Country Water Quality Standards

|  |  |
| --- | --- |
| Drinking Water Quality Parameter | National Standard |
| Microbiological (Thermotolerent [Fecal] Coliforms) | 0 CFU/100 mL |
| Turbidity | 10 NTU |
| Nitrate | 10 mg/L |
| Nitrite | 1.0 mg/L |
| Arsenic | 0.05 mg/L |
| Fluoride | 1.5 mg/L |
| Iron  | 1.0 mg/L |
| Manganese | 0.1 mg/L |

Laboratories

Licensed

* **Zambia Bureau of Standards**

Lechwe House, Freedom Way, South End

P.O. Box 50259, ZA 15101 Ridgeway

Lusaka, Zambia

Cell: +260977750010

Tel: +260211231385

Fax: +260211238483

* **Environmental Engineering Laboratory**

University of Zambia

Great East Road Campus

P.O. Box 32379

Lusaka, Zambia

Tel: +260211290962

Contact: Joel Kabika

* **Kafubu Water and Sewerage Company**

P.O. Box 71278

Ndola, Zambia

Tel: +2602622425

Fax: +2602622177

* **Alfred Knight**

P.O. Box 20303

Corner Mindola Shaft and Golf Club Rd

Nkana West

Kitwe, Zambia

Tel: +260212226433

Fax: +260212226306

* **Tropical Disease Research Centre**

P.O. Box 71769

Ndola Central Hospital

Ndola, Zambia

Tel: +260212611575

Tel: +260212621412

* **Food and Drug Control Laboratory**

University Teaching Hospital

P.O. Box 30138

Lusaka, Zambia

Tel: +260211252855/+260 (211) 252875

* **Indeni Petroleum Refining**

P.O. Box 71869

Ndola, Zambia

Tel: +260212655325

Fax: +260212655191

* **Ndola Lime Company**

P.O. Box 70057

Ndola, Zambia

Tel: +260212621172

Fax: +260212611260

* **Lusaka Water and Sewerage Company**

P.O.Box 50198

Lusaka, Zambia

Tel: +260211250002

* **Ministry of Mines, Energy and Water Development**

P.O. Box 31969

Lusaka, Zambia

Tel: +260 211 251389

Fax: +260253568

* **Eastern Water and Sewerage Company**

P.O. Box 150464

Chipata, Zambia

Tel: +260216221534

Fax: +260216221403

* **Nkana Water and Sewerage Company**

P.O. Box 20982

Kitwe, Zambia

Tel: +260212222488

Fax: +260212222490

* **Southern Water and Sewerage Company**

P.O. Box 61113

Livingstone, Zambia

Tel: +260213322103

* **Lukanga Water and Sewerage Company**

P.O. Box 81745

Kabwe, Zambia

Tel: +260215222474

Tel: +260215223926

* **Western Water and Sewerage Company**

Mongu, Zambia

Tel: +260217221019

* **North Western Water and Sewerage Company**

Solwezi, Zambia

Tel: +260218821330

* **Chambishi Water and Sewerage Company**

P.O. Box

Chambishi, Zambia

Tel: +260212721977

* **Lukanga Water and Sewerage Company**

Chibombo, Zambia

Tel: +260215274125

* **Mulonga Water and Sewerage Company**

Kabundi Road

Chingola, Zambia

Tel: +260212313681

* **Mopani Copper Mines Analytical Services**

P.O. Box 22000

Kitwe, Zambia

Tel: +260212247011

Fax: +260212244002

* **Konkola Copper Mines Analytical Services**

Chingola, Zambia

Tel: +260212350000

Fax: +260212351357

Unlicensed

* None are known

**Local Organizations Doing Water Quality Testing**

* **Seeds of Hope International Partnerships**

PO Box 250107

Plot 384 Makoli Road

Ndola, Zambia

Tel: +260212671545

Email: [info@sohip.org](file:///C%3A%5CUsers%5CSchuelert%5CDesktop%5CCAWST%5CDrinking%20Water%20Quality%20Testing_2009-06%5CNew%20Manual%5CCountry%20Fact%20Sheets%5Cinfo%40sohip.org)

Website: <http://sohip.org/solutions/wet-c/water/water-quality-testing/>

**Local Organizations Providing Training for Water Quality Testing**

* **Seeds of Hope International Partnerships**

PO Box 250107

Plot 384 Makoli Road

Ndola, Zambia

Tel: +260212671545

Email: [info@sohip.org](file:///C%3A%5CUsers%5CSchuelert%5CDesktop%5CCAWST%5CDrinking%20Water%20Quality%20Testing_2009-06%5CNew%20Manual%5CCountry%20Fact%20Sheets%5Cinfo%40sohip.org)

Website: <http://sohip.org/solutions/wet-c/water/water-quality-testing/>

Type of training provided: Introduction to Drinking Water Quality Testing workshops

Audience: Government staff, Water Utility Companies, nongovernmental organizations (NGOs), community based organizations (CBOs), individuals working in the water and sanitation sectors

* **University of Zambia**

Environmental Engineering

Great East Road Campus

P.O. Box 32379

Lusaka, Zambia

Tel: +260-1-290598

Type of training provided: Client Driven Training

Audience: Government staff, Water Utility Companies, NGOs, CBOs, individuals working in the water and sanitation sectors

* **Zambia Bureau of Standards**

Lechwe House, Freedom Way, South End

P.O. Box 50259, ZA 15101 Ridgeway

Lusaka, Zambia

Cell: +260977750010

Tel: +260211231385

Fax: +260211238483

Type of training provided: Client Driven Training

Audience: Government staff, Water Utility Companies, NGOs, CBOs, individuals working in the water and sanitation sectors

**Local Organizations Providing other Water Quality Services**

* **Seeds of Hope International Partnerships**

PO Box 250107

Plot 384 Makoli Road

Ndola, Zambia

Tel: +260212671545

Email: [info@sohip.org](file:///C%3A%5CUsers%5CSchuelert%5CDesktop%5CCAWST%5CDrinking%20Water%20Quality%20Testing_2009-06%5CNew%20Manual%5CCountry%20Fact%20Sheets%5Cinfo%40sohip.org)

Website: <http://sohip.org/solutions/wet-c/water/water-quality-testing/>

Type of service provided: Project Monitoring and Evaluation, Action Research Projects, Presence and Absence test kit sales

Clients: Government departments, Water Utility Companies, NGOs, CBOs, individuals working in the water and sanitation sectors, borehole drillers, bottled water companies, health care professionals

**Local Suppliers**

Hardware Equipment

| **Supplier Name and Equipment Available** | **Contact Person** | **Phone Number, Fax, Email** | **Address** |
| --- | --- | --- | --- |
| **THE TECH GROUP** Lab equipment and supplies, agents for Wagtech International, Potalab and Potakit portable water quality test kits (see Wagtech website for product list) | In Lusaka:Rhoda | Tel: +260 1 248021/2Fax: +260 1 246281Cell: +260 977 606272Email: [techgroupzambia@gmail.com](file:///C%3A%5CUsers%5CSchuelert%5CDesktop%5CCAWST%5CDrinking%20Water%20Quality%20Testing_2009-06%5CNew%20Manual%5CCountry%20Fact%20Sheets%5Ctechgroupzambia%40gmail.com) | Plot 4298, Buyantanshi Road, Heavy Industrial Area, PO Box333021/2 Lusaka, Zambia |
| **FERRONES ENTERPRISES**Glassware and various lab equipment | Mr Kunda | Tel: +260 977860136 | PO Box 70881Ndola, ZambiaProvident House, 9th Floor, Room 904, Ndola, Zambia |
| **KATKAM Ltd**Glassware and various lab equipment |  | Tel: +260955994452Fax:+260 2 621242Email : katkamltd@yahoo.com | Rooms 303 &304, Buteko House, Buteko Avenue,Ndola, ZambiaPO Box 240225, Ndola, Zambia |
| **Lab Galore Ltd**Various laboratory equipment and precision instruments | Charles Nyirenda (Director) | Telefax: +260 211 841 003/ fax 0211 430345Cell: +260 955/975 453 823Email: [labgalore@yahoo.com](file:///C%3A%5CUsers%5CSchuelert%5CDesktop%5CCAWST%5CDrinking%20Water%20Quality%20Testing_2009-06%5CNew%20Manual%5CCountry%20Fact%20Sheets%5Clabgalore%40yahoo.com)  | Shop No. U5 (upstairs)Westgate Shopping Mall, Freedom Way,Lusaka, Zambia |

**Local Suppliers**

Consumable Items

| **Supplier Name and Consummable Items Available** | **Contact Person** | **Phone Number, Fax, Email** | **Address** |
| --- | --- | --- | --- |
| **THE TECH GROUP** Agents for Wagtech InternationalMLSB, chemical testing reagents, turbidity standards, microbiological consumables (e.g., filter paper, pads) | In Lusaka:Rhoda | Tel: +260 1 248021/2Fax: +260 1 246281Cell: +260-977-606272Email: [techgroupzambia@gmail.com](file:///C%3A%5CUsers%5CSchuelert%5CDesktop%5CCAWST%5CDrinking%20Water%20Quality%20Testing_2009-06%5CNew%20Manual%5CCountry%20Fact%20Sheets%5Ctechgroupzambia%40gmail.com) | Plot 4298, Buyantanshi Road, Heavy Industrial Area, PO Box333021/2 Lusaka, Zambia |
| **FERRONES ENTERPRISES**Chemical reagents, methanol, ethanol, pH buffers, membrane filter paper, pads, Petri dishes | Mr Kunda | Tel: +260977860136 | P.O.Box 70881Ndola, ZambiaProvident House, 9th Floor, Room 904, Ndola, Zambia |
| **KATKAM Ltd**Laboratory chemical reagents, culture media (m-Endo), methanol, ethanol, phosphate buffer, pH buffers, Millipore products |  | Tel: +260955994452Fax:+260 2 621242Email: katkamltd@yahoo.com | Rooms 303 &304, Buteko House, Buteko AvenueNdola, ZambiaPO Box 240225, Ndola, Zambia |
| **Lab Galore Ltd**Diagnostic reagents and chemicals, various culture media, m-Endo media, methanol and ethanol  | Charles Nyirenda (Director) | Telefax: +260 211 841 003/ fax 0211 430345Cell: +260 955/975 453 823Email: [labgalore@yahoo.com](file:///C%3A%5CUsers%5CSchuelert%5CDesktop%5CCAWST%5CDrinking%20Water%20Quality%20Testing_2009-06%5CNew%20Manual%5CCountry%20Fact%20Sheets%5Clabgalore%40yahoo.com)  | Shop No. U5 (upstairs)Westgate Shopping Mall, Freedom Way,Lusaka, Zambia |

**Membrane Filtration Culture Media Used in the Country**

* Membrane lauryl sulphate broth (MLSB)
* m-Endo

**Tips for Working in the Country**

* When carrying drinking water quality testing equipment out of the country you must fill out export forms (Customs General Registration Certificates) available at the customs office. A customs officer will come and verify the items on the forms and sign off. An agent can be used if there are numerous items or a complex list. There may be fees attached. See the following page for an example Customs Form.
* Purchasing and importing equipment from out of country is often less expensive, but there are associated customs charges (depends on equipment). Not for profits and NGOs are often exempt, so this may be a viable option.
* Get price comparisons as there are sometimes large price differences between suppliers.
* Give plenty of lead time when ordering supplies. It can take a lot of time to receive orders.
* Develop networking relationships with other laboratories. They can be a valuable source of information and resource sharing.

CAWST (Centre for Affordable Water and Sanitation Technology)

Calgary, Alberta, Canada

Website: www.cawst.org Email: resources@cawst.org

*Wellness through Water.... Empowering People Globally*

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**Example Customs Form for Zambia**

