

## Appendix 3.8 Refined key informant interview checklist for Phnom Penh

### SUMMARY OF INTERVIEW WITH KEY INFORMANTS

Information	Beung Cheng Ek	Beung Kok	Prek Phnov
Site Characteristics	<ul style="list-style-type: none"> <li>- Located south-west of Phnom Penh</li> <li>- Peri-urban large swap</li> <li>- Connected indirectly to Basac River, a lower Cambodian Mekong, by two small streams</li> <li>- Serve as sewage setting pond</li> <li>- In rainy season, sewage is mixed with flood water</li> <li>- About 2/3 of the sewage volume is discharged here by two pumping stations</li> <li>- Besides being a fishing lot, the swamp is the biggest aquatic vegetable farm, especially water spinach.</li> </ul>	<ul style="list-style-type: none"> <li>- Intra-periurban lake</li> <li>- Located in north part of the city</li> <li>- The catchments is heavily settled by human settlement around the lake</li> <li>- There are many households around the shore</li> <li>- There is no sewage pumping station. The water flows by gravity outside the city. Nearby, there is a pumping station but to pump run-off from the west part of the lake, which is not a real sewage wetland.</li> </ul>	<ul style="list-style-type: none"> <li>- Located 15 km north of Phnom Penh, a long to national road No.5</li> <li>- Peri-urban fish farming</li> <li>- Fish ponds are constructed around the shore of a swamp</li> <li>- Mainly Pangasius and hybrid walking catfish</li> <li>- Total pond area is about 20 ha</li> </ul>
Age of production system	<ul style="list-style-type: none"> <li>- Since the past 60 years</li> <li>- After Khmer rouge regime, 1979, people have resumed water spinach farm</li> </ul>	<ul style="list-style-type: none"> <li>- Historically, the lake was created by the land filling for train station during Japanese colonization</li> <li>- Year?</li> <li>- There is no aquatic vegetable plantation due to the water has no heavy nutrient load from sewage</li> <li>- But fish culture exists and is very popular. On the shore, people own land lot sized about 30 m x 70 m.</li> <li>- Pen is the common culture facility.</li> </ul>	
Years of involvement	Farmers have involved with this farming about 14 years	Fish culture has been started since 1987 (Mr. Srun Tao). He has restaurant under the pen.	
Surface area	Depending on farmers: <ul style="list-style-type: none"> <li>- Small area: 30 m x 100 m</li> <li>- Medium area: 100 m x 200 m</li> <li>- Big: &gt;</li> </ul>	Land: 60 m x 70 m	
Source of water	<ul style="list-style-type: none"> <li>- Flood of Mekong and mountain provinces</li> <li>- Surface run-off</li> <li>- Phnom Penh city sewage</li> </ul>	<ul style="list-style-type: none"> <li>- Surface run-off</li> <li>- Sewage from lake catchments</li> </ul>	
Source of nutrients	As above	As above	
Fish kills or human health problems	<ul style="list-style-type: none"> <li>- Fish kills when heavy load of nutrients in sewage</li> <li>- Due to insecticides</li> <li>- Farmers usually have skin infection</li> </ul>	Fish kills usually occur in early rainy season	

### Appendix 3.8 Refined key informant interview checklist for Phnom Penh

Number of household			
Occupation	Besides growing water spinach, people have additional occupations such as fishing, small family business such as food seller or non-permanent workers.	Restaurant has just started nearly one year	
Gender	<ul style="list-style-type: none"> <li>- One or two older women in each family involve in farming with two to five younger daughters</li> <li>- In each household, usually one man involve with two to four boys</li> <li>- These depend on household size</li> </ul>	<ul style="list-style-type: none"> <li>- 2 young boys</li> <li>- 5 young ladies</li> </ul>	
Ways of contribution to livelihoods	Water spinach is the main source of family income generation	Fish culture is important as restaurant business. Fish food is kitchen waste.	
Group benefit			
Access and ownership	<ul style="list-style-type: none"> <li>- Some have their own land but many farmers rent land or water surface on yearly basis</li> <li>- 50-100 US\$ per year depends on size</li> </ul>	People bought their land.	
Main use of water			
Main products	Water spinach	<ul style="list-style-type: none"> <li>- Food for restaurant</li> <li>- Fish</li> </ul>	
Consumption	<ul style="list-style-type: none"> <li>- Supply to Phnom Penh markets</li> <li>- Pig growing</li> <li>- Family consumption</li> </ul>	Fish for sell	
Marketing problems	<ul style="list-style-type: none"> <li>- No problems</li> </ul>	<ul style="list-style-type: none"> <li>- No problem in marketing</li> <li>- Buyers from fish deficit provinces</li> <li>- The number fish farmers is increasing</li> </ul>	
Production trend and affecting factors	<ul style="list-style-type: none"> <li>- Growing</li> <li>- Production seasonality</li> </ul>	<ul style="list-style-type: none"> <li>- There will be more restaurants which is good for him</li> <li>-</li> </ul>	
Future development	<ul style="list-style-type: none"> <li>- Roomer of future development</li> <li>- But long time to see</li> <li>- If there is and it affecting, people need compensation.</li> </ul>		