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A.2.1 Managing humid and semi-humid ecosystems**

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Introduction

The objective of this deliverable is to provide an overview on the status of data collection within workpackage 4 (Sampling design, field and laboratory work). Biological data (benthic invertebrates) and a large set of parameters for site description including physico-chemical measurements from reference sites, as well as impacted sites of selected stream types, distributed across the HKH region were taken (for details see Deliverable 5 and 7).

With this deliverable, Milestone 3 is obtained, which marks the achievement of representative data and laboratory results. The data set collected serves as basis to develop the assessment methodologies and the according software in workpackages 5 and 6.

Steps undertaken to obtain the representative data level

Selection of stream types

Based on **Ecoregions** (WWF 200) several “stream types” were selected across the HKH region for sampling (see Deliverable 4). Sites within ecoregions were characterized by their altitude, upstream catchment size and pre-dominant geological type.

The database comprised two groups of sets of sites: Core stream type, and other stream types. Sites within the Core stream type were all at "midland to upland" (1000 m - 2000 m) and had "small to medium" catchment areas (10 - 1000 km²). Other stream sites were all classed as “lowland to highland” (45 m - 2500 m) and had "large to very large" catchment areas (1000 - 2500 km²). Table 1 shows the stream types selected in the different countries.

Table 1: Site selection based on ecoregions in the HKH area. (BD: Bangladesh, BH: Bhutan, NP: Nepal, IN: India, PK: Pakistan)

Ecoregions	BD	BH	NP	IN	PK
1. Eastern Himalayan Broadleaf Forests (IM0401)		Inner Valleys and Passes in Western & Central Bhutan	Midhills and Mahabharata		

Ecoregions	BD	BH	NP	IN	PK
2. Himalayan Subtropical Pine Forests (IM0301)		Southern mountains and gorges	Middle Mountains and Valleys	Almorah Hills / Kumaon	Muree Hills / Islamabad
3. Western Himalayan Broadleaf Forests (IM0403)					Indus basin
4. Lower Gangetic Plains Moist Deciduous Forests (IM0120)	Padama Meghna basin		Lower Bagmati basin (Rautahat)		
5. Upper Gangetic Plains Moist deciduous Forests (IM0166)				Haridwar and east	

Site selection for sampling

As pre-requisite for site selection, the consortium defined criteria for selecting reference sites (see Deliverable 5) and for sites affected by environmental stressors (see Deliverable 7). The set of impaired sites represents a degradation gradient in response to a pre-selected, dominant environmental stressor / pressure such as organic load and water abstraction. A set of at least 17 sites were sampled per stream type in each country: 4 high quality (reference), 4 good, 3 moderate, 3 poor and 3 bad. The final site selection had to be revised for most stream types, as sites of all targeted ecological status were not always available and accessible.

Table 2: Numbers of sites selected by partners in different ecoregions.

Ecoregions	BD	BH	NP	IN	PK
1. Eastern Himalayan Broadleaf Forests (IM0401)		21	17		
2. Himalayan Subtropical Pine Forests (IM0301)		17	17	17	25
3. Western Himalayan Broadleaf Forests (IM0403)					17
4. Lower Gangetic Plains Moist Deciduous Forests (IM0120)	34		17		
5. Upper Gangetic Plains Moist deciduous Forests (IM0166)				16	

Sampling, sorting and identification

All sites were sampled in **two seasons**: post-monsoon (November /December 2005) and pre-monsoon (March / April 2006). In total **390 samples** were taken (for details see Annexes 1-5). **Multi-habitat sampling** (MHS) approach in line with common international standards was carried out, in order to receive comparable data from all stream types and from sites representing different stages of degradation.

Additional to macroinvertebrate sampling for each site, a comprehensive **site protocol** was filled, recording basic geographic and geological information, hydrological and morphological attributes, and hydromorphological and organic impairments at the catchment, reach and site scale.

It comprises six main sections:

1. master data
2. catchment characteristics
3. hydrology characteristics
4. reach characteristics
5. morphological, chemical and physical characteristics of the sampling site
6. morphological and organic impacts at the sampling site.

Altogether, **95** sensoric, physical-chemical and hydro-morphological **parameters** were recorded. These data are crucial for the development of the ecological assessment system as they will be correlated with the aquatic macroinvertebrate community of the sampling site to detect reactions of the fauna to stressor gradients.

Laboratory sorting of the samples started directly after the first sampling period in all countries. A manual for sorting (Assess-HKH Sorting Manual, HKH_SortingManual.pdf) was prepared by the consortium and applied by partners to sort the biological samples. All animals were taken out of the sample and conserved for the further treatment in alcohol.

During the sorting process, **pre-identification** was done to the best taxonomic level possible (mostly order or family). Many benthic macroinvertebrate species, mainly aquatic larvae, in the rivers of the partner countries have not been described yet. Therefore, one challenge of the project so far was, to identify the collected animals to best (lowest)

identification level (family, genus, or species). Thus, for further taxonomic treatment samples from the first period were sent to Vienna. At BOKU and Vienna Natural History Museum taxonomic specialists identified the animals and used the material for **generation of taxonomic keys**. An operational taxalist was also produced based on the identification so far and based on the findings of Taks 6.1 (**Taxa Catalogue**). External top taxonomists helped to identify and verify animals (Dr. Ernst Bauernfeind, Dr. Dirk Brandis, Dr. Berthold Janecek, Dr. Manfred Jäch, Dr. Albrecht Komarek, Dr. Hans Malicky, Dr. Ignac Sivec, Dr. Hebert Zettel).

Finally, a **taxonomy workshop** in Kathmandu was held (22/08 - 07/09/2006), where Asian and European scientist identified the animals together under the guidance of taxonomic experts and resource persons (Dr. Karel Brabec, Berthold Fliedl, Dr. Wolfram Graf, DI Anne Hartmann, DI Thomas Huber, MSc Thomas Korte, Dr. Tomas Soldan, MSc Hasko Neseemann).

Data storage

It was agreed amongst partners, that a common database is needed to collect and analyse all information and to ensure by this means a high level of quality and comparability of the data. Therefore data input was done using **HKHdip (data input program)**. This software is based on similar programs used in previous EU projects (AQEM, STAR). Existing components of the software were adapted and improved according to the needs of ASSESS-HKH. All parameters of the site protocol can be recorded in the electronic version too. For input of taxa data, the operational HKH taxalist mentioned above was integrated as background database. This also serves as means of quality control, as only valid taxa – verified and agreed by top taxonomists – can be recorded for the sampling sites.

At the present most animals have been identified and all available data has been entered in the HKHdip software. The databases were sent by partners to BOKU, where currently quality control is undertaken and country specific data bases are merged into one common database for further evaluation.

Summary

In all Asian partner countries, sampling was done in two different seasons (pre- and post monsoon). MHS samples were taken at each site and an elaborate site protocol was filled for each site in both seasons.

In Bangladesh a total of 68 samples was taken from 34 sites from a single Ecoregion (IMO120) divided by tidal and non-tidal influence.

In Bhutan 34 samples were taken from 17 sites in the Core ecoregion (IM0301), and other 41 samples from 21 sites in Eastern Himalayan Broadleaf Forest (IM0401).

In India, sites from two different ecoregions were selected for sampling: (Upper) Gangetic Plains (IM0166), where 32 samples have been taken from 16 sites. In Core ecoregion (IM0301), 17 sites were selected and 34 samples taken. 4 samples were taken in an additional, neighbouring stream type.

In Nepal, 17 sites each were selected from three different ecoregions (IM0301, IM0401, IM0120). Thus a total of 102 samples was taken.

In Pakistan, 41 sites were considered from two different ecoregions, twenty-four of which were from core ecoregion (IM0301) and seventeen from Western Himalayan Broadleaf Forest (IM0403). In total 82 samples were taken.

Overall, 390 MHS-samples have been taken in the five Asian countries. Annex 1 to 5 give an overview per country on ecoregions, river names, site names, dates of sampling, sample codes and pre-classification status per site. All macro-invertebrates have been identified to the best level possible. Specific taxonomic keys for selected taxa groups of the HKH region were generated for this purpose. A software for data storage (HKHdip) was established, where all taxa data and site characteristic data were entered by partners. Country specific databases are merged and serve as baseline for development of assessment methods and software in workpackages 5 and 6.

Annex 1: Overview of samples from Bangladesh

river name	terrestrial ecoregion name and code (WWF)	site name	date	sample code	federal state (province, district, nearest village)	river system/sub-system (river flowing into the sea)	Preclassification
Balu	IMO120	Bangladesh - Balu - Ichapura	06.12.2005	B01BA014	Dhaka	Meghna	
Balu	IMO120	Bangladesh - Balu - Ichapura	04.04.2006	B01BA021	Dhaka	Meghna	IV
Turag	IMO120	Bangladesh - Turag - Ashulia	06.12.2005	B01TU014	Dhaka	Meghna	III
Turag	IMO120	Bangladesh - Turag - Ashulia	04.04.2006	B01TU021	Dhaka	Meghna	IV
Old Brahmaputra	IMO120	Bangladesh - Old Brahmaputra - Olipura downstream	09.12.2005	B01TJ014	Narayanganj	Meghna	III
Old Brahmaputra	IMO120	Bangladesh - Old Brahmaputra - Olipura downstream	04.04.2006	B01TJ021	Narayanganj	Meghna	III
Sutia	IMO120	Bangladesh - Sutia - Kaoraid	25.12.2005	B01SA014	Gazipur	Meghna	
Sutia	IMO120	Bangladesh - Sutia - Kaoraid	04.04.2006	B01SA021	Gazipur	Meghna	II/III
Khiru Up	IMO120	Bangladesh - Khiru Up - Kaoraid	25.12.2005	B01KA014	Gazipur	Meghna	
Khiru Up	IMO120	Bangladesh - Khiru Up - Kaoraid	04.04.2006	B01KA021	Gazipur	Meghna	IV
Khiru Dw	IMO120	Bangladesh - Khiru Dw - Dhamsur	25.12.2005	B01KB014	Gazipur	Meghna	
Khiru Dw	IMO120	Bangladesh - Khiru Dw - Dhamsur	07.04.2006	B01KB021	Gazipur	Meghna	III
Rangsha	IMO120	Bangladesh - Rangsha - Tarakanda	26.12.2005	B01RA014	Mymenshingh	Meghna	
Rangsha	IMO120	Bangladesh - Rangsha - Tarakanda	10.04.2006	B01RA021	Mymenshingh	Meghna	II/III

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river name	terrestrial ecoregion name and code (WWF)	site name	date	sample code	federal state (province, district, nearest village)	river system/sub-system (river flowing into the sea)	Preclassification
Khuria Dw	IMO120	Bangladesh - Khuria Dw - Amuakanda	26.12.2005	B01KX014	Mymensingh	Meghna	
Khuria Dw	IMO120	Bangladesh - Khuria Dw - Amuakanda	10.04.2006	B01KX021	Mymensingh	Meghna	III
Khuria Up	IMO120	Bangladesh - Khuria Up - Dew gram	26.12.2005	B01KY014	Mymensingh		
Khuria Up	IMO120	Bangladesh - Khuria Up - Dew gram	10.04.2006	B01KY021	Mymensingh		III
Boraghat Dw	IMO120	Bangladesh - Boraghat Dw - Haluaghat Dn	26.12.2005	B01BX014	Mymensingh		
Boraghat Dw	IMO120	Bangladesh - Boraghat Dw - Haluaghat Dn	09.04.2006	B01BX021	Mymensingh		III (V)
Tarai	IMO120	Bangladesh - Tarai - Munshir Hat	26.12.2005	B01TA014	Mymensingh	Meghna	
Tarai	IMO120	Bangladesh - Tarai - Munshir Hat	09.04.2006	B01TA021	Mymensingh	Meghna	III (III/IV)
Gangina	IMO120	Bangladesh - Gangina - Gangina Par	26.12.2005	B01GA014	Mymensingh	Meghna	III
Gangina	IMO120	Bangladesh - Gangina - Gangina Par	09.04.2006	B01GA021	Mymensingh	Meghna	III
Melang	IMO120	Bangladesh - Melang - Mazracora	27.12.2005	B01ME014	Mymensingh	Meghna	III
Melang	IMO120	Bangladesh - Melang - Mazracora	09.04.2006	B01ME021	Mymensingh	Meghna	III
Boraghat Up	IMO120	Bangladesh - Boraghat Up - Butiapara Up.	27.12.2005	B01BZ014	Mymensingh	Meghna	III
Boraghat Up	IMO120	Bangladesh - Boraghat Up - Butiapara Up.	09.04.2006	B01BZ021	Mymensingh	Meghna	III
Jhenai Dw	IMO120	Bangladesh - Jhenai Dw - Charpolisha	28.12.2005	B01JA014	Jamalpur	Jamuna	II

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Jhenai Dw	IMO120	Bangladesh - Jhenai Dw - Charpolisha	11.04.2006	B01JA021	Jamalpur	Jamuna	III
Jhenai Up	IMO120	Bangladesh - Jhenai Up - Chandra	28.12.2005	B01JB014	Jamalpur	Jamuna	I
Jhenai Up	IMO120	Bangladesh - Jhenai Up - Chandra	11.04.2006	B01JB021	Jamalpur	Jamuna	III (II/III)
Chellyakhali	IMO120	Bangladesh - Chellyakhali - Shonnyashi Vila	28.12.2005	B01CH014	Sherpur	Jamuna	I/II
Chellyakhali	IMO120	Bangladesh - Chellyakhali - Shonnyashi Vila	08.04.2006	B01CH021	Sherpur	Jamuna	III
Bhogai	IMO120	Bangladesh - Bhogai - Noyabil Hatipagar	28.12.2005	B01BO014	Sherpur	Jamuna	I (III)
Bhogai	IMO120	Bangladesh - Bhogai - Noyabil Hatipagar	08.04.2006	B01BO021	Sherpur	Jamuna	II/III
Bhogai Rb	IMO120	Bangladesh - Bhogai Rb - Jamirakanda	28.12.2005	B01BP014	Sherpur	Jamuna	III
Bhogai Rb	IMO120	Bangladesh - Bhogai Rb - Jamirakanda	08.04.2006	B01BP021	Sherpur	Jamuna	III
Bhogai Ra	IMO120	Bangladesh - Bhogai Ra - Jamirakanda	28.12.2005	B01BQ014	Sherpur	Jamuna	III
Bhogai Ra	IMO120	Bangladesh - Bhogai Ra - Jamirakanda	08.04.2006	B01BQ021	Sherpur	Jamuna	III
Bhaitkamari	IMO120	Bangladesh - Bhaitkamari - Tallukpara	28.12.2005	B01BH014	Sherpur	Jamuna	I (II/III)
Bhaitkamari	IMO120	Bangladesh - Bhaitkamari - Tallukpara	08.04.2006	B01BH021	Sherpur	Jamuna	III
Katakhali	IMO120	Bangladesh - Katakhali - Garaikuti	29.12.2005	B01KC014	Mymenshingh	Meghna	III
Katakhali	IMO120	Bangladesh - Katakhali - Garaikuti	10.04.2006	B01KC021	Mymenshingh	Meghna	III
Banar	IMO120	Bangladesh - Banar - Harinatala	29.12.2005	B01BR014	Mymenshingh	Meghna	III

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river name	terrestrial ecoregion name and code (WWF)	site name	date	sample code	federal state (province, district, nearest village)	river system/sub-system (river flowing into the sea)	Preclassification
Banar	IMO120	Bangladesh - Banar - Harinatala	10.04.2006	B01BR021	Mymenshingh	Meghna	III
Bongshai Dw	IMO120	Bangladesh - Bongshai Dw - Modhupur	29.12.2005	B01YB014	Tangail	Brahmaputra	III
Bongshai Dw	IMO120	Bangladesh - Bongshai Dw - Modhupur	11.04.2006	B01YB021	Tangail	Brahmaputra	III
Bongshai Up	IMO120	Bangladesh - Bongshai Up - Modhupur	29.12.2005	B01XB014	Tangail	Brahmaputra	III
Bongshai Up	IMO120	Bangladesh - Bongshai Up - Modhupur	11.04.2006	B01XB021	Tangail	Brahmaputra	III
Fotikjani	IMO120	Bangladesh - Fotikjani - Hamidpur	29.12.2005	B01FO014	Tangail	Brahmaputra	III
Fotikjani	IMO120	Bangladesh - Fotikjani - Hamidpur	11.04.2006	B01FO021	Tangail	Brahmaputra	III
Lohojang	IMO120	Bangladesh - Lohojang - Gunotia	02.01.2006	B01LO014	Tangail	Brahmaputra	III
Lohojang	IMO120	Bangladesh - Lohojang - Gunotia	12.04.2006	B01LO021	Tangail	Brahmaputra	III
Pungli	IMO120	Bangladesh - Pungli - Pungli village	02.01.2006	B01PU014	Tangail	Turag	III
Pungli	IMO120	Bangladesh - Pungli - Pungli village	12.04.2006	B01PU021	Tangail	Turag	III
Lohojang Dw	IMO120	Bangladesh - Lohojang Dw - Korotia	02.01.2006	B01LP014	Tangail	Brahmaputra	IV
Lohojang Dw	IMO120	Bangladesh - Lohojang Dw - Korotia	12.04.2006	B01LP021	Tangail	Brahmaputra	IV
Bongshi branch	IMO120	Bangladesh - Bongshi branch - Pushto Kanzi	02.01.2006	B01BB014	Tangail	Brahmaputra	III
Bongshi branch	IMO120	Bangladesh - Bongshi branch - Pushto Kanzi	12.04.2006	B01BB021	Tangail	Brahmaputra	III
Bongshi	IMO120	Bangladesh - Bongshi - Shutrapur	02.01.2006	B01BS014	Tangail	Brahmaputra	III/IV

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river name	terrestrial ecoregion name and code (WWF)	site name	date	sample code	federal state (province, district, nearest village)	river system/sub-system (river flowing into the sea)	Preclassification
Bongshi	IMO120	Bangladesh - Bongshi - Shutrapur	12.04.2006	B01BS021	Tangail	Brahmaputra	III
Old Brahmaputra Br.	IMO120	Bangladesh - Old Brahmaputra Br. - Olipura Upstream	15.01.2006	B01TV014	Narayanganj	Meghna	III
Old Brahmaputra Br.	IMO120	Bangladesh - Old Brahmaputra Br. - Olipura Upstream	05.04.2006	B01TV021	Narayanganj	Meghna	III
Tributary to Old Brahmaputra	IMO120	Bangladesh - Tributary to Old Brahmaputra - Olipura	15.01.2006	B01TC014	Narayanganj	Meghana	IV
Tributary to Old Brahmaputra	IMO120	Bangladesh - Tributary to Old Brahmaputra - Olipura	05.04.2006	B01TC021	Narayanganj	Meghana	III
Buriganga	IMO120	Bangladesh - Buriganga - Postogola	15.01.2006	B01BG014	Narayanganj	Meghna	V
Buriganga	IMO120	Bangladesh - Buriganga - Postogola	05.04.2006	B01BG021	Narayanganj	Meghna	V

Annex 2: Overview of samples from Bhutan

river name	terrestrial ecoregion name and code (WWF)	site name	date	sample code	federal state (province, district, nearest village)	river system/sub-system (river flowing into the sea)	Preclassification
Balakha Chhu	IMO401	Bhutan - Balakha Chhu - Drugyel	06.12.2005	H03AB013	Paro, Drugyel	Wang chhu	I-II
Balakha Chhu	IMO401	Bhutan - Balakha Chhu - Drugyel	28.04.2006	H03AB011	Paro, Drugyel	Wang chhu	II (I-II)
Chamkhar Chhu	IMO 401	Bhutan - Chamkhar Chhu - Near Kurje Lhakhang	22.04.2006	H03BC011	Bumthang	Manas chhu	I
Chanana Chhu	IMO401	Bhutan - Chanana Chhu - Near Haa	07.12.2005	H03HC013	Haa	Wang Chhu	I
Chanana Chhu	IMO401	Bhutan - Chanana Chhu - Near Haa	30.04.2006	H03HC011	Haa	Wang Chhu	I
Changgangkha Stream	IMO401	Bhutan - Changgangkha Stream - Near Lhakhang, Thimphu	14.12.2005	H03TZ013	Near Lhakhang, Thimphu	Wang Chhu	IV (IV-V)
Changgangkha Stream	IMO401	Bhutan - Changgangkha Stream - Near Lhakhang, Thimphu	09.05.2006	H03TZ011	Near Lhakhang, Thimphu	Wang Chhu	IV (IV-V)
Cheri Chhu	IMO401	Bhutan - Cheri Chhu - Cheri Lhakhang	23.11.2005	H03TC013	Thimphu	Wang Chhu	I
Cheri Chhu	IMO401	Bhutan - Cheri Chhu - Cheri Lhakhang	16.04.2006	H03TC011	Thimphu	Wang Chhu	I
Chubachhu Stream	IMO401	Bhutan - Chubachhu Stream - Thimphu	15.12.2005	H03TM013	Thimphu, Chubachu	Wang Chhu	III
Chubachhu Stream	IMO401	Bhutan - Chubachhu Stream - Thimphu	09.05.2006	H03TM011	Thimphu, Chubachu	Wang Chhu	III

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river name	terrestrial ecoregion name and code (WWF)	site name	date	sample code	federal state (province, district, nearest village)	river system/sub-system (river flowing into the sea)	Preclassification
Drey Chhu	IMO401	Bhutan - Drey Chhu - Dechenchholing	13.12.2005	H03TD013	Dechenchholing, Thimphu	Wang Chhu	III (III-IV)
Drey Chhu	IMO401	Bhutan - Drey Chhu - Dechenchholing	17.04.2006	H03TD011	Dechenchholing, Thimphu	Wang Chhu	III-IV
Drey Chhu	IMO401	Bhutan - Drey Chhu - Dechenchholing, upstream section	13.12.2005	H03TD023	Thimphu	Wang chhu	II
Drey Chhu	IMO401	Bhutan - Drey Chhu - Dechenchholing, upstream section	16.04.2006	H03TD021	Thimphu	Wang chhu	II-III
Gapjana Chhu	IMO401	Bhutan - Gapjana Chhu - Bondey	06.12.2005	H03AG013	Paro	Wang Chhu	II-III
Gapjana Chhu	IMO401	Bhutan - Gapjana Chhu - Bondey	29.04.2006	H03AG011	Paro	Wang Chhu	III
Gapjana Chhu	IMO401	Bhutan - Gapjana Chhu - Bondey	29.04.2006	H03AG021	Paro	Wang Chhu	III
Isuna Chhu	IMO401	Bhutan - Isuna Chhu - Isuna village	06.12.2005	H03AI013	Paro	Wang Chhu	II
Isuna Chhu	IMO401	Bhutan - Isuna Chhu - Isuna village	28.04.2006	H03AI011	Paro	Wang Chhu	I-II
Lamchela Chhu	IMO401	Bhutan - Lamchela Chhu - Chendepji, downstream section	23.04.2006	H03WL011	Trongsa, Chendepji	Manas Chhu	I (I-II)
Lamchela Chhu	IMO401	Bhutan - Lamchela Chhu - Chendepji, upstream section	23.04.2006	H03WL031	Trongsa, Chendepji	Manas Chhu	I
Lhukha Chhu	IMO401	Bhutan - Lhukha Chhu - Haa	08.12.2005	H03HL013	Haa	Wang Chhu	III-IV
Lhukha Chhu	IMO401	Bhutan - Lhukha Chhu - Haa	30.04.2006	H03HL011	Haa	Wang Chhu	III-IV
Nagu Chhu	IMO401	Bhutan - Nagu Chhu - Near Haa	08.12.2005	H03AN013	Haa	Wang Chhu	I

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river name	terrestrial ecoregion name and code (WWF)	site name	date	sample code	federal state (province, district, nearest village)	river system/sub-system (river flowing into the sea)	Preclassification
Nagu Chhu	IMO401	Bhutan - Nagu Chhu - Near Haa	01.05.2006	H03AN011	Haa	Wang Chhu	I-II
Ola Rongchhu	IMO401	Bhutan - Ola Rongchhu - Semtokha, Thimphu	15.12.2005	H03TO013	Semtokha, Thimphu	Wang Chhu	II
Ola Rongchhu	IMO401	Bhutan - Ola Rongchhu - Semtokha, Thimphu	01.05.2006	H03TO011	Semtokha, Thimphu	Wang Chhu	II
Paro Chhu	IMO401	Bhutan - Paro Chhu - Bondey, downstream section (dam)	07.12.2005	H03AP013	Paro, Bondey	Wang Chhu	II
Paro Chhu	IMO401	Bhutan - Paro Chhu - Bondey, downstream section (dam)	28.04.2006	H03AP011	Paro, Bondey	Wang Chhu	II (I-II)
Paro Chhu	IMO401	Bhutan - Paro Chhu - Bondey, upstream section	07.12.2005	H03AP023	Paro, Bondey	Wang Chhu	II
Paro Chhu	IMO401	Bhutan - Paro Chhu - Damming site, upstream section	29.04.2006	H03AP041	Paro, Daming site	Wang Chhu	II (I-II)
Paro Chhu	IMO401	Bhutan - Paro Chhu - Satsham chorten	28.04.2006	H03AP031	Paro	Wang Chhu	I (I-II)
Swimming Pool Complex Channel	IMO401	Bhutan - Swimming Pool Complex Channel - Thimphu, near swimming pool	14.12.2005	H03TS013	Thimphu, Near swimming pool	Wang Chhu	V (IV-V)
Swimming Pool Complex Channel	IMO401	Bhutan - Swimming Pool Complex Channel - Thimphu, near swimming pool	09.05.2006	H03TS011	Thimphu, Near swimming pool	Wang Chhu	V (IV-V)
Taba Chhu	IMO401	Bhutan - Taba Chhu - Taba	14.12.2005	H03TT013	Taba, Thimphu	Wang Chhu	II

Deliverable 9: Sampling and laboratory results entered into database

river name	terrestrial ecoregion name and code (WWF)	site name	date	sample code	federal state (province, district, nearest village)	river system/sub-system (river flowing into the sea)	Preclassification
Taba Chhu	IMO401	Bhutan - Taba Chhu - Taba	17.04.2006	H03TT011	Taba, Thimphu	Wang Chhu	I
Thimphu Channel	IMO401	Bhutan - Thimphu Channel - Thimphu Channel, downtown Thimphu	14.12.2005	H03TS023	Thimphu	Wang Chhu	V
Thimphu Channel	IMO401	Bhutan - Thimphu Channel - Thimphu Channel, downtown Thimphu	09.05.2006	H03TS021	Thimphu	Wang Chhu	V
Thimphu River	IMO401	Bhutan - Thimphu River - Babesa, downstream Thimphu	03.05.2006	H03TB021	Babesa, Thimphu	Wang Chhu	II-III
Thimphu River	IMO401	Bhutan - Thimphu River - Lanjobridge, upstream Thimphu	03.05.2006	H03TB011	Thimphu	Wang Chhu	II
Bhurkhola	IMO301	Bhutan - Bhurkhola - Bhur	27.11.2005	H02SB013	Gelephu	Manas Chhu	I
Bhurkhola	IMO301	Bhutan - Bhurkhola - Bhur	20.04.2006	H02SB011	Gelephu	Manas Chhu	I
Bhurkhola, tributary	IMO301	Bhutan - Bhurkhola, tributary - Bhur	27.11.2005	H02BT013	Gelephu	Manas Chhu	III-IV
Dhara Chhu	IMO301	Bhutan - Dhara Chhu - Tsirang	27.11.2005	H02TD013	Tsirang	Sunkosh Chhu	I
Dhara Chhu	IMO301	Bhutan - Dhara Chhu - Tsirang	18.04.2006	H02TD011	Tsirang	Sunkosh Chhu	I
Dhoti Chhu	IMO301	Bhutan - Dhoti Chhu - Phuntsholing town, downstream section	02.12.2005	H02PD013	Chhukha, P/ling	Toorsa Chhu	IV
Dhoti Chhu	IMO301	Bhutan - Dhoti Chhu - Phuntsholing town, downstream section	11.05.2006	H02PD011	Chhukha, P/ling	Toorsa Chhu	IV

Deliverable 9: Sampling and laboratory results entered into database

river name	terrestrial ecoregion name and code (WWF)	site name	date	sample code	federal state (province, district, nearest village)	river system/sub-system (river flowing into the sea)	Preclassification
Dhoti Chhu	IMO301	Bhutan - Dhoti Chhu - Phuntsholing town, upstream section	02.12.2005	H02PD023	Chhukha, Phuntsholing	Toorsa Chhu	II-III
Dhoti Chhu	IMO301	Bhutan - Dhoti Chhu - Phuntsholing town, upstream section	11.05.2006	H02PD021	Chhukha, Phuntsholing	Toorsa Chhu	II-III
Dungkhar Rongchhu	IMO301	Bhutan - Dungkhar Rongchhu - Near Punakha	28.11.2005	H02PM013	Punakha	Sunkosh Chhu	I-II
Dungkhar Rongchhu	IMO301	Bhutan - Dungkhar Rongchhu - Near Punakha	24.04.2006	H02PM011	Punakha	Sunkosh Chhu	I (I-II)
Gedu Stream	IMO301	Bhutan - Gedu Stream - Chhukha	03.12.2005	H02CG013	Chhukha	Toorsa Chhu	III(III-IV)
Gedu Stream	IMO301	Bhutan - Gedu Stream - Chhukha	10.05.2006	H02CG011	Chhukha	Toorsa Chhu	III(III-IV)
Jichulum Rongchhu	IMO301	Bhutan - Jichulum Rongchhu - Kabesa	24.11.2005	H02PJ013	Punakha	Sankosh	I (I-II)
Jichulum Rongchhu	IMO301	Bhutan - Jichulum Rongchhu - Kabesa	25.04.2006	H02PJ011	Punakha	Sankosh	I (I-II)
Kamikhola	IMO301	Bhutan - Kamikhola - Sarpang, near check post	26.11.2005	H02SK013	Sarpang	Manas Chhu	II
Kamikhola	IMO301	Bhutan - Kamikhola - Sarpang, near check post	19.04.2006	H02SK011	Sarpang	Manas Chhu	I-II-III
Mo Chhu	IMO301	Bhutan - Mo Chhu - Chuzadongkha, upstream section	28.11.2005	H02PC013	Punakha	Sankosh Chhu	I

Deliverable 9: Sampling and laboratory results entered into database

river name	terrestrial ecoregion name and code (WWF)	site name	date	sample code	federal state (province, district, nearest village)	river system/sub-system (river flowing into the sea)	Preclassification
Mo Chhu	IMO301	Bhutan - Mo Chhu - Chuzadongkha, upstream section	25.04.2006	H02PC011	Punakha	Sankosh Chhu	I
Mo Chhu	IMO301	Bhutan - Mo Chhu - Punakha, near bridge, downstream section	25.04.2006	H02PC021	Punakha	Sankosh Chhu	IV
Nahi Chhu	IMO301	Bhutan - Nahi Chhu - Hesothongkha	29.11.2005	H02WA013	Wangdiphodrang	Sankosh Chhu	II-III
Nahi Chhu	IMO301	Bhutan - Nahi Chhu - Hesothongkha	24.04.2006	H02WA011	Wangdiphodrang	Sankosh Chhu	III
Ney Chhu	IMO301	Bhutan - Ney Chhu - Ney Chhu Zam	25.11.2005	H02WM013	Wangdi	Sankosh Chhu	I-II
Ney Chhu	IMO301	Bhutan - Ney Chhu - Ney Chhu Zam	18.04.2006	H02WM011	Wangdi	Sankosh Chhu	II
Ngakhu Chhu	IMO301	Bhutan - Ngakhu Chhu - Near Punakha	28.11.2005	H02AN013	Punakha	Sankosh Chhu	III
Ngakhu Chhu	IMO301	Bhutan - Ngakhu Chhu - Near Punakha	24.04.2006	H02AN011	Punakha	Sankosh Chhu	III
Nyara Chhu	IMO301	Bhutan - Nyara Chhu - Near Uma	25.11.2005	H02WN013	Tsirang	Sankosh Chhu	II (I-II)
Nyara Chhu	IMO301	Bhutan - Nyara Chhu - Near Uma	18.04.2006	H02WN011	Tsirang	Sankosh Chhu	I (I-II)
Pasakha Chhu	IMO301	Bhutan - Pasakha Chhu - Phuntsholing	03.12.2005	H02PP013	Phuntsholing, Chhukha	Toorsa Chhu	IV

Deliverable 9: Sampling and laboratory results entered into database

river name	terrestrial ecoregion name and code (WWF)	site name	date	sample code	federal state (province, district, nearest village)	river system/sub-system (river flowing into the sea)	Preclassification
Pasakha Chhu	IMO301	Bhutan - Pasakha Chhu - Phuntsholing	11.05.2006	H02PP011	Phuntsholing, Chhukha	Toorsa Chhu	IV
Toebrongchhu	IMO301	Bhutan - Toebrongchhu - Lobesa, Thimphu	29.11.2005	H02LT013	Thimphu	Sankosh Chhu	III
Toebrongchhu	IMO301	Bhutan - Toebrongchhu - Lobesa, Thimphu	24.04.2006	H02LT011	Thimphu	Sankosh Chhu	II
Tsirang Rongchhu	IMO301	Bhutan - Tsirang Rongchhu - Tsirang	25.11.2005	H02TT013	Tsirang	Manas Chhu	I (I-II)
Tsirang Rongchhu	IMO301	Bhutan - Tsirang Rongchhu - Tsirang	19.04.2006	H02TT011	Tsirang	Manas Chhu	I

Annex 3: Overview of samples from India

river name	terrestrial ecoregion name and code (WWF)	site name	date	sample code	federal state (province, district, nearest village)	river system/subsystem (river flowing into the sea)	preclassification
Almora drain	IM0301	India - Almora drain - u/s confluence with Kosi river	19.11.2005	I02AD013	Uttaranchal	Ganga	V
Almora drain	IM0301	India - Almora drain - u/s confluence with Kosi river	16.04.2006	I02AD051	Uttaranchal	Ganga	
Bhauri gad	IM0301	India - Bhauri gad - u/s confluence with Nandakini river	24.11.2005	I02BH013	Uttaranchal	Ganga	I
Bhauri gad	IM0301	India - Bhauri gad - u/s confluence with Nandakini river	06.04.2006	I02BH121	Uttaranchal	Ganga	II
Gandolia gad	IM0301	India - Gandolia gad - 250 m u/s Gandolia bridge, near New tehri	26.11.2005	I02GA013	Uttaranchal	Ganga	I
Gandolia gad	IM0301	India - Gandolia gad - 250 m u/s Gandolia bridge, near New tehri	07.04.2006	I02GA091	Uttaranchal	Ganga	II
Gomti	IM0301	India - Gomti - u/s Gomti bridge at Bageshwar	21.11.2005	I02GO013	Uttaranchal	Ganga	II
Gomti	IM0301	India - Gomti - u/s Gomti bridge at Bageshwar	17.04.2006	I02GO041	Uttaranchal	Ganga	
Kalsa	IM0301	India - Kalsa - u/s Chanphi	16.11.2005	I02KA013	Uttaranchal	Ganga	III
Kalsa	IM0301	India - Kalsa - u/s Chanphi	01.04.2006	I02KA041	Uttaranchal	Ganga	III
Kosi	IM0301	India - Kosi - 300 m d/s confluence with Almora drain	19.11.2005	I02KO023	Uttaranchal	Ganga	III

Deliverable 9: Sampling and laboratory results entered into database

river name	terrestrial ecoregion name and code (WWF)	site name	date	sample code	federal state (province, district, nearest village)	river system/subsystem (river flowing into the sea)	preclassification
Kosi	IM0301	India - Kosi - 300 m d/s confluence with Almora drain	16.04.2006	I02KO211	Uttaranchal	Ganga	
Kosi	IM0301	India - Kosi - 300 m u/s weir at Dadymkhola village (Almora)	20.11.2005	I02KO043	Uttaranchal	Ganga	II
Kosi	IM0301	India - Kosi - 300 m u/s weir at Dadymkhola village (Almora)	04.04.2006	I02KO121	Uttaranchal	Ganga	I
Kosi	IM0301	India - Kosi - u/s confluence with Almora Drain	19.11.2005	I02KO013	Uttaranchal	Ganga	V
Kosi	IM0301	India - Kosi - u/s confluence with Almora Drain	16.04.2006	I02KO201	Uttaranchal	Ganga	
Kosi	IM0301	India - Kosi - u/s weir at Dadymkhola village (Almora)	20.11.2005	I02KO033	Uttaranchal	Ganga	V
Kosi	IM0301	India - Kosi - u/s weir at Dadymkhola village (Almora)	04.04.2006	I02KO151	Uttaranchal	Ganga	I
Nailchami gad	IM0301	India - Nailchami gad - u/s confluence with Bhilangana at Ghansyali	25.11.2005	I02NA013	Uttaranchal	Ganga	IV
Nailchami gad	IM0301	India - Nailchami gad - u/s confluence with Bhilangana at Ghansyali	06.04.2006	I02NA051	Uttaranchal	Ganga	V
Ninglad drain	IM0301	India - Ninglad drain - at Bhowali u/s cremation site	17.11.2005	I02NI013	Uttaranchal	Ganga	III

Deliverable 9: Sampling and laboratory results entered into database

river name	terrestrial ecoregion name and code (WWF)	site name	date	sample code	federal state (province, district, nearest village)	river system/subsystem (river flowing into the sea)	preclassification
Ninglad drain	IM0301	India - Ninglad drain - at Bhowali u/s cremation site	02.04.2006	I02NI151	Uttaranchal	Ganga	III
Ninglad drain	IM0301	India - Ninglad drain - at Kainchi, 8 km d/s Bhowali	17.11.2005	I02NI023	Uttaranchal	Ganga	II
Ninglad drain	IM0301	India - Ninglad drain - at Kainchi, 8 km d/s Bhowali	02.04.2006	I02NI111	Uttaranchal	Ganga	I
Pindar	IM0301	India - Pindar - Near Deval	23.11.2005	I02PI013	Uttaranchal	Ganga	I
Pindar	IM0301	India - Pindar - Near Deval	05.04.2006	I02PI081	Uttaranchal	Ganga	II
Ram gad	IM0301	India - Ram gad - at Kherana u/s Confluence Kosi river	18.11.2005	I02RA013	Uttaranchal	Ganga	II
Ram gad	IM0301	India - Ram gad - at Kherana u/s Confluence Kosi river	03.04.2006	I02RA071	Uttaranchal	Ganga	II
Saryu	IM0301	India - Saryu - d/s Bageshwar drain	21.11.2005	I02SA023	Uttaranchal	Ganga	V
Saryu	IM0301	India - Saryu - d/s Bageshwar drain	17.04.2006	I02SA141	Uttaranchal	Ganga	
Saryu	IM0301	India - Saryu - at Bageshwar d/s confluence Gomti river	22.11.2005	I02SA033	Uttaranchal	Ganga	III
Saryu	IM0301	India - Saryu - at Bageshwar d/s confluence Gomti river	17.04.2006	I02SA121	Uttaranchal	Ganga	

Deliverable 9: Sampling and laboratory results entered into database

river name	terrestrial ecoregion name and code (WWF)	site name	date	sample code	federal state (province, district, nearest village)	river system/subsystem (river flowing into the sea)	preclassification
Saryu	IM0301	India - Saryu - Saryu river u/s Bharadi (Bageshwar)	21.11.2005	I02SA013	Uttaranchal	Ganga	III
Saryu	IM0301	India - Saryu - Saryu river u/s Bharadi (Bageshwar)	18.04.2006	I02SA161	Uttaranchal	Ganga	
Sunn gad	IM0115	India - Sunn gad - near Tharali, 200 m u/s road bridge	23.11.2005	I02SU013	Uttaranchal	Ganga	I
Sunn gad	IM0115	India - Sunn gad - near Tharali, 200 m u/s road bridge	05.04.2006	I02SU111	Uttaranchal	Ganga	I
Dhela	IM0121	India - Dhela - u/s bridge at Laxmipur, 10km west of Kashipur	15.11.2005	I05DE013	Uttaranchal	Ganga	V
Dhela	IM0121	India - Dhela - u/s bridge at Laxmipur, 10km west of Kashipur	19.04.2006	I05DE021	Uttaranchal	Ganga	
Asan	IM0166	India - Asan - d/s Selaqui, Dehradun	06.12.2005	I05AS013	Uttaranchal	Ganga	III
Asan	IM0166	India - Asan - d/s Selaqui, Dehradun	09.04.2006	I05AS041	Uttaranchal	Ganga	II
Behta	IM0166	India - Behta - 500 m u/s road bridge near Pownta Sahib (HP)	07.12.2005	I05BE013	Himachal Pradesh	Ganga	III
Behta	IM0166	India - Behta - 500 m u/s road bridge near Pownta Sahib (HP)	28.04.2006	I05BE041	Himachal Pradesh	Ganga	
Devpura	IM0166	India - Devpura - 500 m u/s lachiwala tourist place	27.04.2006	I05DP011	Uttaranchal	Ganga	

Deliverable 9: Sampling and laboratory results entered into database

river name	terrestrial ecoregion name and code (WWF)	site name	date	sample code	federal state (province, district, nearest village)	river system/subsystem (river flowing into the sea)	preclassification
Kho	IM0166	India - Kho - at Nagina, u/s Toll bridge	01.12.2005	I05KH013	Uttar Pradesh	Ganga	V
Kho	IM0166	India - Kho - at Nagina, u/s Toll bridge	20.04.2006	I05KH081	Uttar Pradesh	Ganga	
Kho	IM0166	India - Kho - at Sherkot, 400 m u/s barrage	02.12.2005	I05KH023	Uttaranchal	Ganga	V
Kho	IM0166	India - Kho - at Sherkot, 400 m u/s barrage	20.04.2006	I05KH061	Uttaranchal	Ganga	
Kho	IM0166	India - Kho - at Sherkot, just u/s Barrage	02.12.2005	I05KH033	Uttaranchal	Ganga	V
Kho	IM0166	India - Kho - at Sherkot, just u/s Barrage	20.04.2006	I05KH071	Uttaranchal	Ganga	
Kosi plains	IM0166	India - Kosi plains - 500 M U/S Barrage	19.04.2006	I05KO031	Uttaranchal	Ganga	
Kosi plains	IM0166	India - Kosi plains - u/s confluence pathri river, near Partikalar post	03.12.2005	I05KO013	Uttaranchal	Ganga	V
Kosi plains	IM0166	India - Kosi plains - u/s confluence pathri river, near Partikalar post	15.04.2006	I05KO021	Uttaranchal	Ganga	
Malin	IM0166	India - Malin - at Nazibabad	11.12.2005	I05MA013	Uttaranchal	Ganga	V
Malin	IM0166	India - Malin - at Nazibabad	20.04.2006	I05MA021	Uttaranchal	Ganga	

Deliverable 9: Sampling and laboratory results entered into database

river name	terrestrial ecoregion name and code (WWF)	site name	date	sample code	federal state (province, district, nearest village)	river system/subsystem (river flowing into the sea)	preclassification
Pathri	IM0166	India - Pathri - u/s confluence with Kosi river	03.12.2005	I05PA013	Uttaranchal	Ganga	V
Pathri	IM0166	India - Pathri - u/s confluence with Kosi river	15.04.2006	I05PA021	Uttaranchal	Ganga	
Ramganga	IM0166	India - Ramganga - d/s weir at Kalagarh	02.12.2005	I05RA023	Uttar Pradesh	Ganga	V
Ramganga	Im0166	India - Ramganga - u/s weir at Kalagarh	02.12.2005	I05RA013	Uttar Pradesh	Ganga	V
Rayi	IM0166	India - Rayi - Near Lachiwala dehradun	29.04.2006	I05RY011	Uttaranchal	Ganga	
Song	IM0166	India - Song - 500 m u/s bridge at Raiwala	05.12.2005	I05SO013	Uttaranchal	Ganga	II
Song	IM0166	India - Song - 500 m u/s bridge at Raiwala	09.04.2006	I05SO061	Uttaranchal	Ganga	II
Song	IM0166	India - Song - u/s bridge, near Doiwala (Dehradun)	06.12.2005	I05SO023	Uttaranchal	Ganga	
Sukma	IM0166	India - Sukma - u/s Bridge at Raiwala, u/s confl with Ganga	04.12.2005	I05SU013	Uttaranchal	Ganga	I
Sukma	IM0166	India - Sukma - u/s Bridge at Raiwala, u/s confl with Ganga	08.04.2006	I05SU101	Uttaranchal	Ganga	IV
Teenpani	IM0166	India - Teenpani - u/s Teenpani tourist place at Chidderwala	05.12.2005	I05TE013	Uttaranchal	Ganga	I

Deliverable 9: Sampling and laboratory results entered into database

river name	terrestrial ecoregion name and code (WWF)	site name	date	sample code	federal state (province, district, nearest village)	river system/subsystem (river flowing into the sea)	preclassification
Teenpani	IM0166	India - Teenpani - u/s Teenpani tourist place at Chidderwala	08.04.2006	I05TE061	Uttaranchal	Ganga	I
Tumariya	IM0166	India - Tumariya - Tumariya river west of Kashipur	03.12.2005	I05TU013	Uttaranchal	Ganga	III
Tumariya	IM0166	India - Tumariya - Tumariya river west of Kashipur	19.04.2006	I05TU061	Uttaranchal	Ganga	
Yamuna	IM0166	India - Yamuna - u/s kalsi near Dakpathar, u/s conf Tons river	07.12.2005	I05YA013	Uttaranchal	Ganga	II
Yamuna	IM0166	India - Yamuna - u/s kalsi near Dakpathar, u/s conf Tons river	28.04.2006	I05YA021	Uttaranchal	Ganga	

Annex 4: Overview of samples from Nepal

river name	terrestrial ecoregion name and code (WWF)	site name	date	sample code	federal state (province, district, nearest village)	river system/sub-system (river flowing into the sea)	Preclassification
Chandeshwori Khola	IM0401	Chandeshwori forest	21.08.2005	N03CH013	Kavrepalanchowk	Saptakosi	II
Chandeshwori Khola	IM0401	Chandeshwori forest	27.04.2006	N03CH011	Kavrepalanchowk	Saptakosi	I
Chandeshwori Khola	IM0401	Chandeshwori temple	10.11.2005	N03CH023	Kavrepalanchowk	Saptakosi	III
Chandeshwori Khola	IM0401	Chandeshwori temple	27.04.2006	N03CH021	Kavrepalanchowk	Saptakosi	III
Ghatte Khola	IM0401	Dam at Sukaura (downstream)	26.12.2005	N03GH033	Makwanpur	Saptagandaki	III
Ghatte Khola	IM0401	Dam at Sukaura (downstream)	15.06.2006	N03GH031	Makwanpur	Saptagandaki	III
Ghatte Khola	IM0401	Dam at Sukaura (upstream)	26.12.2005	N03GH023	Makwanpur	Saptagandaki	II
Ghatte Khola	IM0401	Dam at Sukaura (upstream)	15.06.2005	N03GH021	Makwanpur	Saptagandaki	III
Ghatte Khola	IM0401	Sukaura (near bridge)	26.11.2005	N03GH013	Makwanpur	Saptagandaki	II
Ghatte Khola	IM0401	Sukaura (near bridge)	15.06.2006	N03GH011	Makwanpur	Saptagandaki	II
Mahadev Khola	IM0401	Kharipati	24.11.2005	N03MA033	Bhaktapur	Bagmati	II
Mahadev Khola	IM0401	Kharipati	02.05.2006	N03MA031	Bhaktapur	Bagmati	II
Mahadev Khola	IM0401	Telkot (near bridge)	24.11.2005	N03MA023	Bhaktapur	Bagmati	II
Mahadev Khola	IM0401	Telkot (near bridge)	14.06.2006	N03MA021	Bhaktapur	Bagmati	II
Mahadev Khola	IM401	Telkot (upstream)	24.11.2005	N03MA013	Bhaktapur	Bagmati	I

Deliverable 9: Sampling and laboratory results entered into database

river name	terrestrial ecoregion name and code (WWF)	site name	date	sample code	federal state (province, district, nearest village)	river system/sub-system (river flowing into the sea)	Preclassification
Mahadev Khola	IM401	Telkot (upstream)	02.05.2006	N03MA011	Bhaktapur	Bagmati	I
Punyamata Khola	IM0401	Rohini Bhanjyang (Jaljale)	28.11.2005	N03PU013	Kavrepalanchowk	Saptakosi	I
Punyamata Khola	IM0401	Rohini Bhanjyang (Jaljale)	13.06.2006	N03PU011	Kavrepalanchowk	Saptakosi	I
Punyamata Khola	IM0401	Shreekhandapur	12.11.2005	N03PU043	Kavrepalanchowk	Saptakosi	V
Punyamata Khola	IM0401	Shreekhandapur	26.04.2006	N03PU041	Kavrepalanchowk	Saptakosi	V
Punyamata Khola	IM0401	Subba gaon	12.05.2005	N03PU053	Kavrepalanchowk	Saptakosi	V
Punyamata Khola	IM0401	Subba gaon	28.04.2006	N03PU051	Kavrepalanchowk	Saptakosi	V
Punayamata Khola	IM0401	Ugreshwor Mahadev	11.05.2005	N03PU033	Kavrepalanchowk	Saptakosi	IV
Punayamata Khola	IM0401	Ugreshwor Mahadev	01.05.2006	N03PU031	Kavrepalanchowk	Saptakosi	V
Punyamata Khola	IM0401	Nala	23.11.2005	N03PU023	Kavrepalanchowk	Saptakosi	III
Punyamata Khola	IM0401	Nala	13.06.2006	N03PU021	Kavrepalanchowk	Saptakosi	III
Roshi Khola	IM401	Bhandari gaon	14.11.2005	N03RO033	Kavrepalanchowk	Saptakosi	III
Roshi Khola	IM401	Bhandari gaon	16.06.2006	N03RO031	Kavrepalanchowk	Saptakosi	III
Roshi Khola	IM401	Malpi (upstream Panauti)	15.11.2005	N03RO023	Kavrepalanchowk	Saptakosi	II
Roshi Khola	IM401	Malpi (upstream Panauti)	16.06.2006	N03RO021	Kavrepalanchowk	Saptakosi	II
Roshi Khola	IM401	Malpi, Harukha Khola, right tributary	15.11.2005	N03RO013	Kavrepalanchowk	Saptakosi	I

Deliverable 9: Sampling and laboratory results entered into database

river name	terrestrial ecoregion name and code (WWF)	site name	date	sample code	federal state (province, district, nearest village)	river system/sub-system (river flowing into the sea)	Preclassification
Roshi Khola	IM401	Malpi, Harukha Khola, right tributary	28.04.2006	N03RO011	Kavrepalanchowk	Saptakosi	I
Roshi Khola	IM0401	Panauti (downstream)	14.11.2005	N03RO043	Kavrepalanchowk	Saptakosi	IV
Roshi Khola	IM0401	Panauti (downstream)	16.06.2006	N03RO041	Kavrepalanchowk	Saptakosi	IV
Begnas Canal	IM0301	Begnas lake outlet	18.12.2005	N02BE013	Kaski	Saptagandaki	IV
Begnas Canal	IM0301	Begnas lake outlet	28.06.2006	N02BE011	Kaski	Saptagandaki	V
Bijaypur Khola	IM0301	Bijaypur (bridge)	25.12.2005	N02BI013	Kaski	Saptagandaki	IV
Bijaypur Khola	IM0301	Bijaypur (bridge)	27.05.2006	N02BI011	Kaski	Saptagandaki	IV
Dhoti Khola	IM0301	Nayapul	18.12.2005	N02DH013	Kaski	Saptagandaki	I
Dhoti Khola	IM0301	Nayapul	01.06.2006	N02DH011	Kaski	Saptagandaki	I
Khudi Khola	IM0301	Downstream	12.12.2005	N02KH033	Kaski	Saptagandaki	IV
Khudi Khola	IM0301	Downstream	28.05.2006	N02KH031	Kaski	Saptagandaki	III
Khudi Khola	IM0301	Midstream	15.12.2005	N02KH023	Kaski	Saptagandaki	III
Khudi Khola	IM0301	Midstream	28.05.2006	N02KH021	Kaski	Saptagandaki	III
Khudi Khola	IM0301	Upstream	15.12.2005	N02KH013	Kaski	Saptagandaki	III
Khudi Khola	IM0301	Upstream	28.05.2006	N02KH011	Kaski	Saptagandaki	IV

Deliverable 9: Sampling and laboratory results entered into database

river name	terrestrial ecoregion name and code (WWF)	site name	date	sample code	federal state (province, district, nearest village)	river system/sub-system (river flowing into the sea)	Preclassification
Modi Khola	IM0301	Dam site (downstream)	18.12.2005	N02MO013	Kaski	Saptagandaki	II
Modi Khola	IM0301	Dam site (downstream)	01.06.2006	N02MO011	Kaski	Saptagandaki	II
Orlan Khola	IM0301	Downstream	30.11.2005	N02OR023	Kaski	Saptagandaki	II
Orlan Khola	IM0301	Downstream	29.05.2006	N02OR021	Kaski	Saptagandaki	II
Orlan Khola	IM0301	Upstream	30.11.2005	N02OR013	Kaski	Saptagandaki	I
Orlan Khola	IM0301	Upstream	29.05.2006	N02OR011	Kaski	Saptagandaki	I
Parbati Khola	IM0301	Upstream	18.12.2005	N02PA013	Parbat	Saptagandaki	I
Parbati Khola	IM0301	Upstream	02.06.2006	N02PA011	Parbat	Saptagandaki	I
Parbati Khola	IM0301	Downstream	18.12.2005	N02PA023	Parbat	Saptagandaki	II
Parbati Khola	IM0301	Downstream	02.06.2006	N02PA021	Parbat	Saptagandaki	III
Phirke Khola	IM0301	Downstream	18.12.2006	N02PH033	Parbat	Saptagandaki	V
Phirke Khola	IM0301	Downstream	30.05.2006	N02PH031	Parbat	Saptagandaki	III
Phirke Khola	IM0301	Midstream	18.12.2005	N02PH023	Parbat	Saptagandaki	V
Phirke Khola	IM0301	Midstream	30.05.2006	N02PH021	Parbat	Saptagandaki	III
Phirke Khola	IM0301	Upstream	18.12.2005	N02PH013	Parbat	Saptagandaki	IV
Phirke Khola	IM0301	Upstream	30.05.2006	N02PH011	Parbat	Saptagandaki	III

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river name	terrestrial ecoregion name and code (WWF)	site name	date	sample code	federal state (province, district, nearest village)	river system/sub-system (river flowing into the sea)	Preclassification
Phusre Khola	IM0301	Before confluence with Bhunga Khola	15.12.2005	N02PU013	Parbat	Saptagandaki	II
Phusre Khola	IM0301	Before confluence with Bhunga Khola	27.05.2006	N02PU011	Parbat	Saptagandaki	III
Yamdi Khola	IM0301	Bhimphedi (downstream)	16.12.2005	N02YA023	Kaski	Saptagandaki	II
Yamdi Khola	IM0301	Bhimphedi (downstream)	27.05.2006	N02YA021	Kaski	Saptagandaki	II
Yamdi Khola	IM0301	Upstream	16.12.2006	N02YA013	Kaski	Saptagandaki	I
Yamdi Khola	IM0301	Upstream	27.05.2006	N02YA011	Kaski	Saptagandaki	I
Bagmati Canal	IM0120	Malahi (downstream of barage)	29.12.2005	N01BG023	Rautahat	Bagmati	IV
Bagmati Canal	IM0120	Malahi (downstream of barage)	08.05.2006	N01BG021	Rautahat	Bagmati	III
Bagmati Canal	IM0120	Malahi (upstream of barage)	03.12.2005	N01BG013	Rautahat	Bagmati	II
Bagmati Canal	IM0120	Malahi (upstream of barage)	08.05.2006	N01BG011	Rautahat	Bagmati	IV
Barahwa river	IM0120	Baraha chowk (temple)	05.11.2005	N01BA033	Rautahat	Bagmati	III
Barahwa river	IM0120	Baraha chowk (temple)	08.05.2006	N01BA031	Rautahat	Bagmati	V
Barahwa river	IM0120	Gadhawa	05.11.2005	N01BA013	Rautahat	Bagmati	II
Barahwa river	IM0120	Gadhawa	09.05.2006	N01BA011	Rautahat	Bagmati	II
Barahwa river	IM0120	Gaur	05.11.2005	N01BA023	Rautahat	Bagmati	II
Barahwa river	IM0120	Gaur	09.05.2006	N01BA021	Rautahat	Bagmati	II

Deliverable 9: Sampling and laboratory results entered into database

river name	terrestrial ecoregion name and code (WWF)	site name	date	sample code	federal state (province, district, nearest village)	river system/sub-system (river flowing into the sea)	Preclassification
Chandni	IM0120	Garuda	01.01.2006	N01CH013	Rautahat	Bagmati	II
Chandni	IM0120	Garuda	09.05.2006	N01CH011	Rautahat	Bagmati	II
Chandni	IM0120	Gedahiguthi	01.01.2006	N01CH023	Rautahat	Bagmati	V
Chandni	IM0120	Gedahiguthi	07.05.2006	N01CH021	Rautahat	Bagmati	V
Chandni	IM0120	Sugar mill tributary	29.12.2005	N01TR013	Rautahat	Bagmati	V
Chandni	IM0120	Sugar mill tributary	07.05.2006	N01TR011	Rautahat	Bagmati	V
Dodi (Chamargoda)	IM0120	Bhaloheya	05.11.2005	N01DO013	Rautahat	Bagmati	I
Dodi (Chamargoda)	IM0120	Bhaloheya	09.05.2006	N01DO011	Rautahat	Bagmati	II
Jhajh	IM0120	Basantpur-6	31.12.2005	N01JH033	Rautahat	Bagmati	III
Jhajh	IM0120	Basantpur-6	08.05.2006	N01JH031	Rautahat	Bagmati	III
Jhajh	IM0120	Canal at Sarautha	05.11.2005	N01JH013	Rautahat	Bagmati	IV
Jhajh	IM0120	Canal at Sarautha	10.05.2006	N01JH011	Rautahat	Bagmati	IV
Jhajh	IM0120	Sarautha (near bridge)	31.12.2005	N01JH023	Rautahat	Bagmati	IV
Jhajh	IM0120	Sarautha (near bridge)	08.05.2006	N01JH021	Rautahat	Bagmati	III
Kamdi	IM0120	Hajmaniya	05.10.2005	N01KA013	Rautahat	Bagmati	II
Kamdi	IM0120	Hajmaniya	09.05.2006	N01KA011	Rautahat	Bagmati	II
Lal Bakaiya	IM0120	Banjaraghat	29.12.2005	N01LB013	Rautahat	Bagmati	III

Deliverable 9: Sampling and laboratory results entered into database

river name	terrestrial ecoregion name and code (WWF)	site name	date	sample code	federal state (province, district, nearest village)	river system/sub-system (river flowing into the sea)	Preclassification
Lal Bakaiya	IM0120	Banjaraghat	06.05.2006	N01LB011	Rautahat	Bagmati	III
Lamaha	IM0120	Jayanagar	01.01.2006	N01LA023	Rautahat	Bagmati	V
Lamaha	IM0120	Jayanagar	07.05.2006	N01LA021	Rautahat	Bagmati	II
Shivpur	IM0120	Shivnagar	05.11.2005	N01LA013	Rautahat	Bagmati	I
Shivpur	IM0120	Shivnagar	07.05.2006	N01LA011	Rautahat	Bagmati	II
Soti (Bhakuwa) Nadi	IM0120	Jaan	30.12.2005	N01SO013	Rautahat	Bagmati	II
Soti (Bhakuwa) Nadi	IM0120	Jaan	06.05.2006	N01SO011	Rautahat	Bagmati	II

Annex 5: Overview of samples from Pakistan

river name	terrestrial ecoregion name and code (WWF)	site name	date	sample code	federal state (province, district, nearest village)	river system/subsystem (river flowing into the sea)	preclassification
Barandu	IMO301	Pakistan - Barandu - Bar Gokand	22.12.2005	P02BR113	NWFP, Buner	Indus River System	II
Barandu	IMO301	Pakistan - Barandu - Bar Gokand	21.04.2006	P02BR111	NWFP, Buner	Indus River System	II
Barandu	IMO301	Pakistan - Barandu - Barimal (Upstream)	22.12.2005	P02BR143	NWFP, Buner	Indus River System	III
Barandu	IMO301	Pakistan - Barandu - Barimal (Upstream)	21.04.2006	P02BR141	NWFP, Buner	Indus River System	II
Barandu	IMO301	Pakistan - Barandu - Barimal (Down Stream)	22.12.2005	P02BR133	NWFP, Buner	Indus River System	I-II
Barandu	IMO301	Pakistan - Barandu - Barimal (Down Stream)	21.04.2006	P02BR131	NWFP, Buner	Indus River System	I-II
Barandu	IMO301	Pakistan - Barandu - Budal	21.12.2005	P02BR083	NWFP, Buneer	Indus River System	II
Barandu	IMO301	Pakistan - Barandu - Budal	20.04.2006	P02BR081	NWFP, Buneer	Indus River System	II
Barandu	IMO301	Pakistan - Barandu - Chalandrai	21.12.2005	P02BR093	NWFP, Buner	Indus River System	I
Barandu	IMO301	Pakistan - Barandu - Chalandrai	20.04.2006	P02BR091	NWFP, Buner	Indus River System	I
Barandu	IMO301	Pakistan - Barandu - Charai	18.12.2005	P02BR013	NWFP, Buner	Indus River System	III
Barandu	IMO301	Pakistan - Barandu - Charai	19.04.2006	P02BR011	NWFP, Buner	Indus River System	II
Barandu	IMO301	Pakistan - Barandu - Dagar Fort	20.12.2005	P02BR063	NWFP, Buner	Indus River System	II-III

Deliverable 9: Sampling and laboratory results entered into database

river name	terrestrial ecoregion name and code (WWF)	site name	date	sample code	federal state (province, district, nearest village)	river system/subsystem (river flowing into the sea)	preclassification
Barandu	IMO301	Pakistan - Barandu - Dagar Fort	23.04.2006	P02BR061	NWFP, Buner	Indus River System	III
Barandu	IMO301	Pakistan - Barandu - Dager	20.12.2005	P02BR073	NWFP, Buner	Indus River System	III-IV
Barandu	IMO301	Pakistan - Barandu - Dager	12.04.2006	P02BR071	NWFP, Buner	Indus River System	III
Barandu	IMO301	Pakistan - Barandu - Dewana Baba	20.12.2005	P02BR053	NWFP, Buner	Indus river System	IV
Barandu	IMO301	Pakistan - Barandu - Dewana Baba	22.04.2006	P02BR051	NWFP, Buner	Indus river System	III
Barandu	IMO301	Pakistan - Barandu - Elai	23.12.2005	P02BR163	NWFP, Buner	Indus River System	IV
Barandu	IMO301	Pakistan - Barandu - Elai	19.04.2006	P02BR161	NWFP, Buner	Indus River System	IV
Barandu	IMO301	Pakistan - Barandu - Ghazi Banda	21.12.2005	P02BR103	NWFP, Buner	Indus River System	II
Barandu	IMO301	Pakistan - Barandu - Ghazi Banda	20.04.2006	P02BR101	NWFP, Buner	Indus River System	II
Barandu	IMO301	Pakistan - Barandu - Klil Kandao	22.12.2005	P02BR123	NWFP, Buner	Indus River System	I
Barandu	IMO301	Pakistan - Barandu - Klil Kandao	21.04.2006	P02BR121	NWFP, Buner	Indus River System	I
Barandu	IMO301	Pakistan - Barandu - Kuliari	20.12.2005	P02BR043	NWFP, Buner	Indus River System	III
Barandu	IMO301	Pakistan - Barandu - Kuliari	22.04.2006	P02BR041	NWFP, Buner	Indus River System	IV
Barandu	IMO301	Pakistan - Barandu - Kuzchinar	19.12.2005	P02BR033	NWFP, Buner	Indus River System	III
Barandu	IMO301	Pakistan - Barandu - Kuzchinar	23.04.2006	P02BR031	NWFP, Buner	Indus River System	IV
Barandu	IMO301	Pakistan - Barandu - Qadar Nagar	23.12.2005	P02BR153	NWFP, Buner	Indus River System	I

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river name	terrestrial ecoregion name and code (WWF)	site name	date	sample code	federal state (province, district, nearest village)	river system/subsystem (river flowing into the sea)	preclassification
Barandu	IMO301	Pakistan - Barandu - Qadar Nagar	22.04.2006	P02BR151	NWFP, Buner	Indus River System	I-II
Barandu	IMO301	Pakistan - Barandu - Surkhaw	19.12.2005	P02BR023	NWFP	Indus River System	II
Barandu	IMO301	Pakistan - Barandu - Surkhaw	23.04.2006	P02BR021	NWFP	Indus River System	III
Soan	IMO301	Pakistan - Soan - Jandala	27.12.2005	P02SO203	Punjab, Islamabad-Pindi	Indus River System	III
Soan	IMO301	Pakistan - Soan - Gulehrra Gali	29.12.2005	P02SO293	Punjab, Islamabad-Pindi	Indus River System	II
Soan	IMO301	Pakistan - Soan - Gulehrra Gali	15.05.2006	P02SO291	Punjab, Islamabad-Pindi	Indus River System	II
Soan	IMO301	Pakistan - Soan - Kassa	29.12.2005	P02SO323	Punjab, Islamabad-Pindi	Indus River System	II
Soan	IMO301	Pakistan - Soan - Kassa	15.05.2006	P02SO321	Punjab, Islamabad-Pindi	Indus River System	I-II
Soan	IMO301	Pakistan - Soan - Kuri	28.12.2005	P02SO243	Punjab, Islamabad-Pindi	Indus River System	III
Soan	IMO301	Pakistan - Soan - Kuri	13.05.2006	P02SO241	Punjab, Islamabad-Pindi	Indus River System	III
Soan	IMO301	Pakistan - Soan - Nala Lai	27.12.2005	P02SO183	Punjab, Islamabad-Pindi	Indus River System	V
Soan	IMO301	Pakistan - Soan - Nala Lai	09.05.2006	P02SO181	Punjab, Islamabad-Pindi	Indus River System	V
Soan	IMO301	Pakistan - Soan - Sambli	28.12.2005	P02SO263	Punjab, Islamabad/Rawalpindi	Indus River System	II
Soan	IMO301	Pakistan - Soan - Sambli	13.05.2006	P02SO261	Punjab, Islamabad/Rawalpindi	Indus River System	II
Soan	IMO301	Pakistan - Soan - Shahdara	28.12.2005	P02SO213	Punjab, Islamabad-Pindi	Indus River System	I
Soan	IMO301	Pakistan - Soan - Shahdara	13.05.2006	P02SO211	Punjab, Islamabad-Pindi	Indus River System	II
Soan	IMO301	Pakistan - Soan - Soan Bridge	27.12.2005	P02SO173	Punjab, Islamabad-Pindi	Indus River System	V

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river name	terrestrial ecoregion name and code (WWF)	site name	date	sample code	federal state (province, district, nearest village)	river system/subsystem (river flowing into the sea)	preclassification
Soan	IMO301	Pakistan - Soan - Soan Bridge	09.05.2006	P02SO171	Punjab, Islamabad-Pindi	Indus River System	V
Soan	IMO301	Pakistan - Soan - Soan Camp	27.12.2005	P02SO193	Punjab, Islamabad-Pindi	Indus River System	IV
Soan	IMO301	Pakistan - Soan - Soan Camp	14.05.2006	P02SO191	Punjab, Islamabad-Pindi	Indus River System	IV
Jehlum	IMO403	Pakistan - Jehlum - Chakoti	06.01.2006	P04JL193	Azad Jamu & Kashmir	Indus River System	III
Jehlum	IMO403	Pakistan - Jehlum - Chakoti	03.05.2006	P04JL191	Azad Jamu & Kashmir	Indus River System	I-II
Jehlum	IMO403	Pakistan - Jehlum - Fakarmal	05.01.2006	P04JL153	Azad Jamu & Kashmir	Indus River System	III
Jehlum	IMO403	Pakistan - Jehlum - Fakarmal	04.05.2006	P04JL151	Azad Jamu & Kashmir	Indus River System	I-II
Jehlum	IMO403	Pakistan - Jehlum - Hattian Bala	06.01.2006	P04JL173	Azad Jamu & Kashmir	Indus River System	III
Jehlum	IMO403	Pakistan - Jehlum - Hattian Bala	04.05.2006	P04JL171	Azad Jamu & Kashmir	Indus River System	II-III
Jehlum	IMO403	Pakistan - Jehlum - Langar Pura	07.01.2006	P04JL243	Azad Jamu & Kashmir	Indus River System	II
Jehlum	IMO403	Pakistan - Jehlum - Langar Pura	02.05.2006	P04JL241	Azad Jamu & Kashmir	Indus River System	III
Jehlum	IMO403	Pakistan - Jehlum - Manak Pian	07.01.2006	P04JL223	Azad Jamu & Kashmir	Indus River System	I-II
Jehlum	IMO403	Pakistan - Jehlum - Manak Pian	03.05.2006	P04JL221	Azad Jamu & Kashmir	Indus River System	II
Jehlum	IMO403	Pakistan - Jehlum - Sairi	06.01.2006	P04JL163	Azad Jamu & Kashmir	Indus River System	III
Jehlum	IMO403	Pakistan - Jehlum - Sairi	04.06.2006	P04JL161	Azad Jamu & Kashmir	Indus River System	I-II
Jehlum	IMO403	Pakistan - Jehlum - Sarband	06.01.2006	P04JL183	Azad Jamu & Kashmir	Indus River System	I-II
Jehlum	IMO403	Pakistan - Jehlum - Sarband	03.05.2006	P04JL181	Azad Jamu & Kashmir	Indus River System	II

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river name	terrestrial ecoregion name and code (WWF)	site name	date	sample code	federal state (province, district, nearest village)	river system/subsystem (river flowing into the sea)	preclassification
Kunhar	IMO403	Pakistan - Kunhar - Dharial	04.01.2006	P04KN133	NWFP, Mansehra	Indus River System	II
Kunhar	IMO403	Pakistan - Kunhar - Dharial	29.04.2006	P04KN131	NWFP, Mansehra	Indus River System	II-III
Kunhar	IMO403	Pakistan - Kunhar - GhnoI	05.01.2006	P04KN143	NWFP, Mansehra Distt.	Indus River System	I
Kunhar	IMO403	Pakistan - Kunhar - GhnoI	01.05.2006	P04KN141	NWFP, Mansehra Distt.	Indus River System	I
Kunhar	IMO403	Pakistan - Kunhar - Jabbi	03.01.2006	P04KN043	NWFP, Mansehra	Indus River System	I
Kunhar	IMO403	Pakistan - Kunhar - Jabbi	30.04.2006	P04KN041	NWFP, Mansehra	Indus River System	I-II
Kunhar	IMO403	Pakistan - Kunhar - Jabori	29.04.2005	P04KN113	NWFP, Mansehra	Indus River System	II
Kunhar	IMO403	Pakistan - Kunhar - Jabori	29.04.2006	P04KN111	NWFP, Mansehra	Indus River System	I-II
Kunhar	IMO403	Pakistan - Kunhar - Khawas	01.05.2006	P04KN011	NWFP, Mansehra	Indus River System	I
Kunhar	IMO403	Pakistan - Kunhar - Kund Didal	04.01.2006	P04KN103	NWFP, Mansehra	Indus River System	I
Kunhar	IMO403	Pakistan - Kunhar - Kund Didal	29.04.2006	P04KN101	NWFP, Mansehra	Indus River System	I
Kunhar	IMO403	Pakistan - Kunhar - Patlag	03.01.2006	P04KN093	NWFP, Mansehra	Indus River System	II-III
Kunhar	IMO403	Pakistan - Kunhar - Patlag	01.05.2006	P04KN091	NWFP, Mansehra	Indus River System	III-IV
Kunhar	IMO403	Pakistan - Kunhar - Sum	03.01.2006	P04KN123	NWFP, Mansehra	Indus River System	III
Kunhar	IMO403	Pakistan - Kunhar - Sum	29.04.2006	P04KN121	NWFP, Mansehra	Indus River System	III
Neelum	IMO403	Pakistan - Neelum - Showai Nala	07.01.2006	P04NL203	Azad Jamu & Kashmir	Indus River System	III
Neelum	IMO403	Pakistan - Neelum - Showai Nala	02.05.2006	P04NL201	Azad Jamu & Kashmir	Indus River System	III

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river name	terrestrial ecoregion name and code (WWF)	site name	date	sample code	federal state (province, district, nearest village)	river system/subsystem (river flowing into the sea)	preclassification
Kunhar	IMO403	Pakistan - Kunhar - Khawas	03.01.2006	P04KN013	NWFP, Mansehra	Indus River System	I
Neelum	IMO403	Pakistan - Neelum - Makri Nala	11.01.2006	P04NL213	Azad Jamu & Kashmir	Indus River System	IV-V