle Adult  | Coleoptera       | 2                     |   |   |
| Predacious Beetle Larvae | Coleoptera       | 2                     |   |   |
| Roundworm                | Nematode         | 2                     |   |   |
| Water Boatman            | Hemiptera        | 1                     |   |   |
| Segmented Worm           | Oilgachaetae     | 1                     |   |   |
|                          |                  |                       |   |   |
|                          |                  |                       |   |   |
|                          |                  |                       | Add total number of types of macro - invertebrates here = TAXA RICHNESS | Add to numbers above to get the POLLUTION INDEX |

|  |  |
|--|--|
| <b>TAXA RICHNESS</b><br>Zero to Four<br>Five to Nine<br>Ten to Fourteen<br>Fourteen to Sixteen | How healthy is the site<br>Poor environment for macro-invertebrates<br>Environment that only a few different types macro-invertebrates can use<br>Environment that is moderately healthy for macro-invertebrates<br>Environment that is very healthy for macro-invertebrates |
|--|--|



## Appendix 6 – Rainfall Data Sheet

| <b>Community Data Sheet for Rainfall Monitoring</b> |             |             |                            |                      |
|---|-------------|-------------|----------------------------|----------------------|
| <b>NAME of Community -</b>                          |             |             |                            |                      |
| Month -   |             |             | Year -                     |                      |
|   | <b>Date</b> | <b>Time</b> | <b>Daily Rainfall / ml</b> | <b>Recorder Name</b> |
| 1   |             |             |                            |                      |
| <b>2</b>  |             |             |                            |                      |
| 3   |             |             |                            |                      |
| 4   |             |             |                            |                      |
| 5   |             |             |                            |                      |
| 6   |             |             |                            |                      |
| 7   |             |             |                            |                      |
| 8   |             |             |                            |                      |
| 9   |             |             |                            |                      |
| 10  |             |             |                            |                      |
| 11  |             |             |                            |                      |
| 12  |             |             |                            |                      |
| 13  |             |             |                            |                      |
| 14  |             |             |                            |                      |
| <b>15</b>   |             |             |                            |                      |
| 16  |             |             |                            |                      |
| 17  |             |             |                            |                      |
| 18  |             |             |                            |                      |
| 19  |             |             |                            |                      |
| 20  |             |             |                            |                      |
| 21  |             |             |                            |                      |
| 22  |             |             |                            |                      |
| 23  |             |             |                            |                      |
| 24  |             |             |                            |                      |
| 25  |             |             |                            |                      |
| 26  |             |             |                            |                      |
| 27  |             |             |                            |                      |
| 28  |             |             |                            |                      |
| 29  |             |             |                            |                      |
| 30  |             |             |                            |                      |
| 31  |             |             |                            |                      |



## Appendix 7 - List of Figures

| Figure Number | Figure Title   | Photo Credit/Drawing by  |
|---------------|--|--|
| 1             | Monitoring Sites for Wetlands Project                    | Map by I.Roopsind  |
| 2             | Dialogue Box – Project Summary                           | Giant Otter Drawing by – D. Davis  |
| 3             | Dialogue Box – Why Monitor                               | Makushi Girl Drawing by –L.Haynes  |
| 4             | Dialogue Box – What are wetlands                         | Giant Otter Drawing by – D. Davis  |
| 5             | Community Manual Village Discussion Sessions             | Photos by Wetland Project  |
| 6             | Dialogue Box – Monitoring Checklist                      | Makushi Girl Drawing by –L.Haynes  |
| 7             | Data Storage Model                                       | Drawing by – I.Roopsind  |
| 8             | Dialogue Box – Talking about the North Rupununi Wetlands | Makushi Girl Drawing by – L.Haynes                                       |
| 9             | Dialogue Box – Importance of Wetlands                    | Giant Otter Drawing by – D.Davis   |
| 10            | Seasonally Flooded Forest                                | Photo by Wetland Project   |
| 11            | Riverine Flooded Forest                                  | Photo by Wetland Project   |
| 12            | Seasonally Flooded Savannah                              | Photo by Wetland Project   |
| 13            | Non Flooded Savannah                                     | Photo by Wetland Project   |
| 14            | Bryophytes   | Photo by Wetland Project   |
| 15            | Tall herbs   | Photo by Wetland Project   |
| 16            | Grasses  | Photo by Wetland Project   |
| 17            | Creeping Grasses   | Photo by Wetland Project   |
| 18            | Shrub  | Photo by Wetland Project   |
| 19            | Trees and Saplings                                       | Photo by Wetland Project   |
| 20            | Emergent Plants  | Photo by Wetland Project   |
| 21            | Floating Plants  | Photo by Wetland Project   |
| 22            | Submerged Plants   | Photo by Wetland Project   |
| 23            | Eroding Earth Bank                                       | Photo by Wetland Project   |
| 24            | Stable Earth Bank  | Photo by Wetland Project   |
| 25            | Boulder in Essequibo River                               | Photo by S.James   |
| 26            | Hydrological Inputs and Outputs                          | Drawing by I.Roopsind  |
| 27            | Black Water  | Photo by Wetland Project   |
| 28            | White Water  | Photo by Wetland Project   |
| 29            | Clear Water  | Photo by Wetland Project   |
| 30            | Brown Water  | Photo by Wetland Project   |
| 31            | Site selection for macro-invertebrate sampling           | Photo by Wetland Project   |
| 32            | Kick Sampling Method                                     | Photo by Wetland Project   |
| 33            | Pond Profile   | Drawing by I.Roopsind  |
| 34            | Bird Survey Techniques                                   | Photo by Wetland Project   |
| 35            | Black Caiman   | <a href="http://www.enchantedlearning.com">www.enchantedlearning.com</a> |
| 36            | Spectacled Caiman  | <a href="http://www.enchantedlearning.com">www.enchantedlearning.com</a> |
| 37            | Histogram show bird data comparison                      |  |
| 38            | Histogram showing wild life sighting against water level |  |

## Appendix 8 – Community Manual Review Team

### Community Manual Community Monitoring Manual Review Teams

| Yupukari         | Contact Information  |
|------------------|--|
| Eutis Francis    | <a href="mailto:Francis_G@yahoo.com">Francis_G@yahoo.com</a> |
| Kingslie Vincent | Kaikumbe   |
| Laurel Nazarene  | Kaikumbe   |
| Mark Holding     | Yupukari   |

| Wowetta         | Contact Information     |
|-----------------|-------------------------|
| Noel Domingo    | Wowetta, Annai District |
| Jessie Domingo  | Wowetta, Annai District |
| Danford Moses   | Wowetta, Annai District |
| Persaud Moses   | Wowetta, Annai District |
| Rebecca Xavier  | Wowetta, Annai District |
| Edverio Edwards | Wowetta, Annai District |

| Annai Central    | Contact Information           |
|------------------|-------------------------------|
| Cassius Williams | Annai Central, Annai District |
| Pauline Brown    | Annai Central, Annai District |
| Gulene Salty     | Annai Central, Annai District |
| Ronald Perreira  | Annai Central, Annai District |
| Keith Sandy      | Annai Central, Annai District |
| Ivor Daniels     | Annai Central, Annai District |

| Yakarinta       | Contact Information |
|-----------------|---------------------|
| Greg Benjamin   | Yakranta Village    |
| Lydia Augustine | Yakranta Village    |
| Glenn Alexander | Yakranta Village    |
| Glenny King     | Yakranta Village    |
| Esau Joel       | Yakranta Village    |

| Kwatamang        | Contact Information |
|------------------|---------------------|
| Norma Cambridge  | Kwatamang, Annai    |
| Richard Daniels  | Kwatamang, Annai    |
| Ricky Moses      | Kwatamang, Annai    |
| Oren Sandy       | Kwatamang, Annai    |
| Amanda Cambridge | Kwatamang, Annai    |
| Andrew Jackson   | Kwatamang, Annai    |

| Crashwater      | Contact Information |
|-----------------|---------------------|
| Torres Dargan   | Crashwater Village  |
| Veralene Henry  | Crashwater Village  |
| Beverly Henry   | Crashwater Village  |
| Alpheaus Thomas | Crashwater Village  |
| Leo Dargan      | Crashwater Village  |
| Travy Benjamin  | Crashwater Village  |

| Rupertee        | Contact Information           |
|-----------------|-------------------------------|
| Kenrick Elliot  | Senior Councillor, Rupertee,  |
| Hendrick Samuel | Councillor, Rupertee          |
| Kellon Gomes    | Rupertee, Annai District      |
| Benita Roberts  | MRU, Rupertee, Annai District |
| Dawn Daniels    | Rupertee, Annai District      |
| Edris Scipio    | Rupertee, Annai District      |
| Debora Vanlong  | Rupertee, Annai District      |
| Gloria Duarte   | Rupertee, Annai District      |

| Apoteri          | Contact Information |
|------------------|---------------------|
| Baldwin Thomas   | Apoteri Village     |
| Campbell James   | Apoteri Village     |
| Nesha Scipio     | Apoteri Village     |
| Gail Ann Shavier | Apoteri Village     |
| Benedict Joseph  | Apoteri Village     |
| Gerald Milton    | Apoteri Village     |
| Edgill Bowen     | Apoteri Village     |

| Fairview          | Contact Information |
|-------------------|---------------------|
| Bradford Allicock | Fairview Village    |
| Ranica Andries    | Fairview Village    |
| Shirley Andries   | Fairview Village    |
| Albertino         | Fairview Village    |
| Rita McBirney     | Fairview Village    |
| Claire Bernard    | Fairview Village    |

| Massara        | Contact Information |
|----------------|---------------------|
| Eddie Bremner  | Massara Village     |
| Lio Gregory    | Massara Village     |
| Renita Gregory | Massara Village     |
| Rodrigues John | Massara Village     |
| Joycelyn John  | Massara Village     |

| Rewa            | Contact Information |
|-----------------|---------------------|
| Shun Alvin      | Rewa Village        |
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| Urselva Honorio | Rewa Village        |
| Alick Honorio   | Rewa Village        |
| Anthony Alvin   | Rewa Village        |
| Romeo Alvin     | Rewa Village        |

| Surama          | Contact Information |
|-----------------|---------------------|
| Jackie Allicock | Surama Village      |
| Sydney Allicock | Surama Village      |
| Milner Captain  | Surama Village      |