

III-3 List of Steering Committee Members

Syrian Side

Name	Position	Organization
Eng. Helal Al-Atrash	Minister	MOLAE
Dr. Bisher Al Sabban	Governor	Damascus Governorate
Eng. Imad Hassoun	Deputy Minister	MOLAE
Dr. Akram Khouri	Director General	GCEA
Prof. Dr. Mahmoud Saleh Seleiman	General Director	Environmental Studies Center (ESC)
Eng. Bassem Al-Kisheh	Central Laboratory	Ministry of Housing and Construction
Eng. Atef Deeb	Director, Water Pollution Control Dept.	Ministry of Irrigation
Eng. Salem Ksaibeh	Director, Environment Dept.	Ministry of Industry
Dr. Mahmoud Al-Haffar	Director, Studies and Environment Dept.	Ministry of Transport
Dr. Mahmoud Karem	Director, Environmental Diseases Dept.	Ministry of Health
Dr. Omar Abou Awn	Head Supervisors of Science	Ministry of Education

Japanese Side

Name	Position	Organization
Mr. Yoichi Iwai	Chief Adviser	JICA Experts Team
-	Expert(s) designated by Chief Adviser	JICA Experts Team
Mr. Kazuhide Nagasawa	Resident Representative	JICA Syria Office

III-4 List of Technical Committee Members

Syrian Side

Name	Position	Organization
Dr. Akram Khouri	General Director	GCEA
Ms. Manal Sakka	Director of EIA	GCEA
Dr. Yasin Moa'alla	Director of Laboratories	GCEA
Mr. Khaled Khelali	Director of Air Safety	GCEA
Ms. Reem Abd Rabboh	Director of Water Safety	GCEA
Dr. Nader Ghazi	Director of Public Awareness	GCEA
Mr. Shaka Soliman	Head of information unit	GCEA
Mr. Bassam Kheir beik	Director of Directorate	DFEA Damascus
Mr. Thaer Daif	Director of DFEA	DFEA Damascus Countryside
Mr. Saeid Naffous	Director of DFEA	DFEA Aleppo
Mr. Suleiman Kalo	Director of DFEA	DFEA Homs
Mr. Ali Jwaied	Director of DFEA	DFEA Hama
Ms. Lama Ahmad	Director of DFEA	DFEA Lattakia
Ms. Jomana Hasan	Director of DFEA	DFEA Idleb
Ms. Raeifa Esper	Director of DFEA	DFEA Hasakeh
Ms. Shamsa Aljasem	Director of DFEA	DFEA Rakka
Dr. Motasem Ala'bd	Director of DFEA	DFEA Sweida
Ms. Fatema Hariri	Director of DFEA	DFEA Dara'a
Mr. Hasan Marjan	Director of DFEA	DFEA Tartous
Mr. Hamzeh Soliman	Director of DFEA	DFEA Quneitra

Japanese Side

Name	Position	Organization
Mr. Yoichi Iwai	Chief Adviser	JICA Experts Team
-	Expert(s) designated by Chief Adviser	JICA Experts Team
Ms. Yumiko Honda	Staff	JICA Syria

IV-1(1) Dispatch of Japanese Experts

	Name of Expert	Theme of Guidance	Dispatched Period
1	Yoichi IWAI	Chief Adviser/Environmental Management	Jun. 3, 2005 – Jun. 15, 2005 Feb.1,2005 – Mar.1,2005 Apr.30,2005 – Sep.26,2005 Dec.10,2005 – Mar.9,2006 May.11,2006 – May.27,2006 Jul.18,2006 – Present
2	Ryunan MATSUE	Water Quality (Basic Analysis)	Jun. 3, 2005 – Mar.1,2005 Apr.30,2005 – Jul.28,2005 Dec.9,2005 – Mar.8,2006 Jun.2,2006 – Aug.15,2006
3	Shinsuke SATO	Water Quality (Chemical and Biological Analysis)	May.17,2005 – Sep.26,2005 Dec.9,2005 – Mar.8,2006 May.11,2006 – Present
4	Kouji KIMURA	Water Quality (Heavy Metal)	Dec.23,2005 – Feb.5,2006 Jun.2,2006 – Jul.1,2006
5	Minoru HIRAO	Air Quality Analysis	Jun.1,2005 – Jul.30,2005 Dec.17,2005 – Jan.31,2006 Jun.30,2006 – Aug.7,2006
6	Kazuyuki SATO	Environmental Education	Jan.10,2005 – Feb.8,2005 May.20,2005 – Jul.3,2005 Jan.6,2006 – Feb.4,2006 May.18,2006 – Jun.7,2006
7	Hanae MATUMOTO	Data Management/ Coordinator/Procurement Management	Jan.3,2005 – Feb.1,2005 Jun.1,2005 – Jun.30,2006 Dec.17,2005 – Feb.15,2006 Jan.6,2006 – Feb.4,2006
8	Takahiro KAMISITA	Data Management/ Coordinator/Procurement Management	May.11,2006 – Jul.15,2006

IV-2 Study Tour to the Environmental Monitoring Training Center in Egypt

1. Recipient Agency

Egyptian Environmental Affairs Agency (EEAA), the Arab Republic of Egypt

2. Date

From August 28 (Sun) to September 1 (Thr) in 2005

3. Visitors

	Name of visitor	Position of the visitor in the Study Tour Period	Present Position
1	Ms. Fathia Mohammad	Directorate of Laboratory, GCEA	The same as the left
2	Ms. Shams Aljasim	Director, DFEA in Rakka	The same as the left
3	Ms. Sanaa Al Mansour	Staff, DFEA in Homs	The same as the left
4	Mr. Nawaf Othman	Lab. Chief, DFEA in Hasakeh	The same as the left
5	Mr. Mohammad Hariri	Lab. Chief, DFEA in Dara'a	The same as the left
6	Mr. Senan Deeb	Staff, DFEA in Lattakia	The same as the left
7	Mr. Khaled Kasem	Lab. Chief, DFEA in Damascus	Moved out in Nov. 2005
8	Ms. Mouna Aljumaa	Lab. Chief, DFEA in Damascus Countryside	The same as the left

IV-3 (2) Damascus DFEA

Equipment List in Damascus DFEA (Basic Water Quality Analysis)

Name of Equipment	Manufacture	Model	Quantity	Remarks	
1	Portable Colorimeter Kit	HACH	CEL/890	1	JICA, Jun. 2005
2	Portable pH and Temp. Meter	HACH	sensION 1	1	JICA, Jun. 2005
3	Portable EC and TDS Meter	HACH	sensION 5	1	JICA, Jun. 2005
4	Portable DO Meter	HACH	sensION 6	1	JICA, Jun. 2005
5	Portable Turbidity Meter	HACH	2100P	1	JICA, Jun. 2005
6	COD Reactor	HACH	DRB 200-1	1	JICA, Jun. 2005
7	Digital Titrator	HACH	16900	1	JICA, Jun. 2005
8	Stirring platform for BOD Analysis	WTW	OxiTop IS12	2	JICA, Jun. 2005
9	BOD bottle with OxiTop measuring head	WTW	-	24	JICA, Jun. 2005
10	Incubator	WTW	TS 606/2i	1	JICA, Jun. 2005
11	Analytical Balance	Sartorius	CP324S	1	JICA, Jun. 2005
12	Table for Balance	Sartorius	YWT03	1	JICA, Jun. 2005
13	Pure Water Unit	GFL	2001/4	1	JICA, Jun. 2005
14	Desktop Computer+UPS	Mall Tech	CMAX PC1	1	JICA, Jun. 2005
15	Printer	Hewlett-Packard	1010	1	JICA, Jun. 2005
16	Digital Camera	Kodak	CX7330	1	JICA, Jun. 2005
17	Special Pipette Containers	-	-	1	JICA, Jun. 2005
18	Tank for Liquid Wastes	-	-	2	JICA, Jun. 2005
19	Ice Box for sampling	-	-	2	JICA, Jun. 2005
20	Refrigerator	Local	-	1	JICA, Apr. 2006

IV-3 Provision of Equipment by Japanese Side

IV-3 (1) GCEA

List of Equipment Provided by JICA in GCEA

Name of Equipment	Manufacture	Model	Quantity	Remarks	
1	Desktop Computer+UPS	CMAX	PC1	3	JICA, Jul. 2005 (One of them was stolen in Mar. 2006. One is installed in Dr. Yasin's room. One is installed in Ms. Pathia's room.)
2	Printer (Laser)	Hewlett-Packard	2300 N	2	JICA, Jul. 2005 (One of them is installed in the room of Dr. Akram's secretary. Another one is installed in Ms. Pathia's room.)
3	Printer (Color Laser)	Hewlett-Packard	2550 L	2	JICA, Jul. 2005 (One of them is installed in Mr. Shaka's room. Another one is installed in Dr. Yasin's room.)
4	Projector	Acer	PD 110	1	JICA, Jul. 2005 (Installed in Dr. Yasin's room.)
5	Note PC for the Project	Asus	A45L	1	JICA, Jul. 2005 (Installed in Dr. Yasin's room.)

IV-3 (2) Damascus DFEA

Glassware List for Laboratory in Damascus DFEA (Basic Water Quality Analysis)

Name of Glassware	Model	Quantity	Remarks
1) Whole Pipettes	BRAND (1ml)	2	JICA, Jun. 2005
	BRAND (2ml)	2	JICA, Jun. 2005
	BRAND (5ml)	3	JICA, Jun. 2005
	BRAND (10ml)	3	JICA, Jun. 2005
	BRAND (20ml)	2	JICA, Jun. 2005
	BRAND (50ml)	2	JICA, Jun. 2005
	BRAND (100ml)	1	JICA, Jun. 2005
	BRAND (1ml)	3	JICA, Jun. 2005
	BRAND (5ml)	3	JICA, Jun. 2005
	BRAND (10ml)	3	JICA, Jun. 2005
2) Graduated pipettes	Micro Pipette Filler	2	JICA, Jun. 2005
	Pipette Filler	2	JICA, Jun. 2005
3) Pipette Fillers	PMP (50ml)	2	JICA, Jun. 2005
	PMP (100ml)	2	JICA, Jun. 2005
4) Graduated beakers	PMP (150ml)	2	JICA, Jun. 2005
	PMP (250ml)	2	JICA, Jun. 2005
5) Volumetric Flasks	Hirschman (25ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	2	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (200ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	2	JICA, Jun. 2005
6) Volumetric Flasks	Hirschman (25ml)	2	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (200ml)	2	JICA, Jun. 2005
7) Erlenmeyer Flasks	NALGENE, IDL (125ml)	3	JICA, Jun. 2005
	NALGENE, IDL (250ml)	3	JICA, Jun. 2005
8) Erlenmeyer Flasks with Ground Joints	NALGENE, IDL (500ml)	2	JICA, Jun. 2005
	Retberg (100ml)	2	JICA, Jun. 2005
	Retberg (200ml)	2	JICA, Jun. 2005
	Retberg (300ml)	2	JICA, Jun. 2005
9) Stopper		6	JICA, Jun. 2005
		2	JICA, Jun. 2005
10) Graduated Cylinders	Hirschman (50ml)	2	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (250ml)	2	JICA, Jun. 2005
11) Wash Bottles with Bottle, Screw Cap, Riser Tube and Tube Holder	NALGENE, IDL	3	JICA, Jun. 2005
	VIT-LAB	1	JICA, Jun. 2005
12) Graduated Beakers	Soda-Lime, IDL	3	JICA, Jun. 2005
	Soda-Lime, IDL	3	JICA, Jun. 2005
13) Funnels	NALGENE, IDL	60	JICA, Jun. 2005
	Deutsch & Neumann	3	JICA, Jun. 2005
14) Packing Bottle	Deutsch & Neumann	3	JICA, Jun. 2005
	Deutsch & Neumann	3	JICA, Jun. 2005
15) Rubber Bulb for Small Pipette	Deutsch & Neumann	2	JICA, Jun. 2005
	Deutsch & Neumann	2	JICA, Jun. 2005
16) Sealing Film	KIMWIPES	2	JICA, Jun. 2005
17) Cleaning Tissue	MANUFIX	2	JICA, Jun. 2005
18) Gloves		2	JICA, Jun. 2005
19) Goggles		2	JICA, Jun. 2005
20) Stand and Clamp	DIN 12892, BOCHEM	2	JICA, Jun. 2005
	IDL, Bosshead	4	JICA, Jun. 2005
21) Cleaning Agent	IDL	4	JICA, Jun. 2005
		2	JICA, Jun. 2005
		1	JICA, Jun. 2005

IV-3 (2) Damascus DFEA

Reagents List for Laboratory in Damascus DFEA (Basic Water Quality Analysis)

No.	Name of Reagent	Usage	Unit	Quantity	Remarks
1	pH standards, pH 4.01	pH calibration	500 ml	2	JICA, Jun. 2005
	pH standards, pH 7.00	pH calibration	500 ml	2	JICA, Jun. 2005
	pH standards, pH 10.00	pH calibration	500 ml	2	JICA, Jun. 2005
2	Conductivity standards, 180 µs/cm	EC&TDS calibration	100ml	1	JICA, Jun. 2005
	Conductivity standards, 1,000 µs/cm	EC&TDS calibration	100ml	1	JICA, Jun. 2005
	Conductivity standards, 18,000 µs/cm	EC&TDS calibration	100ml	1	JICA, Jun. 2005
3	Turbidity Standards Kit for 2100 P Turbidity Meter (0.1, 20, 100, 800 NTU)	Turbidity calibration	500 ml for each	1	JICA, Jun. 2005
4	Reagents for NO ₃ -N (High range, 0-30.0 mg/l) for COD _{Cr}	COD _{Cr}	25 tests/PK	31	JICA, Jun. 2005
5	Reagents for NO ₃ -N (High range, 0-30.0 mg/l)	NO ₃ -N	100 tests/PK	8	JICA, Jun. 2005
6	Reagents for PO ₄ ³⁻ (High range, 0-30.00 mg/l)	PO ₄ ³⁻	100 tests/PK	8	JICA, Jun. 2005
7	Reagents for Cl ⁻ (0-10,000 mg/l)	Cl ⁻	100 tests/set	8	JICA, Jun. 2005
8	Reagents for NH ₃ -N (High range, 0-50 mg/l)	NH ₃ -N	50 tests/PK	15	JICA, Jun. 2005
9	Nitrification Inhibitor	BOD	500g	1	JICA, Jun. 2005
10	BOD Nutrient Buffer Pillows	BOD	50 pillows/PK	15	JICA, Jun. 2005
11	BOD Seed Inoculum	BOD	50 capsules/bottle	7	JICA, Jun. 2005
12	NaOH Pack	BOD	1000g/PK	1	JICA, Jun. 2005
13	Reagents (Low range 0-150 mg/l) for COD _{Cr}	COD _{Cr}	25 tests/PK	2	JICA, Jun. 2006
14	Reagents for NO ₃ -N (Mid range, 0-5.0 mg/l)	NO ₃ -N	100 tests/PK	1	JICA, Jun. 2006
15	Reagents for PO ₄ ³⁻ (Low range, 0-2.50 mg/l)	PO ₄ ³⁻	100 tests/PK	1	JICA, Jun. 2006
16	Reagents for NH ₃ -N (low range, 0-2.50 mg/l)	NH ₃ -N	50 tests/PK	1	JICA, Jun. 2006
17	COD standard, 300 mg/l	Check COD	200 ml	1	JICA, Jun. 2006
18	COD standard, 1000 mg/l	Check COD	200 ml	1	JICA, Jun. 2006
19	NO ₃ -N standard, 1.0 mg/l	Check NO ₃ -N	500 ml	1	JICA, Jun. 2006
20	NO ₃ -N standard, 10.0 mg/l	Check NO ₃ -N	500 ml	1	JICA, Jun. 2006
21	NO ₃ -N standard, 100 mg/l	Check NO ₃ -N	500 ml	1	JICA, Jun. 2006
22	PO ₄ ³⁻ standard, 50 mg/l	Check PO ₄ ³⁻	500 ml	1	JICA, Jun. 2006
23	NH ₃ -N standard, 10 mg/l	Check NH ₃ -N	500 ml	1	JICA, Jun. 2006
24	NH ₃ -N standard, 50 mg/l	Check NH ₃ -N	10 ml/16 Vohlette Amples	1	JICA, Jun. 2006
25	BOD standard, 300 mg/l	Check BOD	10 ml/16 Vohlette Amples	1	JICA, Jun. 2006
26	BOD standard, 3000 mg/l	Check BOD	10 ml/16 Vohlette Amples	1	JICA, Jun. 2006
27	Cl ⁻ standard, 1000 mg/l	Check Cl ⁻	500 ml	1	JICA, Jun. 2006
28	Bromine Water 30g/L	NO ₂ interfering (NO ₂ testing)	29 mL	1	JICA, Jun. 2006
29	Phenol Solution	NO ₃ interfering (NO ₃ testing)	29 mL	1	JICA, Jun. 2006
30	Sulfamic acid	NO ₃ interfering (PO ₄ testing)	113 g	1	JICA, Jun. 2006
31	Phosphate Pretreatment Powder Pillows	Turbidity and color interfering	100/pkg	1	JICA, Jun. 2006
32	Hydrochloric Acid, ACS	pH adjusting (NH ₃ , N, PO ₄ , etc.)	500 mL	1	JICA, Jun. 2006
33	Sulfide inhibitor Powder Pillows	S interfering (Cl ⁻ , NH ₃ -N testing)	100/pkg	1	JICA, Jun. 2006
34	Mercuric Sulfate	Cl ⁻ interfering (COD testing)	28.3 g	1	JICA, Jun. 2006
35	Hydrogen Peroxide, 30% ACS	Sulfite interfering (Cl ⁻ testing)	500 mL	1	JICA, Jun. 2006

IV-3 (2) Damascus DFEA

Additional Instrument List for Laboratory in Damascus DFEA (Basic Water Quality Analysis)

Name of Instrument	Quantity	Remarks	Name of Instrument	Quantity	Remarks
1 White cloth, M	4	JICA, Jun. 2005	1 Plastic funnel, 12cm dia	2	JICA, Aug-Oct. 2005
L	7	JICA, Jun. 2005	2 Safety glove	1	JICA, Aug-Oct. 2005
	5	JICA, Jun. 2005	3 Calculator	2	JICA, Aug-Oct. 2005
2 Brush	2	JICA, Jun. 2005	4 Electronic timer	2	JICA, Aug-Oct. 2005
	2	JICA, Jun. 2005	5 Cooling box, round shape	1	JICA, Aug-Oct. 2005
	1	JICA, Jun. 2005	6 Water-proof boot	2	JICA, Aug-Oct. 2005
3 pH paper	2	JICA, Jun. 2005	7 Gloves disposable (box/100)	5	JICA, Aug-Oct. 2005
4 Tube support rack	1	JICA, Jun. 2005	8 Plastic beaker, 1 liter with hand	1	JICA, Aug-Oct. 2005
5 Drying rack	1	JICA, Jun. 2005	9 Water tank, 5 liter w/2 hoses	2	JICA, Aug-Oct. 2005
6 Temp., humidity and barometric pressure meter	1	JICA, Jun. 2005	10 Water tank, 20 liter w/2 hoses	2	JICA, Aug-Oct. 2005
7 Temperature meter	2	JICA, Jun. 2005	11 Distilled water tank, 10 liter with tape	1	JICA, Aug-Oct. 2005
8 Long-handled dipper	1	JICA, Jun. 2005	12 Scissors	2	JICA, Aug-Oct. 2005
9 Weight boats	18 sheet	JICA, Jun. 2005	13 Carton cutter	2	JICA, Aug-Oct. 2005
	18 sheet	JICA, Jun. 2005	14 Meter (5 meters)	2	JICA, Aug-Oct. 2005
10 Spatula-spoon	2	JICA, Jun. 2005	15 Pipette filler 2ml	1	JICA, Aug-Oct. 2005
11 Trays	1	JICA, Jun. 2005	16 Pipette filler 10ml	1	JICA, Aug-Oct. 2005
12 Bucket with spout	2	JICA, Jun. 2005	17 Pipette filler 25ml	1	JICA, Aug-Oct. 2005
13 Rope	5	JICA, Jun. 2005	18 Plastic cylinder 1000ml	1	JICA, Aug-Oct. 2005
14 Vinyl tape	5	JICA, Jun. 2005	19 Plastic cylinder 500ml	1	JICA, Aug-Oct. 2005
15 Oil pen	2	JICA, Jun. 2005	20 Plastic beaker 500ml	1	JICA, Aug-Oct. 2005
16 Safety gloves	1	JICA, Jun. 2005	21 Glass beaker 1 liter	2	JICA, Aug-Oct. 2005
17 Cotton work gloves	5	JICA, Jun. 2005	22 Glass beaker 600ml	2	JICA, Aug-Oct. 2005
18 Waterproof boots	1	JICA, Jun. 2005	23 Pipetting ball w/2 valves	2	JICA, Aug-Oct. 2005
19 Cold reserving material	12	JICA, Jun. 2005	24 Field battery light, plastic	1	JICA, Aug-Oct. 2005
20 File with clip	2	JICA, Jun. 2005	25 Forceps	2	JICA, Aug-Oct. 2005
			26 Rope 27 meters	1	JICA, Aug-Oct. 2005
			27 Cotton cap	4	JICA, Aug-Oct. 2005
			28 Spatula spoon	2	JICA, Aug-Oct. 2005
			29 Half mask with filter for gases	1	JICA, Aug-Oct. 2005
			30 Yellow tips for micro pipette	70	JICA, Aug-Oct. 2005
			31 Oil pen	3	JICA, Aug-Oct. 2005
			32 Vinyl tape	5	JICA, Aug-Oct. 2005
			33 Sampler 3 meters split h	1	JICA, Aug-Oct. 2005
			34 Trays 270 x 270 x 120 mm	1	JICA, Aug-Oct. 2005
			35 Trays 450 x 320 x 150 mm	1	JICA, Aug-Oct. 2005
			36 Rechargeable battery	30	JICA, Aug-Oct. 2005
			37 Battery charger	1	JICA, Aug-Oct. 2005
			38 Sulfuric acid, 1 liter	1	JICA, Aug-Oct. 2005
			39 Formic acid, 1 liter	1	JICA, Aug-Oct. 2005
			40 Acetic acid, 1 liter	1	JICA, Aug-Oct. 2005
			41 Paper filter, 15cm dia. (box/100)	2	JICA, Aug-Oct. 2005
			42 Cell for DR890	10	JICA, Aug-Oct. 2005

IV-3 (2) Damascus DFEA

Equipment Provided to Damascus DFEA for Chemical and Biological Water Quality Analysis

Equipment

Name of Equipment	Q'ty	Manufacturer	Model	Remark
1-01 UVVIS spectrophotometer	1	HACH	DR-5000	Provided by JICA (Mar. '06)
1-02 Micro analysis balance	1	Boeco/Germany	BBC22	Provided by JICA (May '06)
1-03 Balance (6kg)	1	Boeco/Germany	BBL71	Provided by JICA (May '06)
1-04 Water Quality Analyzer	1	Eutech Instruments	CyberSeam PCD6500	Provided by JICA (Apr. '06)
1-042 Electrode for pH	1	Eutech Instruments		Provided by JICA (Apr. '06)
1-043 Electrode for EC	1	Eutech Instruments		Provided by JICA (Apr. '06)
1-044 Electrode for NO ₃	1	Eutech Instruments	EC-NO3-03	Provided by JICA (Apr. '06)
1-045 Electrode for Cl ⁻	1	Eutech Instruments	EC-CLO-03	Provided by JICA (Apr. '06)
1-046 Electrode for F ⁻	1	Eutech Instruments	EC-FO-03	Provided by JICA (Apr. '06)
1-047 Electrode for S ²⁻	1	Eutech Instruments	EC-AGS-03	Provided by JICA (Apr. '06)
1-048 Electrode for CN ⁻	1	Eutech Instruments	EC-CN-03	Provided by JICA (Apr. '06)
1-241 Electrode for DO	1	Eutech Instruments	13-620-SSP	Provided by JICA (Apr. '06)
1-051 Turbidimeter	1	Eutech Instruments	TB 1000 White light	Provided by JICA (Mar. '06)
1-061 Draft chamber with water/gas cleaning device	1	(Singapore)	Advancelab	Provided by JICA (Apr. '06)
1-071 Refrigerator	1	(Syria)	---	Provided by JICA (Mar. '06)
1-081 Locker for reagent	4	(Syria)	---	Provided by JICA (Jan. '06)
1-091 Water Purifier (Ion exchanger + SHH)	1	Ion Exchanger: TKA Germany, Water Still:	Ion Exchanger: DI 425, Still: WSB/4	Provided by JICA (Jan. '06)
1-101 Ultrasonic cleaner	1	ELMA	LC30	Provided by JICA (Feb. '06)
1-111 Middle temperature oven	1	Selecta, Spain	---	Provided by JICA (Jan. '06)
1-121 Muffle furnace	1	Hobersal, Spain	---	Provided by JICA (Jan. '06)
1-131 Autoclave (vertical type)	1	pbi, Italy	Mini-Matic	Provided by JICA (Jan. '06)
1-141 Centrifuge	1	Boeco	C-28	Provided by JICA (Mar. '06)
1-151 Shaker	1	Boeco	Orbital Multi-Shaker, FSU-20	Provided by JICA (Mar. '06)
1-161 Hot plate	2	(Syria)	---	Provided by JICA (Mar. '06)
1-171 Multi magnetic stirrer	1	IKA	[kamag RO 10 power	Provided by JICA (Mar. '06)
1-181 Rotary evaporator	1	IKA	RV05basic	Provided by JICA (Mar. '06)
1-191 Constant temperature water bath	2	Selecta/Spain	Digiterm-100	Provided by JICA (Mar. '06)
1-201 Vacuum filtration unit	1	---	---	Provided by JICA (Jan. '06)
1-221 Water sampler	1	Local	---	Provided by JICA (Apr. '06)
1-231 Colony counter	1	Funke-Garhart/Germany	ColonyStar	Provided by JICA (Jan. '06)
1-251 Oil content analyzer	1	HORIBA	OCMA-310	Provided by JICA (Mar. '06)
1-261 Solvent for Oil content analyzer	7	DAIKIN	S-316	Provided by JICA (Mar. '06)
1-271 Solvent recovery unit	1	HORIBA	SR-300	Provided by JICA (Mar. '06)

IV-3 (2)Damascus DFEA

Equipment List Provided by JICA to Damascus DFEA for Chemical & Biological Water Quality Analysis

Glassware

Name	Kind	Q'ty	Name	Kind	Q'ty
01 Whole Pipettes	7	26	48 Micro line tube	1	3
02 Graduated pipettes	3	8	49 Tube joint	3	3
03 Pipette Fillers	2	2	50 Support for test tubes	1	1
04 Ceramic mortar	1	1	51 Stopper (silicon rubber)	6	33
05 Graduated beakers	7	34	52 Octagon rotator	4	20
06 Volumetric Flasks	6	33	53 Rotator taking out stick	1	1
07 Volumetric Flasks	2	4	54 Weighing boat Plastic	1	1
08 Round bottom Flasks	2	40	55 Vacuum Pump	1	1
09 Kjeldahl Flasks	2	15	56 Circulating aspirators	1	1
10 Pear shape Flasks	2	20	57 Micro-syringe	2	2
11 Erlenmeyer Flasks	5	40	58 Membrane filter	1	4
12 Erlenmeyer Flasks with Ground Joints	4	23	59 pH Paper	1	1
13 Stopper	1	23	60 Quartz wool	1	1
14 Graduated Cylinders	5	13	61 Gastigt syringe	1	2
15 Komagoma Pipe, (Spot)	1	30	62 Tweezers for cell	1	1
16 Wash Dish	3	24	63 Pipet container	1	1
17 Separatory funnels	3	25	64 Pipet support	1	1
18 Wash Bottles with Bottle, Screw Cap.	2	10	65 Stand for micro pipet	1	1
19 Beaker with handle	1	1	66 Waste water container	2	8
20 Automatic buret	2	4	67 Boiling stone	1	1
21 Rubber of two ball reams	1	2	68 Flask filtering	1	1
22 Test Tube with stopper	1	1	69 Stand for Separatory funnels	3	20
23 Stainless Spoon	1	5	70 Seal tape	1	1
24 Glass rods	1	1	71 Paraffin film	1	2
25 Funnels	2	10	72 Wiping Tissue (Kimwipe)	1	72
26 Glass tube	1	2	73 Pipet cleaner	1	1
27 Stopcock	1	1	74 Brush	4	15
28 Pinchcock	1	5	76 Color comparison tubes	1	5
29 Screw Cook	1	5	77 Tube support	1	1
30 Stopwatch	1	1	78 Pasteur Pipette	1	1
31 Micro pipet	2	2	79 Teflon tube	1	1
32 Chip for micro pipet	2	2	80 Dropping Bottle	2	2
34 Heating mantles	1	2	81 Crucible	2	10
35 Fat extractor (soxhlet)	1	5	82 Dish tongs	1	1
36 Thermometer	1	1	83 Jumbo crucible tongs	1	1
37 Beaker tongs	1	2	84 Standard Sieve	1	1
38 Lab jack	1	1	85 Weighing Bottle	1	5
39 Unit stand	3	3	86 Conical beaker	1	5
40 Cork borer	1	1	87 Petri dishes	2	120
41 Muff	1	10	88 Bottle for sample collection	1	30
42 Jumbo muff	1	5	89 Rubber Bulb for Small Pipette	2	26
43 Clamps	2	10	90 Cleaning Tissue	1	45
44 Tweezers	1	8	91 Gloves	1	1
45 Vacuum hose	1	1	92 Goggles	1	2
46 Rubber tube	1	1	93 Cleaning Agent	1	1
47 Silicon rubber tube	1	1			

IV-3 (2)Damascus DFEA

Equipment List Provided by JICA to Damascus DFEA for Chemical & Biological Water Quality Analysis

Reagents

No.	Name	Unit	Q'ty	No.	Name	Unit	Q'ty
1	2,2,4,4-Tetramethyl-Pentane	lL	1	35	Potassium cyanide KCN	lKg	1
2	2,4-Dinitrophenol	25g	8	37	Potassium dichromate K ₂ Cr ₂ O ₇	lKg	3
3	3,3',5'-Trimethoxy-pyrene-sulfone-phthalimide (Bromophenol blue)	25g	2	38	Potassium dihydrogen phosphate KH ₂ PO ₄	lL	1
4	Acetic acid CH ₃ COOH	2.5L	1	39	Potassium fluoride dihydrate KF	500g	1
5	Acetone CH ₃ COCH ₃	2.5L	2	40	Potassium hydrogensulphate	500g	1
6	Ammonia NH ₃ (l) dilute about 18% Fe DAC	2.5L	1	41	Potassium hydroxide KOH	lKg	3
7	Ammonium antimoniate GR for analysis, ACS, Reag. Ph Eur	1kg	1	42	Potassium iodide KI	lKg	3
8	Ammonium metavanadate GR for analysis, ACS, Reag. Ph Eur	100g	2	43	Potassium nitrate KNO ₃	lKg	1
9	Boite acid H ₂ BO ₃	lKg	1	44	Potassium permanganate KMnO ₄	lKg	3
10	Chloro-benzene C ₆ H ₅ Cl	lL	1	45	Selenium dioxide (sublimed) for synthesis - Selenium anhydride SeO ₂	250g	1
11	Chloroform CHCl ₃	2.5L	2	46	Silicic acid SiO ₂ *H ₂ O	250g	2
12	Dichloromethane CH ₂ Cl ₂	2.5L	2	47	Silver nitrate AgNO ₃	100g	2
13	Dodecyl sulfate sodium salt C ₁₂ H ₂₅ NaO ₄ S	lKg	1	48	Silver sulfate Ag ₂ SO ₄	100g	1
14	Ether (C ₂ H ₅) ₂ O	2.5L	3	49	Sodium azide NaN ₃	lKg	1
15	Ethylenediaminetetraacetic acid, dipotassium salt dihydrate (EDTA-K2) C ₁₀ H ₁₆ N ₂ O ₈ ·2H ₂ O	100g	1	50	Sodium chloride NaCl	lKg	1
16	Hexammonium heptamolybdate lena hydrate	250g	1	51	Sodium deoxycholate C ₂₄ H ₄₅ NaO ₇	250g	2
17	Hydrochloric acid HCl	2.5L	1	53	Sodium fluoride GR for analysis ACS, ISO, Rea. Ph Eur, 99%	500g	1
18	Hydroxylamine hydrochloride NH ₂ OH + HCl	lKg	3	54	Sodium hydroxide NaOH	lKg	5
19	Hydroxylamine sulfate (HO)NH ₂ SO ₄	250g	4	55	Sodium hypochlorite	2.5L	2
20	Iron(II) chloride hexahydrate FeCl ₂ ·6H ₂ O	lKg	1	56	Sodium iodide NaI	100g	5
21	Lactose monohydrate C ₁₂ H ₂₂ O ₁₁ ·H ₂ O	1 kg	2	57	Sodium nitrate NaNO ₃	lKg	1
22	L-Ascorbic acid C ₆ H ₈ O ₆	250g	2	58	Sodium oxalate (C ₂ H ₂ O ₄) ₂	lKg	1
23	Lead(II) carbonate, basic PbCO ₃	500g	1	59	Sodium Salicylate HDG.H ₂ COONa	250g	10
24	Magnesium perchlorate Mg(ClO ₄) ₂ *H ₂ O	500g	1	60	Sodium sulfate Na ₂ SO ₄	500g	8
25	Magnesium sulfate heptahydrate MgSO ₄ ·7H ₂ O	lKg	1	61	Sodium sulfide Na ₂ S	lKg	3
27	Manganese (II) sulfate monohydrate MnSO ₄ ·H ₂ O	lKg	2	63	Sodium sulfite Na ₂ SO ₃	lKg	1
28	Neutral red C ₂₀ H ₁₂ ClN ₄	25ml	4	64	Sodium tetraborate decahydrate Na ₂ B ₄ O ₇ ·10H ₂ O	250g	1
29	n-Hexadecane for synthesis	250ml	1	65	Sodium thiosulfate pentahydrate Na ₂ S ₂ O ₅ ·5H ₂ O	lKg	3
30	n-Hexane C ₆ H ₁₄	2.5L	3	66	Stearic acid C ₁₈ H ₃₆ O ₂	500g	1
31	Pentone	500g	4	67	Sulfamic acid (minisulfonic acid) H ₂ NSO ₃ H	lKg	2
32	Potassium bromate KBrO ₃	lKg	1	68	Sulfuric acid H ₂ SO ₄	2.5L	1
33	Potassium carbonate K ₂ CO ₃	lKg	2	69	Sulfuric acid H ₂ SO ₄	1L	1
34	Potassium chloride KCl	lKg	1	70	Tetraethylenethylene C ₂ Cl ₄	2.5L	1
35	Potassium chromate K ₂ CrO ₄	lKg	1	71	Trans-1,2-Diaminocyclohexane-N,N',N'-teraminoic acid monohydrate C ₄ H ₁₂ N ₂ O ₃ ·H ₂ O	25g	4
	Reagent for UV/VIS spectrophotometer	1 set					

IV-3 (2)Damascus DFEA

Equipment to be Provided to Damascus DFEA for Air Quality Analysis by JICA

Air Quality Monitoring Equipment		Name of Equipment	Usage	Q'ty
1-1	TSP High Volume Air Sampler (Option: Flow calibration)		Collection of TSP	4
2-1	PM10 High Volume Air Sampler		Collection of PM-10	4
2-2	Low Volume Air Sampler		Collection of PM-10	4
3-1	Handy Sampler		Collection of toxic gas elements	4
Meteorological instrument: Weather station				
4-1	Wind Direction & Speed Meter		Weather observation	3
4-2	Thermometer / Hygrometer		Weather observation	
4-3	Solar radiation meter		Weather observation	
4-4	Photovoltaic generation system		Weather observation	
5-1	Asman ventilation psychrometer		Weather observation	
Laboratory equipment				
6-1	Micro Balance		For the samples and the reagents	1
6-2	Refrigerator		For the samples and the reagents	1
6-3	Auto-dry desiccators		For the samples and the reagents	1
6-4	Locker for reagents		For the reagents	1
6-5	UV/VIS Spectrometer		Analysis of toxic substance	1

IV-3 (2)Damascus DFEA

Equipment to be Provided to Damascus DFEA for Air Quality Analysis by JICA

Glassware

No.	Name	Kind	Q'ty	No.	Name	Kind	Q'ty
1	Whole Pipettes	6	21	51	Octagon rotator	4	20
2	Graduated pipettes	3	9	52	Rotator taking out stick	1	1
3	Pipette Fillers (Germany)	1	1	53	Weighing Paper	2	2
	(Rubber Pipetter)	1	2	55	Vacuum Pump	1	1
4	Ceramic mortar	1	1	58	Glass fiber filter paper*1	1	2
5	Beakers	7	32	59-1	Quartz fiber filter paper*1	1	1
6	Volumetric Flasks	6	19	59-2	Glass fiber filter paper*1	1	2
11-1	Erlenmeyer Flasks	5	18	60	Membrane filter	1	2
11-2	Erlenmeyer Flasks with Ground Joints	4	17	61	pH Paper	1	2
12	Graduated Cylinders	5	9	65	Pipet container	1	1
14	Watch Dish	5	10	66	Pipet support	1	1
16	Wash Bottles with Bottle, Screw Cap, Riser Tube and Tube Holder	2	6	67	Stand for micro pipet	1	1
17	Beaker with handle	1	1	69	Waste water container	2	16
20	Test Tube with stopper	1	1	71	Flask filtering	1	1
21	Stainless Spoon	1	1	73	Seal tape	1	2
22	Funnels	2	10	74	Paraffin film	1	2
23	Glass rods	2	4	76	Pipet cleaner	1	1
24	Glass tube	1	2	77	Brush	4	8
25	Stoppcock	1	1	78	Drying Shelf (Sheet for the glass apparatus dynamo)	1	0
26	Pinchcock	1	5	79	Color comparison tubes	2	14
27	Screw Cock	1	5	80	Tube support	1	1
28	Stopwatch	1	1	81	Pasteur Pipette	2	2
30	Micro pipet	2	2	85	Dropping Bottle	2	3
31	Chip for micro pipet	2	2	86	Crucible	2	20
35	Thermometer	1	2	87	Porcelain dish tongs	1	1
36	Beaker tongs	1	1	89	Standard Sieve	1	1
39	Cork borer	1	1	90	Weighing Bottle	1	5
40	Muff	1	10	91	Desiccator	1	1
41	Jumbo muff	1	5	92	Conical beaker	1	10
42	Clamps	2	10	94	Bottle for sample collection	1	20
43	Tweezers	1	2	95	Rubber Bulb for Small Pipette	2	4
44	Vacuum hose	1	1		Vinyl-methyl Silicon rubber for graduated pipettes (10mm)	1	2
45	Rubber tube	1	1	96	Cleaning Tissue	1	1
46	Silicon rubber tube	1	2	98	Goggles	1	2
46	Silicon rubber tube	1	1	99	Cleaning Agent	1	1
48	Tube joint	3	3	100	Burret	2	4
49	Support for test tubes	1	1	101	Burret stand	1	1
50	Stopper (silicon rubber)	6	12	102	Dust jar	1	8

IV-3 (3)Damascus Countryside DFEA

Equipment List in Damascus Countryside DFEA

Name of Equipment	Manufacture	Model	Quantity	Remarks
1 Portable Colorimeter Kit	HACH	CEL/890	1	JICA, Jun. 2005
2 Portable pH and Temp. Meter	HACH	sensON 1	1	JICA, Jun. 2005
3 Portable EC and TDS Meter	HACH	sensON 5	1	JICA, Jun. 2005
4 Portable DO Meter	HACH	sensON 6	1	JICA, Jun. 2005
5 Portable Turbidity Meter	HACH	2100P	1	JICA, Jun. 2005
6 COD Reactor	HACH	DRB 200-1	1	JICA, Jun. 2005
7 Digital Titrator	HACH	I6900	1	JICA, Jun. 2005
8 Stirring platform for BOD Analysis	WTW	OxiTop IS12	2	JICA, Jun. 2005
9 BOD bottle with OxiTop measuring head	WTW	-	24	JICA, Jun. 2005
10 Incubator	WTW	TS 606/2i	1	JICA, Jun. 2005
11 Analytical Balance	Sartorius	CP324S	1	JICA, Jun. 2005
12 Table for Balance	Sartorius	YWT03	1	JICA, Jun. 2005
13 Pure Water Unit	GFL	2801/4	1	JICA, Jun. 2005
14 Desktop Computer+UPS	Mail Tech	GMAX PCI	1	JICA, Jun. 2005
15 Printer	Hewlett-Packard	1010	1	JICA, Jun. 2005
16 Digital Camera	Kodak	CX7330	1	JICA, Jun. 2005
17 Special Pipette Containers	-	-	1	JICA, Jun. 2005
18 Tank for Liquid Wastes	-	-	2	JICA, Jun. 2005
19 Ice Box for sampling	-	-	2	JICA, Jun. 2005
20 Refrigerator	Local	-	1	JICA, Apr. 2006

IV-3 (2)Damascus DFEA

Equipment to be Provided to Damascus DFEA for Air Quality Analysis by JICA

NO	Name	Reagent	Unit	Q'ty
1	Acetic acid	(CH ₃ COOH)	2.5 L	1
2	Sulfanilic acid	(H ₂ NCH ₂ SO ₃ H)	100g	1
3	N-(1-Naphthyl) ethylenediamine analysis (C10H7NHCH2CH2NH2·2H2O)	For NOx	25g	1
4	Potassium permanganate For NOx analysis (KMnO ₄)		1 kg	1
5	Sulfuric acid	(H ₂ SO ₄)	2.5 L	1
6	Sodium nitrite	(NaNO ₂)	500g	1
7	Chloroform, certified	(CHCl ₃)	2.5 L	1
8	Barium hydroxide octahydrat	(Ba(OH) ₂ · 8H ₂ O)	500g	1
9	Triethanol amino	(N(CH ₂ CH ₂ OH) ₃)	500ml	1
10	Sodium azide	(NaN ₃)	100g	1
12	Hydrochloric acid	(HCL)	2.5 L	1
13	Formaldehyde		2.5 L	1
14	Sodium hydrogensulfite 40% Solution	(NaHSO ₃)	1.0L	1
15	Iodine (0.1 N)		500ml	1
16	Sodium sulfate	(Na ₂ SO ₄)	500g	1
17	Mercury (II) chloride	(HgCl ₂)	500g	1
18	Sodium chloride	(NaCl)	1 kg	1
19	Glycerin	(HOCH ₂ CHOHCH ₂ OH)	1 L	2
20	Starch, soluble	(C ₆ H ₁₀ O ₅) _n	1 kg	1
21	Mercury (II) iodide, red	(HgI ₂)	100g	1
22	Sodium thiosulfate pentahydrate	(Na ₂ S ₂ O ₅ · 5H ₂ O)	1 kg	1
23	Potassium iodate	(KIO ₃)	100g	1
24	Potassium iodide	(KI)	1 kg	1
25	Hydrochloric acid (1 N)	(1N-HCL)	1 L	1
26	Sodium fluoride	(NaF)	500g	3
27	Lanthanum nitrate hexahydrate	(La(NO ₃) ₃ · 6H ₂ O)	25g	1
28	Alizarin complexone dihydrate, indicator grade	(C ₁₉ H ₁₅ NO ₈ ·2H ₂ O)	1g	1
29	Silicon dioxide	(SiO ₂)	500g	1
30	Phosphoric acid	(H ₃ PO ₄)	2.5L	1
31	Phenolphthalein	(C ₂₀ H ₁₄ O ₄)	100g	1
32	Perchloric acid	(HClO ₄)	1 L	1
33	Sodium hydroxide, pellets	(NaOH)	1 kg	1
34	Ammonia solution, 25%	(NH ₄ OH)	2.5 L	1
35	Ammonium acetate, >98%	(CH ₃ COONH ₄)	500g	1
36	Sodium acetate, trihydrate	(CH ₃ COONa · 3H ₂ O)	500g	1
37	Acetone	(CH ₃ COCH ₃)	2.5 L	1
38	Potassium dihydrogenphosphat, for Ox analysis	(KH ₂ PO ₄)	500g	1
39	Disodium hydrogen phosphate-12water	(Na ₂ HPO ₄ ·12H ₂ O)	1 kg	1
40	Potassium iodide	(KI)	1 kg	1
41	Iodine	(I)	500g	1
42	Nessler's reagent		500ml	1
43	Methylene blue		100g	1
44	Phosphoric Acid	(H ₃ PO ₄)	2.5 L	1
45	Sulfanilamide	(H ₂ NCH ₂ SO ₂ NH ₂)	500g	1

IV-3 (3)Damascus Countryside DFEA

Glassware List for Laboratory in Damascus Countryside DFEA (Basic Water Quality Analysis)

Name of Glassware	Model	Quantity	Remarks
1 Whole Pipettes	BRAND (1ml)	2	JICA, Jun. 2005
	BRAND (2ml)	2	JICA, Jun. 2005
	BRAND (5ml)	3	JICA, Jun. 2005
	BRAND (10ml)	3	JICA, Jun. 2005
	BRAND (20ml)	2	JICA, Jun. 2005
	BRAND (50ml)	2	JICA, Jun. 2005
	BRAND (100ml)	1	JICA, Jun. 2005
	BRAND (1ml)	3	JICA, Jun. 2005
	BRAND (5ml)	3	JICA, Jun. 2005
	BRAND (10ml)	3	JICA, Jun. 2005
3 Pipette Fillers	Micro Pipette Filler	2	JICA, Jun. 2005
	Pipette Filler	2	JICA, Jun. 2005
4 Graduated beakers	PMP (50ml)	2	JICA, Jun. 2005
	PMP (100ml)	2	JICA, Jun. 2005
5 Volumetric Flasks	PMP (150ml)	2	JICA, Jun. 2005
	PMP (250ml)	2	JICA, Jun. 2005
	Hirschman (25ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	2	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (200ml)	2	JICA, Jun. 2005
	Hirschman (25ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	2	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (200ml)	2	JICA, Jun. 2005
6 Volumetric Flasks	Hirschman (50ml)	2	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
7 Erlenmeyer Flasks	Hirschman (200ml)	3	JICA, Jun. 2005
	NALGENE, IDL (125ml)	3	JICA, Jun. 2005
8 Erlenmeyer Flasks with Ground Joints	NALGENE, IDL (500ml)	2	JICA, Jun. 2005
	Retberg (100ml)	2	JICA, Jun. 2005
9 Stopper	Retberg (200ml)	2	JICA, Jun. 2005
	Retberg (300ml)	2	JICA, Jun. 2005
10 Graduated Cylinders	Hirschman (50ml)	6	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
11 Wash Bottles with Bottle, Screw Cap, Riser Tube and Tube Holder	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (250ml)	2	JICA, Jun. 2005
12 Graduated Beakers	NALGENE, IDL	3	JICA, Jun. 2005
	VIT-LAB	1	JICA, Jun. 2005
13 Funnels	Soda-Lime, IDL	3	JICA, Jun. 2005
	Soda-Lime, IDL	3	JICA, Jun. 2005
14 Packing Bottle	NALGENE, IDL	60	JICA, Jun. 2005
	Deutsch & Neumann	3	JICA, Jun. 2005
15 Rubber Bulb for Small Pipette	Deutsch & Neumann	3	JICA, Jun. 2005
	Deutsch & Neumann	3	JICA, Jun. 2005
16 Sealing Film	Deutsch & Neumann	2	JICA, Jun. 2005
	KIMWIPE	2	JICA, Jun. 2005
17 Cleaning Tissue	KIMWIPE	2	JICA, Jun. 2005
	MANUPIX	2	JICA, Jun. 2005
18 Gloves	MANUPIX	2	JICA, Jun. 2005
	DIN 12892, BOCHEM	2	JICA, Jun. 2005
20 Stand and Clamp	IDL, Bosshead	4	JICA, Jun. 2005
	IDL	4	JICA, Jun. 2005
21 Cleaning Agent	IDL	2	JICA, Jun. 2005
		1	JICA, Jun. 2005

IV-3 (3)Damascus Countryside DFEA

Reagents List for Laboratory in Damascus Countryside DFEA (Basic Water Quality Analysis)

Name of Reagent	Usage	Unit	Quantity	Remarks
pH standards, pH 4.01	pH calibration	500 ml	2	JICA, Jun. 2005
pH standards, pH 7.00		500 ml	2	JICA, Jun. 2005
pH standards, pH 10.00		500 ml	2	JICA, Jun. 2005
Conductivity standards, 180 µS/cm	EC&TDS calibration	100ml	1	JICA, Jun. 2005
Conductivity standards, 1,000 µS/cm		100ml	1	JICA, Jun. 2005
Conductivity standards, 15,000 µS/cm		100ml	1	JICA, Jun. 2005
Turbidity Standards Kit for 2100 P Turbidity Meter (0.1, 20, 100, 800 NTU)	Turbidity calibration	500 ml for each	1	JICA, Jun. 2005
Reagents for NO ₃ -N (High range, 0-300.00 mg/l) for COD _C	COD _C	25 tests/PK	31	JICA, Jun. 2005
Reagents for NO ₃ -N (High range, 0-30.00 mg/l)	NO ₃ -N	100 tests/PK	8	JICA, Jun. 2005
Reagents for PO ₄ ³⁻ (High range, 0-30.00 mg/l)	PO ₄ ³⁻	100 tests/PK	8	JICA, Jun. 2005
Reagents for Cl ⁻ (0-10,000 mg/l)	Cl ⁻	100 tests/set	8	JICA, Jun. 2005
Reagents for NH ₄ -N (High range, 0-50 mg/l)	NH ₄ -N	50 tests/PK	15	JICA, Jun. 2005
Nitrification inhibitor	BOD	500g	1	JICA, Jun. 2005
BOD Nutrient Buffer Pillows	BOD	50 pillows/PK	15	JICA, Jun. 2005
BOD Seed Inoculum	BOD	50 capsules/bottle	7	JICA, Jun. 2005
NaOH Pack	BOD	1000g/PK	1	JICA, Jun. 2005
Reagents (Low range 0-150 mg/l) for COD _C	COD _C	25 tests/PK	2	JICA, Jun. 2006
Reagents for NO ₃ -N (Mid range, 0-5.0 mg/l)	NO ₃ -N	100 tests/PK	1	JICA, Jun. 2006
Reagents for PO ₄ ³⁻ (Low range, 0-2.50 mg/l)	PO ₄ ³⁻	100 tests/PK	1	JICA, Jun. 2006
Reagents for NH ₄ -N (low range, 0-2.50 mg/l)	NH ₄ -N	50 tests/PK	1	JICA, Jun. 2006
COD standard, 300 mg/l	Check COD	200 ml	1	JICA, Jun. 2006
COD standard, 1000 mg/l	Check COD	200 ml	1	JICA, Jun. 2006
NO ₃ -N standard, 1.0 mg/l	Check NO ₃ -N	500 ml	1	JICA, Jun. 2006
NO ₃ -N standard, 10.0 mg/l	Check NO ₃ -N	500 ml	1	JICA, Jun. 2006
NO ₃ -N standard, 100 mg/l	Check NO ₃ -N	500 ml	1	JICA, Jun. 2006
PO ₄ ³⁻ standard, 50 mg/l	Check PO ₄ ³⁻	500 ml	1	JICA, Jun. 2006
NH ₄ -N standard, 10 mg/l	Check NH ₄ -N	500 ml	1	JICA, Jun. 2006
NH ₄ -N standard, 50 mg/l	Check NH ₄ -N	10 ml/16 Voullette Amples	1	JICA, Jun. 2006
BOD standard, 300 mg/l	Check BOD	10 ml/16 Voullette Amples	1	JICA, Jun. 2006
BOD standard, 3000 mg/l	Check BOD	10 ml/16 Voullette Amples	1	JICA, Jun. 2006
Cl ⁻ standard, 1000 mg/l	Check Cl ⁻	500 ml	1	JICA, Jun. 2006
Bromine Water 30g/L	NO ₂ interfering (NO ₂ testing)	29 mL	1	JICA, Jun. 2006
Phenol Solution	NO ₂ interfering (NO ₂ testing)	29 mL	1	JICA, Jun. 2006
Sulfamic acid	NO ₂ interfering (PO ₄ testing)	113 g	1	JICA, Jun. 2006
Phosphate Pretreatment Powder Pillows	Turbidity and color Interfering	100/pkg	1	JICA, Jun. 2006
Hydrochloric Acid, ACS	pH adjusting (NH ₄ -N, PO ₄ etc.)	500 mL	1	JICA, Jun. 2006
Sulfide Inhibitor Powder Pillows	S interfering (Cl ⁻ , NH ₄ -N testing)	100/pkg	1	JICA, Jun. 2006
Mercuric Sulfate	Cl ⁻ interfering (COD testing)	28.3 g	1	JICA, Jun. 2006
Hydrogen Peroxide, 30% ACS	Sulfite interfering (Cl ⁻ testing)	500 mL	1	JICA, Jun. 2006

IV-3 (4) Aleppo DFEA

Equipment List in Aleppo DFEA (Basic Water Quality Analysis)

Name of Instrument	Quantity	Remarks	Name of Instrument	Quantity	Remarks
1 Portable Colorimeter Kit	1	JICA, Jun. 2005	HACH	CEL890	JICA, Jun. 2005
2 Portable pH and Temp. Meter	1	JICA, Jun. 2005	HACH	sensION 1	JICA, Jun. 2005
3 Portable EC and TDS Meter	1	JICA, Jun. 2005	HACH	sensION 5	JICA, Jun. 2005
4 Portable DO Meter	1	JICA, Jun. 2005	HACH	sensION 6	JICA, Jun. 2005
5 Portable Turbidity Meter	1	JICA, Jun. 2005	HACH	2100P	JICA, Jun. 2005
6 COD Reactor	1	JICA, Jun. 2005	HACH	DRB 200-1	JICA, Jun. 2005
7 Digital Titrator	1	JICA, Jun. 2005	HACH	16900	JICA, Jun. 2005
8 Stirring platform for BOD Analysis	2	JICA, Jun. 2005	WTW	OxiTop IS12	JICA, Jun. 2005
9 BOD bottle with OxiTop measuring head	24	JICA, Jun. 2005	WTW	-	JICA, Jun. 2005
10 Incubator	1	JICA, Jun. 2005	WTW	TS 6062i	JICA, Jun. 2005
11 Analytical Balance	1	JICA, Jun. 2005	Sartorius	CP324S	JICA, Jun. 2005
12 Table for Balance	1	JICA, Jun. 2005	Sartorius	YWT03	JICA, Jun. 2005
13 Pure Water Unit	1	JICA, Jun. 2005	GFL	2001/4	JICA, Jun. 2005
14 Desktop Computer+UPS	1	JICA, Jun. 2005	Mall Tech	CMAX PCI	JICA, Jun. 2005
15 Printer	1	JICA, Jun. 2005	Hewlett-Packard	1010	JICA, Jun. 2005
16 Digital Camera	1	JICA, Jun. 2005	Kodak	CX7330	JICA, Jun. 2005
17 Special Pipette Containers	1	JICA, Jun. 2005	-	-	JICA, Jun. 2005
18 Tank for Liquid Wastes	2	JICA, Jun. 2005	-	-	JICA, Jun. 2005
19 Ice Box for sampling	2	JICA, Jun. 2005	-	-	JICA, Jun. 2005
20 Refrigerator	1	JICA, Apr. 2006	Local	-	JICA, Apr. 2006

IV-3 (3) Damascus Countryside DFEA

Additional Instrument List for Laboratory in Damascus Countryside DFEA (Basic Water Quality Analysis)

Name of Instrument	Quantity	Remarks	Name of Instrument	Quantity	Remarks
1 White cloth, M	2	JICA, Jun. 2005	1 Plastic funnel, 12cm dia	2	JICA, Aug-Oct. 2005
L	5	JICA, Jun. 2005	2 Safety glove	1	JICA, Aug-Oct. 2005
XL	0	JICA, Jun. 2005	3 Calculator	2	JICA, Aug-Oct. 2005
2 Brush	2	JICA, Jun. 2005	4 Electronic timer	2	JICA, Aug-Oct. 2005
	2	JICA, Jun. 2005	5 Cooling box, round shape	1	JICA, Aug-Oct. 2005
3 pH paper	1	JICA, Jun. 2005	6 Water-proof boot	2	JICA, Aug-Oct. 2005
	2	JICA, Jun. 2005	7 Gloves disposable (box/100)	5	JICA, Aug-Oct. 2005
4 Tube support rack	1	JICA, Jun. 2005	8 Plastic beaker, 1 liter with hand	1	JICA, Aug-Oct. 2005
5 Drying rack	1	JICA, Jun. 2005	9 Water tank, 5 liter w/2 hoses	2	JICA, Aug-Oct. 2005
6 Temp, humidity and barometric pressure meter	1	JICA, Jun. 2005	10 Water tank, 20 liter w/2 hoses	2	JICA, Aug-Oct. 2005
7 Temperature meter	2	JICA, Jun. 2005	11 Distilled water tank, 10 liter with tape	1	JICA, Aug-Oct. 2005
8 Long-handled dipper	1	JICA, Jun. 2005	12 Scissors	2	JICA, Aug-Oct. 2005
9 Weight boats	18 sheet	JICA, Jun. 2005	13 Carton cutter	2	JICA, Aug-Oct. 2005
	18 sheet	JICA, Jun. 2005	14 Meter (5 meters)	2	JICA, Aug-Oct. 2005
10 Spatula-spoon	2	JICA, Jun. 2005	15 Pipette filler 2ml	1	JICA, Aug-Oct. 2005
11 Trays	1	JICA, Jun. 2005	16 Pipette filler 10ml	1	JICA, Aug-Oct. 2005
12 Bucket with spout	2	JICA, Jun. 2005	17 Pipette filler 25ml	1	JICA, Aug-Oct. 2005
13 Rope	1	JICA, Jun. 2005	18 Plastic cylinder, 1000ml	1	JICA, Aug-Oct. 2005
14 Vinyl tape	5	JICA, Jun. 2005	19 Plastic cylinder 500ml	1	JICA, Aug-Oct. 2005
15 Oil pen	2	JICA, Jun. 2005	20 Plastic beaker 500ml	1	JICA, Aug-Oct. 2005
16 Safety gloves	1	JICA, Jun. 2005	21 Glass beaker 1 liter	2	JICA, Aug-Oct. 2005
17 Cotton work gloves	5	JICA, Jun. 2005	22 Glass beaker 600ml	2	JICA, Aug-Oct. 2005
18 Waterproof boots	1	JICA, Jun. 2005	23 Pipetting bal w/2 valves	2	JICA, Aug-Oct. 2005
19 Cold reserving material	12	JICA, Jun. 2005	24 Field battery light, plastic	1	JICA, Aug-Oct. 2005
20 File with clip	2	JICA, Jun. 2005	25 Forceps	2	JICA, Aug-Oct. 2005
21 Generator	1	JICA, Mar. 2006	26 Rope 27 meters	1	JICA, Aug-Oct. 2005
			27 Cotton cap	4	JICA, Aug-Oct. 2005
			28 Spatula spoon	2	JICA, Aug-Oct. 2005
			29 Half mask with filter for gases	1	JICA, Aug-Oct. 2005
			30 Yellow tips for micro pipette	70	JICA, Aug-Oct. 2005
			31 Oil pen	3	JICA, Aug-Oct. 2005
			32 Vinyl tape	5	JICA, Aug-Oct. 2005
			33 Sampler 3 meters split h	1	JICA, Aug-Oct. 2005
			34 Trays 270 x 270 x 120 mm	1	JICA, Aug-Oct. 2005
			35 Trays 450 x 320 x 150 mm	1	JICA, Aug-Oct. 2005
			36 Rechargeable battery	30	JICA, Aug-Oct. 2005
			37 Battery charger	1	JICA, Aug-Oct. 2005
			38 Sulfuric acid, 1 liter	1	JICA, Aug-Oct. 2005
			39 Formic acid, 1 liter	1	JICA, Aug-Oct. 2005
			40 Acetic acid, 1 liter	1	JICA, Aug-Oct. 2005
			41 Paper filter, 15cm dia. (box/100)	2	JICA, Aug-Oct. 2005
			42 Cell for DR/890	10	JICA, Aug-Oct. 2005

IV-3 (4) Aleppo DFEA

Glassware List for Laboratory in Aleppo DFEA (Basic Water Quality Analysis)

Name of Glassware	Model	Quantity	Remarks
1 Whole Pipettes	BRAND (1ml)	2	JICA, Jun. 2005
	BRAND (2ml)	2	JICA, Jun. 2005
	BRAND (5ml)	3	JICA, Jun. 2005
	BRAND (10ml)	3	JICA, Jun. 2005
	BRAND (20ml)	2	JICA, Jun. 2005
	BRAND (50ml)	2	JICA, Jun. 2005
	BRAND (100ml)	1	JICA, Jun. 2005
	BRAND (1ml)	3	JICA, Jun. 2005
	BRAND (5ml)	3	JICA, Jun. 2005
	BRAND (10ml)	3	JICA, Jun. 2005
3 Pipette Fillers	Micro Pipette Filler	2	JICA, Jun. 2005
	Pipette Filler	2	JICA, Jun. 2005
4 Graduated beakers	PMP (50ml)	2	JICA, Jun. 2005
	PMP (100ml)	2	JICA, Jun. 2005
	PMP (150ml)	2	JICA, Jun. 2005
	PMP (250ml)	2	JICA, Jun. 2005
5 Volumetric Flasks	Hirschman (25ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	2	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (200ml)	2	JICA, Jun. 2005
	Hirschman (250ml)	2	JICA, Jun. 2005
6 Volumetric Flasks	Hirschman (25ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	2	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (200ml)	2	JICA, Jun. 2005
	Hirschman (250ml)	2	JICA, Jun. 2005
7 Erlenmeyer Flasks	NALGENE, IDL (125ml)	3	JICA, Jun. 2005
	NALGENE, IDL (250ml)	3	JICA, Jun. 2005
	NALGENE, IDL (500ml)	2	JICA, Jun. 2005
8 Erlenmeyer Flasks with Ground Joints	Retberg (100ml)	2	JICA, Jun. 2005
	Retberg (200ml)	2	JICA, Jun. 2005
	Retberg (300ml)	2	JICA, Jun. 2005
9 Stopper	Hirschman (50ml)	6	JICA, Jun. 2005
10 Graduated Cylinders	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (250ml)	2	JICA, Jun. 2005
	NALGENE, IDL	3	JICA, Jun. 2005
11 Wash Bottles with Bottle, Screw Cap, Riser Tube and Tube Holder	VIT-LAB	1	JICA, Jun. 2005
	Soda-Lime, IDL	3	JICA, Jun. 2005
	Soda-Lime, IDL	3	JICA, Jun. 2005
14 Packing Bottle	NALGENE, IDL	60	JICA, Jun. 2005
	Deusch & Neumann	3	JICA, Jun. 2005
	Deusch & Neumann	3	JICA, Jun. 2005
15 Rubber Bulb for Small Pipette	Deusch & Neumann	3	JICA, Jun. 2005
	Deusch & Neumann	3	JICA, Jun. 2005
16 Sealing Film	KIMWIPES	2	JICA, Jun. 2005
17 Cleaning Tissue	MANUFIX	2	JICA, Jun. 2005
18 Gloves	DIN 12892, BOCHEM	2	JICA, Jun. 2005
20 Stand and Clamp	IDL, Bosshead	4	JICA, Jun. 2005
	IDL	4	JICA, Jun. 2005
21 Cleaning Agent	IDL	2	JICA, Jun. 2005
		1	JICA, Jun. 2005

IV-3 (4) Aleppo DFEA

Reagents List for Laboratory in Aleppo DFEA (Basic Water Quality Analysis)

Name of Reagent	Usage	Unit	Quantity	Remarks
pH standards, pH 4.0	pH calibration	500 ml	2	JICA, Jun. 2005
pH standards, pH 7.0	pH calibration	500 ml	2	JICA, Jun. 2005
pH standards, pH 10.0		500 ml	2	JICA, Jun. 2005
Conductivity standards, 180 µs/cm	EC&TDS calibration	100ml	1	JICA, Jun. 2005
Conductivity standards, 1,000 µs/cm		100ml	1	JICA, Jun. 2005
Conductivity standards, 18,000 µs/cm		100ml	1	JICA, Jun. 2005
Turbidity Standards Kit for 2100 P Turbidity	Turbidity calibration	500 ml for each	1	JICA, Jun. 2005
Merit (0.1, 20, 100, 800 NTU)		25 tests/PK	31	JICA, Jun. 2005
Reagents (High range 0-1,500 mg/l) for COD _{Cr}	COD _{Cr}			
Reagents for NO ₃ -N (High range, 0-30.0 mg/l)	NO ₃ -N	100 tests/PK	8	JICA, Jun. 2005
Reagents for PO ₄ ³⁻ (High range, 0-30.00 mg/l)	PO ₄ ³⁻	100 tests/PK	8	JICA, Jun. 2005
Reagents for Cl ⁻ (0-10,000 mg/l)	Cl ⁻	100 tests/set	8	JICA, Jun. 2005
Reagents for NH ₃ -N (High range, 0-50 mg/l)	NH ₃ -N	50 tests/PK	15	JICA, Jun. 2005
Nitrification Inhibitor	BOD	500g	1	JICA, Jun. 2005
BOD Nutrient Buffer Pillows	BOD	50 pillows/PK	15	JICA, Jun. 2005
BOD Seed Inoculum	BOD	50 capsules/bottle	7	JICA, Jun. 2005
NaOH Pick	BOD	1000g/PK	1	JICA, Jun. 2005
Reagents (Low range 0-150 mg/l) for COD _{Cr}	COD _{Cr}	25 tests/PK	2	JICA, Jun. 2006
Reagents for NO ₃ -N (Mid range, 0-5.0 mg/l)	NO ₃ -N	100 tests/PK	1	JICA, Jun. 2006
Reagents for PO ₄ ³⁻ (Low range, 0-2.50 mg/l)	PO ₄ ³⁻	100 tests/PK	1	JICA, Jun. 2006
Reagents for NH ₃ -N (low range, 0-2.50 mg/l)	NH ₃ -N	50 tests/PK	1	JICA, Jun. 2006
COD standard, 300 mg/l	Check COD	200 ml	1	JICA, Jun. 2006
COD standard, 1000 mg/l	Check COD	200 ml	1	JICA, Jun. 2006
NO ₃ -N standard, 1.0 mg/l	Check NO ₃ -N	500 ml	1	JICA, Jun. 2006
NO ₃ -N standard, 10.0 mg/l	Check NO ₃ -N	500 ml	1	JICA, Jun. 2006
NO ₃ -N standard, 100 mg/l	Check NO ₃ -N	500 ml	1	JICA, Jun. 2006
PO ₄ ³⁻ standard, 50 mg/l	Check PO ₄ ³⁻	500 ml	1	JICA, Jun. 2006
NH ₃ -N standard, 10 mg/l	Check NH ₃ -N	500 ml	1	JICA, Jun. 2006
NH ₃ -N standard, 50 mg/l	Check NH ₃ -N	10 ml/16 Voullette Amples	1	JICA, Jun. 2006
BOD standard, 300 mg/l	Check BOD	10 ml/16 Voullette Amples	1	JICA, Jun. 2006
BOD standard, 3000 mg/l	Check BOD	10 ml/16 Voullette Amples	1	JICA, Jun. 2006
Cl ⁻ standard, 1000 mg/l	Check Cl ⁻	500 ml	1	JICA, Jun. 2006
Bromine Water 30g/L	NO ₂ interfering (NO ₂ testing)	29 mL	1	JICA, Jun. 2006
Phenol Solution	NO ₂ interfering (NO ₂ testing)	29 mL	1	JICA, Jun. 2006
Sulfamic acid	NO ₂ interfering (PO ₄ testing)	113 g	1	JICA, Jun. 2006
Phosphate Pretreatment Powder Pillows	Turbidity and color interfering	100/pkg	1	JICA, Jun. 2006
Hydrochloric Acid, ACS	pH adjusting (NH ₃ -N, PO ₄ etc.)	500 mL	1	JICA, Jun. 2006
Sulfite Inhibitor Powder Pillows	S interfering (Cl ⁻ , NH ₃ -N testing)	100/pkg	1	JICA, Jun. 2006
Mercuric Sulfate	Cl ⁻ interfering (COD testing)	28.3 g	1	JICA, Jun. 2006
Hydrogen Peroxide, 30% ACS	Sulfite interfering (Cl ⁻ testing)	500 mL	1	JICA, Jun. 2006

IV-3 (4)Aleppo DFEA

Additional Instrument List for Laboratory in Aleppo_DFEA (Basic Water Quality Analysis)

Name of Instrument	Quantity	Remarks	Name of Instrument	Quantity	Remarks
1 White cloth, M	0	JICA, Jun. 2005	1 Plastic funnel, 12cm dia	2	JICA, Aug-Oct. 2005
L	3	JICA, Jun. 2005	2 Safety glove	1	JICA, Aug-Oct. 2005
XL	0	JICA, Jun. 2005	3 Calculator	2	JICA, Aug-Oct. 2005
2 Brush	2	JICA, Jun. 2005	4 Electronic timer	2	JICA, Aug-Oct. 2005
	2	JICA, Jun. 2005	5 Cooling box, round shape	1	JICA, Aug-Oct. 2005
3 pH paper	1	JICA, Jun. 2005	6 Water-proof boot	2	JICA, Aug-Oct. 2005
	2	JICA, Jun. 2005	7 Gloves disposable (box/100)	5	JICA, Aug-Oct. 2005
4 Tube support rack	1	JICA, Jun. 2005	8 Plastic beaker, 1 liter with hand	1	JICA, Aug-Oct. 2005
5 Drying rack	1	JICA, Jun. 2005	9 Water tank, 5 liter w/2 hoses	2	JICA, Aug-Oct. 2005
6 Temp., humidity and barometric pressure meter	1	JICA, Jun. 2005	10 Water tank, 20 liter w/2 hoses	2	JICA, Aug-Oct. 2005
7 Temperature meter	2	JICA, Jun. 2005	11 Distilled water tank, 10 liter with taps	1	JICA, Aug-Oct. 2005
8 Long-handled dipper	1	JICA, Jun. 2005	12 Scissors	2	JICA, Aug-Oct. 2005
9 Weight boats	18 sheet	JICA, Jun. 2005	13 Canon cutter	2	JICA, Aug-Oct. 2005
	18 sheet	JICA, Jun. 2005	14 Meter (5 meters)	2	JICA, Aug-Oct. 2005
10 Spatula-spoon	1	JICA, Jun. 2005	15 Pipette filler 2ml	1	JICA, Aug-Oct. 2005
11 Trays	2	JICA, Jun. 2005	16 Pipette filler 10ml	1	JICA, Aug-Oct. 2005
12 Bucket with spout	1	JICA, Jun. 2005	17 Pipette filler 25ml	1	JICA, Aug-Oct. 2005
13 Rope	5	JICA, Jun. 2005	18 Plastic cylinder 1000ml	1	JICA, Aug-Oct. 2005
14 Vinyl tape	1	JICA, Jun. 2005	19 Plastic cylinder 500ml	1	JICA, Aug-Oct. 2005
15 Oil pen	2	JICA, Jun. 2005	20 Plastic beaker 500ml	1	JICA, Aug-Oct. 2005
16 Safety gloves	1	JICA, Jun. 2005	21 Glass beaker 1 liter	2	JICA, Aug-Oct. 2005
17 Cotton work gloves	5	JICA, Jun. 2005	22 Glass beaker 600ml	2	JICA, Aug-Oct. 2005
18 Waterproof boots	1	JICA, Jun. 2005	23 Pipetting ball w/2 valves	2	JICA, Aug-Oct. 2005
19 Cold reserving material	12	JICA, Jun. 2005	24 Field battery light, plastic	1	JICA, Aug-Oct. 2005
20 File with clip	2	JICA, Jun. 2005	25 Forceps	2	JICA, Aug-Oct. 2005
			26 Rope 27 meters	1	JICA, Aug-Oct. 2005
			27 Cotton cap	4	JICA, Aug-Oct. 2005
			28 Spatula spoon	2	JICA, Aug-Oct. 2005
			29 Half mask with filter for gases	1	JICA, Aug-Oct. 2005
			30 Yellow tips for micro pipette	70	JICA, Aug-Oct. 2005
			31 Oil pen	3	JICA, Aug-Oct. 2005
			32 Vinyl tape	5	JICA, Aug-Oct. 2005
			33 Sampler 3 meters split h	1	JICA, Aug-Oct. 2005
			34 Trays 270 x 270 x 120 mm	1	JICA, Aug-Oct. 2005
			35 Trays 450 x 320 x 150 mm	1	JICA, Aug-Oct. 2005
			36 Rechargeable battery	30	JICA, Aug-Oct. 2005
			37 Battery charger	1	JICA, Aug-Oct. 2005
			38 Sulfuric acid, 1 liter	1	JICA, Aug-Oct. 2005
			39 Formic acid, 1 liter	1	JICA, Aug-Oct. 2005
			40 Acetic acid, 1 liter	1	JICA, Aug-Oct. 2005
			41 Paper filter, 15cm dia. (box/100)	2	JICA, Aug-Oct. 2005
			42 Cell for DR/890	10	JICA, Aug-Oct. 2005

IV-3 (4)Aleppo DFEA

Equipment to be Provided to the DFEAs of Damascus, Homs and Aleppo for Air Quality Analysis

Air Quality Monitoring Equipment

Q'ty	Usage	Name of Equipment
4	Collection of TSP	TSP High Volume Air Sampler
1	(Option: Flow calibration)	
4	Collection of PM-10	PM10 High Volume Air Sampler
4	Collection of PM-10	Low Volume Air Sampler
4	Collection of toxic gas elements	Handy Sampler
Meteorological instrument: Weather station		
3	Weather observation	Wind Direction & Speed Meter
3	Weather observation	Thermometer / Hygrometer
3	Weather observation	Solar radiation meter
3	Weather observation	Photovoltaic generation system
1	Weather observation	Asman ventilation psychrometer
Laboratory equipment		
1	For the samples and the reagents	Micro Balance
2	For the samples and the reagents	Refrigerator
1	For the samples and the reagents	Auto-dry desiccators
2	For the reagents	Locker for reagents
1	Analysis of toxic substance	UV/VIS Spectrometer

IV-3 (4) Aleppo DFEA

Equipment to be Provided to Aleppo DFEA for Air Quality Analysis
by JICA

NO	Name	Unit	Qty
1	Acetic acid (CH ₃ COOH)	2.5 L	1
2	Sulfanilic acid (H ₂ NC ₆ H ₄ SO ₃ H)	100g	1
3	N-(1-Naphthyl) ethylenediamine analysis (C10H7NHCH2CH2NH2-2H2O) For NOx	25g	1
4	Potassium permanganate For NOx analysis (KMnO ₄)	1 kg	1
5	Sulfuric acid (H ₂ SO ₄)	2.5 L	1
6	Sodium nitrite (NaNO ₂)	500g	1
7	Chloroform, certified (CHCl ₃)	2.5 L	1
8	Barium hydroxide octahydrate (Ba(OH) ₂ · 8H ₂ O)	500g	1
9	Triethanol amine (N(CH ₂ CH ₂ OH) ₃)	500ml	1
10	Sodium azide (NaN ₃)	100g	1
12	Hydrochloric acid (HCl)	2.5 L	1
13	Formaldehyde	2.5 L	1
14	Sodium hydrogen sulfite 40% Solution (NaHSO ₃)	1.0L	1
15	Iodine (0.1 N)	500ml	1
16	Sodium sulfate (Na ₂ SO ₄)	500g	1
17	Mercury (II) chloride (HgCl ₂)	500g	1
18	Sodium chlorate (NaClO ₃)	1 kg	1
19	Glycerin (HOCH ₂ CHOHCH ₂ OH)	1 L	2
20	Starch, soluble (C ₆ H ₁₀ O ₅) _n	1 kg	1
21	Mercury (II) iodide, red (HgI ₂)	100g	1
22	Sodium thiosulfate pentahydrate (Na ₂ S ₂ O ₃ · 5H ₂ O)	1 kg	1
23	Potassium iodate (KIO ₃)	100g	1
24	Potassium iodide (KI)	1 kg	1
25	Hydrochloric acid (1 N) (1N-HCL)	1 L	1
26	Sodium fluoride (NaF)	500g	0
27	Lanthanum nitrate hexahydrate (La(NO ₃) ₃ · 6H ₂ O)	25g	0
28	Alizarin complexone dihydrate, indicator grade (C19H15NO8·2H2O)	1g	0
29	Silicon dioxide (SiO ₂)	500g	0
30	Phosphoric acid (H3PO4)	2.5L	0
31	Phenolphthalein (C20H14O4)	100g	0
32	Perchloric acid (HClO ₄)	1 L	0
33	Sodium hydroxide, pellets (NaOH)	1 kg	0
34	Ammonia solution, 25% (NH ₄ OH)	2.5 L	0
35	Ammonium acetate, >98% (CH ₃ COONH ₄)	500g	0
36	Sodium acetate, trihydrate (CH ₃ COONa · 3H ₂ O)	500g	0
37	Acetone (CH ₃ COCH ₃)	2.5 L	1
38	Potassium dihydrogenophosphate, for Ox analysis (KH ₂ PO ₄)	500g	0
39	Disodium hydrogen phosphate-12water (Na ₂ HPO ₄ ·12H ₂ O)	1 kg	0
40	Potassium iodide (KI)	1 kg	0
41	Iodine (I)	500g	0
42	Nessler's reagent	500ml	1
43	Methylene blue	100g	1
44	Phosphoric Acid (H3PO4)	2.5 L	1
45	Sulfanilamide (H2NC6H4SO2NH2)	500g	1

IV-3 (4) Aleppo DFEA

Equipment to be Provided to Aleppo DFEA for Air Quality Analysis
by JICA

No.	Name	Kind	Qty	No.	Name	Kind	Qty
1	Whole Pipettes	6	21	51	Octagon rotator	4	20
2	Graduated pipettes	3	9	52	Rotator taking out stick	1	1
3	Pipette Fillers (Germany)	1	1	53	Weighing Paper	2	2
4	Ceramic mortar	1	1	55	Vacuum Pump	1	1
5	Beakers	7	32	58	Glass fiber filter paper*1	1	2
6	Volumetric Flasks	6	19	59-1	Quartz fiber filter paper*1	1	1
7	Erlenmeyer Flasks	5	18	59-2	Glass fiber filter paper*1	1	2
8	Erlenmeyer Flasks with Ground Joints	4	17	60	Membrane filter	1	2
9	Graduated Cylinders	5	9	61	pH Paper	1	2
10	Watch Dish	5	10	65	Pipet container	1	1
11	Wash Bottles with Bottle, Screw Cap, Riser Tube and Tube Holder	2	6	66	Pipet support	1	1
12	Beaker with handle	1	1	67	Stand for micro pipet	1	1
13	Test Tube with stopper	1	1	69	Waste water container	2	16
14	Stainless Spoon	1	1	71	Flask filtering	1	1
15	Funnels	2	10	73	Seal tape	1	2
16	Glass rods	2	4	74	Paraffin film	1	2
17	Glass tube	1	2	76	Pipet cleaner	1	1
18	Stopcock	1	1	77	Brush	4	8
19	Pinchhook	1	5	78	Boying Staff (Staff for the glass apparatus dymess)	1	1
20	Screw Cook	1	5	79	Color comparison tubes	2	14
21	Stopwatch	1	5	80	Tube support	1	1
22	Micro pipet	2	2	81	Pasteur Pipette	2	2
23	Chip for micro pipet	2	2	85	Dropping Bottle	2	3
24	Thermometer	2	2	86	Crucible	2	20
25	Beaker tongs	1	1	87	Porcelain dish tongs	1	1
26	Cork borer	1	1	89	Standard Sieve	1	1
27	Muff	1	10	90	Weighing Bottle	1	5
28	Jumbo muff	1	5	91	Desiccator	1	1
29	Clamps	2	10	92	Conical beaker	1	10
30	Tweezers	1	2	94	Bottle for sample collection	1	20
31	Vacuum hose	1	1	95	Rubber Bulb for Small Pipette	2	4
32	Rubber tube	1	1	95	Vinyl-methyl Silicon rubber for graduated pipettes (10ml)	1	2
33	Silicon rubber tube	1	2	96	Cleaning Tissue	1	1
34	Silicon rubber tube	1	2	98	Goggles	1	2
35	Tube joint	3	3	99	Cleaning Agent	1	1
36	Support for test tubes	1	1	100	Burret	2	4
37	Stopper (silicon rubber)	6	12	101	Burret stand	1	1
38				102	Dust jar	1	8

IV-3 (5)Homs DFEA

Equipment List in Homs DFEA

Name of Equipment	Manufacture	Model	Quantity	Remarks
1 Portable Colorimeter Kit	HACH	CEL/890	1	JICA, Jun. 2005
2 Portable pH and Temp. Meter	HACH	sensION 1	1	JICA, Jun. 2005
3 Portable EC and TDS Meter	HACH	sensION 5	1	JICA, Jun. 2005
4 Portable DO Meter	HACH	sensION 6	1	JICA, Jun. 2005
5 Portable Turbidity Meter	HACH	2100P	1	JICA, Jun. 2005
6 COD Reactor	HACH	DRB 200-1	1	JICA, Jun. 2005
7 Digital Titrator	HACH	16900	1	JICA, Jun. 2005
8 Stirring platform for BOD Analysis	WTW	OxiTop IS12	2	JICA, Jun. 2005
9 BOD bottle with OxiTop measuring head	WTW	-	24	JICA, Jun. 2005
10 Incubator	WTW	TS 606/2i	1	JICA, Jun. 2005
11 Analytical Balance	Sartorius	CP324S	1	JICA, Jun. 2005
12 Table for Balance	Sartorius	YWT03	1	JICA, Jun. 2005
13 Pure Water Unit	GFL	2001/4	1	JICA, Jun. 2005
14 Desktop Computer+UPS	Mall Tech	CMAX PC1	1	JICA, Jun. 2005
15 Printer	Hewlett-Packard	1010	1	JICA, Jun. 2005
16 Digital Camera	Kodak	CX7330	1	JICA, Jun. 2005
17 Special Pipette Containers	-	-	1	JICA, Jun. 2005
18 Tank for Liquid Wastes	-	-	2	JICA, Jun. 2005
19 Ice Box for sampling	-	-	2	JICA, Jun. 2005
20 Refrigerator	Local	-	1	JICA, Apr. 2006

IV-3 (5)Homs DFEA

Glassware List for Laboratory in Homs DFEA (Basic Water Quality Analysis)

Name of Glassware	Model	Quantity	Remarks
1 Whole Pipettes	BRAND (1ml)	2	JICA, Jun. 2005
	BRAND (2ml)	2	JICA, Jun. 2005
	BRAND (5ml)	3	JICA, Jun. 2005
	BRAND (10ml)	3	JICA, Jun. 2005
	BRAND (20ml)	2	JICA, Jun. 2005
	BRAND (50ml)	2	JICA, Jun. 2005
	BRAND (100ml)	1	JICA, Jun. 2005
2 Graduated pipettes	BRAND (1ml)	3	JICA, Jun. 2005
	BRAND (5ml)	3	JICA, Jun. 2005
	BRAND (10ml)	3	JICA, Jun. 2005
3 Pipette Fillers	Micro Pipette Filler	2	JICA, Jun. 2005
	Pipette Filler	2	JICA, Jun. 2005
4 Graduated beakers	PMP (50ml)	2	JICA, Jun. 2005
	PMP (100ml)	2	JICA, Jun. 2005
	PMP (150ml)	2	JICA, Jun. 2005
	PMP (250ml)	2	JICA, Jun. 2005
5 Volumetric Flasks	Hirschman (25ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	2	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (200ml)	2	JICA, Jun. 2005
	Hirschman (25ml)	2	JICA, Jun. 2005
6 Volumetric Flasks	Hirschman (50ml)	2	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (200ml)	2	JICA, Jun. 2005
	Hirschman (250ml)	2	JICA, Jun. 2005
7 Erlenmeyer Flasks	NALGENE, IDL (125ml)	3	JICA, Jun. 2005
	NALGENE, IDL (250ml)	3	JICA, Jun. 2005
	NALGENE, IDL (500ml)	2	JICA, Jun. 2005
8 Erlenmeyer Flasks with Ground Joints	Retberg (100ml)	2	JICA, Jun. 2005
	Retberg (200ml)	2	JICA, Jun. 2005
	Retberg (300ml)	2	JICA, Jun. 2005
	Retberg (500ml)	2	JICA, Jun. 2005
9 Stopper	Hirschman (50ml)	6	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
10 Graduated Cylinders	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (250ml)	2	JICA, Jun. 2005
11 Wash Bottles with Bottle, Screw Cap, Riser Tube and Tube Holder	NALGENE, IDL	3	JICA, Jun. 2005
	VIT-LAB	1	JICA, Jun. 2005
	Soda-Lime, IDL	3	JICA, Jun. 2005
13 Funnels	Soda-Lime, IDL	3	JICA, Jun. 2005
	NALGENE, IDL	60	JICA, Jun. 2005
14 Packing Bottle	Deutsch & Neumann	3	JICA, Jun. 2005
	Deutsch & Neumann	3	JICA, Jun. 2005
	Deutsch & Neumann	3	JICA, Jun. 2005
16 Sealing Film	KIMWIPES	2	JICA, Jun. 2005
	MANUFIX	2	JICA, Jun. 2005
17 Cleaning Tissue	KIMWIPES	2	JICA, Jun. 2005
	MANUFIX	2	JICA, Jun. 2005
18 Gloves	KIMWIPES	2	JICA, Jun. 2005
	MANUFIX	2	JICA, Jun. 2005
19 Goggles	KIMWIPES	2	JICA, Jun. 2005
	MANUFIX	2	JICA, Jun. 2005
20 Stand and Clamp	DIN 12892, BOCHEM	2	JICA, Jun. 2005
	IDL, Bosshead	4	JICA, Jun. 2005
	IDL	4	JICA, Jun. 2005
	IDL	4	JICA, Jun. 2005
21 Cleaning Agent	KIMWIPES	2	JICA, Jun. 2005
	MANUFIX	1	JICA, Jun. 2005

IV-3 (5)Homs DFEA

Reagents List for Laboratory in Homs DFEA (Basic Water Quality Analysis)

Name of Reagent	Usage	Unit	Quantity	Remarks
pH standards, pH 4.01	pH calibration	500 ml	2	JICA, Jun. 2005
pH standards, pH 7.00		500 ml	2	JICA, Jun. 2005
pH standards, pH 10.00		500 ml	2	JICA, Jun. 2005
Conductivity standards, 180 µs/cm	EC&TDS calibration	100ml	1	JICA, Jun. 2005
Conductivity standards, 1,000 µs/cm		100ml	1	JICA, Jun. 2005
Conductivity standards, 18,000 µs/cm		100ml	1	JICA, Jun. 2005
Turbidity Standards Kit for 2.100 NTU	Turbidity calibration	500 ml for each	1	JICA, Jun. 2005
Water (0.1, 20, 100, 800 NTU)				
Reagents (High range 0-1,500 mg/l) for COD _{Cr}	COD _{Cr}	25 tests/PK	31	JICA, Jun. 2005
Reagents for NO ₃ ⁻ -N (High range, 0-30.0 mg/l)	NO ₃ ⁻ -N	100 tests/PK	8	JICA, Jun. 2005
Reagents for PO ₄ ³⁻ (High range, 0-30.00 mg/l)	PO ₄ ³⁻	100 tests/PK	8	JICA, Jun. 2005
Reagents for Cl ⁻ (0-10,000 mg/l)	Cl ⁻	100 tests/set	8	JICA, Jun. 2005
Reagents for NH ₄ ⁺ -N (High range, 0-50 mg/l)	NH ₄ ⁺ -N	50 tests/PK	15	JICA, Jun. 2005
Nitrification Inhibitor	BOD	500g	1	JICA, Jun. 2005
BOD Nutrient Buffer Pillows	BOD	50 pillows/PK	15	JICA, Jun. 2005
BOD Seed Inoculum	BOD	50 capsules/bottle	7	JICA, Jun. 2005
NaOH Pack	BOD	1000g/PK	1	JICA, Jun. 2005
Reagents (Low range 0-150 mg/l) for COD _{Cr}	COD _{Cr}	25 tests/PK	2	JICA, Jun. 2006
Reagents for NO ₃ ⁻ -N (Mid range, 0-5.0 mg/l)	NO ₃ ⁻ -N	100 tests/PK	1	JICA, Jun. 2006
Reagents for PO ₄ ³⁻ (Low range, 0-2.50 mg/l)	PO ₄ ³⁻	100 tests/PK	1	JICA, Jun. 2006
Reagents for NH ₄ ⁺ -N (low range, 0-2.50 mg/l)	NH ₄ ⁺ -N	50 tests/PK	1	JICA, Jun. 2006
COD standard, 300 mg/l	Check COD	200 ml	1	JICA, Jun. 2006
COD standard, 1000 mg/l	Check COD	200 ml	1	JICA, Jun. 2006
NO ₃ ⁻ -N standard, 1.0 mg/l	Check NO ₃ ⁻ -N	500 ml	1	JICA, Jun. 2006
NO ₃ ⁻ -N standard, 10.0 mg/l	Check NO ₃ ⁻ -N	500 ml	1	JICA, Jun. 2006
NO ₃ ⁻ -N standard, 100 mg/l	Check NO ₃ ⁻ -N	500 ml	1	JICA, Jun. 2006
PO ₄ ³⁻ standard, 50 mg/l	Check PO ₄ ³⁻	500 ml	1	JICA, Jun. 2006
NH ₄ ⁺ -N standard, 10 mg/l	Check NH ₄ ⁺ -N	500 ml	1	JICA, Jun. 2006
NH ₄ ⁺ -N standard, 50 mg/l	Check NH ₄ ⁺ -N	10 ml/16 Vialette Amples	1	JICA, Jun. 2006
BOD standard, 300 mg/l	Check BOD	10 ml/16 Vialette Amples	1	JICA, Jun. 2006
BOD standard, 3000 mg/l	Check BOD	10 ml/16 Vialette Amples	1	JICA, Jun. 2006
Cl ⁻ standard, 1000 mg/l	Check Cl ⁻	500 ml	1	JICA, Jun. 2006
Bromine Water 30g/L	NO ₂ interfering (NO ₂ testing)	29 mL	1	JICA, Jun. 2006
Phenol Solution	NO ₂ interfering (NO ₂ testing)	29 mL	1	JICA, Jun. 2006
Sulfamic acid	NO ₂ interfering (PO ₄ testing)	113 g	1	JICA, Jun. 2006
Phosphate Pretreatment Powder Pillows	Turbidity and color interfering	100/pkg	1	JICA, Jun. 2006
Hydrochloric Acid, ACS	pH adjusting (NH ₄ ⁺ -N, PO ₄ ³⁻ , etc.)	500 mL	1	JICA, Jun. 2006
Sulfide Inhibitor Powder Pillows	S interfering (Cl ⁻ , NH ₄ ⁺ -N testing)	100/pkg	1	JICA, Jun. 2006
Mercuric Sulfate	Cl ⁻ interfering (COD testing)	28.3 g	1	JICA, Jun. 2006
Hydrogen Peroxide, 30% ACS	Sulfite interfering (Cl ⁻ testing)	500 mL	1	JICA, Jun. 2006

IV-3 (5)Homs DFEA

Additional Instrument List for Laboratory in Homs DFEA (Basic Water Quality Analysis)

Name of Instrument	Quantity	Remarks	Name of Instrument	Quantity	Remarks
1 White cloth, M	4	JICA, Jun. 2005	1 Plastic funnel, 12cm dia	2	JICA, Aug-Oct. 2005
L	2	JICA, Jun. 2005	2 Safety glove	1	JICA, Aug-Oct. 2005
XL	0	JICA, Jun. 2005	3 Calculator	2	JICA, Aug-Oct. 2005
2 Brush	2	JICA, Jun. 2005	4 Electronic liner	2	JICA, Aug-Oct. 2005
	2	JICA, Jun. 2005	5 Cooling box, round shape	1	JICA, Aug-Oct. 2005
	1	JICA, Jun. 2005	6 Water-proof boot	2	JICA, Aug-Oct. 2005
3 pH paper	2	JICA, Jun. 2005	7 Gloves disposable (box/100)	5	JICA, Aug-Oct. 2005
4 Tube support rack	1	JICA, Jun. 2005	8 Plastic beaker, 1 liter with hand	1	JICA, Aug-Oct. 2005
5 Drying rack	1	JICA, Jun. 2005	9 Water tank, 5 liter w/2 hoses	2	JICA, Aug-Oct. 2005
6 Temp., humidity and barometric pressure meter	1	JICA, Jun. 2005	10 Water tank, 20 liter w/2 hoses	2	JICA, Aug-Oct. 2005
7 Temperature meter	2	JICA, Jun. 2005	11 Distilled water tank, 10 liter with tap	1	JICA, Aug-Oct. 2005
8 Long-handled dipper	1	JICA, Jun. 2005	12 Scissors	2	JICA, Aug-Oct. 2005
9 Weight boats	18 sheet	JICA, Jun. 2005	13 Carton cutter	2	JICA, Aug-Oct. 2005
	2	JICA, Jun. 2005	14 Meter (5 meters)	2	JICA, Aug-Oct. 2005
10 Spatula-spoon	1	JICA, Jun. 2005	15 Pipette filler 2ml	1	JICA, Aug-Oct. 2005
11 Trays	1	JICA, Jun. 2005	16 Pipette filler 10ml	1	JICA, Aug-Oct. 2005
12 Bucket with spout	2	JICA, Jun. 2005	17 Pipette filler 25ml	1	JICA, Aug-Oct. 2005
	1	JICA, Jun. 2005	18 Plastic cylinder 1000ml	1	JICA, Aug-Oct. 2005
13 Rope	5	JICA, Jun. 2005	19 Plastic cylinder 500ml	1	JICA, Aug-Oct. 2005
14 Vinyl tape	2	JICA, Jun. 2005	20 Plastic beaker 500ml	1	JICA, Aug-Oct. 2005
15 Oil pen	1	JICA, Jun. 2005	21 Glass beaker 1 liter	2	JICA, Aug-Oct. 2005
16 Safety gloves	5	JICA, Jun. 2005	22 Glass beaker 600ml	2	JICA, Aug-Oct. 2005
17 Cotton work gloves	1	JICA, Jun. 2005	23 Pipetting ball w/2 valves	2	JICA, Aug-Oct. 2005
18 Waterproof boots	1	JICA, Jun. 2005	24 Field battery light, plastic	1	JICA, Aug-Oct. 2005
19 Cold reserving material	12	JICA, Jun. 2005	25 Forceps	2	JICA, Aug-Oct. 2005
20 File with clip	2	JICA, Jun. 2005	26 Rope 77 meters	1	JICA, Aug-Oct. 2005
21 Generator	1	JICA, Mar. 2006	27 Cotton cap	4	JICA, Aug-Oct. 2005
			28 Spatula spoon	2	JICA, Aug-Oct. 2005
			29 Half mask with filter for gases	1	JICA, Aug-Oct. 2005
			30 Yellow tips for micro pipette	70	JICA, Aug-Oct. 2005
			31 Oil pen	3	JICA, Aug-Oct. 2005
			32 Vinyl tape	5	JICA, Aug-Oct. 2005
			33 Sampler 3 meters split h	1	JICA, Aug-Oct. 2005
			34 Trays 270 x 270 x 120 mm	1	JICA, Aug-Oct. 2005
			35 Trays 450 x 320 x 150 mm	1	JICA, Aug-Oct. 2005
			36 Rechargeable battery	30	JICA, Aug-Oct. 2005
			37 Battery charger	1	JICA, Aug-Oct. 2005
			38 Sulfuric acid, 1 liter	1	JICA, Aug-Oct. 2005
			39 Formic acid, 1 liter	1	JICA, Aug-Oct. 2005
			40 Acetic acid, 1 liter	1	JICA, Aug-Oct. 2005
			41 Paper filter, 15cm dia. (box/100)	2	JICA, Aug-Oct. 2005
			42 Cell for DR/890	10	JICA, Aug-Oct. 2005

IV-3 (5)Homs DFEA

Equipment to be Provided to Homs DFEA for Air Quality Analysis by JICA

Air Quality Monitoring Equipment

Name of Equipment	Usage	Q'ty
TSP High Volume Air Sampler	Collection of TSP	4
1-1	(Option: Flow calibration)	1
2-1 PM10 High Volume Air Sampler	Collection of PM-10	4
2-2 Low Volume Air Sampler	Collection of PM-10	4
3-1 Handy Sampler	Collection of toxic gas elements	4

Meteorological instrument: Weather station

4-1 Wind Direction & Speed Meter	Weather observation	
4-2 Thermometer / Hygrometer	Weather observation	3
4-3 Solar radiation meter	Weather observation	
4-4 Photovoltaic generation system	Weather observation	
5-1 Asman ventilation psychrometer	Weather observation	1

Laboratory equipment

6-1 Micro Balance	For the samples and the reagents	1
6-2 Refrigerator	For the samples and the reagents	2
6-3 Auto-dry desiccators	For the samples and the reagents	1
6-4 Locker for reagents	For the reagents	2
6-5 UV/VIS Spectrometer	Analysis of toxic substance	1

IV-3 (5)Homs DFEA

Equipment to be Provided to Homs DFEA for Air Quality Analysis by JICA
Glassware

No.	Name	Kind	Q'ty	No.	Name	Kind	Q'ty
1	Whole Pipettes	6	21	51	Octagon rotator	4	20
2	Graduated pipettes	3	9	52	Rotator taking out stick	1	1
3	Pipette Fillers (Germany)	1	1	53	Weighing Paper	2	2
	(Rubber Pipetter)	1	2	55	Vacuum Pump	1	1
4	Ceramic mortar	1	1	58	Glass fiber filter paper*1	1	2
5	Beakers	7	32	59-1	Quartz fiber filter paper*1	1	1
6	Volumetric Flasks	6	19	59-2	Glass fiber filter paper*1	1	2
11-1	Erlenmeyer Flasks	5	18	60	Membrane filter	1	2
11-2	Erlenmeyer Flasks with Ground Joints	4	17	61	pH Paper	1	2
12	Graduated Cylinders	5	9	65	Pipet container	1	1
14	Watch Dish	5	10	66	Pipet support	1	1
16	Wash Bottles with Bottle, Screw Cap, Riser Tube and Tube Holder	2	6	67	Stand for micro pipet	1	1
17	Beaker with handle	1	1	69	Waste water container	2	16
20	Test Tube with stopper	1	1	71	Flask filtering	1	1
21	Stainless Spoon	1	1	73	Seal tape	1	2
22	Funnels	2	10	74	Paraffin film	1	2
23	Glass rods	2	4	76	Pipet cleaner	1	1
24	Glass tube	1	2	77	Brush	4	8
25	Stoppcock	1	1	78	Boring stiff (sheet for the glass apparatus dryness)	1	1
26	Pinhook	1	5	79	Color comparison tubes	2	14
27	Screw Cook	1	5	80	Tube support	1	1
28	Stopwatch	1	1	81	Pasteur Pipette	2	2
30	Micro pipet	2	2	85	Dropping Bottle	2	3
31	Chip for micro pipet	2	2	86	Crucible	2	20
35	Thermometer	1	1	87	Porcelain dish tongs	1	1
36	Beaker tongs	1	1	89	Standard Sieve	1	1
39	Cork borer	1	1	90	Weighing Bottle	1	5
40	Muff	1	10	91	Desiccator	1	1
41	Jumbo muff	1	5	92	Conical beaker	1	10
42	Clamps	2	10	94	Bottle for sample collection	1	20
43	Tweezers	1	2		Rubber Bulb for Small Pipette	2	4
44	Vacuum hose	1	1	95	Vinyl-methyl Silicon rubber for graduated pipettes (10ml)	1	2
45	Rubber tube	1	1	96	Cleaning Tissue	1	1
46	Silicon rubber tube	1	2	98	Goggles	1	2
46	Silicon rubber tube	1	1	99	Cleaning Agent	1	1
48	Tube joint	3	3	100	Burret	2	4
49	Support for test tubes	1	1	101	Burret stand	1	1
50	Stopper (silicon rubber)	6	12	102	Dust jar	1	8

IV-3 (6) Hama DFEA

Equipment List in Hama DFEA (Basic Water Quality Analysis)

Name of Equipment	Manufacture	Model	Quantity	Remarks
1 Portable Colorimeter Kit	HACH	CEL/890	1	JICA, Jun. 2005
2 Portable pH and Temp. Meter	HACH	sensON 1	1	JICA, Jun. 2005
3 Portable EC and TDS Meter	HACH	sensON 5	1	JICA, Jan. 2005
4 Portable DO Meter	HACH	sensON 6	1	JICA, Jun. 2005
5 Portable Turbidity Meter	HACH	2100P	1	JICA, Jun. 2005
6 COD Reactor	HACH	DRB-200-1	1	JICA, Jun. 2005
7 Digital Titrator	HACH	16900	1	JICA, Jun. 2005
8 Stirring platform for BOD Analysis	WTW	OxiTop IS12	2	JICA, Jun. 2005
9 BOD bottle with OxiTop measuring head	WTW	-	24	JICA, Jun. 2005
10 Incubator	WTW	TS 606/2i	1	JICA, Jun. 2005
11 Analytical Balance	Sartorius	CP324S	1	JICA, Jun. 2005
12 Table for Balance	Sartorius	YWT03	1	JICA, Jun. 2005
13 Pure Water Unit	GFL	2001/4	1	JICA, Jun. 2005
14 Desktop Computer+UPS	Mall Tech	CMAX PC1	1	JICA, Jun. 2005
15 Printer	Hewlett-Packard	1010	1	JICA, Jun. 2005
16 Digital Camera	Kodak	CX7330	1	JICA, Jun. 2005
17 Special Pipette Containers	-	-	1	JICA, Jun. 2005
18 Tank for Liquid Wastes	-	-	2	JICA, Jun. 2005
19 Ice Box for sampling	-	-	2	JICA, Jun. 2005
20 Refrigerator	Local	-	1	JICA, Apr. 2006

IV-3 (5) Homs DFEA

Equipment to be Provided to Homs DFEA for Air Quality Analysis

by JICA
Reagent

NO	Name	Unit	Qty
1	Acetic acid (CH ₃ COOH)	2.5 L	1
2	Sulfanilic acid (H ₂ NC ₆ H ₄ SO ₃ H)	100g	1
3	N-(1-Naphthyl) ethylenediamine dihydrochloride For NOx analysis (C ₁₀ H ₇ NHCH ₂ CH ₂ NH ₂ ·2H ₂ O)	25g	1
4	Potassium permanganate For NOx analysis (KMnO ₄)	1 kg	1
5	Sulfuric acid (H ₂ SO ₄)	2.5 L	1
6	Sodium nitrite (NaNO ₂)	500g	1
7	Chloroform, certified (CHCl ₃)	2.5 L	1
8	Barium hydroxide octahydrat (Ba(OH) ₂ · 8H ₂ O)	500g	1
9	Trichloro aniline (N(CH ₃ CH ₂ OH) ₃)	500ml	1
10	Sodium azide (NaN ₃)	100g	1
12	Hydrochloric acid (HCL)	2.5 L	1
13	Formaldehyde	2.5 L	1
14	Sodium hydrogen sulfite 40% Solution (NaHSO ₃)	1.0L	1
15	Iodine (0.1 N)	500ml	1
16	Sodium sulfate (Na ₂ SO ₄)	500g	1
17	Mercury (II) chloride (HgCl ₂)	500g	1
18	Sodium chloride (NaCl)	1 kg	1
19	Glycerin (HOCH ₂ CHOHCH ₂ OH)	1 L	2
20	Starch, soluble (C ₆ H ₁₀ O ₅) _n	1 kg	1
21	Mercury (II) iodide, red (HgI ₂)	100g	1
22	Sodium thiosulfate pentahydrate (Na ₂ S ₂ O ₃ · 5H ₂ O)	1 kg	1
23	Potassium iodate (KIO ₃)	100g	1
24	Potassium iodide (KI)	1 kg	1
25	Hydrochloric acid (1 N) (IN-HCL)	1 L	1
26	Sodium fluoride (NaF)	500g	3
27	Lanthanum nitrate hexahydrate (La(NO ₃) ₃ · 6H ₂ O)	25g	1
28	Alizarin complexone dihydrate, indicator grade (C ₁₉ H ₁₅ N ₃ O ₈ ·2H ₂ O)	1g	1
29	Silicon dioxide (SiO ₂)	500g	1
30	Phosphoric acid (H ₃ PO ₄)	2.5L	1
31	Phenolphthalein (C ₂₀ H ₁₄ O ₄)	100g	1
32	Perchloric acid (HClO ₄)	1 L	1
33	Sodium hydroxide, pellets (NaOH)	1 kg	1
34	Ammonia solution, 25% (NH ₄ OH)	2.5 L	1
35	Ammonium acetate, >98% (CH ₃ COONH ₄)	500g	1
36	Sodium acetate, trihydrate (CH ₃ COONa · 3H ₂ O)	500g	1
37	Acetone (CH ₃ COCH ₃)	2.5 L	1
38	Potassium dihydrogenphosphat, for Ox analysis (KH ₂ PO ₄)	500g	1
39	Dipotassium hydrogen phosphate-12water (Na ₂ HPO ₄ · 12H ₂ O)	1 kg	1
40	Potassium iodide (KI)	1 kg	1
41	Iodine (I)	500g	1
42	Nessler's reagent	500ml	1
43	Methylene blue	100g	1
44	Phosphoric Acid (H ₃ PO ₄)	2.5 L	1
45	Sulfanilamide (H ₂ NC ₆ H ₄ SO ₂ NH ₂)	500g	1

IV-3 (6)Hama DFEA

Glassware List for Laboratory in Hama DFEA (Basic Water Quality Analysis)

Name of Glassware	Model	Quantity	Remarks
1 Whole Pipettes	BRAND (1ml)	2	JICA, Jun. 2005
	BRAND (2ml)	2	JICA, Jun. 2005
	BRAND (5ml)	3	JICA, Jun. 2005
	BRAND (10ml)	3	JICA, Jun. 2005
	BRAND (20ml)	2	JICA, Jun. 2005
	BRAND (50ml)	2	JICA, Jun. 2005
	BRAND (100ml)	1	JICA, Jun. 2005
	BRAND (1ml)	3	JICA, Jun. 2005
	BRAND (5ml)	3	JICA, Jun. 2005
	BRAND (10ml)	3	JICA, Jun. 2005
3 Pipette Fillers	Micro Pipette Filler	2	JICA, Jun. 2005
4 Graduated beakers	Pipette Filler	2	JICA, Jun. 2005
	PMP (50ml)	2	JICA, Jun. 2005
	PMP (100ml)	2	JICA, Jun. 2005
	PMP (150ml)	2	JICA, Jun. 2005
5 Volumetric Flasks	PMP (250ml)	2	JICA, Jun. 2005
	Hirschman (25ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	2	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (200ml)	2	JICA, Jun. 2005
6 Volumetric Flasks	Hirschman (25ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	2	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (200ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	2	JICA, Jun. 2005
7 Erlenmeyer Flasks	Hirschman (25ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	2	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (200ml)	2	JICA, Jun. 2005
8 Erlenmeyer Flasks with Ground Joints	NALGENE, IDL (125ml)	3	JICA, Jun. 2005
	NALGENE, IDL (250ml)	3	JICA, Jun. 2005
	NALGENE, IDL (500ml)	2	JICA, Jun. 2005
	Retberg (100ml)	2	JICA, Jun. 2005
9 Stopper	Retberg (200ml)	2	JICA, Jun. 2005
	Retberg (300ml)	2	JICA, Jun. 2005
10 Graduated Cylinders	Hirschman (50ml)	6	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (250ml)	2	JICA, Jun. 2005
11 Wash Bottles with Bottle, Screw Cap, Riser Tube and Tube Holder	NALGENE, IDL	3	JICA, Jun. 2005
	VIT-LAB	1	JICA, Jun. 2005
12 Graduated Beakers	Soda-Lime, IDL	3	JICA, Jun. 2005
	Soda-Lime, IDL	3	JICA, Jun. 2005
13 Funnels	NALGENE, IDL	60	JICA, Jun. 2005
	Deutsch & Neumann	3	JICA, Jun. 2005
14 Packing Bottle	Deutsch & Neumann	3	JICA, Jun. 2005
	Deutsch & Neumann	3	JICA, Jun. 2005
15 Rubber Bulb for Small Pipette	Deutsch & Neumann	3	JICA, Jun. 2005
	Deutsch & Neumann	3	JICA, Jun. 2005
16 Sealing Film	KIMWIPES	2	JICA, Jun. 2005
17 Cleaning Tissue	MANUFIX	2	JICA, Jun. 2005
18 Gloves	MANUFIX	2	JICA, Jun. 2005
19 Goggles	MANUFIX	2	JICA, Jun. 2005
20 Stand and Clamp	DIN 12892, BOCHEM	2	JICA, Jun. 2005
	IDL, Bosshead	4	JICA, Jun. 2005
21 Cleaning Agent	IDL	4	JICA, Jun. 2005
	IDL	2	JICA, Jun. 2005

IV-3 (6)Hama DFEA

Reagents List for Laboratory in Hama DFEA (Basic Water Quality Analysis)

No.	Name of Reagent	Usage	Unit	Quantity	Remarks
1	pH standards, pH 4.01	pH calibration	500 ml	2	JICA, Jun. 2005
	pH standards, pH 7.00		500 ml	2	JICA, Jun. 2005
	pH standards, pH 10.00		500 ml	2	JICA, Jun. 2005
2	Conductivity standards, 180 µs/cm	EC&TDS calibration	100ml	1	JICA, Jun. 2005
	Conductivity standards, 1,000 µs/cm		100ml	1	JICA, Jun. 2005
	Conductivity standards, 18,000 µs/cm		100ml	1	JICA, Jun. 2005
3	Turbidity Standards Kit for 2100 P Turbidity Meter (0.1, 20, 100, 800 NTU)	Turbidity calibration	500 ml for each	1	JICA, Jun. 2005
4	Reagents (High range 0-1,500 mg/l) for COD _C	COD _C	25 tests/PK	31	JICA, Jun. 2005
5	Reagents for NO ₃ -N (High range, 0-30.0 mg/l)	NO ₃ -N	100 tests/PK	8	JICA, Jun. 2005
6	Reagents for PO ₄ ³⁻ (High range, 0-30.00 mg/l)	PO ₄ ³⁻	100 tests/PK	8	JICA, Jun. 2005
7	Reagents for Cl ⁻ (0-10,000 mg/l)	Cl ⁻	100 tests/set	8	JICA, Jun. 2005
8	Reagents for NH ₃ -N (High range, 0-50 mg/l)	NH ₃ -N	50 tests/PK	15	JICA, Jun. 2005
9	Nitrification Inhibitor	BOD	500g	1	JICA, Jun. 2005
10	BOD Nutrient Buffer Pillows	BOD	50 pillows/PK	15	JICA, Jun. 2005
11	BOD Seed Inoculum	BOD	50 capsules/bottle	7	JICA, Jun. 2005
12	NaOH Pack	BOD	1000g/PK	1	JICA, Jun. 2005
13	Reagents (Low range 0-150 mg/l) for COD _C	COD _C	25 tests/PK	2	JICA, Jun. 2006
14	Reagents for NO ₂ -N (Mid range, 0-5.0 mg/l)	NO ₂ -N	100 tests/PK	1	JICA, Jun. 2006
15	Reagents for PO ₄ ³⁻ (Low range, 0-2.50 mg/l)	PO ₄ ³⁻	100 tests/PK	1	JICA, Jun. 2006
16	Reagents for NH ₃ -N (low range, 0-2.50 mg/l)	NH ₃ -N	50 tests/PK	1	JICA, Jun. 2006
17	COD standard, 300 mg/l	Check COD	200 ml	1	JICA, Jun. 2006
18	COD standard, 1080 mg/l	Check COD	200 ml	1	JICA, Jun. 2006
19	NO ₃ -N standard, 1.0 mg/l	Check NO ₃ -N	500 ml	1	JICA, Jun. 2006
20	NO ₂ -N standard, 10.0 mg/l	Check NO ₂ -N	500 ml	1	JICA, Jun. 2006
21	NO ₃ -N standard, 100 mg/l	Check NO ₃ -N	500 ml	1	JICA, Jun. 2006
22	PO ₄ ³⁻ standard, 50 mg/l	Check PO ₄ ³⁻	500 ml	1	JICA, Jun. 2006
23	NH ₃ -N standard, 10 mg/l	Check NH ₃ -N	500 ml	1	JICA, Jun. 2006
24	NH ₃ -N standard, 50 mg/l	Check NH ₃ -N	10 ml/16 Vouluette Amples	1	JICA, Jun. 2006
25	BOD standard, 300 mg/l	Check BOD	10 ml/16 Vouluette Amples	1	JICA, Jun. 2006
26	BOD standard, 3000 mg/l	Check BOD	10 ml/16 Vouluette Amples	1	JICA, Jun. 2006
27	Cl ⁻ standard, 1000 mg/l	Check Cl ⁻	500 ml	1	JICA, Jun. 2006
28	Bromine Water 30g/L	NO ₂ interfering (NO ₃ testing)	29 mL	1	JICA, Jun. 2006
29	Phenol Solution	NO ₂ interfering (NO ₃ testing)	29 mL	1	JICA, Jun. 2006
30	Sulfamic acid	NO ₂ interfering (PO ₄ testing)	113 g	1	JICA, Jun. 2006
31	Phosphate Pretreatment Powder Pillows	Turbidity and color interfering	100/pkg	1	JICA, Jun. 2006
32	Hydrochloric Acid, ACS	pH adjusting (NH ₃ -N, PO ₄ etc.)	500 mL	1	JICA, Jun. 2006
33	Sulfide Inhibitor Powder Pillows	S interfering (Cl ⁻ , NH ₃ -N testing)	100/pkg	1	JICA, Jun. 2006
34	Mercuric Sulfate	Cl ⁻ interfering (COD testing)	28.3 g	1	JICA, Jun. 2006
35	Hydrogen Peroxide, 30% ACS	Sulfite interfering (Cl ⁻ testing)	500 mL	1	JICA, Jun. 2006

IV-3 (7) Lattakia DFEA

Equipment List in Lattakia DFEA (Basic Water Quality Analysis)

Name of Instrument	Quantity	Remarks	Name of Instrument	Quantity	Remarks
1 White cloth, M	3	JICA, Jun. 2005	1 Portable Colortimeter Kit	1	JICA, Jun. 2005
2 L	0	JICA, Jun. 2005	2 Portable pH and Temp. Meter	1	JICA, Jun. 2005
3 XL	0	JICA, Jun. 2005	3 Portable EC and TDS Meter	1	JICA, Jun. 2005
4 Brush	2	JICA, Jun. 2005	4 Portable DO Meter	1	JICA, Jun. 2005
5 pH paper	2	JICA, Jun. 2005	5 Portable Turbidity Meter	1	JICA, Jun. 2005
6 Tube support rack	1	JICA, Jun. 2005	6 COD Reactor	1	JICA, Jun. 2005
7 Drying rack	1	JICA, Jun. 2005	7 Digital Titrator	1	JICA, Jun. 2005
8 Temp., humidity and barometric pressure meter	1	JICA, Jun. 2005	8 Stirring platform for BOD Analysis	2	JICA, Jun. 2005
9 Temperature meter	2	JICA, Jun. 2005	9 BOD bottle with OxiTop measuring head	24	JICA, Jun. 2005
10 Long-handled dipper	1	JICA, Jun. 2005	10 Incubator	1	JICA, Jun. 2005
11 Weight boats	18 sheet	JICA, Jun. 2005	11 Analytical Balance	1	JICA, Jun. 2005
12 Spatula-spoon	18 sheet	JICA, Jun. 2005	12 Table for Balance	1	JICA, Jun. 2005
13 Trays	2	JICA, Jun. 2005	13 Pure Water Unit	1	JICA, Jun. 2005
14 Bucket with spout	2	JICA, Jun. 2005	14 Desktop Computer+UPS	1	JICA, Jun. 2005
15 Rope	1	JICA, Jun. 2005	15 Printer	1	JICA, Jun. 2005
16 Vinyl tape	5	JICA, Jun. 2005	16 Digital Camera	1	JICA, Jun. 2005
17 Safety gloves	1	JICA, Jun. 2005	17 Special Pipette Containers	1	JICA, Jun. 2005
18 Cotton work gloves	5	JICA, Jun. 2005	18 Tank for Liquid Wastes	2	JICA, Jun. 2005
19 Waterproof boots	1	JICA, Jun. 2005	19 Ice Box for sampling	2	JICA, Jun. 2005
20 Cold reserving material	12	JICA, Jun. 2005	20 Refrigerator	1	JICA, Apr. 2006

IV-3 (6) Hama DFEA

Additional Instrument List for Laboratory in Hama DFEA (Basic Water Quality Analysis)

Name of Instrument	Quantity	Remarks	Name of Instrument	Quantity	Remarks
1 Plastic funnel, 12cm dia	2	JICA, Aug.-Oct. 2005	1 Plastic beaker, 1 liter with hand	1	JICA, Aug.-Oct. 2005
2 Safety glove	1	JICA, Aug.-Oct. 2005	2 Water tank, 5 liter w/2 hoses	2	JICA, Aug.-Oct. 2005
3 Calculator	2	JICA, Aug.-Oct. 2005	3 Water tank, 20 liter w/2 hoses	2	JICA, Aug.-Oct. 2005
4 Electronic timer	2	JICA, Aug.-Oct. 2005	4 Distilled water tank, 10 liter with tap	1	JICA, Aug.-Oct. 2005
5 Cooling box, round shape	1	JICA, Aug.-Oct. 2005	5 Scissors	2	JICA, Aug.-Oct. 2005
6 Water-proof boot	2	JICA, Aug.-Oct. 2005	6 Carton cutter	2	JICA, Aug.-Oct. 2005
7 Gloves disposable (box/100)	5	JICA, Aug.-Oct. 2005	7 Meter (5 meters)	2	JICA, Aug.-Oct. 2005
8 Plastic beaker, 1 liter with hand	1	JICA, Aug.-Oct. 2005	8 Pipette filler 2ml	1	JICA, Aug.-Oct. 2005
9 Water tank, 5 liter w/2 hoses	2	JICA, Aug.-Oct. 2005	9 Pipette filler 10ml	1	JICA, Aug.-Oct. 2005
10 Water tank, 20 liter w/2 hoses	2	JICA, Aug.-Oct. 2005	10 Pipette filler 25ml	1	JICA, Aug.-Oct. 2005
11 Distilled water tank, 10 liter with tap	1	JICA, Aug.-Oct. 2005	11 Plastic cylinder, 1000ml	1	JICA, Aug.-Oct. 2005
12 Scissors	2	JICA, Aug.-Oct. 2005	12 Plastic cylinder 500ml	1	JICA, Aug.-Oct. 2005
13 Carton cutter	2	JICA, Aug.-Oct. 2005	13 Plastic beaker 500ml	1	JICA, Aug.-Oct. 2005
14 Meter (5 meters)	2	JICA, Aug.-Oct. 2005	14 Glass beaker 1 liter	2	JICA, Aug.-Oct. 2005
15 Pipette filler 2ml	1	JICA, Aug.-Oct. 2005	15 Glass beaker 600ml	2	JICA, Aug.-Oct. 2005
16 Pipette filler 10ml	1	JICA, Aug.-Oct. 2005	16 Pipetting ball w/2 valves	2	JICA, Aug.-Oct. 2005
17 Pipette filler 25ml	1	JICA, Aug.-Oct. 2005	17 Field battery light, plastic	1	JICA, Aug.-Oct. 2005
18 Plastic cylinder, 1000ml	1	JICA, Aug.-Oct. 2005	18 Forceps	2	JICA, Aug.-Oct. 2005
19 Plastic beaker 500ml	1	JICA, Aug.-Oct. 2005	19 Rope 27 meters	1	JICA, Aug.-Oct. 2005
20 Plastic beaker 500ml	1	JICA, Aug.-Oct. 2005	20 Cotton cap	4	JICA, Aug.-Oct. 2005
21 Glass beaker 1 liter	2	JICA, Aug.-Oct. 2005	21 Spatula spoon	2	JICA, Aug.-Oct. 2005
22 Glass beaker 600ml	2	JICA, Aug.-Oct. 2005	22 Half mask with filter for gases	1	JICA, Aug.-Oct. 2005
23 Pipetting ball w/2 valves	2	JICA, Aug.-Oct. 2005	23 Yellow tips for micro pipette	70	JICA, Aug.-Oct. 2005
24 Field battery light, plastic	1	JICA, Aug.-Oct. 2005	24 Oil pen	3	JICA, Aug.-Oct. 2005
25 Forceps	2	JICA, Aug.-Oct. 2005	25 Vinyl tape	5	JICA, Aug.-Oct. 2005
26 Rope 27 meters	1	JICA, Aug.-Oct. 2005	26 Sampler 3 meters split h	1	JICA, Aug.-Oct. 2005
27 Cotton cap	4	JICA, Aug.-Oct. 2005	27 Trays 270 x 270 x 120 mm	1	JICA, Aug.-Oct. 2005
28 Spatula spoon	2	JICA, Aug.-Oct. 2005	28 Trays 450 x 320 x 150 mm	1	JICA, Aug.-Oct. 2005
29 Half mask with filter for gases	1	JICA, Aug.-Oct. 2005	29 Rechargeable battery	30	JICA, Aug.-Oct. 2005
30 Yellow tips for micro pipette	70	JICA, Aug.-Oct. 2005	30 Battery charger	1	JICA, Aug.-Oct. 2005
31 Oil pen	3	JICA, Aug.-Oct. 2005	31 Sulfuric acid, 1 liter	1	JICA, Aug.-Oct. 2005
32 Vinyl tape	5	JICA, Aug.-Oct. 2005	32 Formic acid, 1 liter	1	JICA, Aug.-Oct. 2005
33 Sampler 3 meters split h	1	JICA, Aug.-Oct. 2005	33 Acetic acid, 1 liter	1	JICA, Aug.-Oct. 2005
34 Trays 270 x 270 x 120 mm	1	JICA, Aug.-Oct. 2005	34 Paper filter, 15cm dia. (box/100)	2	JICA, Aug.-Oct. 2005
35 Trays 450 x 320 x 150 mm	1	JICA, Aug.-Oct. 2005	35 Cell for DR/890	10	JICA, Aug.-Oct. 2005
36 Rechargeable battery	30	JICA, Aug.-Oct. 2005			
37 Battery charger	1	JICA, Aug.-Oct. 2005			
38 Sulfuric acid, 1 liter	1	JICA, Aug.-Oct. 2005			
39 Formic acid, 1 liter	1	JICA, Aug.-Oct. 2005			
40 Acetic acid, 1 liter	1	JICA, Aug.-Oct. 2005			
41 Paper filter, 15cm dia. (box/100)	2	JICA, Aug.-Oct. 2005			
42 Cell for DR/890	10	JICA, Aug.-Oct. 2005			

IV-3 (7) Lattakia DFEA

Glassware List for Laboratory in Lattakia DFEA (Basic Water Quality Analysis)

Name of Glassware	Model	Quantity	Remarks
1 Whole Pipettes	BRAND (1ml)	2	JICA, Jun. 2005
	BRAND (2ml)	2	JICA, Jun. 2005
	BRAND (5ml)	3	JICA, Jun. 2005
	BRAND (10ml)	3	JICA, Jun. 2005
	BRAND (20ml)	2	JICA, Jun. 2005
	BRAND (50ml)	2	JICA, Jun. 2005
	BRAND (100ml)	1	JICA, Jun. 2005
	BRAND (1ml)	3	JICA, Jun. 2005
	BRAND (5ml)	3	JICA, Jun. 2005
	BRAND (10ml)	3	JICA, Jun. 2005
3 Pipette Fillers	Micro Pipette Filler	2	JICA, Jun. 2005
	Pipette Filler	2	JICA, Jun. 2005
4 Graduated beakers	PMP (50ml)	2	JICA, Jun. 2005
	PMP (100ml)	2	JICA, Jun. 2005
	PMP (150ml)	2	JICA, Jun. 2005
	PMP (250ml)	2	JICA, Jun. 2005
5 Volumetric Flasks	Hirschman (50ml)	2	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (200ml)	2	JICA, Jun. 2005
	Hirschman (25ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	2	JICA, Jun. 2005
6 Volumetric Flasks	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (25ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	2	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
7 Erlenmeyer Flasks	NALGENE, IDL (125ml)	3	JICA, Jun. 2005
	NALGENE, IDL (250ml)	3	JICA, Jun. 2005
	NALGENE, IDL (500ml)	2	JICA, Jun. 2005
	Retberg (100ml)	2	JICA, Jun. 2005
8 Erlenmeyer Flasks with Ground Joints	Retberg (200ml)	2	JICA, Jun. 2005
	Retberg (300ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	6	JICA, Jun. 2005
9 Stopper	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (250ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	2	JICA, Jun. 2005
10 Graduated Cylinders	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (250ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	2	JICA, Jun. 2005
11 Wash Bottles with Bottle, Screw Cap, Riser Tube and Tube Holder	NALGENE, IDL	3	JICA, Jun. 2005
	VIT-LAB	1	JICA, Jun. 2005
	Soda-Lime, IDL	3	JICA, Jun. 2005
12 Graduated Beakers	Soda-Lime, IDL	3	JICA, Jun. 2005
	NALGENE, IDL	60	JICA, Jun. 2005
	Deutsch & Neumann	3	JICA, Jun. 2005
13 Funnels	Deutsch & Neumann	3	JICA, Jun. 2005
	Deutsch & Neumann	3	JICA, Jun. 2005
	Deutsch & Neumann	2	JICA, Jun. 2005
14 Packing Bottle	KIMWIPES	2	JICA, Jun. 2005
	MANIUPDX	2	JICA, Jun. 2005
	DIN 12892, BOCHEM	2	JICA, Jun. 2005
15 Rubber Bulb for Small Pipette	IDL, Bosshead	4	JICA, Jun. 2005
	IDL	4	JICA, Jun. 2005
	IDL	2	JICA, Jun. 2005
16 Sealing Film	IDL	2	JICA, Jun. 2005
	IDL	2	JICA, Jun. 2005
	IDL	2	JICA, Jun. 2005
17 Cleaning Tissue	IDL	2	JICA, Jun. 2005
	IDL	2	JICA, Jun. 2005
	IDL	2	JICA, Jun. 2005
18 Gloves	IDL	4	JICA, Jun. 2005
	IDL	4	JICA, Jun. 2005
	IDL	2	JICA, Jun. 2005
19 Goggles	IDL	2	JICA, Jun. 2005
	IDL	2	JICA, Jun. 2005
	IDL	2	JICA, Jun. 2005
20 Stand and Clamp	IDL	2	JICA, Jun. 2005
	IDL	2	JICA, Jun. 2005
	IDL	2	JICA, Jun. 2005
21 Cleaning Agent	IDL	2	JICA, Jun. 2005
	IDL	2	JICA, Jun. 2005
	IDL	2	JICA, Jun. 2005

IV-3 (7) Lattakia DFEA

Reagents List for Laboratory in Lattakia DFEA (Basic Water Quality Analysis)

Name of Reagent	Usage	Unit	Quantity	Remarks
pH standards, pH 4.01	pH calibration	500 ml	2	JICA, Jun. 2005
pH standards, pH 7.00	pH calibration	500 ml	2	JICA, Jun. 2005
pH standards, pH 10.00	pH calibration	500 ml	2	JICA, Jun. 2005
Conductivity standards, 180 µS/cm	EC&TDS calibration	100ml	1	JICA, Jun. 2005
Conductivity standards, 1,000 µS/cm	EC&TDS calibration	100ml	1	JICA, Jun. 2005
Conductivity standards, 18,000 µS/cm	EC&TDS calibration	100ml	1	JICA, Jun. 2005
Turbidity Standards Kit for 2100 P Turbidity Meter (0.1, 20, 100, 800 NTU)	Turbidity calibration	500 ml for each	1	JICA, Jun. 2005
Reagents (High range 0-1,500 mg/l) for COD _{Cr}	COD _{Cr}	25 tests/PK	31	JICA, Jun. 2005
Reagents for NO ₃ ⁻ -N (High range, 0-30.0 mg/l)	NO ₃ ⁻ -N	100 tests/PK	8	JICA, Jun. 2005
Reagents for PO ₄ ³⁻ (High range, 0-30.00 mg/l)	PO ₄ ³⁻	100 tests/PK	8	JICA, Jun. 2005
Reagents for Cl ⁻ (0-10,000 mg/l)	Cl ⁻	100 tests/PK	8	JICA, Jun. 2005
Reagents for NH ₃ -N (High range, 0-50 mg/l)	NH ₃ -N	50 tests/PK	15	JICA, Jun. 2005
Nitritification Inhibitor	BOD	500g	1	JICA, Jun. 2005
BOD Nutrient Buffer Pills	BOD	50 pills/PK	15	JICA, Jun. 2005
BOD Seed inoculum	BOD	50 capsules/bottle	7	JICA, Jun. 2005
NaOH Pack	BOD	1000g/PK	1	JICA, Jun. 2005
Reagents (Low range 0-150 mg/l) for COD _{Cr}	COD _{Cr}	25 tests/PK	2	JICA, Jun. 2006
Reagents for NO ₂ ⁻ -N (Mid range, 0-5.0 mg/l)	NO ₂ ⁻ -N	100 tests/PK	1	JICA, Jun. 2006
Reagents for PO ₄ ³⁻ (Low range, 0-2.50 mg/l)	PO ₄ ³⁻	100 tests/PK	1	JICA, Jun. 2006
Reagents for NH ₃ -N (Low range, 0-2.50 mg/l)	NH ₃ -N	50 tests/PK	1	JICA, Jun. 2006
COD standard, 300 mg/l	Check COD	200 ml	1	JICA, Jun. 2006
COD standard, 1000 mg/l	Check COD	200 ml	1	JICA, Jun. 2006
NO ₂ ⁻ -N standard, 1.0 mg/l	Check NO ₂ ⁻ -N	500 ml	1	JICA, Jun. 2006
NO ₃ ⁻ -N standard, 10.0 mg/l	Check NO ₃ ⁻ -N	500 ml	1	JICA, Jun. 2006
NO ₂ ⁻ -N standard, 100 mg/l	Check NO ₂ ⁻ -N	500 ml	1	JICA, Jun. 2006
PO ₄ ³⁻ standard, 50 mg/l	Check PO ₄ ³⁻	500 ml	1	JICA, Jun. 2006
NH ₃ -N standard, 10 mg/l	Check NH ₃ -N	500 ml	1	JICA, Jun. 2006
NH ₃ -N standard, 50 mg/l	Check NH ₃ -N	10 ml/16 Voulatte Amples	1	JICA, Jun. 2006
BOD standard, 300 mg/l	Check BOD	10 ml/16 Voulatte Amples	1	JICA, Jun. 2006
BOD standard, 3000 mg/l	Check BOD	10 ml/16 Voulatte Amples	1	JICA, Jun. 2006
Cl ⁻ standard, 1000 mg/l	Check Cl ⁻	500 ml	1	JICA, Jun. 2006
Bromine Water 30g/L	NO ₂ interfering (NO ₂ testing)	29 mL	1	JICA, Jun. 2006
Phenol Solution	NO ₂ interfering (NO ₂ testing)	29 mL	1	JICA, Jun. 2006
Sulfamic acid	NO ₂ interfering (NO ₂ testing)	113 g	1	JICA, Jun. 2006
Phosphate Pretreatment Powder Pills	Turbidity and color interfering	100/pkg	1	JICA, Jun. 2006
Hydrochloric Acid, ACS	pH adjusting (NH ₄ ⁺ , PO ₄ etc.)	500 mL	1	JICA, Jun. 2006
Sulfide Inhibitor Powder Pills	S interfering (Cl ⁻ , NH ₃ -N testing)	100/pkg	1	JICA, Jun. 2006
Mercuric Sulfate	Cl ⁻ interfering (COD testing)	28.3 B	1	JICA, Jun. 2006
Hydrogen Peroxide, 30% ACS	Sulfite interfering (Cl ⁻ testing)	500 mL	1	JICA, Jun. 2006

IV-3 (8) Deir Zor DFEA

Equipment List in Deir Zor DFEA

Name of Instrument	Quantity	Remarks	Name of Instrument	Quantity	Remarks
1 Portable Colorimeter Kit	1	JICA, Jun. 2005	HACH	CEL890	JICA, Jun. 2005
2 Portable pH and Temp. Meter	1	JICA, Jun. 2005	HACH	sens/ON 1	JICA, Jun. 2005
3 Portable EC and TDS Meter	1	JICA, Jun. 2005	HACH	sens/ON 5	JICA, Jun. 2005
4 Portable DO Meter	1	JICA, Jun. 2005	HACH	sens/ON 6	JICA, Jun. 2005
5 Portable Turbidity Meter	1	JICA, Jun. 2005	HACH	2100P	JICA, Jun. 2005
6 COD Reactor	1	JICA, Jun. 2005	HACH	DRB 200-1	JICA, Jun. 2005
7 Digital Titrator	1	JICA, Jun. 2005	HACH	I6900	JICA, Jun. 2005
8 Stirring platform for BOD Analysis	2	JICA, Jun. 2005	WTW	OxiTop IS12	JICA, Jun. 2005
9 BOD bottle with OxiTop measuring head	24	JICA, Jun. 2005	WTW	-	JICA, Jun. 2005
10 Incubator	1	JICA, Jun. 2005	WTW	TS 606/2i	JICA, Jun. 2005
11 Analytical Balance	1	JICA, Jun. 2005	Sartorius	CP324S	JICA, Jun. 2005
12 Table for Balance	1	JICA, Jun. 2005	Sartorius	YWT03	JICA, Jun. 2005
13 Pure Water Unit	1	JICA, Jun. 2005	GFL	2001/4	JICA, Jun. 2005
14 Desktop Computer+UPS	1	JICA, Jun. 2005	Mall Tech	CMAX PCI	JICA, Jun. 2005
15 Printer	1	JICA, Jun. 2005	Hewlett-Packard	1010	JICA, Jun. 2005
16 Digital Camera	1	JICA, Jun. 2005	Kodak	CX7330	JICA, Jun. 2005
17 Special Pipette Containers	1	JICA, Jun. 2005	-	-	JICA, Jun. 2005
18 Tank for Liquid Wastes	2	JICA, Jun. 2005	-	-	JICA, Jun. 2005
19 Ice Box for sampling	2	JICA, Jun. 2005	-	-	JICA, Jun. 2005
20 Refrigerator	1	JICA, Apr. 2006	Local	-	JICA, Apr. 2006

IV-3 (7) Lattakia DFEA

Additional Instrument List for Laboratory in Lattakia DFEA (Basic Water Quality Analysis)

Name of Instrument	Quantity	Remarks	Name of Instrument	Quantity	Remarks
1 White cloth, M	0	JICA, Jun. 2005	1 Plastic funnel, 12cm dia	2	JICA, Aug.-Oct. 2005
2 L	7	JICA, Jun. 2005	2 Safety glove	1	JICA, Aug.-Oct. 2005
3 XL	1	JICA, Jun. 2005	3 Calculator	2	JICA, Aug.-Oct. 2005
4 Brush	2	JICA, Jun. 2005	4 Electronic timer	2	JICA, Aug.-Oct. 2005
5	2	JICA, Jun. 2005	5 Cooling box, round shape	1	JICA, Aug.-Oct. 2005
6	1	JICA, Jun. 2005	6 Water-proof boot	2	JICA, Aug.-Oct. 2005
7	2	JICA, Jun. 2005	7 Gloves disposable (box/100)	5	JICA, Aug.-Oct. 2005
8	1	JICA, Jun. 2005	8 Plastic beaker, 1 liter with hand	1	JICA, Aug.-Oct. 2005
9	1	JICA, Jun. 2005	9 Water tank, 5 liter w/2 hoses	2	JICA, Aug.-Oct. 2005
10	1	JICA, Jun. 2005	10 Water tank, 20 liter w/2 hoses	2	JICA, Aug.-Oct. 2005
11	2	JICA, Jun. 2005	11 Distilled water tank, 10 liter with tape	1	JICA, Aug.-Oct. 2005
12	18 sheet	JICA, Jun. 2005	12 Scissors	2	JICA, Aug.-Oct. 2005
13	18 sheet	JICA, Jun. 2005	13 Carton cutter	2	JICA, Aug.-Oct. 2005
14	2	JICA, Jun. 2005	14 Meter (5 meters)	2	JICA, Aug.-Oct. 2005
15	2	JICA, Jun. 2005	15 Pipette filler 2ml	1	JICA, Aug.-Oct. 2005
16	1	JICA, Jun. 2005	16 Pipette filler 10ml	1	JICA, Aug.-Oct. 2005
17	2	JICA, Jun. 2005	17 Pipette filler 25ml	1	JICA, Aug.-Oct. 2005
18	1	JICA, Jun. 2005	18 Plastic cylinder, 1000ml	1	JICA, Aug.-Oct. 2005
19	5	JICA, Jun. 2005	19 Plastic cylinder, 500ml	1	JICA, Aug.-Oct. 2005
20	2	JICA, Jun. 2005	20 Plastic beaker 500ml	1	JICA, Aug.-Oct. 2005
21	1	JICA, Jun. 2005	21 Glass beaker 1 liter	2	JICA, Aug.-Oct. 2005
22	5	JICA, Jun. 2005	22 Glass beaker 600ml	2	JICA, Aug.-Oct. 2005
23	1	JICA, Jun. 2005	23 Pipetting ball w/2 valves	2	JICA, Aug.-Oct. 2005
24	12	JICA, Jun. 2005	24 Field battery light, plastic	1	JICA, Aug.-Oct. 2005
25	2	JICA, Jun. 2005	25 Forceps	2	JICA, Aug.-Oct. 2005
26	1	JICA, Jun. 2005	26 Rope 27 meters	1	JICA, Aug.-Oct. 2005
27	4	JICA, Jun. 2005	27 Cotton cap	4	JICA, Aug.-Oct. 2005
28	2	JICA, Jun. 2005	28 Spatula spoon	2	JICA, Aug.-Oct. 2005
29	1	JICA, Jun. 2005	29 Half mask with filter for gases	1	JICA, Aug.-Oct. 2005
30	70	JICA, Jun. 2005	30 Yellow tips for micro pipette	70	JICA, Aug.-Oct. 2005
31	3	JICA, Jun. 2005	31 Oil pen	3	JICA, Aug.-Oct. 2005
32	5	JICA, Jun. 2005	32 Vinyl tape	5	JICA, Aug.-Oct. 2005
33	1	JICA, Jun. 2005	33 Sampler 3 meters split h	1	JICA, Aug.-Oct. 2005
34	1	JICA, Jun. 2005	34 Trays 270 x 270 x 120 mm	1	JICA, Aug.-Oct. 2005
35	1	JICA, Jun. 2005	35 Trays 450 x 320 x 150 mm	1	JICA, Aug.-Oct. 2005
36	30	JICA, Jun. 2005	36 Rechargeable battery	30	JICA, Aug.-Oct. 2005
37	1	JICA, Jun. 2005	37 Battery charger	1	JICA, Aug.-Oct. 2005
38	1	JICA, Jun. 2005	38 Sulfuric acid, 1 liter	1	JICA, Aug.-Oct. 2005
39	1	JICA, Jun. 2005	39 Formic acid, 1 liter	1	JICA, Aug.-Oct. 2005
40	1	JICA, Jun. 2005	40 Acetic acid, 1 liter.	1	JICA, Aug.-Oct. 2005
41	2	JICA, Jun. 2005	41 Paper filter, 15cm dia. (box/100)	2	JICA, Aug.-Oct. 2005
42	10	JICA, Jun. 2005	42 Cell for DR/890	10	JICA, Aug.-Oct. 2005

IV-3 (8)Deir_Zor_DFEA

Glassware List for Laboratory in Deir_Zor_DFEA (Basic Water Quality Analysis)

Name of Glassware	Model	Quantity	Remarks
1 Whole Pipettes	BRAND (1ml)	2	JICA, Jun. 2005
	BRAND (2ml)	2	JICA, Jun. 2005
	BRAND (5ml)	3	JICA, Jun. 2005
	BRAND (10ml)	3	JICA, Jun. 2005
	BRAND (20ml)	2	JICA, Jun. 2005
	BRAND (50ml)	2	JICA, Jun. 2005
	BRAND (100ml)	1	JICA, Jun. 2005
	BRAND (1ml)	3	JICA, Jun. 2005
	BRAND (5ml)	3	JICA, Jun. 2005
	BRAND (10ml)	3	JICA, Jun. 2005
2 Graduated pipettes	Micro Pipette Filler	2	JICA, Jun. 2005
	Pipette Filler	2	JICA, Jun. 2005
3 Pipette Fillers	PMP (50ml)	2	JICA, Jun. 2005
	PMP (100ml)	2	JICA, Jun. 2005
	PMP (150ml)	2	JICA, Jun. 2005
	PMP (250ml)	2	JICA, Jun. 2005
	Hirschman (25ml)	2	JICA, Jun. 2005
4 Graduated beakers	Hirschman (50ml)	2	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (200ml)	2	JICA, Jun. 2005
	Hirschman (250ml)	2	JICA, Jun. 2005
5 Volumetric Flasks	Hirschman (25ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	2	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
6 Volumetric Flasks	Hirschman (25ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	2	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
7 Erlenmeyer Flasks	NALGENE, IDL (125ml)	3	JICA, Jun. 2005
	NALGENE, IDL (250ml)	3	JICA, Jun. 2005
	NALGENE, IDL (500ml)	2	JICA, Jun. 2005
8 Erlenmeyer Flasks with Ground Joints	Retberg (100ml)	2	JICA, Jun. 2005
	Retberg (200ml)	2	JICA, Jun. 2005
9 Stopper	Retberg (300ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	6	JICA, Jun. 2005
10 Graduated Cylinders	Hirschman (50ml)	2	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (250ml)	2	JICA, Jun. 2005
11 Wash Bottles with Bottle, Screw Cap, Riser Tube and Tube Holder	NALGENE, IDL	3	JICA, Jun. 2005
	VIT-LAB	1	JICA, Jun. 2005
12 Graduated Beakers	Soda-Lime, IDL	1	JICA, Jun. 2005
	Soda-Lime, IDL	3	JICA, Jun. 2005
13 Funnels	NALGENE, IDL	60	JICA, Jun. 2005
	Deutsch & Neumann	3	JICA, Jun. 2005
14 Packing Bottle	Deutsch & Neumann	3	JICA, Jun. 2005
	Deutsch & Neumann	3	JICA, Jun. 2005
15 Rubber Bulb for Small Pipette	Deutsch & Neumann	3	JICA, Jun. 2005
	Deutsch & Neumann	3	JICA, Jun. 2005
16 Sealing Film	KIMWIPES	2	JICA, Jun. 2005
17 Cleaning Tissue	MANUFIX	2	JICA, Jun. 2005
18 Gloves	DIN 12892, BOICHEM	2	JICA, Jun. 2005
19 Goggles	IDL, Bosshead	4	JICA, Jun. 2005
	IDL	4	JICA, Jun. 2005
20 Stand and Clamp		2	JICA, Jun. 2005
21 Cleaning Agent		2	JICA, Jun. 2005
		1	JICA, Jun. 2005

IV-3 (8)Deir_Zor_DFEA

Reagents List for Laboratory in Deir_Zor_DFEA (Basic Water Quality Analysis)

Sl. No.	Name of Reagent	Usage	Unit	Quantity	Remarks
1	pH standards, pH 4.01	pH calibration	500 ml	2	JICA, Jun. 2005
	pH standards, pH 7.00		500 ml	2	JICA, Jun. 2005
	pH standards, pH 10.00		500 ml	2	JICA, Jun. 2005
2	Conductivity standards, 180 µs/cm	EC&TDS calibration	100ml	1	JICA, Jun. 2005
	Conductivity standards, 1,000 µs/cm		100ml	1	JICA, Jun. 2005
3	Conductivity standards, 18,000 µs/cm		100ml	1	JICA, Jun. 2005
	Turbidity Standards Kit for 2100P Turbidity Meter (0.1, 20, 100, 800 NTU)	Turbidity calibration	500 ml for each	1	JICA, Jun. 2005
4	Reagents (High range 0-1,500 mg/l) for COD _{Cr}	COD _{Cr}	25 tests/PK	31	JICA, Jun. 2005
5	Reagents for NO ₃ -N (High range, 0-30.0 mg/l)	NO ₃ -N	100 tests/PK	8	JICA, Jun. 2005
6	Reagents for PO ₄ ³⁻ (High range, 0-30.00 mg/l)	PO ₄ ³⁻	100 tests/PK	8	JICA, Jun. 2005
7	Reagents for Cl ⁻ (0-10,000 mg/l)	Cl ⁻	100 tests/tes	8	JICA, Jun. 2005
8	Reagents for NH ₃ -N (High range, 0-50 mg/l)	NH ₃ -N	50 tests/PK	15	JICA, Jun. 2005
9	Nitrification Inhibitor	BOD	50g	1	JICA, Jun. 2005
10	BOD Nutrient Buffer Pillows	BOD	50 pillows/PK	15	JICA, Jun. 2005
11	BOD Seed Inoculum	BOD	50 capsules/Bottle	7	JICA, Jun. 2005
12	NaOH Pack	BOD	100g/PK	1	JICA, Jun. 2005
13	Reagents (Low range 0-150 mg/l) for COD _{Cr}	COD _{Cr}	25 tests/PK	2	JICA, Jun. 2006
14	Reagents for NO ₂ -N (Mid range, 0-5.0 mg/l)	NO ₂ -N	100 tests/PK	1	JICA, Jun. 2006
15	Reagents for PO ₄ ³⁻ (Low range, 0-2.50 mg/l)	PO ₄ ³⁻	100 tests/PK	1	JICA, Jun. 2006
16	Reagents for NH ₃ -N (low range, 0-2.50 mg/l)	NH ₃ -N	50 tests/PK	1	JICA, Jun. 2006
17	COD standard, 300 mg/l	Check COD	200 ml	1	JICA, Jun. 2006
18	COD standard, 1000 mg/l	Check COD	200 ml	1	JICA, Jun. 2006
19	NO ₂ -N standard, 1.0 mg/l	Check NO ₂ -N	500 ml	1	JICA, Jun. 2006
20	NO ₃ -N standard, 10.0 mg/l	Check NO ₃ -N	500 ml	1	JICA, Jun. 2006
21	NO ₂ -N standard, 100 mg/l	Check NO ₂ -N	500 ml	1	JICA, Jun. 2006
22	PO ₄ ³⁻ standard, 50 mg/l	Check PO ₄ ³⁻	500 ml	1	JICA, Jun. 2006
23	NH ₃ -N standard, 10 mg/l	Check NH ₃ -N	500 ml	1	JICA, Jun. 2006
24	NH ₃ -N standard, 50 mg/l	Check NH ₃ -N	10 ml/16 Voullette Amples	1	JICA, Jun. 2006
25	BOD standard, 300 mg/l	Check BOD	10 ml/16 Voullette Amples	1	JICA, Jun. 2006
26	BOD standard, 3000 mg/l	Check BOD	10 ml/16 Voullette Amples	1	JICA, Jun. 2006
27	Cl ⁻ standard, 1000 mg/l	Check Cl ⁻	500 ml	1	JICA, Jun. 2006
28	Bromine Water 30g/L	NO ₂ interfering (NO ₂ testing)	29 mL	1	JICA, Jun. 2006
29	Phenol Solution	NO ₃ interfering (NO ₃ testing)	29 mL	1	JICA, Jun. 2006
30	Sulfamic acid	NO ₂ interfering (PO ₄ testing)	113 g	1	JICA, Jun. 2006
31	Phosphate Pretreatment Powder Pillows	Turbidity and color interfering	100/pkg	1	JICA, Jun. 2006
32	Hydrochloric Acid, ACS	pH adjusting (NH ₃ -N, PO ₄ etc.)	500 mL	1	JICA, Jun. 2006
33	Sulfide Inhibitor Powder Pillows	S interfering (Cl ⁻ , NH ₃ -N testing)	100/pkg	1	JICA, Jun. 2006
34	Mercuric Sulfate	Cl ⁻ interfering (COD testing)	28.3 g	1	JICA, Jun. 2006
35	Hydrogen Peroxide, 30% ACS	Sulfite interfering (Cl ⁻ testing)	500 mL	1	JICA, Jun. 2006

IV-3 (9) Idle DFEA

Equipment List in Idle DFEA (Basic Water Quality Analysis)

Name of Instrument	Quantity	Remarks	Name of Instrument	Quantity	Remarks
1 White cloth, M	0	JICA, Jun. 2005	1 Portable Colorimeter Kit	1	JICA, Jun. 2005
L	3	JICA, Jun. 2005	HACH		
XL	0	JICA, Jun. 2005	CEI/890		
2 Brush	2	JICA, Jun. 2005	2 Portable pH and Temp. Meter	1	JICA, Jun. 2005
	2	JICA, Jun. 2005	HACH		
3 pH paper	1	JICA, Jun. 2005	sensION 1		
	2	JICA, Jun. 2005	HACH		
4 Tube support rack	1	JICA, Jun. 2005	sensION 5	1	JICA, Jun. 2005
	1	JICA, Jun. 2005	HACH		
5 Drying rack	1	JICA, Jun. 2005	sensION 6	1	JICA, Jun. 2005
	1	JICA, Jun. 2005	HACH		
6 Temp., humidity and barometric pressure meter	1	JICA, Jun. 2005	2100P	1	JICA, Jun. 2005
	1	JICA, Jun. 2005	HACH		
7 Temperature meter	2	JICA, Jun. 2005	COD Reactor	1	JICA, Jun. 2005
	1	JICA, Jun. 2005	HACH		
8 Long-handled dipper	1	JICA, Jun. 2005	Digital Titrator	1	JICA, Jun. 2005
	18 sheet	JICA, Jun. 2005	HACH		
9 Weight boats	18 sheet	JICA, Jun. 2005	Stirring platform for BOD Analysis	2	JICA, Jun. 2005
	2	JICA, Jun. 2005	WTW		
10 Spatula-spoon	2	JICA, Jun. 2005	BOD bottle with OxiTop measuring head	24	JICA, Jun. 2005
	1	JICA, Jun. 2005	WTW		
11 Trays	2	JICA, Jun. 2005	Incubator	1	JICA, Jun. 2005
	2	JICA, Jun. 2005	WTW		
12 Bucket with spout	2	JICA, Jun. 2005	Analytical Balance	1	JICA, Jun. 2005
	5	JICA, Jun. 2005	Sartorius		
13 Rope	1	JICA, Jun. 2005	Table for Balance	1	JICA, Jun. 2005
	2	JICA, Jun. 2005	WTW		
14 Vinyl tape	5	JICA, Jun. 2005	Pure Water Unit	1	JICA, Jun. 2005
	2	JICA, Jun. 2005	GFL		
15 Oil pen	2	JICA, Jun. 2005	Desktop Computer+UPS	1	JICA, Jun. 2005
	1	JICA, Jun. 2005	Mall Tech		
16 Safety gloves	1	JICA, Jun. 2005	Printer	1	JICA, Jun. 2005
	5	JICA, Jun. 2005	Hewlett-Packard		
17 Cotton work gloves	5	JICA, Jun. 2005	Digital Camera	1	JICA, Jun. 2005
	1	JICA, Jun. 2005	Kodak		
18 Waterproof boots	1	JICA, Jun. 2005	Special Pipette Containers	1	JICA, Jun. 2005
	2	JICA, Jun. 2005	-		
19 Cold reserving material	12	JICA, Jun. 2005	Tank for Liquid Wastes	2	JICA, Jun. 2005
	2	JICA, Jun. 2005	-		
20 File with clip	2	JICA, Jun. 2005	Ice Box for sampling	2	JICA, Jun. 2005
	1	JICA, Mar. 2006	Refrigerator	1	JICA, Apr. 2006
21 Generator	1	JICA, Mar. 2006			

IV-3 (8) Deir Zor DFEA

Additional Instrument List for Laboratory in Deir Zor DFEA (Basic Water Quality Analysis)

Name of Instrument	Quantity	Remarks	Name of Instrument	Quantity	Remarks
1 Plastic funnel, 12cm dia	2	JICA, Aug.-Oct. 2005			
2 Safety glove	1	JICA, Aug.-Oct. 2005			
3 Calculator	2	JICA, Aug.-Oct. 2005			
4 Electronic timer	2	JICA, Aug.-Oct. 2005			
5 Cooling box, round shape	1	JICA, Aug.-Oct. 2005			
6 Water-proof boat	2	JICA, Aug.-Oct. 2005			
7 Gloves disposable (box/100)	5	JICA, Aug.-Oct. 2005			
8 Plastic beaker, 1 liter with hand	1	JICA, Aug.-Oct. 2005			
9 Water tank, 5 liter w/2 hoses	2	JICA, Aug.-Oct. 2005			
10 Water tank, 20 liter w/2 hoses	2	JICA, Aug.-Oct. 2005			
11 Distilled water tank, 10 liter with tap	1	JICA, Aug.-Oct. 2005			
12 Scissors	2	JICA, Aug.-Oct. 2005			
13 Carton cutter	2	JICA, Aug.-Oct. 2005			
14 Meter (5 meters)	2	JICA, Aug.-Oct. 2005			
15 Pipette filler 2ml	1	JICA, Aug.-Oct. 2005			
16 Pipette filler 10ml	1	JICA, Aug.-Oct. 2005			
17 Pipette filler 25ml	1	JICA, Aug.-Oct. 2005			
18 Plastic cylinder 1000ml	1	JICA, Aug.-Oct. 2005			
19 Plastic cylinder 500ml	1	JICA, Aug.-Oct. 2005			
20 Plastic beaker 500ml	1	JICA, Aug.-Oct. 2005			
21 Glass beaker 1 liter	2	JICA, Aug.-Oct. 2005			
22 Glass beaker 600ml	2	JICA, Aug.-Oct. 2005			
23 Pipetting ball w/2 valves	2	JICA, Aug.-Oct. 2005			
24 Field battery light, plastic	1	JICA, Aug.-Oct. 2005			
25 Forceps	2	JICA, Aug.-Oct. 2005			
26 Rope 27 meters	1	JICA, Aug.-Oct. 2005			
27 Cotton cap	4	JICA, Aug.-Oct. 2005			
28 Spatula spoon	2	JICA, Aug.-Oct. 2005			
29 Half mask with filter for gases	1	JICA, Aug.-Oct. 2005			
30 Yellow tips for micro pipette	70	JICA, Aug.-Oct. 2005			
31 Oil pen	3	JICA, Aug.-Oct. 2005			
32 Vinyl tape	5	JICA, Aug.-Oct. 2005			
33 Sampler 3 meters split h	1	JICA, Aug.-Oct. 2005			
34 Trays 270 x 270 x 120 mm	1	JICA, Aug.-Oct. 2005			
35 Trays 450 x 320 x 150 mm	1	JICA, Aug.-Oct. 2005			
36 Rechargeable battery	30	JICA, Aug.-Oct. 2005			
37 Battery charger	1	JICA, Aug.-Oct. 2005			
38 Sulfuric acid, 1 liter	1	JICA, Aug.-Oct. 2005			
39 Formic acid, 1 liter	1	JICA, Aug.-Oct. 2005			
40 Acetic acid, 1 liter	1	JICA, Aug.-Oct. 2005			
41 Paper filter, 15cm dia. (box/100)	2	JICA, Aug.-Oct. 2005			
42 Cell for DR/890	10	JICA, Aug.-Oct. 2005			

IV-3 (9)Idleb DFEA

Glassware List for Laboratory in Idleb DFEA (Basic Water Quality Analysis)

Name of Glassware	Model	Quantity	Remarks
1 Whole Pipettes	BRAND (1ml)	2	JICA, Jun. 2005
	BRAND (2ml)	2	JICA, Jun. 2005
	BRAND (5ml)	3	JICA, Jun. 2005
	BRAND (10ml)	3	JICA, Jun. 2005
	BRAND (20ml)	2	JICA, Jun. 2005
	BRAND (50ml)	2	JICA, Jun. 2005
	BRAND (100ml)	1	JICA, Jun. 2005
	BRAND (1ml)	3	JICA, Jun. 2005
	BRAND (5ml)	3	JICA, Jun. 2005
	BRAND (10ml)	2	JICA, Jun. 2005
3 Pipette Fillers	Micro Pipette Filler	2	JICA, Jun. 2005
	Pipette Filler	2	JICA, Jun. 2005
4 Graduated beakers	PMP (50ml)	2	JICA, Jun. 2005
	PMP (100ml)	2	JICA, Jun. 2005
	PMP (150ml)	2	JICA, Jun. 2005
	PMP (250ml)	2	JICA, Jun. 2005
5 Volumetric Flasks	Hirschman (25ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	2	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (200ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	2	JICA, Jun. 2005
6 Volumetric Flasks	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (200ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	2	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (200ml)	2	JICA, Jun. 2005
7 Erlenmeyer Flasks	NALGENE, IDL (125ml)	3	JICA, Jun. 2005
	NALGENE, IDL (250ml)	3	JICA, Jun. 2005
8 Erlenmeyer Flasks with Ground Joints	NALGENE, IDL (500ml)	2	JICA, Jun. 2005
	Rettberg (100ml)	2	JICA, Jun. 2005
	Rettberg (200ml)	2	JICA, Jun. 2005
	Rettberg (300ml)	2	JICA, Jun. 2005
9 Stopper	Hirschman (50ml)	6	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
10 Graduated Cylinders	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (250ml)	2	JICA, Jun. 2005
	NALGENE, IDL	3	JICA, Jun. 2005
11 Wash Bottles with Bottle, Screw Cap, Riser Tube and Tube Holder	VIT-LAB	1	JICA, Jun. 2005
	Soda-Lime, IDL	3	JICA, Jun. 2005
12 Graduated Beakers	Soda-Lime, IDL	3	JICA, Jun. 2005
	NALGENE, IDL	60	JICA, Jun. 2005
13 Funnels	Deutsch & Neumann	3	JICA, Jun. 2005
	Deutsch & Neumann	3	JICA, Jun. 2005
14 Packing Bottle	Deutsch & Neumann	3	JICA, Jun. 2005
	Deutsch & Neumann	3	JICA, Jun. 2005
15 Rubber Bulb for Small Pipette	Deutsch & Neumann	3	JICA, Jun. 2005
	Deutsch & Neumann	3	JICA, Jun. 2005
16 Sealing Film	KIMWIPES	2	JICA, Jun. 2005
	MANUFIX	2	JICA, Jun. 2005
17 Cleaning Tissue	DIN 12892, BOCHEM	2	JICA, Jun. 2005
	IDL, Bosshead	4	JICA, Jun. 2005
18 Gloves	IDL	4	JICA, Jun. 2005
	IDL	4	JICA, Jun. 2005
19 Goggles	IDL	2	JICA, Jun. 2005
	IDL	2	JICA, Jun. 2005
20 Stand and Clamp	IDL	1	JICA, Jun. 2005
	IDL	1	JICA, Jun. 2005
21 Cleaning Agent	IDL	1	JICA, Jun. 2005
	IDL	1	JICA, Jun. 2005

IV-3 (9)Idleb DFEA

Reagents List for Laboratory in Idleb DFEA (Basic Water Quality Analysis)

Item No.	Name of Reagent	Usage	Unit	Quantity	Remarks
1	pH standards, pH 4.01	pH calibration	500 ml	2	JICA, Jun. 2005
	pH standards, pH 7.00		500 ml	2	JICA, Jun. 2005
	pH standards, pH 10.00		500 ml	2	JICA, Jun. 2005
2	Conductivity standards, 180 µS/cm	EC&TDS calibration	100ml	1	JICA, Jun. 2005
	Conductivity standards, 1,000 µS/cm		100ml	1	JICA, Jun. 2005
3	Conductivity standards, 18,000 µS/cm		100ml	1	JICA, Jun. 2005
	Turbidity Standards Kit for 2100 P Turbidity Meter (0.1, 20, 100, 800 NTU)	Turbidity calibration	500 ml for each	1	JICA, Jun. 2005
4	Reagents (High range 0-1,500 mg/l) for COD _{Cr}	COD _{Cr}	25 tests/PK	31	JICA, Jun. 2005
5	Reagents for NO ₃ -N (High range, 0-30.0 mg/l)	NO ₃ -N	100 tests/PK	8	JICA, Jun. 2005
6	Reagents for PO ₄ ³⁻ (High range, 0-30.00 mg/l)	PO ₄ ³⁻	100 tests/PK	8	JICA, Jun. 2005
7	Reagents for Cl ⁻ (0-10,000 mg/l)	Cl ⁻	100 tests/PK	8	JICA, Jun. 2005
8	Reagents for NH ₃ -N (High range, 0-50 mg/l)	NH ₃ -N	50 tests/PK	15	JICA, Jun. 2005
9	Nitrification Inhibitor	BOD	50g	1	JICA, Jun. 2005
10	BOD Nutrient Buffer Pillows	BOD	30 pillows/PK	15	JICA, Jun. 2005
11	BOD Seed Inoculum	BOD	30 capsules/Bottle	7	JICA, Jun. 2005
12	NaOH Pack	BOD	1000g/PK	1	JICA, Jun. 2005
13	Reagents (Low range 0-150 mg/l) for COD _{Cr}	COD _{Cr}	25 tests/PK	2	JICA, Jun. 2006
14	Reagents for NO ₂ -N (Mid range, 0-5.0 mg/l)	NO ₂ -N	100 tests/PK	1	JICA, Jun. 2006
15	Reagents for PO ₄ ³⁻ (Low range, 0-2.50 mg/l)	PO ₄ ³⁻	100 tests/PK	1	JICA, Jun. 2006
16	Reagents for NH ₃ -N (low range, 0-2.50 mg/l)	NH ₃ -N	50 tests/PK	1	JICA, Jun. 2006
17	COD standard, 300 mg/l	Check COD	200 ml	1	JICA, Jun. 2006
	COD standard, 1000 mg/l	Check COD	200 ml	1	JICA, Jun. 2006
18	NO ₂ -N standard, 1.0 mg/l	Check NO ₂ -N	500 ml	1	JICA, Jun. 2006
19	NO ₃ -N standard, 10.0 mg/l	Check NO ₃ -N	500 ml	1	JICA, Jun. 2006
20	NO ₂ -N standard, 10.0 mg/l	Check NO ₂ -N	500 ml	1	JICA, Jun. 2006
21	NO ₃ -N standard, 100 mg/l	Check NO ₃ -N	500 ml	1	JICA, Jun. 2006
22	PO ₄ ³⁻ standard, 50 mg/l	Check PO ₄ ³⁻	500 ml	1	JICA, Jun. 2006
23	NH ₃ -N standard, 10 mg/l	Check NH ₃ -N	500 ml	1	JICA, Jun. 2006
24	NH ₃ -N standard, 50 mg/l	Check NH ₃ -N	10 ml/16 Voullette Amples	1	JICA, Jun. 2006
25	BOD standard, 300 mg/l	Check BOD	10 ml/16 Voullette Amples	1	JICA, Jun. 2006
26	BOD standard, 3000 mg/l	Check BOD	10 ml/16 Voullette Amples	1	JICA, Jun. 2006
27	Cl ⁻ standard, 1000 mg/l	Check Cl ⁻	500 ml	1	JICA, Jun. 2006
28	Bromine Water 30g/L	NO ₂ interfering (NO ₂ testing)	29 mL	1	JICA, Jun. 2006
29	Phenol Solution	NO ₂ interfering (NO ₂ testing)	29 mL	1	JICA, Jun. 2006
30	Sulfamic acid	NO ₂ interfering (PO ₄ testing)	113 g	1	JICA, Jun. 2006
31	Phosphate Pretreatment Powder Pillows	Turbidity and color interfering	100/pkg	1	JICA, Jun. 2006
32	Hydrochloric Acid, ACS	pH adjusting (NH ₃ -N, PO ₄ etc.)	500 mL	1	JICA, Jun. 2006
33	Sulfide Inhibitor Powder Pillows	S interfering (Cl ⁻ , NH ₃ -N testing)	100/pkg	1	JICA, Jun. 2006
34	Mercuric Sulfate	Cl ⁻ interfering (COD testing)	28.3 g	1	JICA, Jun. 2006
35	Hydrogen Peroxide, 30% ACS	Sulfite interfering (Cl ⁻ testing)	500 mL	1	JICA, Jun. 2006

IV-3 (10) Hasakeh DFEA

Equipment List in Hasakeh DFEA (Basic Water Quality Analysis)

Name of Instrument	Quantity	Remarks	Name of Instrument	Quantity	Remarks
1 White cloth, M	3	JICA, Jun. 2005	1 Portable Colorimeter Kit	1	JICA, Jun. 2005
L	0	JICA, Jun. 2005	HACH		
XL	0	JICA, Jun. 2005	CEL/890		
2 Brush	2	JICA, Jun. 2005	2 Portable pH and Temp. Meter	1	JICA, Jun. 2005
	2	JICA, Jun. 2005	HACH		
	2	JICA, Jun. 2005	sensION 1		
	2	JICA, Jun. 2005	2 Portable EC and TDS Meter	1	JICA, Jun. 2005
	2	JICA, Jun. 2005	HACH		
	2	JICA, Jun. 2005	sensION 5		
	2	JICA, Jun. 2005	Water-proof boot	1	JICA, Jun. 2005
	2	JICA, Jun. 2005	sensION 6		
3 pH paper	2	JICA, Jun. 2005	2100P	1	JICA, Jun. 2005
4 Tube support rack	1	JICA, Jun. 2005	HACH		
5 Drying rack	1	JICA, Jun. 2005	2100P	1	JICA, Jun. 2005
Temp., humidity and barometric pressure meter	1	JICA, Jun. 2005	HACH		
6	1	JICA, Jun. 2005	DRB 200-1	1	JICA, Jun. 2005
7 Temperature meter	2	JICA, Jun. 2005	HACH		
8 Long-handled dipper	1	JICA, Jun. 2005	16900	1	JICA, Jun. 2005
9 Weight bowls	18 sheet	JICA, Jun. 2005	HACH		
10 Spatula-spoon	2	JICA, Jun. 2005	WTW		
11 Trays	1	JICA, Jun. 2005	OxiTop IS12	2	JICA, Jun. 2005
12 Bucket with spout	2	JICA, Jun. 2005	WTW		
13 Rops	1	JICA, Jun. 2005	WTW		
14 Vinyl tape	5	JICA, Jun. 2005	TS 606/2i	1	JICA, Jun. 2005
15 Oil pen	2	JICA, Jun. 2005	Sartorius	1	JICA, Jun. 2005
16 Safety gloves	5	JICA, Jun. 2005	CP324S	1	JICA, Jun. 2005
17 Cotton work gloves	1	JICA, Jun. 2005	YWT03	1	JICA, Jun. 2005
18 Waterproof boots	1	JICA, Jun. 2005	GFL	1	JICA, Jun. 2005
19 Cold reserving material	12	JICA, Jun. 2005	2001/4	1	JICA, Jun. 2005
20 File with clip	2	JICA, Jun. 2005	Mall Tech	1	JICA, Jun. 2005
			Hewlett-Packard	1	JICA, Jun. 2005
			Kodak	1	JICA, Jun. 2005
			-	1	JICA, Jun. 2005
			-	2	JICA, Jun. 2005
			-	2	JICA, Jun. 2005
			Local	1	JICA, Apr. 2006

IV-3 (9) Idleb DFEA

Additional Instrument List for Laboratory in Idleb DFEA (Basic Water Quality Analysis)

Name of Instrument	Quantity	Remarks	Name of Instrument	Quantity	Remarks
1 White cloth, M	2	JICA, Aug.-Oct. 2005	1 Plastic funnel, 12cm dia	2	JICA, Aug.-Oct. 2005
L	1	JICA, Aug.-Oct. 2005	2 Safety glove	1	JICA, Aug.-Oct. 2005
XL	2	JICA, Aug.-Oct. 2005	3 Calculator	2	JICA, Aug.-Oct. 2005
2 Brush	2	JICA, Jun. 2005	4 Electronic timer	2	JICA, Aug.-Oct. 2005
	2	JICA, Jun. 2005	5 Cooling box, round shape	1	JICA, Aug.-Oct. 2005
	2	JICA, Jun. 2005	6 Water-proof boot	2	JICA, Aug.-Oct. 2005
	2	JICA, Jun. 2005	7 Gloves disposable (box/100)	5	JICA, Aug.-Oct. 2005
3 pH paper	1	JICA, Jun. 2005	8 Plastic beaker, 1 liter with hand	1	JICA, Aug.-Oct. 2005
4 Tube support rack	1	JICA, Jun. 2005	9 Water tank, 5 liter w/2 hoses	2	JICA, Aug.-Oct. 2005
5 Drying rack	1	JICA, Jun. 2005	10 Water tank, 20 liter w/2 hoses	2	JICA, Aug.-Oct. 2005
Temp., humidity and barometric pressure meter	1	JICA, Jun. 2005	11 Distilled water tank, 10 liter with tape	1	JICA, Aug.-Oct. 2005
6	1	JICA, Jun. 2005	12 Scissors	2	JICA, Aug.-Oct. 2005
7 Temperature meter	2	JICA, Jun. 2005	13 Carton cutter	2	JICA, Aug.-Oct. 2005
8 Long-handled dipper	1	JICA, Jun. 2005	14 Meter (5 meters)	2	JICA, Aug.-Oct. 2005
9 Weight bowls	18 sheet	JICA, Jun. 2005	15 Pipette filler 2ml	1	JICA, Aug.-Oct. 2005
10 Spatula-spoon	2	JICA, Jun. 2005	16 Pipette filler 10ml	1	JICA, Aug.-Oct. 2005
11 Trays	1	JICA, Jun. 2005	17 Pipette filler 25ml	1	JICA, Aug.-Oct. 2005
12 Bucket with spout	2	JICA, Jun. 2005	18 Plastic cylinder 1000ml	1	JICA, Aug.-Oct. 2005
13 Rops	1	JICA, Jun. 2005	19 Plastic cylinder 500ml	1	JICA, Aug.-Oct. 2005
14 Vinyl tape	5	JICA, Jun. 2005	20 Plastic beaker 500ml	1	JICA, Aug.-Oct. 2005
15 Oil pen	2	JICA, Jun. 2005	21 Glass beaker 1 liter	2	JICA, Aug.-Oct. 2005
16 Safety gloves	5	JICA, Jun. 2005	22 Glass beaker 600ml	2	JICA, Aug.-Oct. 2005
17 Cotton work gloves	1	JICA, Jun. 2005	23 Pipetting ball w/2 valves	2	JICA, Aug.-Oct. 2005
18 Waterproof boots	1	JICA, Jun. 2005	24 Field battery light, plastic	1	JICA, Aug.-Oct. 2005
19 Cold reserving material	12	JICA, Jun. 2005	25 Forceps	2	JICA, Aug.-Oct. 2005
20 File with clip	2	JICA, Jun. 2005	26 Rope 27 meters	1	JICA, Aug.-Oct. 2005
			27 Cotton cap	4	JICA, Aug.-Oct. 2005
			28 Spatula spoon	2	JICA, Aug.-Oct. 2005
			29 Half mask with filter for gases	1	JICA, Aug.-Oct. 2005
			30 Yellow tips for micro pipette	70	JICA, Aug.-Oct. 2005
			31 Oil pen	3	JICA, Aug.-Oct. 2005
			32 Vinyl tape	5	JICA, Aug.-Oct. 2005
			33 Sampler 3 meters split h	1	JICA, Aug.-Oct. 2005
			34 Trays 270 x 270 x 120 mm	1	JICA, Aug.-Oct. 2005
			35 Trays 450 x 320 x 150 mm	1	JICA, Aug.-Oct. 2005
			36 Rechargeable battery	30	JICA, Aug.-Oct. 2005
			37 Battery charger	1	JICA, Aug.-Oct. 2005
			38 Sulfuric acid, 1 liter	1	JICA, Aug.-Oct. 2005
			39 Formic acid, 1 liter	1	JICA, Aug.-Oct. 2005
			40 Acetic acid, 1 liter	1	JICA, Aug.-Oct. 2005
			41 Paper filter, 15cm dia. (box/100)	2	JICA, Aug.-Oct. 2005
			42 Cell for DR/890	10	JICA, Aug.-Oct. 2005

IV-3 (10) Hasakeh DFEA

Glassware List for Laboratory in Hasakeh DFEA (Basic Water Quality Analysis)

Name of Glassware	Model	Quantity	Remarks
1) Whole Pipettes	BRAND (1ml)	2	JICA, Jun. 2005
	BRAND (2ml)	2	JICA, Jun. 2005
	BRAND (5ml)	3	JICA, Jun. 2005
	BRAND (10ml)	3	JICA, Jun. 2005
	BRAND (20ml)	2	JICA, Jun. 2005
	BRAND (50ml)	2	JICA, Jun. 2005
2) Graduated pipettes	BRAND (100ml)	1	JICA, Jun. 2005
	BRAND (1ml)	3	JICA, Jun. 2005
	BRAND (5ml)	3	JICA, Jun. 2005
	BRAND (10ml)	3	JICA, Jun. 2005
	Micro Pipette Filler	2	JICA, Jun. 2005
	Pipette Filler	2	JICA, Jun. 2005
4) Graduated beakers	PMP (50ml)	2	JICA, Jun. 2005
	PMP (100ml)	2	JICA, Jun. 2005
	PMP (150ml)	2	JICA, Jun. 2005
	PMP (250ml)	2	JICA, Jun. 2005
	Hirschman (25ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	2	JICA, Jun. 2005
5) Volumetric Flasks	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (200ml)	2	JICA, Jun. 2005
	Hirschman (25ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	2	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (200ml)	2	JICA, Jun. 2005
6) Volumetric Flasks	NALGENE, IDL (125ml)	3	JICA, Jun. 2005
	NALGENE, IDL (250ml)	3	JICA, Jun. 2005
	NALGENE, IDL (500ml)	2	JICA, Jun. 2005
	Retberg (100ml)	2	JICA, Jun. 2005
	Retberg (200ml)	2	JICA, Jun. 2005
	Retberg (300ml)	2	JICA, Jun. 2005
9) Stopper	Hirschman (50ml)	6	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (250ml)	2	JICA, Jun. 2005
	NALGENE, IDL	3	JICA, Jun. 2005
	VIT-LAB	1	JICA, Jun. 2005
	Soda-Lime, IDL	3	JICA, Jun. 2005
14) Packing Bottle	NALGENE, IDL	60	JICA, Jun. 2005
	Deutsch & Neumann	3	JICA, Jun. 2005
	Deutsch & Neumann	3	JICA, Jun. 2005
	Deutsch & Neumann	3	JICA, Jun. 2005
	KIMWIPES	2	JICA, Jun. 2005
	MANUFIX	2	JICA, Jun. 2005
20) Stand and Clamp	IDL 12892, BOCHEM	2	JICA, Jun. 2005
	IDL, Bosshead	4	JICA, Jun. 2005
	IDL	4	JICA, Jun. 2005
		2	JICA, Jun. 2005
		2	JICA, Jun. 2005
		1	JICA, Jun. 2005

IV-3 (10) Hasakeh DFEA

Reagents List for Laboratory in Hasakeh DFEA (Basic Water Quality Analysis)

Item	Name of Reagent	Usage	Unit	Quantity	Remarks
1	pH standards, pH 4.01	pH calibration	500 ml	2	JICA, Jun. 2005
	pH standards, pH 7.00	pH calibration	500 ml	2	JICA, Jun. 2005
2	Conductivity standards, 180 µs/cm	BC&TDS calibration	100ml	1	JICA, Jun. 2005
	Conductivity standards, 1,000 µs/cm	BC&TDS calibration	100ml	1	JICA, Jun. 2005
	Conductivity standards, 18,000 µs/cm	BC&TDS calibration	100ml	1	JICA, Jun. 2005
	Turbidity Standards Kit for 2100 P Turbidity	Turbidity calibration	500 ml for each	1	JICA, Jun. 2005
	Meier (0.1, 20, 100, 800 NTU)	Turbidity calibration	500 ml for each	1	JICA, Jun. 2005
4	Reagents (High range 0-1,500 mg/l) for COD _{Cr}	COD _{Cr}	25 tests/PK	31	JICA, Jun. 2005
5	Reagents for NO ₃ ⁻ -N (High range, 0-30.0 mg/l)	NO ₃ ⁻ -N	100 tests/PK	8	JICA, Jun. 2005
6	Reagents for PO ₄ ³⁻ (High range, 0-30.00 mg/l)	PO ₄ ³⁻	100 tests/PK	8	JICA, Jun. 2005
7	Reagents for Cl ⁻ (0-10,000 mg/l)	Cl ⁻	100 tests/set	8	JICA, Jun. 2005
8	Reagents for NH ₃ -N (High range, 0-50 mg/l)	NH ₃ -N	50 tests/PK	15	JICA, Jun. 2005
9	Nitrification Inhibitor	BOD	500g	1	JICA, Jun. 2005
10	BOD Nutrient Buffer Pillows	BOD	50 pillows/PK	15	JICA, Jun. 2005
11	BOD Seed Inoculum	BOD	50 capsules/bottle	7	JICA, Jun. 2005
12	NaOH Pack	BOD	1000g/PK	1	JICA, Jun. 2005
13	Reagents (Low range 0-150 mg/l) for COD _{Cr}	COD _{Cr}	25 tests/PK	2	JICA, Jun. 2006
14	Reagents for NO ₃ ⁻ -N (Mid range, 0-5.0 mg/l)	NO ₃ ⁻ -N	100 tests/PK	1	JICA, Jun. 2006
15	Reagents for PO ₄ ³⁻ (Low range, 0-2.50 mg/l)	PO ₄ ³⁻	100 tests/PK	1	JICA, Jun. 2006
16	Reagents for NH ₃ -N (Low range, 0-2.50 mg/l)	NH ₃ -N	50 tests/PK	1	JICA, Jun. 2006
17	COD standard, 300 mg/l	Check COD	200 ml	1	JICA, Jun. 2006
18	COD standard, 1000 mg/l	Check COD	200 ml	1	JICA, Jun. 2006
19	NO ₃ ⁻ -N standard, 1.0 mg/l	Check NO ₃ ⁻ -N	500 ml	1	JICA, Jun. 2006
20	NO ₃ ⁻ -N standard, 10.0 mg/l	Check NO ₃ ⁻ -N	500 ml	1	JICA, Jun. 2006
21	NO ₃ ⁻ -N standard, 100 mg/l	Check NO ₃ ⁻ -N	500 ml	1	JICA, Jun. 2006
22	PO ₄ ³⁻ standard, 50 mg/l	Check PO ₄ ³⁻	500 ml	1	JICA, Jun. 2006
23	NH ₃ -N standard, 10 mg/l	Check NH ₃ -N	500 ml	1	JICA, Jun. 2006
24	NH ₃ -N standard, 50 mg/l	Check NH ₃ -N	10 ml/16 Vouluette Amples	1	JICA, Jun. 2006
25	BOD standard, 300 mg/l	Check BOD	10 ml/16 Vouluette Amples	1	JICA, Jun. 2006
26	BOD standard, 3000 mg/l	Check BOD	10 ml/16 Vouluette Amples	1	JICA, Jun. 2006
27	Cl ⁻ standard, 1000 mg/l	Check Cl ⁻	500 ml	1	JICA, Jun. 2006
28	Bromine Water 30g/l	NO ₂ interfering (NO ₂ testing)	29 mL	1	JICA, Jun. 2006
29	Phenol Solution	NO ₂ interfering (NO ₂ testing)	29 mL	1	JICA, Jun. 2006
30	Sulfamic acid	NO ₂ interfering (PO ₄ testing)	113 g	1	JICA, Jun. 2006
31	Phosphate Pretreatment Powder Pillows	Turbidity and color interfering	100/pkg	1	JICA, Jun. 2006
32	Hydrochloric Acid, ACS	pH adjusting (NH ₃ ⁻ , N, PO ₄ etc.)	500 mL	1	JICA, Jun. 2006
33	Sulfide Inhibitor Powder Pillows	S interfering (Cl ⁻ , NH ₃ -N testing)	100/pkg	1	JICA, Jun. 2006
34	Mercuric Sulfate	Cl ⁻ interfering (COD testing)	28.3 g	1	JICA, Jun. 2006
35	Hydrogen Peroxide, 30% ACS	Sulfite interfering (Cl ⁻ testing)	500 mL	1	JICA, Jun. 2006

IV-3 (11) Rakka DFEA

Equipment List in Rakka DFEA (Basic Water Quality Analysis)

Name of Instrument	Quantity	Remarks	Name of Instrument	Quantity	Remarks
1	1	JICA, Jun. 2005	Portable Colorimeter Kit	1	JICA, Jun. 2005
2	1	JICA, Jun. 2005	Portable pH and Temp. Meter	1	JICA, Jun. 2005
3	1	JICA, Jun. 2005	Portable EC and TDS Meter	1	JICA, Jun. 2005
4	1	JICA, Jun. 2005	Portable DO Meter	1	JICA, Jun. 2005
5	1	JICA, Jun. 2005	Portable Turbidity Meter	1	JICA, Jun. 2005
6	1	JICA, Jun. 2005	COD Reactor	1	JICA, Jun. 2005
7	1	JICA, Jun. 2005	Digital Titrator	1	JICA, Jun. 2005
8	2	JICA, Jun. 2005	Stirring platform for BOD Analysis	2	JICA, Jun. 2005
9	24	JICA, Jun. 2005	BOD bottle with OxiTop measuring head	24	JICA, Jun. 2005
10	1	JICA, Jun. 2005	Incubator	1	JICA, Jun. 2005
11	1	JICA, Jun. 2005	Analytical Balance	1	JICA, Jun. 2005
12	1	JICA, Jun. 2005	Table for Balance	1	JICA, Jun. 2005
13	1	JICA, Jun. 2005	Pure Water Unit	1	JICA, Jun. 2005
14	1	JICA, Jun. 2005	Desktop Computer+UPS	1	JICA, Jun. 2005
15	1	JICA, Jun. 2005	Printer	1	JICA, Jun. 2005
16	1	JICA, Jun. 2005	Digital Camera	1	JICA, Jun. 2005
17	1	JICA, Jun. 2005	Special Pipette Containers	1	JICA, Jun. 2005
18	2	JICA, Jun. 2005	Tank for Liquid Wastes	2	JICA, Jun. 2005
19	2	JICA, Jun. 2005	Ice Box for sampling	2	JICA, Jun. 2005
20	1	JICA, Apr. 2006	Refrigerator	1	JICA, Apr. 2006

IV-3 (10) Hasakeh DFEA

Additional Instrument List for Laboratory in Hasakeh DFEA (Basic Water Quality Analysis)

Name of Instrument	Quantity	Remarks	Name of Instrument	Quantity	Remarks
1	1	JICA, Jun. 2005	Plastic funnel, 12cm dia	2	JICA, Aug-Oct. 2005
2	1	JICA, Jun. 2005	Safety glove	1	JICA, Aug-Oct. 2005
3	0	JICA, Jun. 2005	Calculator	2	JICA, Aug-Oct. 2005
4	2	JICA, Jun. 2005	Electronic timer	2	JICA, Aug-Oct. 2005
5	2	JICA, Jun. 2005	Cooling box, round shape	1	JICA, Aug-Oct. 2005
6	2	JICA, Jun. 2005	Water-proof boot	2	JICA, Aug-Oct. 2005
7	2	JICA, Jun. 2005	Gloves, disposable (box/100)	5	JICA, Aug-Oct. 2005
8	1	JICA, Jun. 2005	Plastic beaker, 1 liter with hand	1	JICA, Aug-Oct. 2005
9	1	JICA, Jun. 2005	Water tank, 5 liter w/2 hoses	2	JICA, Aug-Oct. 2005
10	1	JICA, Jun. 2005	Water tank, 20 liter w/2 hoses	2	JICA, Aug-Oct. 2005
11	2	JICA, Jun. 2005	Distilled water tank, 10 liter with tap	1	JICA, Aug-Oct. 2005
12	1	JICA, Jun. 2005	Scissors	2	JICA, Aug-Oct. 2005
13	18 sheet	JICA, Jun. 2005	Carton cutter	2	JICA, Aug-Oct. 2005
14	18 sheet	JICA, Jun. 2005	Meter (5 meters)	2	JICA, Aug-Oct. 2005
15	2	JICA, Jun. 2005	Pipette filler 2ml	1	JICA, Aug-Oct. 2005
16	1	JICA, Jun. 2005	Pipette filler 10ml	1	JICA, Aug-Oct. 2005
17	2	JICA, Jun. 2005	Pipette filler 25ml	1	JICA, Aug-Oct. 2005
18	1	JICA, Jun. 2005	Plastic cylinder 1000ml	1	JICA, Aug-Oct. 2005
19	5	JICA, Jun. 2005	Plastic cylinder 500ml	1	JICA, Aug-Oct. 2005
20	2	JICA, Jun. 2005	Plastic beaker, 500ml	1	JICA, Aug-Oct. 2005
21	1	JICA, Jun. 2005	Glass beaker 1 liter	2	JICA, Aug-Oct. 2005
22	5	JICA, Jun. 2005	Glass beaker 600ml	2	JICA, Aug-Oct. 2005
23	1	JICA, Jun. 2005	Fingerprint ball w/2 valves	2	JICA, Aug-Oct. 2005
24	12	JICA, Jun. 2005	Field battery light, plastic	1	JICA, Aug-Oct. 2005
25	2	JICA, Jun. 2005	Forceps	2	JICA, Aug-Oct. 2005
26	2	JICA, Jun. 2005	Rope 27 meters	1	JICA, Aug-Oct. 2005
27	1	JICA, Mar. 2006	Cotton cap	4	JICA, Aug-Oct. 2005
28	1	JICA, Jun. 2005	Spatula spoon	2	JICA, Aug-Oct. 2005
29	1	JICA, Jun. 2005	Half mask with filter for gases	1	JICA, Aug-Oct. 2005
30	70	JICA, Jun. 2005	Yellow tips for micro pipette	70	JICA, Aug-Oct. 2005
31	3	JICA, Jun. 2005	Oil pen	3	JICA, Aug-Oct. 2005
32	5	JICA, Jun. 2005	Vinyl tape	5	JICA, Aug-Oct. 2005
33	1	JICA, Jun. 2005	Sampler 3 meters split h	1	JICA, Aug-Oct. 2005
34	1	JICA, Jun. 2005	Trays 270 x 270 x 120 mm	1	JICA, Aug-Oct. 2005
35	1	JICA, Jun. 2005	Trays 450 x 320 x 150 mm	1	JICA, Aug-Oct. 2005
36	30	JICA, Jun. 2005	Rechargeable battery	30	JICA, Aug-Oct. 2005
37	1	JICA, Jun. 2005	Battery charger	1	JICA, Aug-Oct. 2005
38	1	JICA, Jun. 2005	Sulfuric acid, 1 liter	1	JICA, Aug-Oct. 2005
39	1	JICA, Jun. 2005	Formic acid, 1 liter	1	JICA, Aug-Oct. 2005
40	1	JICA, Jun. 2005	Acetic acid, 1 liter	1	JICA, Aug-Oct. 2005
41	2	JICA, Jun. 2005	Paper filter, 15cm dia. (box/100)	2	JICA, Aug-Oct. 2005
42	10	JICA, Jun. 2005	Cell for DR/890	10	JICA, Aug-Oct. 2005

IV-3 (11) Rakka DFEA

Glassware List for Laboratory in Rakka DFEA (Basic Water Quality Analysis)

Name of Glassware	Model	Quantity	Remarks
1) Whole Pipettes	BRAND (1ml)	2	JICA, Jun. 2005
	BRAND (2ml)	2	JICA, Jun. 2005
	BRAND (5ml)	3	JICA, Jun. 2005
	BRAND (10ml)	3	JICA, Jun. 2005
	BRAND (20ml)	2	JICA, Jun. 2005
	BRAND (50ml)	2	JICA, Jun. 2005
	BRAND (100ml)	1	JICA, Jun. 2005
	BRAND (150ml)	3	JICA, Jun. 2005
	BRAND (50ml)	3	JICA, Jun. 2005
	BRAND (100ml)	3	JICA, Jun. 2005
2) Graduated pipettes	BRAND (10ml)	3	JICA, Jun. 2005
	BRAND (5ml)	3	JICA, Jun. 2005
3) Pipette Fillers	Micro Pipette Filler	2	JICA, Jun. 2005
	Pipette Filler	2	JICA, Jun. 2005
4) Graduated beakers	PMP (50ml)	2	JICA, Jun. 2005
	PMP (100ml)	2	JICA, Jun. 2005
	PMP (150ml)	2	JICA, Jun. 2005
	PMP (250ml)	2	JICA, Jun. 2005
	Hirschman (25ml)	2	JICA, Jun. 2005
5) Volumetric Flasks	Hirschman (50ml)	2	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (200ml)	2	JICA, Jun. 2005
	Hirschman (250ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	2	JICA, Jun. 2005
6) Volumetric Flasks	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (200ml)	2	JICA, Jun. 2005
	Hirschman (250ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	2	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
7) Erlenmeyer Flasks	NALGENE, IDL (125ml)	3	JICA, Jun. 2005
	NALGENE, IDL (250ml)	3	JICA, Jun. 2005
	NALGENE, IDL (500ml)	2	JICA, Jun. 2005
	Retberg (100ml)	2	JICA, Jun. 2005
	Retberg (200ml)	2	JICA, Jun. 2005
8) Erlenmeyer Flasks with Ground Joints	Retberg (300ml)	2	JICA, Jun. 2005
	Retberg (600ml)	2	JICA, Jun. 2005
9) Stopper	Hirschman (50ml)	6	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
10) Graduated Cylinders	Hirschman (250ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	2	JICA, Jun. 2005
11) Wash Bottles with Bottle, Screw Cap, Riser Tube and Tube Holder	NALGENE, IDL	3	JICA, Jun. 2005
	VIT-LAB	1	JICA, Jun. 2005
12) Graduated Beakers	Soda-Lime, IDL	3	JICA, Jun. 2005
	Soda-Lime, IDL	3	JICA, Jun. 2005
	Soda-Lime, IDL	3	JICA, Jun. 2005
13) Funnels	NALGENE, IDL	60	JICA, Jun. 2005
	Deutsch & Neumann	3	JICA, Jun. 2005
14) Packing Bottle	Deutsch & Neumann	3	JICA, Jun. 2005
	Deutsch & Neumann	3	JICA, Jun. 2005
15) Rubber Bulb for Small Pipette	Deutsch & Neumann	3	JICA, Jun. 2005
	Deutsch & Neumann	3	JICA, Jun. 2005
16) Sealing Film	KIMWIPES	2	JICA, Jun. 2005
	MANUFIX	2	JICA, Jun. 2005
17) Cleaning Tissue	KIMWIPES	2	JICA, Jun. 2005
	MANUFIX	2	JICA, Jun. 2005
18) Gloves	KIMWIPES	2	JICA, Jun. 2005
	MANUFIX	2	JICA, Jun. 2005
19) Goggles	KIMWIPES	2	JICA, Jun. 2005
	MANUFIX	2	JICA, Jun. 2005
20) Stand and Clamp	DIN 12892, BOCHEM	2	JICA, Jun. 2005
	IDL, Bosshead	4	JICA, Jun. 2005
21) Cleaning Agent	IDL	4	JICA, Jun. 2005
	IDL	2	JICA, Jun. 2005

IV-3 (11) Rakka DFEA

Reagents List for Laboratory in Rakka DFEA (Basic Water Quality Analysis)

Item	Name of Reagent	Usage	Unit	Quantity	Remarks
1	pH standards, pH 4.01	pH calibration	500 ml	2	JICA, Jun. 2005
	pH standards, pH 7.00	pH calibration	500 ml	2	JICA, Jun. 2005
2	pH standards, pH 10.00	BC&TDS calibration	500 ml	2	JICA, Jun. 2005
	Conductivity standards, 180 µs/cm	BC&TDS calibration	100ml	1	JICA, Jun. 2005
3	Conductivity standards, 1,000 µs/cm	BC&TDS calibration	100ml	1	JICA, Jun. 2005
	Conductivity standards, 18,000 µs/cm	BC&TDS calibration	100ml	1	JICA, Jun. 2005
4	Turbidity Standards Kit for 2100 P Turbidity Meter (0.1, 20, 100, 800 NTU)	Turbidity calibration	500 ml for each	1	JICA, Jun. 2005
	Reagents (High range 0-1,500 mg/l) for COD _{Cr}	COD _{Cr}	25 tests/PK	31	JICA, Jun. 2005
5	Reagents for NO ₃ ⁻ -N (High range, 0-30.0 mg/l)	NO ₃ ⁻ -N	100 tests/PK	8	JICA, Jun. 2005
	Reagents for PO ₄ ³⁻ (High range, 0-30.00 mg/l)	PO ₄ ³⁻	100 tests/PK	8	JICA, Jun. 2005
6	Reagents for PO ₄ ³⁻ (High range, 0-30.00 mg/l)	PO ₄ ³⁻	100 tests/PK	8	JICA, Jun. 2005
	Reagents for Cl ⁻ (0-10,000 mg/l)	Cl ⁻	100 tests/set	8	JICA, Jun. 2005
7	Reagents for NH ₃ -N (High range, 0-50 mg/l)	NH ₃ -N	50 tests/PK	15	JICA, Jun. 2005
	Nitrification Inhibitor	BOD	500g	1	JICA, Jun. 2005
8	BOD Nutrient Buffer, Pillows	BOD	50 pillows/PK	15	JICA, Jun. 2005
	BOD Seed Inoculum	BOD	50 capsules/bottle	7	JICA, Jun. 2005
9	BOD Seed Inoculum	BOD	1000g/PK	1	JICA, Jun. 2005
	Reagents (Low range 0-150 mg/l) for COD _{Cr}	COD _{Cr}	25 tests/PK	2	JICA, Jun. 2006
10	Reagents for NO ₃ ⁻ -N (Mid range, 0-5.0 mg/l)	NO ₃ ⁻ -N	100 tests/PK	1	JICA, Jun. 2006
	Reagents for PO ₄ ³⁻ (Low range, 0-2.50 mg/l)	PO ₄ ³⁻	100 tests/PK	1	JICA, Jun. 2006
11	Reagents for NH ₃ -N (low range, 0-2.50 mg/l)	NH ₃ -N	50 tests/PK	1	JICA, Jun. 2006
	COD standard, 300 mg/l	Check COD	200 ml	1	JICA, Jun. 2006
12	COD standard, 1000 mg/l	Check COD	200 ml	1	JICA, Jun. 2006
	NO ₃ ⁻ -N standard, 1.0 mg/l	Check NO ₃ ⁻ -N	500 ml	1	JICA, Jun. 2006
13	NO ₃ ⁻ -N standard, 10.0 mg/l	Check NO ₃ ⁻ -N	500 ml	1	JICA, Jun. 2006
	NO ₃ ⁻ -N standard, 100 mg/l	Check NO ₃ ⁻ -N	500 ml	1	JICA, Jun. 2006
14	PO ₄ ³⁻ standard, 50 mg/l	Check PO ₄ ³⁻	500 ml	1	JICA, Jun. 2006
	NH ₃ -N standard, 10 mg/l	Check NH ₃ -N	500 ml	1	JICA, Jun. 2006
15	NH ₃ -N standard, 50 mg/l	Check NH ₃ -N	10 ml/16 Vouluette Amples	1	JICA, Jun. 2006
	BOD standard, 300 mg/l	Check BOD	10 ml/16 Vouluette Amples	1	JICA, Jun. 2006
16	BOD standard, 3000 mg/l	Check BOD	10 ml/16 Vouluette Amples	1	JICA, Jun. 2006
	Cl ⁻ standard, 1000 mg/l	Check Cl ⁻	500 ml	1	JICA, Jun. 2006
17	Bromine Water 30g/L	NO ₃ interfering (NO ₃ testing)	29 mL	1	JICA, Jun. 2006
	Phenol Solution	NO ₂ interfering (NO ₂ testing)	29 mL	1	JICA, Jun. 2006
18	Sulfamic acid	NO ₂ interfering (NO ₂ testing)	113 g	1	JICA, Jun. 2006
	Phosphate Pretreatment Powder Pillows	Turbidity and color interfering	100/pkg	1	JICA, Jun. 2006
19	Hydrochloric Acid, ACS	pH adjusting (NH ₄ ⁺ , N, PO ₄ etc.)	500 mL	1	JICA, Jun. 2006
	Sulfide Inhibitor Powder Pillows	S interfering (Cl ⁻ , NH ₃ -N testing)	100/pkg	1	JICA, Jun. 2006
20	Mercuric Sulfate	Cl ⁻ interfering (COD testing)	28.3 g	1	JICA, Jun. 2006
	Hydrogen Peroxide, 30% ACS	Sulfite interfering (Cl ⁻ testing)	500 mL	1	JICA, Jun. 2006

IV-3 (12) Sweida DFEA

Equipment List in Sweida DFEA

Name of Instrument	Quantity	Remarks	Name of Instrument	Quantity	Remarks
1 Portable Colorimeter Kit	1	JICA, Jun. 2005	HACH	CEL/890	JICA, Jun. 2005
2 Portable pH and Temp. Meter	1	JICA, Jun. 2005	HACH	sensON 1	JICA, Jun. 2005
3 Portable EC and TDS Meter	1	JICA, Jun. 2005	HACH	sensON 5	JICA, Jun. 2005
4 Portable DO Meter	1	JICA, Jun. 2005	HACH	sensON 6	JICA, Jun. 2005
5 Portable Turbidity Meter	1	JICA, Jun. 2005	HACH	2100P	JICA, Jun. 2005
6 COD Reactor	1	JICA, Jun. 2005	HACH	DRB 200-1	JICA, Jun. 2005
7 Digital Titrator	1	JICA, Jun. 2005	HACH	16900	JICA, Jun. 2005
8 Stirring platform for BOD Analysis	2	JICA, Jun. 2005	WTW	OxiTop JS12	JICA, Jun. 2005
9 BOD bottle with OxiTop measuring head	24	JICA, Jun. 2005	WTW	-	JICA, Jun. 2005
10 Incubator	1	JICA, Jun. 2005	WTW	TS 606/2i	JICA, Jun. 2005
11 Analytical Balance	1	JICA, Jun. 2005	Sartorius	CP324S	JICA, Jun. 2005
12 Table for Balance	1	JICA, Jun. 2005	Sartorius	YWT03	JICA, Jun. 2005
13 Pure Water Unit	1	JICA, Jun. 2005	GFL	2001/4	JICA, Jun. 2005
14 Desktop Computer+UPS	1	JICA, Jun. 2005	Mall Tech	CMAX PCI	JICA, Jun. 2005
15 Printer	1	JICA, Jun. 2005	Hewlett-Packard	1010	JICA, Jun. 2005
16 Digital Camera	1	JICA, Jun. 2005	Kodak	CX7330	JICA, Jun. 2005
17 Special Pipette Containers	1	JICA, Jun. 2005	-	-	JICA, Jun. 2005
18 Tank for Liquid Wastes	2	JICA, Jun. 2005	-	-	JICA, Jun. 2005
19 Ice Box for sampling	2	JICA, Jun. 2005	-	-	JICA, Jun. 2005
20 Refrigerator	1	JICA, Apr. 2006	Local	-	JICA, Apr. 2006

IV-3 (11) Rakka DFEA

Additional Instrument List for Laboratory in Rakka DFEA (Basic Water Quality Analysis)

Name of Instrument	Quantity	Remarks	Name of Instrument	Quantity	Remarks
1 White cloth, M	0	JICA, Jun. 2005	1 Plastic funnel, 12cm dia	2	JICA, Aug-Oct. 2005
L	6	JICA, Jun. 2005	2 Safety glove	1	JICA, Aug-Oct. 2005
XL	0	JICA, Jun. 2005	3 Calculator	2	JICA, Aug-Oct. 2005
2 Brush	2	JICA, Jun. 2005	4 Electronic timer	1	JICA, Aug-Oct. 2005
	2	JICA, Jun. 2005	5 Cooling box, round shape	2	JICA, Aug-Oct. 2005
3 pH paper	1	JICA, Jun. 2005	6 Water-proof boot	2	JICA, Aug-Oct. 2005
	2	JICA, Jun. 2005	7 Gloves disposable (box/100)	5	JICA, Aug-Oct. 2005
4 Tube support rack	1	JICA, Jun. 2005	8 Plastic beaker, 1 liter with hand	1	JICA, Aug-Oct. 2005
5 Drying rack	1	JICA, Jun. 2005	9 Water tank, 5 liter w/2 hoses	2	JICA, Aug-Oct. 2005
6 Temp., humidity and barometric pressure meter	1	JICA, Jun. 2005	10 Water tank, 20 liter w/2 hoses	2	JICA, Aug-Oct. 2005
7 Temperature meter	2	JICA, Jun. 2005	11 Distilled water tank, 10 liter with tap	1	JICA, Aug-Oct. 2005
8 Long-handled dipper	1	JICA, Jun. 2005	12 Scissors	2	JICA, Aug-Oct. 2005
9 Weight boats	18 sheet	JICA, Jun. 2005	13 Carton cutter	2	JICA, Aug-Oct. 2005
	18 sheet	JICA, Jun. 2005	14 Meter (5 meters)	2	JICA, Aug-Oct. 2005
10 Spatula-spoon	2	JICA, Jun. 2005	15 Pipette filler 2ml	1	JICA, Aug-Oct. 2005
11 Trays	1	JICA, Jun. 2005	16 Pipette filler 10ml	1	JICA, Aug-Oct. 2005
12 Bucket with spout	2	JICA, Jun. 2005	17 Pipette filler 25ml	1	JICA, Aug-Oct. 2005
13 Rope	1	JICA, Jun. 2005	18 Plastic cylinder: 1000ml	1	JICA, Aug-Oct. 2005
14 Vinyl tape	5	JICA, Jun. 2005	19 Plastic cylinder: 500ml	1	JICA, Aug-Oct. 2005
15 Oil pan	2	JICA, Jun. 2005	20 Plastic beaker 500ml	1	JICA, Aug-Oct. 2005
16 Safety gloves	1	JICA, Jun. 2005	21 Glass beaker 1 liter	2	JICA, Aug-Oct. 2005
17 Cotton work gloves	5	JICA, Jun. 2005	22 Glass beaker 600ml	2	JICA, Aug-Oct. 2005
18 Waterproof boots	1	JICA, Jun. 2005	23 Pipetting ball w/2 valves	2	JICA, Aug-Oct. 2005
19 Cold reserving material	12	JICA, Jun. 2005	24 Field battery light, plastic	1	JICA, Aug-Oct. 2005
20 File with clip	2	JICA, Jun. 2005	25 Forceps	2	JICA, Aug-Oct. 2005
21 Generator	1	JICA, Mar. 2006	26 Rope 27 meters	1	JICA, Aug-Oct. 2005
			27 Cotton cap	4	JICA, Aug-Oct. 2005
			28 Spatula spoon	2	JICA, Aug-Oct. 2005
			29 Half mask with filter for gases	1	JICA, Aug-Oct. 2005
			30 Yellow tips for micro pipette	70	JICA, Aug-Oct. 2005
			31 Oil pen	3	JICA, Aug-Oct. 2005
			32 Vinyl taps	5	JICA, Aug-Oct. 2005
			33 Sampler 3 meters split h	1	JICA, Aug-Oct. 2005
			34 Trays 270 x 270 x 120 mm	1	JICA, Aug-Oct. 2005
			35 Trays 450 x 320 x 150 mm	1	JICA, Aug-Oct. 2005
			36 Rechargeable battery	30	JICA, Aug-Oct. 2005
			37 Battery charger	1	JICA, Aug-Oct. 2005
			38 Sulfuric acid, 1 liter	1	JICA, Aug-Oct. 2005
			39 Formic acid, 1 liter	1	JICA, Aug-Oct. 2005
			40 Acetic acid, 1 liter	1	JICA, Aug-Oct. 2005
			41 Paper filter, 15cm dia. (box/100)	2	JICA, Aug-Oct. 2005
			42 Cell for DR/890	10	JICA, Aug-Oct. 2005

IV-3 (12) Sweida DFEA

Glassware List for Laboratory in Sweida DFEA (Basic Water Quality Analysis)

Name of Glassware	Model	Quantity	Remarks
1 Whole Pipettes	BRAND (1ml)	2	JICA, Jun. 2005
	BRAND (2ml)	2	JICA, Jun. 2005
	BRAND (5ml)	3	JICA, Jun. 2005
	BRAND (10ml)	3	JICA, Jun. 2005
	BRAND (20ml)	2	JICA, Jun. 2005
	BRAND (50ml)	2	JICA, Jun. 2005
	BRAND (100ml)	1	JICA, Jun. 2005
2 Graduated pipettes	BRAND (1ml)	3	JICA, Jun. 2005
	BRAND (5ml)	3	JICA, Jun. 2005
	BRAND (10ml)	3	JICA, Jun. 2005
3 Pipette Fillers	Micro Pipette Filler	2	JICA, Jun. 2005
	Pipette Filler	2	JICA, Jun. 2005
4 Graduated beakers	PMP (50ml)	2	JICA, Jun. 2005
	PMP (100ml)	2	JICA, Jun. 2005
	PMP (150ml)	2	JICA, Jun. 2005
	PMP (250ml)	2	JICA, Jun. 2005
	Hirschman (25ml)	2	JICA, Jun. 2005
5 Volumetric Flasks	Hirschman (50ml)	2	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (200ml)	2	JICA, Jun. 2005
	Hirschman (25ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	2	JICA, Jun. 2005
6 Volumetric Flasks	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (200ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	2	JICA, Jun. 2005
7 Erlenmeyer Flasks	NALGENE, IDL (125ml)	3	JICA, Jun. 2005
	NALGENE, IDL (250ml)	3	JICA, Jun. 2005
	NALGENE, IDL (500ml)	2	JICA, Jun. 2005
8 Erlenmeyer Flasks with Ground Joints	Retberg (100ml)	2	JICA, Jun. 2005
	Retberg (200ml)	2	JICA, Jun. 2005
	Retberg (300ml)	2	JICA, Jun. 2005
9 Stopper		6	JICA, Jun. 2005
10 Graduated Cylinders	Hirschman (50ml)	2	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (250ml)	2	JICA, Jun. 2005
11 Wash Bottles with Bottle, Screw Cap, Riser Tube and Tube Holder	NALGENE, IDL	3	JICA, Jun. 2005
	VIT-LAB	1	JICA, Jun. 2005
12 Graduated Beakers	Soda-Lime, IDL	3	JICA, Jun. 2005
	Soda-Lime, IDL	3	JICA, Jun. 2005
13 Funnels	NALGENE, IDL	60	JICA, Jun. 2005
	Deutsch & Neumann	3	JICA, Jun. 2005
14 Packing Bottle	Deutsch & Neumann	3	JICA, Jun. 2005
	Deutsch & Neumann	3	JICA, Jun. 2005
15 Rubber Bulb for Small Pipette	Deutsch & Neumann	3	JICA, Jun. 2005
	Deutsch & Neumann	2	JICA, Jun. 2005
16 Sealing Film	KIMWIPES	2	JICA, Jun. 2005
17 Cleaning Tissue	MANUFIX	2	JICA, Jun. 2005
18 Gloves		2	JICA, Jun. 2005
19 Goggles		2	JICA, Jun. 2005
20 Stand and Clamp	DIN 12892, BOCHHEM	2	JICA, Jun. 2005
	IDL, Bosshead	4	JICA, Jun. 2005
21 Cleaning Agent	IDL	4	JICA, Jun. 2005
		2	JICA, Jun. 2005

IV-3 (12) Sweida DFEA

Reagents List for Laboratory in Sweida DFEA (Basic Water Quality Analysis)

No.	Name of Reagent	Usage	Unit	Quantity	Remarks
1	pH standards, pH 4.01	pH calibration	500 ml	2	JICA, Jun. 2005
	pH standards, pH 7.00		500 ml	2	JICA, Jun. 2005
	pH standards, pH 10.00		500 ml	2	JICA, Jun. 2005
2	Conductivity standards, 180 µs/cm	EC&TDS calibration	100ml	1	JICA, Jun. 2005
	Conductivity standards, 1,000 µs/cm		100ml	1	JICA, Jun. 2005
	Conductivity standards, 18,000 µs/cm		100ml	1	JICA, Jun. 2005
3	Turbidity Standards Kit for 2100 P Turbidity Meter (0.1, 20, 100, 800 NTU)	Turbidity calibration	500 ml for each	1	JICA, Jun. 2005
4	Reagents for NO ₃ -N (High range 0-1,500 mg/l) for COD _{Cr}	COD _{Cr}	25 tests/PK	31	JICA, Jun. 2005
5	Reagents for NO ₃ -N (High range, 0-30.00 mg/l)	NO ₃ -N	100 tests/PK	8	JICA, Jun. 2005
6	Reagents for PO ₄ ³⁻ (High range, 0-30.00 mg/l)	PO ₄ ³⁻	100 tests/PK	8	JICA, Jun. 2005
7	Reagents for Cl ⁻ (0-10,000 mg/l)	Cl ⁻	100 tests/ser	8	JICA, Jun. 2005
8	Reagents for NH ₃ -N (High range, 0-50 mg/l)	NH ₃ -N	50 tests/PK	15	JICA, Jun. 2005
9	Nitritation Inhibitor	BOD	500g	1	JICA, Jun. 2005
10	BOD Nutrient Buffer Pillows	BOD	50 pillows/PK	15	JICA, Jun. 2005
11	BOD Seed Inoculum	BOD	50 capsules/bottle	7	JICA, Jun. 2005
12	NaOH Pack	BOD	1000g/PK	1	JICA, Jun. 2005
13	Reagents (Low range 0-150 mg/l) for COD _{Cr}	COD _{Cr}	25 tests/PK	2	JICA, Jun. 2006
14	Reagents for NO ₂ -N (Mid range, 0-5.0 mg/l)	NO ₂ -N	100 tests/PK	1	JICA, Jun. 2006
15	Reagents for PO ₄ ³⁻ (Low range, 0-2.50 mg/l)	PO ₄ ³⁻	100 tests/PK	1	JICA, Jun. 2006
16	Reagents for NH ₃ -N (low range, 0-2.50 mg/l)	NH ₃ -N	50 tests/PK	1	JICA, Jun. 2006
17	COD standard, 300 mg/l	Check COD	200 ml	1	JICA, Jun. 2006
18	COD standard, 1000 mg/l	Check COD	200 ml	1	JICA, Jun. 2006
19	NO ₂ -N standard, 1.0 mg/l	Check NO ₂ -N	500 ml	1	JICA, Jun. 2006
20	NO ₃ -N standard, 10.0 mg/l	Check NO ₃ -N	500 ml	1	JICA, Jun. 2006
21	NO ₂ -N standard, 100 mg/l	Check NO ₂ -N	500 ml	1	JICA, Jun. 2006
22	PO ₄ ³⁻ standard, 50 mg/l	Check PO ₄ ³⁻	500 ml	1	JICA, Jun. 2006
23	NH ₃ -N standard, 10 mg/l	Check NH ₃ -N	500 ml	1	JICA, Jun. 2006
24	NH ₃ -N standard, 50 mg/l	Check NH ₃ -N	10 ml/16 Viallette Amples	1	JICA, Jun. 2006
25	BOD standard, 300 mg/l	Check BOD	10 ml/16 Viallette Amples	1	JICA, Jun. 2006
26	BOD standard, 3000 mg/l	Check BOD	10 ml/16 Viallette Amples	1	JICA, Jun. 2006
27	Cl ⁻ standard, 1000 mg/l	Check Cl ⁻	500 ml	1	JICA, Jun. 2006
28	Bromine Water 30g/L	NO ₂ interfering (NO ₂ testing)	29 mL	1	JICA, Jun. 2006
29	Phenol Solution	NO ₂ interfering (NO ₂ testing)	29 mL	1	JICA, Jun. 2006
30	Sulfamic acid	NO ₂ interfering (PO ₄ testing)	113 g	1	JICA, Jun. 2006
31	Phosphate Pretreatment Powder Pillows	Turbidity and color interfering	1000/pkg	1	JICA, Jun. 2006
32	Hydrochloric Acid, ACS	pH adjusting (NH ₃ -N, PO ₄ etc.)	500 mL	1	JICA, Jun. 2006
33	Sulfide Inhibitor Powder Pillows	S interfering (Cl ⁻ , NH ₃ -N testing)	100/pkg	1	JICA, Jun. 2006
34	Mercuric Sulfate	Cl ⁻ interfering (COD testing)	28.3 g	1	JICA, Jun. 2006
35	Hydrogen Peroxide, 30% ACS	Sulfite interfering (Cl ⁻ testing)	500 mL	1	JICA, Jun. 2006

IV-3 (13)Dara DFEA

Equipment List in Dara DFEA (Basic Water Quality Analysis)

Name of Instrument	Quantity	Remarks	Name of Instrument	Quantity	Remarks
1 White cloth, M	2	JICA, Jun. 2005	1 Portable Colorimeter Kit	1	JICA, Jun. 2005
L	1	JICA, Jun. 2005	2 Portable pH and Temp. Meter	1	JICA, Jun. 2005
XL	0	JICA, Jun. 2005	3 Portable EC and TDS Meter	1	JICA, Jun. 2005
2 Brush	2	JICA, Jun. 2005	4 Portable DO Meter	1	JICA, Jun. 2005
	2	JICA, Jun. 2005	5 Portable Turbidity Meter	1	JICA, Jun. 2005
	1	JICA, Jun. 2005	6 COD Reactor	1	JICA, Jun. 2005
	2	JICA, Jun. 2005	7 Digital Titrator	1	JICA, Jun. 2005
3 pH paper	2	JICA, Jun. 2005	8 Stirring platform for BOD Analysis	2	JICA, Jun. 2005
4 Tube support rack	1	JICA, Jun. 2005	9 BOD bottle with OxiTop measuring head	24	JICA, Jun. 2005
5 Drying rack	1	JICA, Jun. 2005	10 Incubator	1	JICA, Jun. 2005
6 Temp., humidity and barometric pressure meter	1	JICA, Jun. 2005	11 Analytical Balance	1	JICA, Jun. 2005
7 Temperature meter	2	JICA, Jun. 2005	12 Table for Balance	1	JICA, Jun. 2005
8 Long-handled dipper	1	JICA, Jun. 2005	13 Pure Water Unit	1	JICA, Jun. 2005
9 Weight boats	18 sheet	JICA, Jun. 2005	14 Desktop Computer+UPS	1	JICA, Jun. 2005
	18 sheet	JICA, Jun. 2005	15 Printer	1	JICA, Jun. 2005
10 Spatula-spoon	2	JICA, Jun. 2005	16 Digital Camera	1	JICA, Jun. 2005
11 Trays	1	JICA, Jun. 2005	17 Special Pipette Containers	1	JICA, Jun. 2005
12 Bucket with spout	2	JICA, Jun. 2005	18 Tank for Liquid Wastes	2	JICA, Jun. 2005
13 Rope	1	JICA, Jun. 2005	19 Ice Box for sampling	2	JICA, Jun. 2005
14 Vinyl tape	5	JICA, Jun. 2005	20 Refrigerator	1	JICA, Apr. 2006
15 Oil pen	2	JICA, Jun. 2005			
16 Safety gloves	1	JICA, Jun. 2005			
17 Cotton work gloves	5	JICA, Jun. 2005			
18 Waterproof boots	1	JICA, Jun. 2005			
19 Cold reserving material	12	JICA, Jun. 2005			
20 File with clip	2	JICA, Jun. 2005			
21 Generator	1	JICA, Mar. 2006			

IV-3 (12)Sweida DFEA

Additional Instrument List for Laboratory in Sweida DFEA (Basic Water Quality Analysis)

Name of Instrument	Quantity	Remarks	Name of Instrument	Quantity	Remarks
1 Plastic funnel, 12cm dia	2	JICA, Aug.-Oct. 2005	1 Plastic beaker, 1 liter with hand	1	JICA, Aug.-Oct. 2005
2 Safety glove	1	JICA, Aug.-Oct. 2005	2 Water tank, 5 liter w/2 hoses	2	JICA, Aug.-Oct. 2005
3 Calculator	2	JICA, Aug.-Oct. 2005	3 Water tank, 20 liter w/2 hoses	2	JICA, Aug.-Oct. 2005
4 Electronic timer	1	JICA, Aug.-Oct. 2005	4 Distilled water tank, 10 liter with tape	1	JICA, Aug.-Oct. 2005
5 Cooling box, round shape	1	JICA, Aug.-Oct. 2005	5 Scissors	2	JICA, Aug.-Oct. 2005
6 Water-proof boot	2	JICA, Aug.-Oct. 2005	6 Carton cutter	2	JICA, Aug.-Oct. 2005
7 Gloves disposable (box/100)	5	JICA, Aug.-Oct. 2005	7 Meter (5 meters)	2	JICA, Aug.-Oct. 2005
8 Plastic beaker, 1 liter with hand	1	JICA, Aug.-Oct. 2005	8 Pipette filler 2ml	1	JICA, Aug.-Oct. 2005
9 Water tank, 5 liter w/2 hoses	2	JICA, Aug.-Oct. 2005	9 Pipette filler 10ml	1	JICA, Aug.-Oct. 2005
10 Water tank, 20 liter w/2 hoses	2	JICA, Aug.-Oct. 2005	10 Pipette filler 25ml	1	JICA, Aug.-Oct. 2005
11 Distilled water tank, 10 liter with tape	1	JICA, Aug.-Oct. 2005	11 Plastic cylinder 1000ml	1	JICA, Aug.-Oct. 2005
12 Scissors	2	JICA, Aug.-Oct. 2005	12 Plastic cylinder 500ml	1	JICA, Aug.-Oct. 2005
13 Carton cutter	2	JICA, Aug.-Oct. 2005	13 Plastic beaker 500ml	1	JICA, Aug.-Oct. 2005
14 Meter (5 meters)	2	JICA, Aug.-Oct. 2005	14 Glass beaker 1 liter	2	JICA, Aug.-Oct. 2005
15 Pipette filler 2ml	1	JICA, Aug.-Oct. 2005	15 Glass beaker 600ml	2	JICA, Aug.-Oct. 2005
16 Pipette filler 10ml	1	JICA, Aug.-Oct. 2005	16 Pipetting ball w/2 valves	2	JICA, Aug.-Oct. 2005
17 Pipette filler 25ml	1	JICA, Aug.-Oct. 2005	17 Field battery light, plastic	1	JICA, Aug.-Oct. 2005
18 Plastic cylinder 1000ml	1	JICA, Aug.-Oct. 2005	18 Porcens	2	JICA, Aug.-Oct. 2005
19 Plastic cylinder 500ml	1	JICA, Aug.-Oct. 2005	19 Rope 27 meters	1	JICA, Aug.-Oct. 2005
20 Plastic beaker 500ml	1	JICA, Aug.-Oct. 2005	20 Cotton cap	4	JICA, Aug.-Oct. 2005
21 Glass beaker 1 liter	2	JICA, Aug.-Oct. 2005	21 Spatula spoon	2	JICA, Aug.-Oct. 2005
22 Glass beaker 600ml	2	JICA, Aug.-Oct. 2005	22 Half mask with filter for gases	1	JICA, Aug.-Oct. 2005
23 Pipetting ball w/2 valves	2	JICA, Aug.-Oct. 2005	23 Yellow tips for micro pipette	70	JICA, Aug.-Oct. 2005
24 Field battery light, plastic	1	JICA, Aug.-Oct. 2005	24 Oil pen	3	JICA, Aug.-Oct. 2005
25 Porcens	2	JICA, Aug.-Oct. 2005	25 Vinyl tape	5	JICA, Aug.-Oct. 2005
26 Rope 27 meters	1	JICA, Aug.-Oct. 2005	26 Sampler 3 meters split h	1	JICA, Aug.-Oct. 2005
27 Cotton cap	4	JICA, Aug.-Oct. 2005	27 Trays 270 x 270 x 120 mm	1	JICA, Aug.-Oct. 2005
28 Spatula spoon	2	JICA, Aug.-Oct. 2005	28 Trays 450 x 320 x 150 mm	1	JICA, Aug.-Oct. 2005
29 Half mask with filter for gases	1	JICA, Aug.-Oct. 2005	29 Rechargeable battery	30	JICA, Aug.-Oct. 2005
30 Yellow tips for micro pipette	70	JICA, Aug.-Oct. 2005	30 Battery charger	1	JICA, Aug.-Oct. 2005
31 Oil pen	3	JICA, Aug.-Oct. 2005	31 Sulfuric acid, 1 liter	1	JICA, Aug.-Oct. 2005
32 Vinyl tape	5	JICA, Aug.-Oct. 2005	32 Formic acid, 1 liter	1	JICA, Aug.-Oct. 2005
33 Sampler 3 meters split h	1	JICA, Aug.-Oct. 2005	33 Paper filter, 15cm dia. (box/100)	2	JICA, Aug.-Oct. 2005
34 Trays 270 x 270 x 120 mm	1	JICA, Aug.-Oct. 2005	34 Cell for DR/890	10	JICA, Aug.-Oct. 2005
35 Trays 450 x 320 x 150 mm	1	JICA, Aug.-Oct. 2005			
36 Rechargeable battery	30	JICA, Aug.-Oct. 2005			
37 Battery charger	1	JICA, Aug.-Oct. 2005			
38 Sulfuric acid, 1 liter	1	JICA, Aug.-Oct. 2005			
39 Formic acid, 1 liter	1	JICA, Aug.-Oct. 2005			
40 Paper filter, 15cm dia. (box/100)	2	JICA, Aug.-Oct. 2005			
41 Cell for DR/890	10	JICA, Aug.-Oct. 2005			

IV-3 (13)Dara DFEA

Glassware List for Laboratory in Dara DFEA (Basic Water Quality Analysis)

Name of Glassware	Model	Quantity	Remarks
1 Whole Pipettes	BRAND (1ml)	2	JICA, Jun. 2005
	BRAND (2ml)	2	JICA, Jun. 2005
	BRAND (5ml)	3	JICA, Jun. 2005
	BRAND (10ml)	3	JICA, Jun. 2005
	BRAND (20ml)	2	JICA, Jun. 2005
	BRAND (50ml)	2	JICA, Jun. 2005
	BRAND (100ml)	1	JICA, Jun. 2005
	BRAND (1ml)	3	JICA, Jun. 2005
	BRAND (5ml)	3	JICA, Jun. 2005
	BRAND (10ml)	3	JICA, Jun. 2005
3 Pipette Fillers	Micro Pipette Filler	2	JICA, Jun. 2005
	Pipette Filler	2	JICA, Jun. 2005
4 Graduated beakers	PMP (50ml)	2	JICA, Jun. 2005
	PMP (100ml)	2	JICA, Jun. 2005
	PMP (150ml)	2	JICA, Jun. 2005
	PMP (250ml)	2	JICA, Jun. 2005
5 Volumetric Flasks	Hirschman (25ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	2	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (200ml)	2	JICA, Jun. 2005
	Hirschman (25ml)	2	JICA, Jun. 2005
6 Volumetric Flasks	Hirschman (50ml)	2	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (200ml)	2	JICA, Jun. 2005
	Hirschman (25ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	2	JICA, Jun. 2005
7 Erlenmeyer Flasks	NALGENE, IDL (125ml)	3	JICA, Jun. 2005
	NALGENE, IDL (250ml)	3	JICA, Jun. 2005
	NALGENE, IDL (500ml)	2	JICA, Jun. 2005
	Retberg (100ml)	2	JICA, Jun. 2005
	Retberg (200ml)	2	JICA, Jun. 2005
8 Erlenmeyer Flasks with Ground Joints	Retberg (300ml)	2	JICA, Jun. 2005
	Retberg (300ml)	6	JICA, Jun. 2005
9 Stopper	Hirschman (50ml)	2	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (250ml)	2	JICA, Jun. 2005
10 Graduated Cylinders	NALGENE, IDL	3	JICA, Jun. 2005
	VIT-LAB	1	JICA, Jun. 2005
11 Wash Bottles with Bottle, Screw Cap, Riser Tube and Tube Holder	Soda-Lime, IDL	3	JICA, Jun. 2005
	Soda-Lime, IDL	3	JICA, Jun. 2005
	NALGENE, IDL	60	JICA, Jun. 2005
12 Graduated Beakers	Deutsch & Neumann	3	JICA, Jun. 2005
	Deutsch & Neumann	3	JICA, Jun. 2005
13 Funnels	Deutsch & Neumann	3	JICA, Jun. 2005
	Deutsch & Neumann	3	JICA, Jun. 2005
14 Packing Bottle	KIMWIPES	2	JICA, Jun. 2005
	MANUFIX	2	JICA, Jun. 2005
15 Rubber Bulb for Small Pipette	KIMWIPES	2	JICA, Jun. 2005
	MANUFIX	2	JICA, Jun. 2005
16 Sealing Film	DIN 12892, BOCHEM	2	JICA, Jun. 2005
	IDL, Bosshead	4	JICA, Jun. 2005
17 Cleaning Tissue	IDL	4	JICA, Jun. 2005
	IDL	4	JICA, Jun. 2005
18 Gloves	IDL	2	JICA, Jun. 2005
	IDL	2	JICA, Jun. 2005
19 Goggles	IDL	2	JICA, Jun. 2005
	IDL	2	JICA, Jun. 2005
20 Stand and Clamp	IDL	2	JICA, Jun. 2005
	IDL	2	JICA, Jun. 2005
21 Cleaning Agent	IDL	1	JICA, Jun. 2005
	IDL	1	JICA, Jun. 2005

IV-3 (13)Dara DFEA

Reagents List for Laboratory in Dara DFEA (Basic Water Quality Analysis)

No.	Name of Reagent	Usage	Unit	Quantity	Remarks
1	pH standards, pH 4.01	pH calibration	500 ml	2	JICA, Jun. 2005
	pH standards, pH 7.00		500 ml	2	JICA, Jun. 2005
	pH standards, pH 10.00		500 ml	2	JICA, Jun. 2005
2	Conductivity standards, 180 µS/cm	EC&TDS calibration	100ml	1	JICA, Jun. 2005
	Conductivity standards, 1,000 µS/cm		100ml	1	JICA, Jun. 2005
	Conductivity standards, 18,000 µS/cm		100ml	1	JICA, Jun. 2005
	Turbidity Standards Kit for 2100 P Turbidity Meter (0.1, 20, 100, 800 NTU)	Turbidity calibration	500 ml for each	1	JICA, Jun. 2005
	Reagents (High range 0-1,500 mg/l) for COD _{Cr}	COD _{Cr}	25 tests/PK	31	JICA, Jun. 2005
5	Reagents for NO ₃ -N (High range, 0-30.00 mg/l)	NO ₃ -N	100 tests/PK	8	JICA, Jun. 2005
6	Reagents for PO ₄ ³⁻ (High range, 0-30.00 mg/l)	PO ₄ ³⁻	100 tests/PK	8	JICA, Jun. 2005
7	Reagents for Cl ⁻ (0-10,000 mg/l)	Cl ⁻	100 tests/PK	8	JICA, Jun. 2005
8	Reagents for NH ₃ -N (High range, 0-50 mg/l)	NH ₃ -N	50 tests/PK	15	JICA, Jun. 2005
9	Nitrification Inhibitor	BOD	500g	1	JICA, Jun. 2005
10	BOD Nutrient Buffer Pillows	BOD	50 pillows/PK	15	JICA, Jun. 2005
11	BOD Seed Inoculum	BOD	50 capsules/bottle	7	JICA, Jun. 2005
12	NaOH Pack	BOD	1000g/PK	1	JICA, Jun. 2005
13	Reagents (Low range 0-150 mg/l) for COD _{Cr}	COD _{Cr}	25 tests/PK	2	JICA, Jun. 2006
14	Reagents for NO ₃ -N (Mid range, 0-5.0 mg/l)	NO ₃ -N	100 tests/PK	1	JICA, Jun. 2006
15	Reagents for PO ₄ ³⁻ (Low range, 0-2.50 mg/l)	PO ₄ ³⁻	100 tests/PK	1	JICA, Jun. 2006
16	Reagents for NH ₃ -N (Low range, 0-2.50 mg/l)	NH ₃ -N	50 tests/PK	1	JICA, Jun. 2006
17	COD standard, 300 mg/l	Check COD	200 ml	1	JICA, Jun. 2006
18	COD standard, 1000 mg/l	Check COD	200 ml	1	JICA, Jun. 2006
19	NO ₃ -N standard, 1.0 mg/l	Check NO ₃ -N	500 ml	1	JICA, Jun. 2006
20	NO ₃ -N standard, 10.0 mg/l	Check NO ₃ -N	500 ml	1	JICA, Jun. 2006
21	NO ₃ -N standard, 100 mg/l	Check NO ₃ -N	500 ml	1	JICA, Jun. 2006
22	PO ₄ ³⁻ standard, 30 mg/l	Check PO ₄ ³⁻	500 ml	1	JICA, Jun. 2006
23	NH ₃ -N standard, 10 mg/l	Check NH ₃ -N	500 ml	1	JICA, Jun. 2006
24	NH ₃ -N standard, 50 mg/l	Check NH ₃ -N	10 ml/16 Vouluette Amples	1	JICA, Jun. 2006
25	BOD standard, 300 mg/l	Check BOD	10 ml/16 Vouluette Amples	1	JICA, Jun. 2006
26	BOD standard, 3000 mg/l	Check BOD	10 ml/16 Vouluette Amples	1	JICA, Jun. 2006
27	Cl ⁻ standard, 1000 mg/l	Check Cl ⁻	500 ml	1	JICA, Jun. 2006
28	Bromine Water 30g/L	NO ₂ interfering (NO ₃ testing)	29 mL	1	JICA, Jun. 2006
29	Phenol Solution	NO ₂ interfering (NO ₃ testing)	29 mL	1	JICA, Jun. 2006
30	Sulfamic acid	NO ₂ interfering (PO ₄ testing)	113 g	1	JICA, Jun. 2006
31	Phosphate Pretreatment Powder Pillows	Turbidity and color interfering	100/pkg	1	JICA, Jun. 2006
32	Hydrochloric Acid, ACS	pH adjusting (NH ₃ -N, PO ₄ etc.)	500 mL	1	JICA, Jun. 2006
33	Sulfide Inhibitor Powder Pillows	S interfering (Cl ⁻ , NH ₃ -N testing)	100/pkg	1	JICA, Jun. 2006
34	Mercuric Sulfate	Cl ⁻ interfering (COD testing)	28.3 g	1	JICA, Jun. 2006
35	Hydrogen Peroxide, 30% ACS	Sulfite interfering (Cl ⁻ testing)	500 mL	1	JICA, Jun. 2006

IV-3 (14) Tartous DFEA

Equipment List in Tartous DFEA

Name of Instrument	Quantity	Remarks	Name of Instrument	Quantity	Remarks
1 White cloth, M	2	JICA, Jun. 2005	1 Portable Colorimeter Kit	1	JICA, Jun. 2005
L	1	JICA, Jun. 2005	HACH		
XL	0	JICA, Jun. 2005	CELE890		
2 Brush	2	JICA, Jun. 2005	HACH		
	2	JICA, Jun. 2005	sensON 1		
	2	JICA, Jun. 2005	sensON 5		
	2	JICA, Jun. 2005	sensON 6		
	1	JICA, Jun. 2005	2100P		
3 pH paper	2	JICA, Jun. 2005	HACH		
	1	JICA, Jun. 2005	DRB 200-1		
4 Tube support rack	1	JICA, Jun. 2005	HACH		
	1	JICA, Jun. 2005	16900		
5 Drying rack	1	JICA, Jun. 2005	WTW		
	1	JICA, Jun. 2005	OxiTop IS12		
6 Temp., humidity and barometric pressure meter	1	JICA, Jun. 2005	WTW		
	2	JICA, Jun. 2005	WTW		
7 Temperature meter	2	JICA, Jun. 2005	WTW		
	1	JICA, Jun. 2005	TS 606/2i		
8 Long-handled dipper	1	JICA, Jun. 2005	Sartorius		
	18 sheet	JICA, Jun. 2005	CP324S		
9 Weight boots	18 sheet	JICA, Jun. 2005	Sartorius		
	2	JICA, Jun. 2005	YWT03		
10 Spatula-spoon	2	JICA, Jun. 2005	GFL		
	1	JICA, Jun. 2005	2001/4		
11 Trays	1	JICA, Jun. 2005	Mall Tech		
	2	JICA, Jun. 2005	CMAX PCI		
12 Bucket with spout	1	JICA, Jun. 2005	Hewlett-Packard		
	5	JICA, Jun. 2005	1010		
13 Rope	5	JICA, Jun. 2005	Kodak		
	2	JICA, Jun. 2005	CK7330		
14 Vinyl tape	2	JICA, Jun. 2005	-		
	1	JICA, Jun. 2005	-		
15 Oil pen	1	JICA, Jun. 2005	-		
	5	JICA, Jun. 2005	-		
16 Safety gloves	5	JICA, Jun. 2005	-		
	1	JICA, Jun. 2005	-		
17 Cotton work gloves	1	JICA, Jun. 2005	-		
	12	JICA, Jun. 2005	-		
18 Waterproof boots	12	JICA, Jun. 2005	-		
	2	JICA, Jun. 2005	-		
19 Cold reserving material	2	JICA, Jun. 2005	-		
	2	JICA, Jun. 2005	-		
20 File with clip	2	JICA, Jun. 2005	-		
	4	JICA, Jun. 2005	-		
	2	JICA, Jun. 2005	-		
	1	JICA, Jun. 2005	-		
	70	JICA, Jun. 2005	-		
	3	JICA, Jun. 2005	-		
	5	JICA, Jun. 2005	-		
	1	JICA, Jun. 2005	-		
	1	JICA, Jun. 2005	-		
	30	JICA, Jun. 2005	-		
	1	JICA, Jun. 2005	-		
	1	JICA, Jun. 2005	-		
	1	JICA, Jun. 2005	-		
	2	JICA, Jun. 2005	-		
	10	JICA, Jun. 2005	-		

Additional Instrument List for Laboratory in Dara DFEA (Basic Water Quality Analysis)

Name of Instrument	Quantity	Remarks	Name of Instrument	Quantity	Remarks
1 Plastic funnel, 12cm dia	2	JICA, Aug.-Oct. 2005	1 Portable Colorimeter Kit	1	JICA, Jun. 2005
2 Safety glove	1	JICA, Aug.-Oct. 2005	HACH		
3 Calculator	2	JICA, Aug.-Oct. 2005	CELE890		
4 Electronic timer	2	JICA, Aug.-Oct. 2005	HACH		
5 Cooling box, round shape	1	JICA, Aug.-Oct. 2005	sensON 1		
6 Water-proof boot	2	JICA, Aug.-Oct. 2005	sensON 5		
7 Gloves disposable (box/100)	5	JICA, Aug.-Oct. 2005	sensON 6		
8 Plastic beaker, 1 liter with hand	1	JICA, Aug.-Oct. 2005	2100P		
9 Water tank, 5 liter w/2 hoses	2	JICA, Aug.-Oct. 2005	HACH		
10 Water tank, 20 liter w/2 hoses	2	JICA, Aug.-Oct. 2005	DRB 200-1		
11 Distilled water tank, 10 liter with tape	1	JICA, Aug.-Oct. 2005	HACH		
12 Scissors	2	JICA, Aug.-Oct. 2005	16900		
13 Carton cutter	2	JICA, Aug.-Oct. 2005	WTW		
14 Meter (5 meters)	2	JICA, Aug.-Oct. 2005	OxiTop IS12		
15 Pipette filler 2ml	1	JICA, Aug.-Oct. 2005	WTW		
16 Pipette filler 10ml	1	JICA, Aug.-Oct. 2005	WTW		
17 Pipette filler 25ml	1	JICA, Aug.-Oct. 2005	WTW		
18 Plastic cylinder, 1000ml	1	JICA, Aug.-Oct. 2005	TS 606/2i		
19 Plastic cylinder, 500ml	1	JICA, Aug.-Oct. 2005	Sartorius		
20 Plastic beaker 500ml	1	JICA, Aug.-Oct. 2005	CP324S		
21 Glass beaker 1 liter	2	JICA, Aug.-Oct. 2005	Sartorius		
22 Glass beaker 600ml	2	JICA, Aug.-Oct. 2005	YWT03		
23 Pipetting ball w/2 valves	2	JICA, Aug.-Oct. 2005	GFL		
24 Field battery light, plastic	1	JICA, Aug.-Oct. 2005	2001/4		
25 Forceps	2	JICA, Aug.-Oct. 2005	Mall Tech		
26 Rope 27 meters	1	JICA, Aug.-Oct. 2005	CMAX PCI		
27 Cotton cap	4	JICA, Aug.-Oct. 2005	Hewlett-Packard		
28 Spatula spoon	2	JICA, Aug.-Oct. 2005	1010		
29 Half mask with filter for gases	1	JICA, Aug.-Oct. 2005	Kodak		
30 Yellow tips for micro pipette	70	JICA, Aug.-Oct. 2005	CK7330		
31 Oil pen	3	JICA, Aug.-Oct. 2005	-		
32 Vinyl tape	5	JICA, Aug.-Oct. 2005	-		
33 Sampler 3 meters split h	1	JICA, Aug.-Oct. 2005	-		
34 Trays 270 x 270 x 120 mm	1	JICA, Aug.-Oct. 2005	-		
35 Trays 450 x 320 x 150 mm	1	JICA, Aug.-Oct. 2005	-		
36 Rechargeable battery	30	JICA, Aug.-Oct. 2005	-		
37 Battery charger	1	JICA, Aug.-Oct. 2005	-		
38 Sulfuric acid, 1 liter	1	JICA, Aug.-Oct. 2005	-		
39 Formic acid, 1 liter	1	JICA, Aug.-Oct. 2005	-		
40 Acetic acid, 1 liter	1	JICA, Aug.-Oct. 2005	-		
41 Paper filter, 15cm dia. (box/100)	2	JICA, Aug.-Oct. 2005	-		
42 Cell for DR/890	10	JICA, Aug.-Oct. 2005	-		

IV-3 (14) Tartous DFEA

Glassware List for Laboratory in Tartous DFEA (Basic Water Quality Analysis)

Name of Glassware	Model	Quantity	Remarks
1) Whole Pipettes	BRAND (1ml)	2	JICA, Jun. 2005
	BRAND (2ml)	2	JICA, Jun. 2005
	BRAND (5ml)	3	JICA, Jun. 2005
	BRAND (10ml)	3	JICA, Jun. 2005
	BRAND (20ml)	2	JICA, Jun. 2005
	BRAND (50ml)	2	JICA, Jun. 2005
	BRAND (100ml)	1	JICA, Jun. 2005
	BRAND (1ml)	3	JICA, Jun. 2005
	BRAND (5ml)	3	JICA, Jun. 2005
	BRAND (10ml)	3	JICA, Jun. 2005
3) Pipette Fillers	Micro Pipette Filler	2	JICA, Jun. 2005
	Pipette Filler	2	JICA, Jun. 2005
4) Graduated beakers	PMP (50ml)	2	JICA, Jun. 2005
	PMP (100ml)	2	JICA, Jun. 2005
	PMP (150ml)	2	JICA, Jun. 2005
	PMP (250ml)	2	JICA, Jun. 2005
5) Volumetric Flasks	Hirschman (25ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	2	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (200ml)	2	JICA, Jun. 2005
	Hirschman (25ml)	2	JICA, Jun. 2005
6) Volumetric Flasks	Hirschman (50ml)	2	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (200ml)	2	JICA, Jun. 2005
	NALGENE, IDL (125ml)	3	JICA, Jun. 2005
	NALGENE, IDL (250ml)	3	JICA, Jun. 2005
8) Erlenmeyer Flasks with Ground Joints	NALGENE, IDL (500ml)	2	JICA, Jun. 2005
	Retberg (100ml)	2	JICA, Jun. 2005
	Retberg (200ml)	2	JICA, Jun. 2005
9) Stopper	Retberg (300ml)	2	JICA, Jun. 2005
	Hirschman (50ml)	6	JICA, Jun. 2005
10) Graduated Cylinders	Hirschman (50ml)	2	JICA, Jun. 2005
	Hirschman (100ml)	2	JICA, Jun. 2005
	Hirschman (250ml)	2	JICA, Jun. 2005
11) Wash Bottles with Bottle, Screw Cap, Riser Tube and Tube Holder	NALGENE, IDL	3	JICA, Jun. 2005
	VIT-LAB	1	JICA, Jun. 2005
12) Graduated Beakers	Soda-Lime, IDL	1	JICA, Jun. 2005
	Soda-Lime, IDL	3	JICA, Jun. 2005
13) Funnels	NALGENE, IDL	60	JICA, Jun. 2005
	Deutsch & Neumann	3	JICA, Jun. 2005
14) Packing Bottle	Deutsch & Neumann	3	JICA, Jun. 2005
	Deutsch & Neumann	3	JICA, Jun. 2005
15) Rubber Bulb for Small Pipette	Deutsch & Neumann	2	JICA, Jun. 2005
	Deutsch & Neumann	2	JICA, Jun. 2005
16) Sealing Film	KIMWIPES	2	JICA, Jun. 2005
17) Cleaning Tissue	MANUFIX	2	JICA, Jun. 2005
18) Gloves	DJN 12892, BOCHEM	2	JICA, Jun. 2005
19) Goggles	IDL, Bosshead	4	JICA, Jun. 2005
20) Stand and Clamp	IDL	4	JICA, Jun. 2005
21) Cleaning Agent	IDL	4	JICA, Jun. 2005
		2	JICA, Jun. 2005
		1	JICA, Jun. 2005

IV-3 (14) Tartous DFEA

Reagents List for Laboratory in Tartous DFEA (Basic Water Quality Analysis)

Sl. No.	Name of Reagent	Usage	Unit	Quantity	Remarks
1	pH standards, pH 4.01	pH calibration	500 ml	2	JICA, Jun. 2005
	pH standards, pH 7.00		500 ml	2	JICA, Jun. 2005
	pH standards, pH 10.00		500 ml	2	JICA, Jun. 2005
2	Conductivity standards, 180 µs/cm	EC&TDS calibration	100ml	1	JICA, Jun. 2005
	Conductivity standards, 1,000 µs/cm		100ml	1	JICA, Jun. 2005
	Conductivity standards, 18,000 µs/cm		100ml	1	JICA, Jun. 2005
	Turbidity Standards Kit for 2100 P Turbidity Meter (0.1, 20, 100, 800 NTU)	Turbidity calibration	500 ml for each	1	JICA, Jun. 2005
4	Reagents (High range 0-1,500 mg/l) for COD _{Cr}	COD _{Cr}	25 tests/PK	31	JICA, Jun. 2005
5	Reagents for NO ₃ -N (High range, 0-30.00 mg/l)	NO ₃ -N	100 tests/PK	8	JICA, Jun. 2005
6	Reagents for PO ₄ ³⁻ (High range, 0-30.00 mg/l)	PO ₄ ³⁻	100 tests/PK	8	JICA, Jun. 2005
7	Reagents for Cl ⁻ (0-10,000 mg/l)	Cl ⁻	100 tests/PK	8	JICA, Jun. 2005
8	Reagents for NH ₃ -N (High range, 0-50 mg/l)	NH ₃ -N	50 tests/PK	15	JICA, Jun. 2005
9	Nitrification Inhibitor	BOD	500g	1	JICA, Jun. 2005
10	BOD Nutrient Buffer Pillows	BOD	30 pillows/bottle	15	JICA, Jun. 2005
11	BOD Seed Inoculum	BOD	50 capsules/bottle	7	JICA, Jun. 2005
12	NaOH Pack	BOD	1000g/PK	1	JICA, Jun. 2005
13	Reagents (Low range 0-150 mg/l) for COD _{Cr}	COD _{Cr}	25 tests/PK	2	JICA, Jun. 2006
14	Reagents for NO ₂ -N (Mid range, 0-5.0 mg/l)	NO ₂ -N	100 tests/PK	1	JICA, Jun. 2006
15	Reagents for PO ₄ ³⁻ (Low range, 0-2.50 mg/l)	PO ₄ ³⁻	100 tests/PK	1	JICA, Jun. 2006
16	Reagents for NH ₃ -N (low range, 0-2.50 mg/l)	NH ₃ -N	50 tests/PK	1	JICA, Jun. 2006
17	COD standard, 300 mg/l	Check COD	200 ml	1	JICA, Jun. 2006
18	COD standard, 1000 mg/l	Check COD	200 ml	1	JICA, Jun. 2006
19	NO ₂ -N standard, 1.0 mg/l	Check NO ₂ -N	500 ml	1	JICA, Jun. 2006
20	NO ₃ -N standard, 10.0 mg/l	Check NO ₃ -N	500 ml	1	JICA, Jun. 2006
21	NO ₂ -N standard, 100 mg/l	Check NO ₂ -N	500 ml	1	JICA, Jun. 2006
22	PO ₄ ³⁻ standard, 50 mg/l	Check PO ₄ ³⁻	500 ml	1	JICA, Jun. 2006
23	NH ₃ -N standard, 10 mg/l	Check NH ₃ -N	500 ml	1	JICA, Jun. 2006
24	NH ₃ -N standard, 50 mg/l	Check NH ₃ -N	10 ml/16 Viallette Amples	1	JICA, Jun. 2006
25	BOD standard, 300 mg/l	Check BOD	10 ml/16 Viallette Amples	1	JICA, Jun. 2006
26	BOD standard, 3000 mg/l	Check BOD	10 ml/16 Viallette Amples	1	JICA, Jun. 2006
27	Cl ⁻ standard, 1000 mg/l	Check Cl ⁻	500 ml	1	JICA, Jun. 2006
28	Bromine Water 30g/L	NO ₂ interfering (NO ₂ testing)	29 mL	1	JICA, Jun. 2006
29	Phenol Solution	NO ₂ interfering (NO ₂ testing)	29 mL	1	JICA, Jun. 2006
30	Sulfamic acid	NO ₂ interfering (PO ₄ testing)	113 g	1	JICA, Jun. 2006
31	Phosphate Pretreatment Powder Pillows	Turbidity and color interfering	100/pkg	1	JICA, Jun. 2006
32	Hydrochloric Acid, ACS	pH adjusting (NH ₃ -N, PO ₄ etc.)	500 mL	1	JICA, Jun. 2006
33	Sulfide Inhibitor Powder Pillows	S interfering (Cl ⁻ , NH ₃ -N testing)	100/pkg	1	JICA, Jun. 2006
34	Mercuric Sulfate	Cl ⁻ interfering (COD testing)	28.3 g	1	JICA, Jun. 2006
35	Hydrogen Peroxide, 30% ACS	Sulfite interfering (Cl ⁻ testing)	500 mL	1	JICA, Jun. 2006

IV-3 (15) Quneitra DFEA

Equipment List in Quneitra DFEA (Basic Water Quality Analysis)

Name of Equipment	Manufacture	Model	Quantity	Remarks
1 Portable Colorimeter Kit	HACH	CEL890	1	JICA, Jun. 2005
2 Portable pH and Temp. Meter	HACH	sensION 1	1	JICA, Jun. 2005
3 Portable EC and TDS Meter	HACH	sensION 5	1	JICA, Jun. 2005
4 Portable DO Meter	HACH	sensION 6	1	JICA, Jun. 2005
5 Portable Turbidity Meter	HACH	2100P	1	JICA, Jun. 2005
6 COD Reactor	HACH	DRB 200-1	1	JICA, Jun. 2005
7 Digital Titrator	HACH	16900	1	JICA, Jun. 2005
8 Stirring platform for BOD Analysis	WTW	OxiTop IS12	2	JICA, Jun. 2005
9 BOD bottle with OxiTop measuring head	WTW	-	24	JICA, Jun. 2005
10 Inebuator	WTW	TS 606/2i	1	JICA, Jun. 2005
11 Analytical Balance	Sartorius	CP324S	1	JICA, Jun. 2005
12 Table for Balance	Sartorius	YWT03	1	JICA, Jun. 2005
13 Pure Water Unit	GFL	2001/4	1	JICA, Jun. 2005
14 Desktop Computer+UPS	Mall Tech	CMAX PC1	1	JICA, Jun. 2005
15 Printer	Hewlett-Packard	1010	1	JICA, Jun. 2005
16 Digital Camera	Kodak	CX7330	1	JICA, Jun. 2005
17 Special Pipette Containers	-	-	1	JICA, Jun. 2005
18 Tank for Liquid Wastes	-	-	2	JICA, Jun. 2005
19 Ice Box for sampling	-	-	2	JICA, Jun. 2005
20 Refrigerator	Local	-	1	JICA, Apr. 2006

IV-3 (14) Tartous DFEA

Additional Instrument List for Laboratory in Tartous DFEA (Basic Water Quality Analysis)

Name of Instrument	Quantity	Remarks	Name of Instrument	Quantity	Remarks
1 White cloth, M L XL	1	JICA, Jun. 2005	1 Plastic funnel, 12cm dia	2	JICA, Aug.-Oct. 2005
2 Brush	3	JICA, Jun. 2005	2 Safety glove	1	JICA, Aug.-Oct. 2005
3 pH paper	0	JICA, Jun. 2005	3 Calculator	2	JICA, Aug.-Oct. 2005
4 Tube support rack	2	JICA, Jun. 2005	4 Electronic timer	1	JICA, Aug.-Oct. 2005
5 Drying rack	1	JICA, Jun. 2005	5 Cooling box, round shape	2	JICA, Aug.-Oct. 2005
6 Temp., humidity and barometric pressure meter	2	JICA, Jun. 2005	6 Water-proof boot	2	JICA, Aug.-Oct. 2005
7 Temperature meter	1	JICA, Jun. 2005	7 Gloves disposable (box/100)	5	JICA, Aug.-Oct. 2005
8 Long-handled dipper	1	JICA, Jun. 2005	8 Plastic beaker, 1 liter with hand	1	JICA, Aug.-Oct. 2005
9 Weight boats	1	JICA, Jun. 2005	9 Water tank, 5 liter w/2 hoses	2	JICA, Aug.-Oct. 2005
10 Spatula-spoon	2	JICA, Jun. 2005	10 Water tank, 20 liter w/2 hoses	2	JICA, Aug.-Oct. 2005
11 Trays	18 sheet	JICA, Jun. 2005	11 Distilled water tank, 10 liter with tape	1	JICA, Aug.-Oct. 2005
12 Bucket with spout	18 sheet	JICA, Jun. 2005	12 Scissors	2	JICA, Aug.-Oct. 2005
13 Rope	2	JICA, Jun. 2005	13 Carton cutter	2	JICA, Aug.-Oct. 2005
14 Vinyl tape	18 sheet	JICA, Jun. 2005	14 Meter (5 meters)	2	JICA, Aug.-Oct. 2005
15 Oil pen	2	JICA, Jun. 2005	15 Pipette filler 2ml	1	JICA, Aug.-Oct. 2005
16 Safety gloves	2	JICA, Jun. 2005	16 Pipette filler 10ml	1	JICA, Aug.-Oct. 2005
17 Cotton work gloves	2	JICA, Jun. 2005	17 Pipette filler 25ml	1	JICA, Aug.-Oct. 2005
18 Waterproof boots	1	JICA, Jun. 2005	18 Plastic cylinder 1000ml	1	JICA, Aug.-Oct. 2005
19 Cold reserving material	5	JICA, Jun. 2005	19 Plastic cylinder 500ml	1	JICA, Aug.-Oct. 2005
20 File with clip	2	JICA, Jun. 2005	20 Plastic beaker 500ml	1	JICA, Aug.-Oct. 2005
21 Generator	1	JICA, Mar. 2006	21 Glass beaker 1 liter	2	JICA, Aug.-Oct. 2005
			22 Glass beaker 600ml	2	JICA, Aug.-Oct. 2005
			23 Pipetting ball w/2 valves	2	JICA, Aug.-Oct. 2005
			24 Field battery light, plastic	1	JICA, Aug.-Oct. 2005
			25 Forceps	2	JICA, Aug.-Oct. 2005
			26 Rope 27 meters	1	JICA, Aug.-Oct. 2005
			27 Cotton cap	4	JICA, Aug.-Oct. 2005
			28 Spatula spoon	2	JICA, Aug.-Oct. 2005
			29 Half mask with filter for gases	1	JICA, Aug.-Oct. 2005
			30 Yellow tips for micro pipette	70	JICA, Aug.-Oct. 2005
			31 Oil pen	3	JICA, Aug.-Oct. 2005
			32 Vinyl tape	5	JICA, Aug.-Oct. 2005
			33 Sampler 3 meters split h	1	JICA, Aug.-Oct. 2005
			34 Trays 270 x 270 x 120 mm	1	JICA, Aug.-Oct. 2005
			35 Trays 450 x 320 x 150 mm	30	JICA, Aug.-Oct. 2005
			36 Rechargeable battery	1	JICA, Aug.-Oct. 2005
			37 Battery charger	1	JICA, Aug.-Oct. 2005
			38 Sulfuric acid, 1 liter	1	JICA, Aug.-Oct. 2005
			39 Formic acid, 1 liter	1	JICA, Aug.-Oct. 2005
			40 Acetic acid, 1 liter	1	JICA, Aug.-Oct. 2005
			41 Paper filter, 15cm dia. (box/100)	2	JICA, Aug.-Oct. 2005
			42 Cell for DR/890	10	JICA, Aug.-Oct. 2005

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Glassware List for Laboratory in Quneitra DFEA (Basic Water Quality Analysis)

Name of Glassware	Model	Quantity	Remarks	
1 Whole Pipettes	BRAND (1ml)	2	JICA, Jun. 2005	
	BRAND (2ml)	2	JICA, Jun. 2005	
	BRAND (5ml)	3	JICA, Jun. 2005	
	BRAND (10ml)	3	JICA, Jun. 2005	
	BRAND (20ml)	2	JICA, Jun. 2005	
	BRAND (50ml)	2	JICA, Jun. 2005	
	BRAND (100ml)	1	JICA, Jun. 2005	
	BRAND (1ml)	3	JICA, Jun. 2005	
	BRAND (5ml)	3	JICA, Jun. 2005	
	BRAND (10ml)	2	JICA, Jun. 2005	
	Micro Pipette Filler		2	JICA, Jun. 2005
	Pipette Filler		2	JICA, Jun. 2005
	PMP (50ml)		2	JICA, Jun. 2005
	PMP (100ml)		2	JICA, Jun. 2005
	PMP (150ml)		2	JICA, Jun. 2005
PMP (250ml)		2	JICA, Jun. 2005	
5 Volumetric Flasks	Hirschman (25ml)	2	JICA, Jun. 2005	
	Hirschman (50ml)	2	JICA, Jun. 2005	
	Hirschman (100ml)	2	JICA, Jun. 2005	
	Hirschman (200ml)	2	JICA, Jun. 2005	
	Hirschman (250ml)	2	JICA, Jun. 2005	
6 Volumetric Flasks	Hirschman (50ml)	2	JICA, Jun. 2005	
	Hirschman (100ml)	2	JICA, Jun. 2005	
	Hirschman (200ml)	2	JICA, Jun. 2005	
	Hirschman (250ml)	2	JICA, Jun. 2005	
	Hirschman (500ml)	2	JICA, Jun. 2005	
7 Erlenmeyer Flasks	NALGENE, IDL (125ml)	3	JICA, Jun. 2005	
	NALGENE, IDL (250ml)	3	JICA, Jun. 2005	
	NALGENE, IDL (500ml)	2	JICA, Jun. 2005	
8 Erlenmeyer Flasks with Ground Joints	Retberg (100ml)	2	JICA, Jun. 2005	
	Retberg (200ml)	2	JICA, Jun. 2005	
	Retberg (300ml)	2	JICA, Jun. 2005	
9 Stopper		6	JICA, Jun. 2005	
10 Graduated Cylinders	Hirschman (50ml)	2	JICA, Jun. 2005	
	Hirschman (100ml)	2	JICA, Jun. 2005	
	Hirschman (250ml)	2	JICA, Jun. 2005	
	NALGENE, IDL	3	JICA, Jun. 2005	
11 Wash Bottles with Bottle, Screw Cap, Riser Tube and Tube Holder		1	JICA, Jun. 2005	
		3	JICA, Jun. 2005	
12 Graduated Beakers	VIT-LAB	1	JICA, Jun. 2005	
		3	JICA, Jun. 2005	
13 Funnels	Soda-Lime, IDL	3	JICA, Jun. 2005	
	Soda-Lime, IDL	3	JICA, Jun. 2005	
14 Packing Bottle	NALGENE, IDL	60	JICA, Jun. 2005	
	Deutsch & Neumann	3	JICA, Jun. 2005	
	Deutsch & Neumann	3	JICA, Jun. 2005	
15 Rubber Bulb for Small Pipette	Deutsch & Neumann	3	JICA, Jun. 2005	
		2	JICA, Jun. 2005	
16 Sealing Film		2	JICA, Jun. 2005	
17 Cleaning Tissue	KIMWIPES	2	JICA, Jun. 2005	
18 Gloves	MANUFIX	2	JICA, Jun. 2005	
		2	JICA, Jun. 2005	
19 Goggles		2	JICA, Jun. 2005	
		2	JICA, Jun. 2005	
20 Stand and Clamp	DIN 12892, BOCHEM	4	JICA, Jun. 2005	
	IDL, Bosshead	4	JICA, Jun. 2005	
	IDL	4	JICA, Jun. 2005	
21 Cleaning Agent		2	JICA, Jun. 2005	
		1	JICA, Jun. 2005	

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Reagents List for Laboratory in Quneitra DFEA (Basic Water Quality Analysis)

No.	Name of Reagent	Usage	Unit	Quantity	Remarks
1	pH standards, pH 4.01	pH calibration	500 ml	2	JICA, Jun. 2005
	pH standards, pH 7.00		500 ml	2	JICA, Jun. 2005
	pH standards, pH 10.00		500 ml	2	JICA, Jun. 2005
2	Conductivity standards, 180 µs/cm	EC&TDS calibration	100ml	1	JICA, Jun. 2005
	Conductivity standards, 1,000 µs/cm		100ml	1	JICA, Jun. 2005
	Conductivity standards, 18,000 µs/cm		100ml	1	JICA, Jun. 2005
	Turbidity Standards Kit for 2100 P Turbidity Meter (0.1, 20, 100, 800 NTU)		500 ml for each	1	JICA, Jun. 2005
4	Reagents (High range 0-1,500 mg/l) for COD _{Cr}	COD _{Cr}	25 tests/PK	31	JICA, Jun. 2005
5	Reagents for NO ₃ -N (High range, 0-30.0 mg/l)	NO ₃ -N	100 tests/PK	8	JICA, Jun. 2005
6	Reagents for PO ₄ ³⁻ (High range, 0-30.00 mg/l)	PO ₄ ³⁻	100 tests/PK	8	JICA, Jun. 2005
7	Reagents for Cl ⁻ (0-10,000 mg/l)	Cl ⁻	100 tests/set	8	JICA, Jun. 2005
8	Reagents for NH ₄ -N (High range, 0-50 mg/l)	NH ₄ -N	50 tests/PK	15	JICA, Jun. 2005
9	Nitric Acid	BOD	500g	1	JICA, Jun. 2005
10	BOD Nutrient Buffer Pillows	BOD	50 pillows/PK	15	JICA, Jun. 2005
11	BOD Seed Inoculum	BOD	50 capsules/bottle	7	JICA, Jun. 2005
12	NaOH Pack	BOD	1000g/PK	1	JICA, Jun. 2005
13	Reagents (Low range 0-150 mg/l) for COD _{Cr}	COD _{Cr}	25 tests/PK	2	JICA, Jun. 2006
14	Reagents for NO ₂ -N (Mid range, 0-5.0 mg/l)	NO ₂ -N	100 tests/PK	1	JICA, Jun. 2006
15	Reagents for PO ₄ ³⁻ (Low range, 0-2.50 mg/l)	PO ₄ ³⁻	100 tests/PK	1	JICA, Jun. 2006
16	Reagents for NH ₄ -N (Low range, 0-2.50 mg/l)	NH ₄ -N	50 tests/PK	1	JICA, Jun. 2006
17	COD standard, 300 mg/l	Check COD	200 ml	1	JICA, Jun. 2006
18	COD standard, 1000 mg/l	Check COD	200 ml	1	JICA, Jun. 2006
19	NO ₃ -N standard, 1.0 mg/l	Check NO ₃ -N	500 ml	1	JICA, Jun. 2006
20	NO ₂ -N standard, 10.0 mg/l	Check NO ₂ -N	500 ml	1	JICA, Jun. 2006
21	NO ₃ -N standard, 100 mg/l	Check NO ₃ -N	500 ml	1	JICA, Jun. 2006
22	PO ₄ ³⁻ standard, 50 mg/l	Check PO ₄ ³⁻	500 ml	1	JICA, Jun. 2006
23	NH ₄ -N standard, 10 mg/l	Check NH ₄ -N	500 ml	1	JICA, Jun. 2006
24	NH ₃ -N standard, 50 mg/l	Check NH ₃ -N	10 ml/16 Vouluette Amples	1	JICA, Jun. 2006
25	BOD standard, 300 mg/l	Check BOD	10 ml/16 Vouluette Amples	1	JICA, Jun. 2006
26	BOD standard, 3000 mg/l	Check BOD	10 ml/16 Vouluette Amples	1	JICA, Jun. 2006
27	Cl ⁻ standard, 1000 mg/l	Check Cl ⁻	500 ml	1	JICA, Jun. 2006
28	Bromine Water 30g/L	NO ₂ interfering (NO ₃ testing)	29 mL	1	JICA, Jun. 2006
29	Phenol Solution	NO ₂ interfering (NO ₃ testing)	29 mL	1	JICA, Jun. 2006
30	Sulfamic acid	NO ₂ interfering (PO ₄ testing)	113 g	1	JICA, Jun. 2006
31	Phosphate Pretreatment Powder Pillows	Turbidity and color interfering	100/pkg	1	JICA, Jun. 2006
32	Hydrochloric Acid, ACS	pH adjusting (NH ₃ -N, PO ₄ etc.)	500 mL	1	JICA, Jun. 2006
33	Sulfide Inhibitor Powder Pillows	S interfering (Cl ⁻ , NH ₄ -N testing)	100/pkg	1	JICA, Jun. 2006
34	Mercuric Sulfate	Cl ⁻ interfering (COD testing)	28.3 g	1	JICA, Jun. 2006
35	Hydrogen Peroxide, 30% ACS	Sulfite interfering (Cl ⁻ testing)	500 mL	1	JICA, Jun. 2006

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Additional Instrument List for Laboratory in Quneitra DFEA (Basic Water Quality Analysis)

Name of Instrument	Quantity	Remarks	Name of Instrument	Quantity	Remarks
1 White cloth, M	2	JICA, Jun. 2005	1 Plastic funnel, 12cm dia	2	JICA, Aug.-Oct. 2005
L	1	JICA, Jun. 2005	2 Safety glove	1	JICA, Aug.-Oct. 2005
XL	0	JICA, Jun. 2005	3 Calculator	2	JICA, Aug.-Oct. 2005
2 Brush	2	JICA, Jun. 2005	4 Electronic timer	2	JICA, Aug.-Oct. 2005
	2	JICA, Jun. 2005	5 Cooking box, round shape	1	JICA, Aug.-Oct. 2005
	1	JICA, Jun. 2005	6 Water-proof boot	2	JICA, Aug.-Oct. 2005
3 pH paper:	2	JICA, Jun. 2005	7 Gloves disposable (box/100)	5	JICA, Aug.-Oct. 2005
4 Tube support rack	1	JICA, Jun. 2005	8 Plastic beaker, 1 liter with hand	1	JICA, Aug.-Oct. 2005
5 Drying rack	1	JICA, Jun. 2005	9 Water tank, 5 liter w/2 hoses	2	JICA, Aug.-Oct. 2005
6 Temp., humidity and brometric pressure meter	1	JICA, Jun. 2005	10 Water tank, 20 liter w/2 hoses	2	JICA, Aug.-Oct. 2005
7 Temperature meter	2	JICA, Jun. 2005	11 Distilled water tank, 10 liter with tap	1	JICA, Aug.-Oct. 2005
8 Long-handled dipper	1	JICA, Jun. 2005	12 Scissors	2	JICA, Aug.-Oct. 2005
9 Weight boats	18 sheet	JICA, Jun. 2005	13 Carton cutter	2	JICA, Aug.-Oct. 2005
	18 sheet	JICA, Jun. 2005	14 Meter (5 meters)	2	JICA, Aug.-Oct. 2005
10 Spatula-spoon	2	JICA, Jun. 2005	15 Pipette filler 2ml	1	JICA, Aug.-Oct. 2005
11 Trays	1	JICA, Jun. 2005	16 Pipette filler 10ml	1	JICA, Aug.-Oct. 2005
12 Bucket with spout	2	JICA, Jun. 2005	17 Pipette filler 25ml	1	JICA, Aug.-Oct. 2005
13 Rope	1	JICA, Jun. 2005	18 Plastic cylinder 1000ml	1	JICA, Aug.-Oct. 2005
14 Vinyl tape	5	JICA, Jun. 2005	19 Plastic cylinder 500ml	1	JICA, Aug.-Oct. 2005
15 Oil pen	2	JICA, Jun. 2005	20 Plastic beaker 500ml	1	JICA, Aug.-Oct. 2005
16 Safety gloves	1	JICA, Jun. 2005	21 Glass beaker 1 liter	2	JICA, Aug.-Oct. 2005
17 Cotton work gloves	5	JICA, Jun. 2005	22 Glass beaker 600ml	2	JICA, Aug.-Oct. 2005
18 Waterproof boots	1	JICA, Jun. 2005	23 Pipetting ball w/2 valves	2	JICA, Aug.-Oct. 2005
19 Cold reserving material	12	JICA, Jun. 2005	24 Field battery light, plastic	1	JICA, Aug.-Oct. 2005
20 File with clip	2	JICA, Jun. 2005	25 Forceps	2	JICA, Aug.-Oct. 2005
			26 Rope 27 meters	1	JICA, Aug.-Oct. 2005
			27 Cotton cap	4	JICA, Aug.-Oct. 2005
			28 Spatula spoon	2	JICA, Aug.-Oct. 2005
			29 Half mask with filter for gases	1	JICA, Aug.-Oct. 2005
			30 Yellow tips for micro pipette	70	JICA, Aug.-Oct. 2005
			31 Oil pen	3	JICA, Aug.-Oct. 2005
			32 Vinyl tape	5	JICA, Aug.-Oct. 2005
			33 Sampler 3 meters split h	1	JICA, Aug.-Oct. 2005
			34 Trays 270 x 270 x 120 mm	1	JICA, Aug.-Oct. 2005
			35 Trays 450 x 320 x 150 mm	1	JICA, Aug.-Oct. 2005
			36 Rechargeable battery	30	JICA, Aug.-Oct. 2005
			37 Battery charger	1	JICA, Aug.-Oct. 2005
			38 Sulfuric acid, 1 liter	1	JICA, Aug.-Oct. 2005
			39 Formic acid, 1 liter	1	JICA, Aug.-Oct. 2005
			40 Acetic acid, 1 liter	1	JICA, Aug.-Oct. 2005
			41 Paper filter, 15cm dia. (box/100)	2	JICA, Aug.-Oct. 2005
			42 Cell for DR/890	10	JICA, Aug.-Oct. 2005