# SOQ STATEMENT OF QUALIFICATIONS

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Ayala Ave., North, Makati City 1226
CLARK Bldg. 2, Berthaphil
Compound I, Berthaphil Business Park,
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CRL Environmental Corporation (CRL) is a full service laboratory focused on environmental services that include industrial, process, and hazardous waste testing. With more than 20 years in the environmental industry, you can be assured of its quality environmental services. Its laboratory is strategically located in Clark Freeport Zone, Pampanga ready to serve the whole country and Asia.

CRL is equipped with state of the art instrumentation making it one of the most sophisticated laboratories in Asia. Its equipment's redundancy promotes just in time analysis results for its customers. CRLE is a DENR-Recognized laboratory and is also an ISO/IEC 17025:2005 certified company.

CRL technical staff have extensive experience in water, wastewater, air, and solid waste analyses; and hazardous waste site investigations, confirmation, and remediation that dates back to the infancy stage of that of the United States' environmental industry.

CRL maintains versatility in meeting client needs and is able to perform and develop specialized testing in compliance with routine and non-routine investigations. Organic and inorganic evaluation of water, air, gas, soil, biological tissue, and oil matrices are provided. United States Environmental Protection Agency (US EPA) and State of California Department of Health Services methods are used to perform all analyses and strict quality assurance programs validate results.

The CRL Group of Companies—comprised of CRL Environmental Corporation together with its air and industrial hygiene services company, CRL Calabarquez Corporation; its laboratory solutions company, ASSET PH; and their marketing arm, CRL Analytics Corporation—with a combined strong workforce of more than 200 technical and support personnel is the biggest and leading environmental testing services provider in the country.

Our commitment to quality and customer responsiveness is our trademark and the source of our continuing efforts for service improvement and expansion. The CRL Group of Companies achieves its commitment through its personnel who are highly competent and motivated working as a team in a safe and healthy environment.



#### **OUR MISSION & VISION**

**MISSION:** Our mission is to provide laboratory services to the customers in a timely manner, employing the highest degree of professionalism, with emphasis on quality and low cost, while keeping the employees and environment safe.

VISION: CRL Environmental Corporation is to distinguish itself as a premier environmental laboratory in Asia.

#### BENEFITS OF DOING BUSINESS WITH CRL

CRL is backed by array of networks and partners, of known competency, ranging from local to international laboratories. This ensures versatility in meeting your needs for specialized testing including the need for an on-site laboratory.



Our fleet of environmental samplers operates daily within mainland Luzon to collect and transport your samples to our laboratories. We provide pick-up services, at Manila and Clark airports, of samples that are coming from other regions outside mainland Luzon.

With state-of-the-art equipment, instrument redundancy, a computerized Laboratory Information Management System (LIMS), and highly competent personnel, CRL provides you with high quality analytical and technical reports and services.

By directly getting our services, you get savings from handling and operations costs.

#### **HIGHLIGHTS**

#### ✓ CRL is a full service laboratory

- Hazardous Waste Characterization Soil, Water, Air
- Air Samples Analyses Emissions Testing, Ambient Air Quality, WEM, IH, IAQ
- Wastewater/Groundwater Analyses Monitoring Wells/NPDES compliance
- Drinking Water Analyses including Information Collection Rule (ICR)
- Biological & Microbiological Testing
- Mobile Laboratory Luft Methods/Special Projects
- Special Projects/Bench Scale Treatment Studies
- Field Services In-House/Commercial/Wastewater sampling

#### ✓ CRL is committed to providing excellent data quality

- Defensible data
- Internal QA audits
- External Performance Evaluation Sample Participation
- Defensible Data
- ISO/IEC 17025:2005 Certification
- DENR Recognized Analytical Parameters
- DOLE-OSHC Accredited Sampling and Laboratory

#### ✓ CRL is a service-oriented company

- Technical Project Manager assigned to a particular customer
- Sample pickup anywhere in the Philippines and Asia
- Excellent turnaround time
- Report formatting tailored to specific project requirements
- Technical Resources library and/or analytical consulting
- Quality service unmatched in the industry
- Availability of support personnel

#### ✓ CRL is a financially stable company

- Profitable company
- High bank credit line

#### ✓ CRL ha redundancy in equipment

- No downtime
- "Just In Time" analyses
- High volume capacity will help client bid for big projects
- Technical support from ASSET Laboratories in Philippines and USA



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#### **ACCREDITATIONS & RECOGNITIONS**

#### ✓ DTI-PAB PNS ISO/IEC 17025:2005 accredited Laboratory

Chemical and Biological Testing

#### ✓ DENR recognized Environmental Laboratory

Water and Wastewater, Sediments, Transformer Oil and Waste Oil, Wastes, Ambient Air, Stationary Source Emission

#### ✓ OSHC-DOLE accredited WEM Provider

Category II - Occupational Hygiene Laboratory

#### ✓ DOH accredited Laboratory for Drinking Water Analysis

Bacteriological Analysis Chemical Analysis Physical Analysis

#### **ENVIRONMENTAL SERVICES**

#### **Water & Wastewater**

Bacteriology and microbiology
Drinking water analysis
Digester gas analysis
ICR Rule testing compliance
Unorganic chemistry
Organic chemistry
TOX
Toxicity bioassay
Wastewater analyses

#### **NPDES Priority Pollutants**

Benzidines Nitroaromatics Phthalates Chlorinated hydrocarbons Nitrosamines PNAs

Halocarbons Pesticides and PCBs Toxic metals
Haloethers Phenols Volatile aromatics

#### **Hazardous Waste**

Laboratory-scale treatment studies Sampling and monitoring of water & Hazardous materials characterizations wastewater

Hazardous materials characterizations wastewater
Pilot plant studies Waste contamination

Professional consultation

# Work Environment Measurement or Industrial Hygiene (WEM or IH), Indoor Air Quality (IAQ) Testing & Indoor Environmental Quality (IEQ) Testing

Chemical Parameters (dusts & fibers, metals, organic solvents, acids, gases) Biological Parameters (total bacteria)

#### Air Analyses (Stationary Source Emissions, Ambient Air)

NESSAP (National Emission Standards for Source Specific Air Pollutants) NAAQS (National Ambient Air Quality Standards)

NAAQGV (National Ambient Air Quality Guideline Values)

#### **Landfill Gases and Air Toxics**

Fugitive emissions Royalty Gas / Fixed Gas Analyses Landfill Gas Analyses / Methane Soil Vapor

Non Methane Organic Carbon TO-14
Ozone Precursors Toxic Hot Spots AB2588

Refinery Gas Analyses / Natural Gas Analyses



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#### Bioassay & Microbiology

Chronic Toxicity NPDES Fish Bioassay

E.Coli, HPC, Coliform Microbiology – Potable Water ICR Coliform Title 22 Hazardous Waste

#### **Underground Storage Tank Investigations**

Fuel Fingerprint GC-FID Purgeable Aromatics Method 602/8020

ICP Soil Vapor GC-PID Petroleum Hydrocarbons Method 7000 Series & 6010

IR Metals Method 418.1 Method 8015

#### **Industrial Services/Process Treatment**

Wastewater and sludge treatment for managing hazardous materials

Wastewater flow reduction, reuse and reclamation

Soil Remediation, Wastewater and Oilfield Bench Scale & Pilot Plant Treatment

**Studies** 

#### **Project Management**

Project management is initiated for both large-scale projects and single batch samples. A computerized data tracking system monitors the progress of pending samples.

Each laboratory has a Client Services Section dedicated to communication and service. Client services representatives serve as a liaison between client and laboratory and can help with a variety of needs:

Project specification preparation
Regulatory liaison
Reference sample analysis
Quality Assurance
Technical Information
Problem Solving

#### **Mobile Laboratory**

CRL has a mobile laboratory, equipped with state-of-the-art instrumentation including AA, IR, GC, and UV-VIS and GC/MS.

The mobile laboratory is equipped with extensive safety equipment providing a safe working environment and rapid on-site analysis of both physical and chemicals parameters.

#### **Courier Services**

CRL Courier Services provide refrigerated sample transport throughout the Philippines. Sampling kits are available from the courier fleet, which include containers appropriately preserved for organic and inorganic test requirements. The couriers are all OSHA 40-hr trained in addition to sample handling, preservation techniques, and approved sampling methods.

#### Field Services/Sampling

CRL Environmental Corporation maintains a full time 40-hr trained field services staff who conducts environmental sampling of wastewater, surface water, groundwater, soil/sediments, gases, and air. Statistical sampling of hazardous waste site is also routinely done at CRL.



#### **DETAILED LIST OF ANALYTICAL SERVICES**

Parameter	Test Reference
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i arameter	1 est i velei elice
Water and Wastewater	
Ammonio (on NIH. NI)	SMEWW 4500-NH <sub>3</sub> D (Ammonia – Selective Electrode Method)
Ammonia (as NH₃-N)	SMEWW 4500-NH <sub>3</sub> F (Phenate Method)
	SMEWW 3500-As B (Silver Diethyldithiocarbamate Method)
Arsenic	SMEWW 3114 B (Manual Hydride Generation / Atomic Absorption Spectrometric Method)
	SMEWW 3120 [SMEWW 3030 F] (Inductively Coupled Plasma – Emission Spectroscopy Method) [Nitric Acid – Hydrochloric Acid / Hotplate Digestion]
	SMEWW 3111 D [SMEWW 3030 F] (Direct Nitrous Oxide – Acetylene Flame Method) [Nitric Acid – Hydrochloric Acid / Hotplate Digestion]
Barium	SMEWW 3120 [SMEWW 3030 F] (Inductively Coupled Plasma – Emission Spectroscopy Method) [Nitric Acid – Hydrochloric Acid / Hotplate Digestion]
Biological Oxygen Demand (BOD)	SMEWW 5210 B (5-Day BOD Test)
Boron	SMEWW 4500-B B (Carmine Method)
BUIDII	SMEWW 4500-B C (Curcumin Method)
BTEX (Benzene, Toluene, Ethylbenzene, Xylene, Trichloroethylene)	SMEWW 6200 B (Purge and Trap Capillary – Column Gas Chromatographic / Mass Spectrometric Method)
	SMEWW 3111 D [SMEWW 3030 F] (Direct Air – Acetylene Flame Method) [Nitric Acid – Hydrochloric Acid / Hotplate Digestion]
Cadmium, Iron, Manganese, Nickel, Zinc	SMEWW 3120 [SMEWW 3030 F] (Inductively Coupled Plasma – Emission Spectroscopy Method) [Nitric Acid – Hydrochloric Acid / Hotplate Digestion]
Chemical Oxygen Demand (COD)	SMEWW 5220 B (Open Reflux Method)
Chloride	SMEWW 4500-CI <sup>-</sup> B (Argentometric Method)
Chromium (as Hexavalent Chromium, Cr <sup>6+</sup> )	SMEWW 3500-Cr B (Colorimetric Method)
Coliform, Fecal	SMEWW 9221 E (Multiple Tube Fermentation Technique – Fecal Coliform Procedure)
Coliform, Total	SMEWW 9221 B



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(Multiple Tube Fermentation Technique — Standard Total Coliform Fermentation Technique)  Color, Apparent  SMEWW 2120 B (Visual Comparison Method)  Color, True  SMEWW 3111 B (SMEWW 3030 B and SMEWW 3030 F) (Direct Air — Acetylene Flame Method) (Nitric Acid — Hydrochloric Acid / Hotplate Digestion)  Copper, Dissolve  SMEWW 3030 B and SMEWW 3030 F) (Inductively Coupled Plasma — Emission Spectroscopy Method), Nitric Acid — Hydrochloric Acid / Hotplate Digestion)  SMEWW 3030 B and SMEWW 3030 F) (Inductively Coupled Plasma — Emission Spectroscopy Method), Nitric Acid — Hydrochloric Acid / Hotplate Digestion]  SMEWW 3111 B [SMEWW 3030 F] (Direct Air — Acetylene Flame Method) (Nitric Acid — Hydrochloric Acid / Hotplate Digestion)  SMEWW 3120 [SMEWW 3030 F] (Inductively Coupled Plasma — Emission Spectroscopy Method) (Nitric Acid — Hydrochloric Acid / Hotplate Digestion)  SMEWW 3120 [SMEWW 3030 F] (Inductively Coupled Plasma — Emission Spectroscopy Method) (Nitric Acid — Hydrochloric Acid / Hotplate Digestion)  SMEWW 4500-CN-F (Cyanide — Selective Electrode Method, without distillation)  Dissolved Oxygen  SMEWW 4500-CD (Godometric Method — Azide Modification)  Fluoride  SMEWW 4500-D (Selective Electrode Method) (Nitric Acid — Hotplate Digestion)  SMEWW 3111 B [SMEWW 3030 E] (Electrothermal Atomic Absorption Spectroscopy Method) (Nitric Acid — Hotplate Digestion)  Mercury  Mercury  SMEWW 3112 B (SMEWW 3030 E) (Electrothermal Atomic Absorption Spectroscopy Method) (Nitric Acid — Hotplate Digestion)  SMEWW 3112 B (SMEWW 3030 E) (SMEWW 4500-NO)-E (SMEWW 3030 E) (SMEWW	Parameter	Test Reference
Color, True  SMEWW 2120 B (Visual Comparison Method)  SMEWW 3111 B [SMEWW 3030 B and SMEWW 3030 F] (Olirect Air - Acetylene Flame Method) [Nitric Acid – Hydrochloric Acid / Hotplate Digestion]  SMEWW 3120 B [SMEWW 3030 B and SMEWW 3030 F] (Inductively Coupled Plasma – Emission Spectroscopy Method) [Nitric Acid – Hydrochloric Acid / Hotplate Digestion]  SMEWW 3111 B [SMEWW 3030 F] (Inductively Coupled Plasma – Emission Spectroscopy Method) [Nitric Acid – Hydrochloric Acid / Hotplate Digestion]  Copper, Total  SMEWW 3111 B [SMEWW 3030 F] (Inductively Coupled Plasma – Emission Spectroscopy Method) [Nitric Acid – Hydrochloric Acid / Hotplate Digestion]  SMEWW 3120 [SMEWW 3030 F] (Inductively Coupled Plasma – Emission Spectroscopy Method) [Nitric Acid – Hydrochloric Acid / Hotplate Digestion]  Cyanide (as Free Cyanide)  SMEWW 4500-CN-F (Cyanide – Selective Electrode Method, without distillation)  Fluoride  SMEWW 4500-C (Inductively Acid – Azide Modification)  Fluoride  SMEWW 4500-F D (SPADNS Method)  SMEWW 3111 B [SMEWW 3030 E] (Direct Air – Acetylene Flame Method) [Nitric Acid – Hotplate Digestion]  SMEWW 3112 B [SMEWW 3030 E] (Inductively Coupled Plasma – Emission Spectroscopy Method) [Nitric Acid – Hotplate Digestion]  Mercury  Mercury  Mercury  Mercury  SMEWW 312 SMEWW 3030 E] (Inductively Coupled Plasma – Emission Spectroscopy Method) [Nitric Acid – Hotplate Digestion]  SMEWW 312 B (Cold-Vapor Atomic Spectrophotometric Method)  SMEWW 312 EPA 352.1 (Colorometric, Brucine)  SMEWW 4500-NO <sub>2</sub> -E (Sadmium Reduction Method with Nitrite correction using Colorimetric Method)  SMEWW 4500-NO <sub>2</sub> -D (Nitrate Electrode Method)  SMEWW 4500-NO <sub>2</sub> -D (Nitrate Electrode Method)		
SMEWW 3111 B   SMEWW 3030 B and SMEWW 3030 F	Color, Apparent	SMEWW 2120 B (Visual Comparison Method)
SMEWW 3030 B and SMEWW 3030 F    Civerat Air - Acetylene Flame Method) [Nitric Acid – Hydrochloric Acid / Hotplate Digestion]   SMEWW 3120   SMEWW 3030 B and SMEWW 3030 F]   (Inductively Coupled Plasma – Emission Spectroscopy Method) [Nitric Acid – Hydrochloric Acid / Hotplate Digestion]   SMEWW 3111 B [SMEWW 3030 F]   (Direct Air – Acetylene Flame Method) [Nitric Acid – Hydrochloric Acid / Hotplate Digestion]   Copper, Total	Color, True	SMEWW 2120 B (Visual Comparison Method)
SMEWW 3030 B and SMEWW 3030 F] (Inductively Coupled Plasma – Emission Spectroscopy Method) [Nitric Acid – Hydrochloric Acid / Hotplate Digestion]		[SMEWW 3030 B and SMEWW 3030 F] (Direct Air – Acetylene Flame Method) [Nitric Acid –
Copper, Total  Copper	Copper, Dissolve	[SMEWW 3030 B and SMEWW 3030 F] (Inductively Coupled Plasma – Emission Spectroscopy Method) [Nitric Acid – Hydrochloric Acid / Hotplate
Cyanide (as Free Cyanide)   SMEWW 4500-CN-F (Cyanide - Selective Electrode Method, without distillation)		(Direct Air – Acetylene Flame Method) [Nitric Acid –
Cyanide (as Free Cyanide)  (Cyanide – Selective Electrode Method, without distillation)  Dissolved Oxygen  SMEWW 4500-O C (Iodometric Method – Azide Modification)  Fluoride  SMEWW 4500-F D (SPADNS Method)  SMEWW 3111 B [SMEWW 3030 E] (Direct Air – Acetylene Flame Method) [Nitric Acid – Hotplate Digestion]  SMEWW 3113 [SMEWW 3030 E] (Electrothermal Atomic Absorption Spectrophotometric Method) [Nitric Acid – Hotplate Digestion]  SMEWW 3120 [SMEWW 3030 E] (Inductively Coupled Plasma – Emission Spectroscopy Method) [Nitric Acid – Hotplate Digestion]  Mercury  SMEWW 3112 B (Cold-Vapor Atomic Spectrophotometric Method)  US EPA 352.1 (Colorometric, Brucine)  SMEWW 4500-NO <sub>3</sub> -E SMEWW 4500-NO <sub>2</sub> -B (Cadmium Reduction Method with Nitrite correction using Colorimetric Method)  Oil and Grease  Cil and Grease (Liquid – Liquid, Partition – Gravimetric Method)	Copper, Total	(Inductively Coupled Plasma – Emission Spectroscopy Method) [Nitric Acid – Hydrochloric Acid / Hotplate
Clodometric Method - Azide Modification	Cyanide (as Free Cyanide)	(Cyanide – Selective Electrode Method, without
SMEWW 3111 B [SMEWW 3030 E]   (Direct Air – Acetylene Flame Method) [Nitric Acid – Hotplate Digestion]	Dissolved Oxygen	
Lead  (Direct Air – Acetylene Flame Method) [Nitric Acid – Hotplate Digestion]  SMEWW 3113 [SMEWW 3030 E] (Electrothermal Atomic Absorption Spectrophotometric Method) [Nitric Acid – Hotplate Digestion]  SMEWW 3120 [SMEWW 3030 E] (Inductively Coupled Plasma – Emission Spectroscopy Method) [Nitric Acid – Hotplate Digestion]  Mercury  SMEWW 3112 B (Cold-Vapor Atomic Spectrophotometric Method)  US EPA 352.1 (Colorometric, Brucine)  SMEWW 4500-NO <sub>3</sub> -E SMEWW 4500-NO <sub>2</sub> -B (Cadmium Reduction Method with Nitrite correction using Colorimetric Method)  SMEWW 4500-NO <sub>3</sub> D (Nitrate Electrode Method)  Oil and Grease  SMEWW 5520 B (Liquid – Liquid, Partition – Gravimetric Method)	Fluoride	SMEWW 4500-F D (SPADNS Method)
Celectrothermal Atomic Absorption Spectrophotometric Method) [Nitric Acid – Hotplate Digestion]    SMEWW 3120 [SMEWW 3030 E] (Inductively Coupled Plasma – Emission Spectroscopy Method) [Nitric Acid – Hotplate Digestion]    Mercury		(Direct Air – Acetylene Flame Method) [Nitric Acid –
(Inductively Coupled Plasma – Emission Spectroscopy Method) [Nitric Acid – Hotplate Digestion]  Mercury  SMEWW 3112 B (Cold-Vapor Atomic Spectrophotometric Method)  US EPA 352.1 (Colorometric, Brucine)  SMEWW 4500-NO <sub>3</sub> -E SMEWW 4500-NO <sub>2</sub> -B (Cadmium Reduction Method with Nitrite correction using Colorimetric Method)  SMEWW 4500-NO <sub>3</sub> D (Nitrate Electrode Method)  Oil and Grease  SMEWW 5520 B (Liquid – Liquid, Partition – Gravimetric Method)	Lead	(Electrothermal Atomic Absorption Spectrophotometric
Mercury (Cold-Vapor Atomic Spectrophotometric Method)  US EPA 352.1 (Colorometric, Brucine)  SMEWW 4500-NO <sub>3</sub> E SMEWW 4500-NO <sub>2</sub> B (Cadmium Reduction Method with Nitrite correction using Colorimetric Method)  SMEWW 4500-NO <sub>3</sub> D (Nitrate Electrode Method)  Oil and Grease  SMEWW 5520 B (Liquid – Liquid, Partition – Gravimetric Method)		(Inductively Coupled Plasma – Emission Spectroscopy
Nitrate (as NO <sub>3</sub> -N)  SMEWW 4500-NO <sub>2</sub> -E SMEWW 4500-NO <sub>2</sub> -B (Cadmium Reduction Method with Nitrite correction using Colorimetric Method)  SMEWW 4500-NO <sub>3</sub> D (Nitrate Electrode Method)  Oil and Grease  SMEWW 5520 B (Liquid – Liquid, Partition – Gravimetric Method)	Mercury	
Nitrate (as NO <sub>3</sub> -N)  SMEWW 4500-NO <sub>2</sub> -B (Cadmium Reduction Method with Nitrite correction using Colorimetric Method)  SMEWW 4500-NO <sub>3</sub> D (Nitrate Electrode Method)  Oil and Grease  SMEWW 5520 B (Liquid – Liquid, Partition – Gravimetric Method)		US EPA 352.1 (Colorometric, Brucine)
Oil and Grease SMEWW 5520 B (Liquid – Liquid, Partition – Gravimetric Method)	Nitrate (as NO <sub>3</sub> -N)	SMEWW 4500-NO <sub>2</sub> -B (Cadmium Reduction Method with Nitrite correction
Oil and Grease (Liquid – Liquid, Partition – Gravimetric Method)		SMEWW 4500-NO <sub>3</sub> D (Nitrate Electrode Method)
Organochlorine Pesticides US EPA 8081	Oil and Grease	
	Organochlorine Pesticides	US EPA 8081



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Parameter	Test Reference
	(Gas Chromatographic / Electron Capture Detector Method)
pH	SMEWW 4500-H <sup>+</sup> B (Electrometric Method)
Phenols	SMEWW 5530 C (Chloroform Extraction Method)
Phenol and Phenolic Substances	US EPA 8041 (Gas Chromatographic Method)
Phosphate	SMEWW 4500-P D (Stannous Chloride Method)
rnosphate	SMEWW 4500-P E (Ascorbic Acid Method)
Polychlorinated Biphenyls	US EPA 8082 (Gas Chromatographic / Electron Capture Detector Method)
	SMEWW 3114 B (Manual Hydride Generation / Atomic Absorption Spectrometric Method)
Selenium	SMEWW 3120 [SMEWW 3030 F] (Inductively Coupled Plasma – Emission Spectroscopy Method) [Nitric Acid – Hydrochloric Acid / Hotplate Digestion]
Settleable Solids	SMEWW 2540 F (Imhoff Cone Method)
Sulfate	SMEWW 4500-SO <sub>4</sub> <sup>2-</sup> E (Turbidemetric Method)
Surfactants (Methylene Blue Active Substances)	SMEWW 5540 C (Anionic Surfactants as MBAS)
Temperature	SMEWW 2550 B (Laboratory and Field Methods)
Total Dissolved Solids	SMEWW 2540 C (Gravimetric, Dried at 180°C)
Total Suspended Solids	SMEWW 2540 D (Gravimetric, Dried at 103 – 105°C)
Sediments	
Arsenic	
Cadmium, Total	
Copper	
Iron	
Lead	
Manganese	
Mercury, Total	
Nickel	
Organochlorine Pesticides	
Polychlorinated Biphenyls	
Silver	



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Parameter Test Reference

Zinc

#### **Transformer Oil and Waste Oil**

Polychlorinated Biphenyls

#### **Wastes**

Arsenic and its compounds

Barium and its compounds

Cadmium and its compounds

Chromium compounds

Lead compounds

Mercury and Mercury compounds

Selenium and its compounds

Silver and its compounds

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Ammonia (NH <sub>3</sub> )	MASA Method 401 (Indophenol Method)
Hydrogen Sulfide (H <sub>2</sub> S)	MASA Method 701 (Methylene Blue Colorimetry Method)
Lead (Pb)	40 CFR Part 50, Appendix G
Nitrogen Dioxide (NO <sub>2</sub> )	MASA Method 406 (Griess-Saltzman Method)
Particulate Matter 10 microns (PM <sub>10</sub> )	40 CFR Part 50, Appendix J
Sulfur Dioxide (SO <sub>2</sub> )	40 CFR Part 50, Appendix A-2 / MASA Method 704A (Pararosaniline Method)
Total Suspended Particulates (TSP)	40 CFR Part 50, Appendix B

#### **Stationary Source Emission**

<b>NESSAP</b> (Nationa	I Emission Standards f	for Source S	Specific Air Pollutants	)
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Hydrogen Sulfide (H <sub>2</sub> S)	US EPA Method 11
Metals [Antimony (Sb), Arsenic (As), Cadmium (Cd), Copper (Cu), Lead (Pb), Mercury (Hg), Zinc (Zn), and their compounds]	US EPA Method 29
Sulfur Oxides (as SO <sub>2</sub> )	US EPA Methods 6/8



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#### **INSTRUMENTATION**

Instrument / Equipment	Brand (Model, Serial No.)
Air Compressor	Vespa
Air Compressor	Vespa
Air Vaccum/Pressure Pum (High Output)	Millipore (Model WP6222050, SN 051500004144)
Air Vacuum Pump/ Compressor	GAST (Model DOA-P704-BN, SN 1116003831)
Air Vacuum Pump/ Compressor	GAST (Model DOA-P704-BN, SN 0217006381)
Air Vacuum Pump/ Compressor	GAST (Model DOA-P504-BN, SN 1217009994)
Air Pump	Aquarium Air Pump (Model PR9500)
Air Pump	Atec (AR-7500)
Air Pump	Atec (AR-7500)
Ammonia ISE meter/set-up	Thermo Orion Star A214
Analytical Balance	Kern-Germany 2010
Analytical Balance	Kern (ABS 220-4)
Analytical Balance	Adam/PW 254
Analytical Balance	Kern (ABS-N_ABJ-NM)
Analytical Balance	Shimadzu (AUW220D) Unibloc/ D450014163
Analytical Balance	Mettler (AM 100)
,	•
Anemometer, Hot Wire (Humidity/Temperature)	Lutron (Model YK-2004AH, SN R.041740)
<u> </u>	Lutron (Model YK-2004AH, SN R.041740)  Market Forge (Model STME-L)
Anemometer, Hot Wire (Humidity/Temperature)	,
Anemometer, Hot Wire (Humidity/Temperature)  Autoclave	Market Forge (Model STME-L)
Anemometer, Hot Wire (Humidity/Temperature)  Autoclave  Autoclave	Market Forge (Model STME-L) Hirayama (HV-50, SN: 30317052219)
Anemometer, Hot Wire (Humidity/Temperature)  Autoclave  Autoclave  Autoclave (Portable)	Market Forge (Model STME-L)  Hirayama (HV-50, SN: 30317052219)  Biobase Portable Autoclave (Model BKM-P24, SN 1803011)
Anemometer, Hot Wire (Humidity/Temperature)  Autoclave  Autoclave  Autoclave (Portable)  Autosampler 1 (for GC-ECD1)	Market Forge (Model STME-L)  Hirayama (HV-50, SN: 30317052219)  Biobase Portable Autoclave (Model BKM-P24, SN 1803011)  HP 7673
Anemometer, Hot Wire (Humidity/Temperature)  Autoclave  Autoclave  Autoclave (Portable)  Autosampler 1 (for GC-ECD1)  Controller	Market Forge (Model STME-L)  Hirayama (HV-50, SN: 30317052219)  Biobase Portable Autoclave (Model BKM-P24, SN 1803011)  HP 7673  HP (18594B, SN 3018A22036)
Anemometer, Hot Wire (Humidity/Temperature)  Autoclave  Autoclave  Autoclave (Portable)  Autosampler 1 (for GC-ECD1)  Controller  Tray	Market Forge (Model STME-L)  Hirayama (HV-50, SN: 30317052219)  Biobase Portable Autoclave (Model BKM-P24, SN 1803011)  HP 7673  HP (18594B, SN 3018A22036)  HP (18596M, SN 3344A33724)
Anemometer, Hot Wire (Humidity/Temperature)  Autoclave  Autoclave (Portable)  Autosampler 1 (for GC-ECD1)  Controller  Tray  Injector	Market Forge (Model STME-L)  Hirayama (HV-50, SN: 30317052219)  Biobase Portable Autoclave (Model BKM-P24, SN 1803011)  HP 7673  HP (18594B, SN 3018A22036)  HP (18596M, SN 3344A33724)  HP (SN 3033A23000)
Anemometer, Hot Wire (Humidity/Temperature)  Autoclave  Autoclave (Portable)  Autosampler 1 (for GC-ECD1)  Controller  Tray  Injector  Autosampler 2 (for GC-ECD2)	Market Forge (Model STME-L)  Hirayama (HV-50, SN: 30317052219)  Biobase Portable Autoclave (Model BKM-P24, SN 1803011)  HP 7673  HP (18594B, SN 3018A22036)  HP (18596M, SN 3344A33724)  HP (SN 3033A23000)  HP 7673
Anemometer, Hot Wire (Humidity/Temperature)  Autoclave  Autoclave (Portable)  Autosampler 1 (for GC-ECD1)  Controller  Tray  Injector  Autosampler 2 (for GC-ECD2)  Controller	Market Forge (Model STME-L)  Hirayama (HV-50, SN: 30317052219)  Biobase Portable Autoclave (Model BKM-P24, SN 1803011)  HP 7673  HP (18594B, SN 3018A22036)  HP (18596M, SN 3344A33724)  HP (SN 3033A23000)  HP 7673  HP (18594A, SN 2929A15765)
Anemometer, Hot Wire (Humidity/Temperature)  Autoclave  Autoclave (Portable)  Autosampler 1 (for GC-ECD1)  Controller  Tray  Injector  Autosampler 2 (for GC-ECD2)  Controller  Tray	Market Forge (Model STME-L)  Hirayama (HV-50, SN: 30317052219)  Biobase Portable Autoclave (Model BKM-P24, SN 1803011)  HP 7673  HP (18594B, SN 3018A22036)  HP (18596M, SN 3344A33724)  HP (SN 3033A23000)  HP 7673  HP (18594A, SN 2929A15765)  HP (18596B, SN 3213A28178)
Anemometer, Hot Wire (Humidity/Temperature)  Autoclave  Autoclave (Portable)  Autosampler 1 (for GC-ECD1)  Controller  Tray Injector  Autosampler 2 (for GC-ECD2)  Controller  Tray Injector	Market Forge (Model STME-L)  Hirayama (HV-50, SN: 30317052219)  Biobase Portable Autoclave (Model BKM-P24, SN 1803011)  HP 7673  HP (18594B, SN 3018A22036)  HP (18596M, SN 3344A33724)  HP (SN 3033A23000)  HP 7673  HP (18594A, SN 2929A15765)  HP (18596B, SN 3213A28178)  HP (18593B, SN 3426A39209)
Anemometer, Hot Wire (Humidity/Temperature)  Autoclave  Autoclave (Portable)  Autosampler 1 (for GC-ECD1)  Controller  Tray Injector  Autosampler 2 (for GC-ECD2)  Controller  Tray  Injector  Autosampler 3 (for Dual FID)	Market Forge (Model STME-L)  Hirayama (HV-50, SN: 30317052219)  Biobase Portable Autoclave (Model BKM-P24, SN 1803011)  HP 7673  HP (18594B, SN 3018A22036)  HP (18596M, SN 3344A33724)  HP (SN 3033A23000)  HP 7673  HP (18594A, SN 2929A15765)  HP (18596B, SN 3213A28178)  HP (18593B, SN 3426A39209)  HP 7673



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Instrument / Equipment	Brand (Model, Serial No.)
Injector	HP (18593B, SN 3445A40882)
Autosampler 4 (for FID)	
Controller	HP/G1512A/SN: 3630A05810
Autosampler for EO-GC-009	
Tray	G4514-64000, SN: CN16360026
Injector	G4513-64000, SN: CN16320011
Bacti-Cinerator	Thomas Scientific, Infrared Microsterilizer; HM-11-14550
Biological Safety Cabinet	Nuaire;Model: NU -425-400; SN: 17290TV
Blender	Kyowa
Blender	Imarflex/IB350F6
Bottletop Dispenser	Scharlau; SN 101783
Bottletop Dispenser	Scharlau; SN 101787
Camera 003	Canon ( green)
Camera 008	Sony ( Black )
Camera 009	Canon ( Black )
Camera 010	Olympus ( water proof)
Camera (Sony)	Sony DSC W800
Canopy Hood (for BOD)	Fabricated
Canopy Hood ( ECD 1 ) - Duct-type	Fabricated
Canopy Hood ( ECD 3 ) - Duct-type	Fabricated
Canopy Hood (ECD 2) - Duct-type	Fabricated
Canopy Hood (FID dual) - Duct-type	Fabricated
Canopy Hood (VOC Instrumentation)	Fabricated
Canopy Hood ( VOC Sample Prep)	Fabricated
Canopy Hood ( BTEX Room)	Fabricated
Canopy Hood ( Hg sample prep.)	Fabricated
Canopy Hood (Shimadzu)	Fabricated
Canopy Hood ( Perkin Elmer 1 )	Fabricated
Canopy Hood ( AAS 400 )	Fabricated
Canopy Hood ( Graphite)	Fabricated
Canopy Hood ( Mercury Analyzer)	Fabricated
Canopy Hood (Metal Prep Area)	Fabricated



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Instrument / Equipment	Brand (Model, Serial No.)
Canopy Hood (Metal Prep Area-TCLP)	Fabricated
Canopy Hood (Hot Room/Furnace)	Fabricated
Canopy Hood ( for Spectrometer)	Fabricated
Canopy Hood ( Distillation)	Fabricated
Canopy Hood, semi enclosure	Labworks-Australia
Canopy Hood ( for furnace)	Fabricated
Canopy Hood ( balance)	Fabricated
Canopy Hood ( sample receiving)	Fabricated
Canopy Hood, Movable (Spectro, Wetchem Dept.)	Fabricated
Canopy Hood, Movable (Spectro, Air Dept.)	Fabricated
Colony Counter	Boeco Model CC-1 2011
Centrifugal Blower/Motor-Big	Niagara
Centrifugal Blower/Motor-Small	F
Chlorine Meter	Lutron Chlorine Meter CL-2006; AJ35160
COD Reactor 10 holes	Jetty (Fabricated)
COD Reactor 10 holes	Jetty (Fabricated)
COD Reactor 10 holes	Jetty (Fabricated)
COD Reactor 10 holes	Jetty (Fabricated)
Concentrator 2	Zymark/TurboVap 500
Concentrator 3	Zymark/TurboVap 500
Conductivity Meter	Eutech Cyberscan Con 11, SN:2204253
Conductivity Meter	Eutech Cyberscan Con 110, SN:2266587
CN set up	BSL Co.
Cyanide Electrode	Orion
Dehumidifier (Automatic, Frost-free)	OASIS/ SN:9738537496
Dehumidifier (Automatic, Frost-free)	OASIS/ SN:9738537493
Desiccating Cabinet	Labline
Desiccating Cabinet	Scienceware/ SAN12902015



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Desiccating Cabinet  Desiccating Cabinet  Sibata; EUV-12; SN: 047550-12  Desiccator 3  Jetty Lab.  Desiccator 5  Jetty Lab.  Desiccator 6  Jetty Lab.  Desiccator 7  Jetty Lab.  Desiccator 8  Jetty Lab.  Desiccator 9  Jetty Lab.  Distillation Apparatus  POMeter  DO Meter  DO Meter  Horiba; LAQUAAct DO110-K; SN: DC8DC026  Dissolved Oxygen (DO) Meter  Trans Instruments; HD3030; SN: 1159871  Digital Thermometer  Testo 922; SN: 33640438/801  Flowmeter (water/air)  Flowmeter (water/air) & current Sensor  Flowwatch - Swiss made 2011  Flowmeter  Restek Proflow 6000 Flowmeter  Fluoride Ion Selective Electrode (ISE)  Thermo Orion 9609BNWP  Freezer  Fujidenzo, Model FCG-40PDF SL; SN: SL20170  Fume Hood  PL E & I Lewis Plastics
Desiccator 3  Jetty Lab.  Desiccator 5  Jetty Lab.  Desiccator 6  Jetty Lab.  Desiccator 7  Jetty Lab.  Desiccator 8  Jetty Lab.  Desiccator 9  Jetty Lab.  Distillation Apparatus  Yana (Brand- Monodest 3000)  DO Meter  Eutech Instruments DO6+  DO Meter  Horiba; LAQUAAct DO110-K; SN: DC8DC026  Dissolved Oxygen (DO) Meter  Trans Instruments; HD3030; SN: 1159871  Digital Thermometer  Testo 922; SN: 33640438/801  Flowmeter (water/air)  Flowwatch ( Swiss)/General ( FW 450 ) 2010  Flowmeter (water/air) & current Sensor  Flowwatch - Swiss made 2011  Flowmeter  Restek Proflow 6000 Flowmeter  Fluoride Ion Selective Electrode (ISE)  Thermo Orion 9609BNWP  Freezer  Fujidenzo, Model FCG-40PDF SL; SN: SL20170
Desiccator 5  Desiccator 6  Jetty Lab.  Desiccator 7  Jetty Lab.  Desiccator 8  Jetty Lab.  Desiccator 9  Jetty Lab.  Distillation Apparatus  Yana (Brand- Monodest 3000)  DO Meter  Eutech Instruments DO6+  DO Meter  Horiba; LAQUAAct DO110-K; SN: DC8DC026  Dissolved Oxygen (DO) Meter  Trans Instruments; HD3030; SN: 1159871  Digital Thermometer  Testo 922; SN: 33640438/801  Flowmeter (water/air)  Flowwatch ( Swiss)/General ( FW 450 ) 2010  Flowmeter (water/air) & current Sensor  Flowwatch - Swiss made 2011  Flowmeter  Fluoride Ion Selective Electrode (ISE)  Thermo Orion 9609BNWP  Freezer  Fujidenzo, Model FCG-40PDF SL; SN: SL20170
Desiccator 6  Desiccator 7  Jetty Lab.  Desiccator 8  Jetty Lab.  Desiccator 9  Jetty Lab.  Distillation Apparatus  Yana (Brand- Monodest 3000)  DO Meter  Eutech Instruments DO6+  DO Meter  Horiba; LAQUAAct DO110-K; SN: DC8DC026  Dissolved Oxygen (DO) Meter  Trans Instruments; HD3030; SN: 1159871  Digital Thermometer  Testo 922; SN: 33640438/801  Flowmeter (water/air)  Flowmeter (water/air) & current Sensor  Flowwatch ( Swiss)/General ( FW 450 ) 2010  Flowmeter (water/air) & current Sensor  Flowwatch - Swiss made 2011  Flowmeter  Fluoride Ion Selective Electrode (ISE)  Thermo Orion 9609BNWP  Freezer  Fujidenzo, Model FCG-40PDF SL; SN: SL20170
Desiccator 7  Desiccator 8  Jetty Lab.  Desiccator 9  Jetty Lab.  Distillation Apparatus  Po Meter  Do Meter  Trans Instruments; HD3030; SN: 1159871  Digital Thermometer  Testo 922; SN: 33640438/801  Flowmeter (water/air)  Flowmeter (water/air)  Flowmatch ( Swiss)/General ( FW 450 ) 2010  Flowmeter (water/air) & current Sensor  Flowwatch - Swiss made 2011  Flowmeter  Restek Proflow 6000 Flowmeter  Fluoride Ion Selective Electrode (ISE)  Thermo Orion 9609BNWP  Freezer  Fujidenzo, Model FCG-40PDF SL; SN: SL20170
Desiccator 8  Desiccator 9  Jetty Lab.  Distillation Apparatus  Yana (Brand- Monodest 3000)  DO Meter  Eutech Instruments DO6+  DO Meter  Horiba; LAQUAAct DO110-K; SN: DC8DC026  Dissolved Oxygen (DO) Meter  Trans Instruments; HD3030; SN: 1159871  Digital Thermometer  Testo 922; SN: 33640438/801  Flowmeter (water/air)  Flowmeter (water/air) & current Sensor  Flowwatch ( Swiss)/General ( FW 450 ) 2010  Flowmeter (water/air) & current Sensor  Flowwatch - Swiss made 2011  Flowmeter  Restek Proflow 6000 Flowmeter  Fluoride Ion Selective Electrode (ISE)  Thermo Orion 9609BNWP  Freezer  Fujidenzo, Model FCG-40PDF SL; SN: SL20170
Desiccator 9  Desiccator 9  Jetty Lab.  Vana (Brand- Monodest 3000)  DO Meter  Eutech Instruments DO6+  DO Meter  Horiba; LAQUAAct DO110-K; SN: DC8DC026  Dissolved Oxygen (DO) Meter  Trans Instruments; HD3030; SN: 1159871  Digital Thermometer  Testo 922; SN: 33640438/801  Flowmeter (water/air)  Flowmeter (water/air)  Flowmeter (water/air) & current Sensor  Flowmeter (water/air) & current Sensor  Flowmeter  Restek Proflow 6000 Flowmeter  Fluoride Ion Selective Electrode (ISE)  Thermo Orion 9609BNWP  Freezer  Fujidenzo, Model FCG-40PDF SL; SN: SL20170
Distillation Apparatus  Yana (Brand- Monodest 3000)  DO Meter  Eutech Instruments DO6+  DO Meter  Horiba; LAQUAAct DO110-K; SN: DC8DC026  Dissolved Oxygen (DO) Meter  Trans Instruments; HD3030; SN: 1159871  Digital Thermometer  Testo 922; SN: 33640438/801  Flowmeter (water/air)  Flowmeter (water/air) & current Sensor  Flowwatch ( Swiss)/General ( FW 450 ) 2010  Flowmeter (water/air) & current Sensor  Flowwatch - Swiss made 2011  Flowmeter  Fluoride Ion Selective Electrode (ISE)  Thermo Orion 9609BNWP  Freezer  Fujidenzo, Model FCG-40PDF SL; SN: SL20170
DO Meter  Eutech Instruments DO6+  DO Meter  Horiba; LAQUAAct DO110-K; SN: DC8DC026  Dissolved Oxygen (DO) Meter  Trans Instruments; HD3030; SN: 1159871  Digital Thermometer  Testo 922; SN: 33640438/801  Flowmeter (water/air)  Flowmeter (water/air) & current Sensor  Flowmatch ( Swiss)/General ( FW 450 ) 2010  Flowmeter (water/air) & current Sensor  Flowmatch - Swiss made 2011  Flowmeter  Restek Proflow 6000 Flowmeter  Fluoride Ion Selective Electrode (ISE)  Thermo Orion 9609BNWP  Freezer  Fujidenzo, Model FCG-40PDF SL; SN: SL20170
DO Meter Horiba ; LAQUAAct DO110-K; SN: DC8DC026  Dissolved Oxygen (DO) Meter Trans Instruments; HD3030; SN: 1159871  Digital Thermometer Testo 922; SN: 33640438/801  Flowmeter (water/air) Flowwatch ( Swiss)/General ( FW 450 ) 2010  Flowmeter (water/air) & current Sensor Flowwatch - Swiss made 2011  Flowmeter Restek Proflow 6000 Flowmeter  Fluoride Ion Selective Electrode (ISE) Thermo Orion 9609BNWP  Freezer Fujidenzo, Model FCG-40PDF SL; SN: SL20170
Dissolved Oxygen (DO) Meter Trans Instruments; HD3030; SN: 1159871  Digital Thermometer Testo 922; SN: 33640438/801  Flowmeter (water/air) Flowwatch ( Swiss)/General ( FW 450 ) 2010  Flowmeter (water/air) & current Sensor Flowwatch - Swiss made 2011  Flowmeter Restek Proflow 6000 Flowmeter  Fluoride Ion Selective Electrode (ISE) Thermo Orion 9609BNWP  Freezer Fujidenzo, Model FCG-40PDF SL; SN: SL20170
Digital Thermometer Testo 922; SN: 33640438/801 Flowmeter (water/air) Flowmeter (water/air) & current Sensor Flowmatch - Swiss made 2011 Flowmeter Restek Proflow 6000 Flowmeter Fluoride Ion Selective Electrode (ISE) Thermo Orion 9609BNWP Freezer Fujidenzo, Model FCG-40PDF SL; SN: SL20170
Flowmeter (water/air)  Flowmeter (water/air) & current Sensor  Flowmeter (water/air) & current Sensor  Flowmeter  Restek Proflow 6000 Flowmeter  Fluoride Ion Selective Electrode (ISE)  Thermo Orion 9609BNWP  Freezer  Fujidenzo, Model FCG-40PDF SL; SN: SL20170
Flowmeter (water/air) & current Sensor  Flowwatch - Swiss made 2011  Flowmeter  Restek Proflow 6000 Flowmeter  Fluoride Ion Selective Electrode (ISE)  Thermo Orion 9609BNWP  Freezer  Fujidenzo, Model FCG-40PDF SL; SN: SL20170
Flowmeter Restek Proflow 6000 Flowmeter  Fluoride Ion Selective Electrode (ISE) Thermo Orion 9609BNWP  Freezer Fujidenzo, Model FCG-40PDF SL; SN: SL20170
Fluoride Ion Selective Electrode (ISE)  Thermo Orion 9609BNWP  Freezer  Fujidenzo, Model FCG-40PDF SL; SN: SL20170
Freezer Fujidenzo, Model FCG-40PDF SL; SN: SL20170
Fume Hood PL E & I Lewis Plastics
Fume Hood ATL-F
Fume Hood (SVOC) Fabricated
Fume Hood Labtraders; Fumehood FH1800X; SN: FH1509018
Fume Hood (SVOC) Fabricated
Furnace Vulcan Furnace (NEY) 3-550
Furnace Vulcan Furnace (NEY) 3-550, SN: DKW1530110V
Gas Chromatograph 5890 series (ECD 1) Hewlett Packard 5890Series II/SN: 2950A27201
Gas Chromatograph (FID/PID) Varian 3800/SN: 03395
Gas Chromatograph 5890 series (VOC) Hewlett Packard 5890 Series II/SN: 3336A56381
Gas Chromatograph (dual FID) Hewlett Packard 5890 Series II/SN: 3121A42736
Gas Chromatograph 5890 series (ECD2) Hewlett Packard 5890Series II/SN: 313337584
Gas Chromatograph 5890 series (FID) Hewlett Packard 5890Series II/SN: 2950A27099
Gas Chromatograph 7890B Agilent Technologies 7890B; SN: US16393017



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Gas Chromatograph 7890B         Agilent Technologies 7890B; SN: CN193534076           Generator Set 3500 OHV         Coleman 3500 KVA           GPS 76         Garmin (S/N803422350)           GPS 76         Garmin (S/N14113755)           GPS eTrex H         Garmin           GPS eTrex etrex eTrex 20X Garmin         ETrex 20X Garmin           GPS eTrex         eTrex 20X Garmin           Harness (Full Body)         Model FS1010           Hazardous Waste Filtration System         Millipore Cat # YT30 142HW           Heating Block         Baxter           HotPLate (12" x 24")         Jetty Lab.           HotPlate (12" x 24")         Herror (12" x 24")           HotPlate (12" x 24")         Jetty Lab.           HotP	Instrument / Equipment	Brand (Model, Serial No.)
GPS 76         Garmin (S/N803422350)           GPS 76         Garmin (S/N14113755)           GPS eTrex H         Garmin           GPS eTrex         eTrex 20X Garmin           GPS eTrex         eTrex 20X Garmin           Harness (Full Body)         Model FS1010           Hazardous Waste Filtration System         Millipore Cat # YT30 142HW           Heating Block         Baxter           HotPLate (12" x 24")         Jetty Lab.           HotpLate (12" x 24")         Jetty Lab.           Hotplate         Barnstead/Thermolyne; Model SP18425; SN: 1725070306546           HotPLate (12" x 24")         Jetty Lab.           Hotplate         La Germania           HotPlate         Hanabishi/ HES-60F           HotPlate         Hanabishi/ HES-60F           HotPlate         La Germania Model E106W; SN: 1601-Q-4962           HotPlate         La Germania Model E106W; SN: 1601-Q-4962           HotPlate (12" x 24")         Jetty Lab.           Hot Plate (12" x 24")         Jetty Lab.; Fabricated           Hot Plate (12" x 24")         Jetty Lab.; Fabricated           H	Gas Chromatograph 7890B	Agilent Technologies 7890B; SN: CN193534076
GPS 76         Garmin (s/N14113755)           GPS eTrex H         Garmin           GPS eTrex         eTrex 20X Garmin           GPS eTrex         eTrex 20X Garmin           GPS eTrex         eTrex 20X Garmin           Harness (Full Body)         Model FS1010           Hazardous Waste Filtration System         Millipore Cat # YT30 142HW           Heating Block         Baxter           HolPLate (12" x 24")         Jetty Lab.           HotPLate (12" x 24")         Jetty Lab.           Hotplate         Barnstead/Thermolyne; Model SP18425; SN: 1725070306546           HotPLate (12" x 24")         Jetty Lab.           Hotplate         La Germania           HotPlate         Hanabishi/ HES-60F           HotPlate         Hanabishi/ HES-60F           HotPlate         Union, Model UGES-710           HotPlate         La Germania Model E106W; SN: 1601-Q-4962           HotPlate         La Germania Model E106W; SN: 1809-R-9191           HotPlate (12" x 24")         Jetty Lab.           HotPlate (12" x 24")         Jetty Lab.           HotPlate (12" x 24")         Jetty Lab.; Fabricated           HotPlate         La Germania; Model E106W; SN: 1503-Q-1524           Hygrometer/Thermometer (RH)         Control Company/ Model 4040; SN: 160434673	Generator Set 3500 OHV	Coleman 3500 KVA
GPS eTrex H         Garmin           GPS eTrex         eTrex 20X Garmin           GPS eTrex         eTrex 20X Garmin           GPS eTrex         eTrex 20X Garmin           Harness (Full Body)         Model FS1010           Hazardous Waste Filtration System         Millipore Cat # YT30 142HW           Heating Block         Baxter           HotPLate (12" x 24")         Jetty Lab.           HotPLate (12" x 24")         Jetty Lab.           Hotplate         1725070306546           HotPLate (12" x 24")         Jetty Lab.           HotPlate (12" x 24")         Jetty Lab.           HotPlate         Hanabishi/ HES-60F           HotPlate         Hanabishi/ HES-60F           HotPlate         Union, Model UGES-710           HotPlate         La Germania Model E106W; SN: 1601-Q-4962           Hotplate         La Germania Model E106W; SN: 1609-R-9191           HotPlate (12" x 24")         Jetty Lab.           HotPlate (12" x 24")         Jetty Lab.; Fabricated           HotPlate (12" x 24")         Jetty Lab.; Fabricated <td< td=""><td>GPS 76</td><td>Garmin (S/N803422350)</td></td<>	GPS 76	Garmin (S/N803422350)
GPS eTrex         eTrex 20X Garmin           GPS eTrex         eTrex 20X Garmin           GPS eTrex         eTrex 20X Garmin           Harness (Full Body)         Model FS1010           Hazardous Waste Filtration System         Millipore Cat # YT30 142HW           Heating Block         Baxter           HotPLate (12" x 24")         Jetty Lab.           HotPLate (12" x 24")         Jetty Lab.           Hotplate         Barnstead/Thermolyne; Model SP18425; SN: 1725070306546           HotPLate (12" x 24")         Jetty Lab.           HotPlate (12" x 24")         Jetty Lab.           HotPlate         Hanabishi/ HES-60F           HotPlate         Hanabishi/ HES-60F           HotPlate         Union, Model UGES-710           HotPlate         La Germania Model E106W; SN: 1601-Q-4962           HotPlate         La Germania Model E106W; SN: 1601-Q-4962           Hotplate         La Germania Model E106W; SN: 1809-R-9191           HotPlate (12" x 24")         Jetty Lab.; Fabricated           HotPlate (12	GPS 76	Garmin (S/N14113755)
GPS eTrex         eTrex 20X Garmin           Harness (Full Body)         Model FS1010           Hazardous Waste Filtration System         Millipore Cat # YT30 142HW           Heating Block         Baxter           HotPLate (12" x 24")         Jetty Lab.           HotPLate (12" x 24")         Jetty Lab.           Hotplate         Barnstead/Thermolyne; Model SP18425; SN: 1725070306546           HotPLate (12" x 24")         Jetty Lab.           Hotplate         La Germania           HotPlate         Hanabishi/ HES-60F           HotPlate         Hanabishi/ HES-60F           HotPlate         Union, Model UGES-710           HotPlate         La Germania Model E106W; SN: 1601-Q-4962           Hotplate         La Germania Model E106W; SN: 1809-R-9191           HotPlate (12" x 24")         Jetty Lab.           HotPlate (12" x 24")         Jetty Lab.; Fabricated           HotPlate         La Germania           Hotplate         La Germania; Model E106W; SN: 1503-Q-1524           Hygrometer/Thermometer (RH)         Control Company/ Model 4040; SN: 160434673           Thermometer/Hygrometer (RH)         Control Company/ Model 4040; SN: 170599932           Thermometer/Thermometer (RH)         VWR           Hygrometer/Thermometer (RH)         Control Company/ Model 4040; SN:	GPS eTrex H	Garmin
GPS eTrex         eTrex 20X Garmin           Harness (Full Body)         Model FS1010           Hazardous Waste Filtration System         Millipore Cat # YT30 142HW           Heating Block         Baxter           HotPLate (12" x 24")         Jetty Lab.           HotPLate (12" x 24")         Jetty Lab.           Hotplate         Barnstead/Thermolyne; Model SP18425; SN: 1725070306546           HotPLate (12" x 24")         Jetty Lab.           HotPlate         La Germania           HotPlate         Hanabishi/ HES-60F           HotPlate         Hanabishi/ HES-60F           HotPlate         Union, Model UGES-710           HotPlate         La Germania Model E106W; SN: 1601-Q-4962           Hotplate         La Germania Model E106W; SN: 1809-R-9191           HotPlate (12" x 24")         Jetty Lab.           Hot Plate (12" x 24")         Jetty Lab.; Fabricated           HotPlate         La Germania           Hotplate         La Germania           Hotplate         La Germania; Model E106W; SN: 1503-Q-1524           Hygrometer/Thermometer (RH)         Control Company/ Model 4040; SN: 160434673           Thermometer/Hygrometer (RH)         Control Company/ Model 4040; SN: 181341680           Hygrometer/Thermometer (RH)         Control Company/ Model 4040; SN: 180018619<	GPS eTrex	eTrex 20X Garmin
Harness (Full Body)  Hazardous Waste Filtration System  Millipore Cat # YT30 142HW  Heating Block  Baxter  HotPLate (12" x 24")  Jetty Lab.  Hotplate La Germania  HotPLate (12" x 24")  HotPlate Hanabishi/ HES-60F  HotPlate Hanabishi/ HES-60F  HotPlate Union, Model UGES-710  HotPlate La Germania Model E106W; SN: 1601-Q-4962  HotPlate La Germania Model E106W; SN: 1809-R-9191  HotPLate (12" x 24")  Jetty Lab.  Hot Plate (12" x 24")  Jetty Lab.; Fabricated  HotPlate La Germania  Hotplate La Germania  Hotplate La Germania  Control Company/ Model 4040; SN: 160434673  Thermometer/Hygrometer (RH)  Control Company/ Model 4040; SN: 181341680  Hygrometer/Thermometer (RH)  VWR  Hygrometer/Thermometer (RH)  Control Company/ Model 4040; SN: 180018619	GPS eTrex	eTrex 20X Garmin
Hazardous Waste Filtration System  Millipore Cat # YT30 142HW  Heating Block  Baxter  HotPLate (12" x 24")  Jetty Lab.  HotpLate (12" x 24")  Jetty Lab.  Hotplate  Barnstead/Thermolyne; Model SP18425; SN: 1725070306546  HotPLate (12" x 24")  Jetty Lab.  Hotplate  La Germania  HotPlate  Hanabishi/ HES-60F  HotPlate  HotPlate  Union, Model UGES-710  HotPlate  La Germania Model E106W; SN: 1601-Q-4962  HotPlate  La Germania Model E106W; SN: 1809-R-9191  HotPLate (12" x 24")  Jetty Lab.  Hot Plate (12" x 24")  Jetty Lab.; Fabricated  HotPlate  La Germania  Hotplate  La Ger	GPS eTrex	eTrex 20X Garmin
Heating Block   Baxter	Harness (Full Body)	Model FS1010
HotPLate (12" x 24")         Jetty Lab.           HotPLate (12" x 24")         Jetty Lab.           Hotplate         Barnstead/Thermolyne; Model SP18425; SN: 1725070306546           HotPLate (12" x 24")         Jetty Lab.           Hotplate         La Germania           HotPlate         Hanabishi/ HES-60F           HotPlate         Hanabishi/ HES-60F           HotPlate         Union, Model UGES-710           HotPlate         La Germania Model E106W; SN: 1601-Q-4962           Hotplate         La Germania Model E106W; SN: 1809-R-9191           HotPLate (12" x 24")         Jetty Lab.           Hot Plate (12" x 24")         Jetty Lab.; Fabricated           HotPlate         La Germania           Hotplate         La Germania; Model E106W; SN: 1503-Q-1524           Hygrometer/Thermometer (RH)         Control Company/ Model 4040; SN: 160434673           Thermometer/Hygrometer (RH)         Control Company/ Model 4040; SN: 170599932           Thermometer/Hygrometer (RH)         Control Company/ Model 4040; SN: 181341680           Hygrometer/Thermometer (RH)         VWR           Hygrometer/Thermometer (RH)         Control Company/ Model 4040; SN: 180018619	Hazardous Waste Filtration System	Millipore Cat # YT30 142HW
HotPLate (12" x 24")         Jetty Lab.           Hotplate         Barnstead/Thermolyne; Model SP18425; SN: 1725070306546           HotPLate (12" x 24")         Jetty Lab.           Hotplate         La Germania           HotPlate         Hanabishi/ HES-60F           HotPlate         Union, Model UGES-710           HotPlate         La Germania Model E106W; SN: 1601-Q-4962           Hotplate         La Germania Model E106W; SN: 1809-R-9191           HotPLate (12" x 24")         Jetty Lab.           Hot Plate ( 12" x 24")         Jetty Lab.; Fabricated           HotPlate         La Germania           Hotplate         La Germania; Model E106W; SN: 1503-Q-1524           Hygrometer/Thermometer (RH)         Control Company/ Model 4040; SN: 160434673           Thermometer/Hygrometer (RH)         Control Company/ Model 4040; SN: 170599932           Thermometer/Hygrometer (RH)         Control Company/ Model 4040; SN: 181341680           Hygrometer/Thermometer (RH)         VWR           Hygrometer/Thermometer (RH)         Control Company/ Model 4040; SN: 180018619	Heating Block	Baxter
Hotplate Barnstead/Thermolyne; Model SP18425; SN: 1725070306546  HotPLate (12" x 24") Jetty Lab.  Hotplate La Germania  HotPlate Hanabishi/ HES-60F  HotPlate Hanabishi/ HES-60F  HotPlate Union, Model UGES-710  HotPlate La Germania Model E106W; SN: 1601-Q-4962  Hotplate La Germania Model E106W; SN: 1809-R-9191  HotPLate (12" x 24") Jetty Lab.  Hot Plate (12" x 24") Jetty Lab.; Fabricated  HotPlate La Germania; Model E106W; SN: 1503-Q-1524  Hotplate La Germania; Model E106W; SN: 1503-Q-1524  Hygrometer/Thermometer (RH) Control Company/ Model 4040; SN: 170599932  Thermometer/Hygrometer (RH) Control Company/ Model 4040; SN: 181341680  Hygrometer/Thermometer (RH) VWR  Hygrometer/Thermometer (RH) Control Company/ Model 4040; SN: 180018619	HotPLate (12" x 24" )	Jetty Lab.
HotPlate (12" x 24")  HotPlate (12" x 24")  HotPlate La Germania  HotPlate Hanabishi/ HES-60F  HotPlate Hanabishi/ HES-60F  HotPlate Union, Model UGES-710  HotPlate La Germania Model E106W; SN: 1601-Q-4962  Hotplate La Germania Model E106W; SN: 1809-R-9191  HotPlate (12" x 24")  Jetty Lab.  Hot Plate (12" x 24")  Jetty Lab.; Fabricated  HotPlate La Germania  Hotplate La Germania  Hotplate La Germania  Formania  Hotplate Control Company/ Model 4040; SN: 170599932  Thermometer/Hygrometer (RH)  Control Company/ Model 4040; SN: 181341680  Hygrometer/Thermometer (RH)  WWR  Hygrometer/Thermometer (RH)  Control Company/ Model 4040; SN: 180018619	HotPLate (12" x 24" )	Jetty Lab.
Hotplate La Germania  HotPlate Hanabishi/ HES-60F  HotPlate Hanabishi/ HES-60F  HotPlate Union, Model UGES-710  HotPlate La Germania Model E106W; SN: 1601-Q-4962  Hotplate La Germania Model E106W; SN: 1809-R-9191  HotPLate (12" x 24") Jetty Lab.  Hot Plate (12" x 24") Jetty Lab.; Fabricated  HotPlate La Germania  Hotplate La Germania; Model E106W; SN: 1503-Q-1524  Hygrometer/Thermometer (RH) Control Company/ Model 4040; SN: 160434673  Thermometer/Hygrometer (RH) Control Company/ Model 4040; SN: 170599932  Thermometer/Hygrometer (RH) Control Company/ Model 4040; SN: 181341680  Hygrometer/Thermometer (RH) VWR  Hygrometer/Thermometer (RH) Control Company/ Model 4040; SN: 180018619	Hotplate	
HotPlate Hanabishi/ HES-60F  HotPlate Union, Model UGES-710  HotPlate La Germania Model E106W; SN: 1601-Q-4962  Hotplate La Germania Model E106W; SN: 1809-R-9191  HotPLate (12" x 24") Jetty Lab.  Hot Plate (12" x 24") Jetty Lab.; Fabricated  HotPlate La Germania  Hotplate La Germania  Control Company/ Model 4040; SN: 1503-Q-1524  Hygrometer/Hygrometer (RH) Control Company/ Model 4040; SN: 170599932  Thermometer/Hygrometer (RH) Control Company/ Model 4040; SN: 181341680  Hygrometer/Thermometer (RH) WR  Hygrometer/Thermometer (RH) Control Company/ Model 4040; SN: 180018619	HotPLate (12" x 24" )	Jetty Lab.
HotPlate Union, Model UGES-710  HotPlate La Germania Model E106W; SN: 1601-Q-4962  Hotplate La Germania Model E106W; SN: 1809-R-9191  HotPLate (12" x 24") Jetty Lab.  Hot Plate (12" x 24") Jetty Lab.; Fabricated  HotPlate La Germania  HotPlate La Germania  Hotplate La Germania; Model E106W; SN: 1503-Q-1524  Hygrometer/Thermometer (RH) Control Company/ Model 4040; SN: 170599932  Thermometer/Hygrometer (RH) Control Company/ Model 4040; SN: 181341680  Hygrometer/Thermometer (RH) WR  Hygrometer/Thermometer (RH) Control Company/ Model 4040; SN: 180018619	Hotplate	La Germania
HotPlate Union, Model UGES-710  HotPlate La Germania Model E106W; SN: 1601-Q-4962  Hotplate La Germania Model E106W; SN: 1809-R-9191  HotPLate (12" x 24") Jetty Lab.  Hot Plate (12" x 24") Jetty Lab.; Fabricated  HotPlate La Germania  Hotplate La Germania; Model E106W; SN: 1503-Q-1524  Hygrometer/Thermometer (RH) Control Company/ Model 4040; SN: 160434673  Thermometer/Hygrometer (RH) Control Company/ Model 4040; SN: 170599932  Thermometer/Hygrometer (RH) Control Company/ Model 4040; SN: 181341680  Hygrometer/Thermometer (RH) VWR  Hygrometer/Thermometer (RH) Control Company/ Model 4040; SN: 180018619	HotPlate	Hanabishi/ HES-60F
HotPlate La Germania Model E106W; SN: 1601-Q-4962  Hotplate La Germania Model E106W; SN: 1809-R-9191  HotPLate (12" x 24") Jetty Lab.  Hot Plate ( 12" x 24") Jetty Lab.; Fabricated  HotPlate La Germania  Hotplate La Germania; Model E106W; SN: 1503-Q-1524  Hygrometer/Thermometer (RH) Control Company/ Model 4040; SN: 160434673  Thermometer/Hygrometer (RH) Control Company/ Model 4040; SN: 170599932  Thermometer/Hygrometer (RH) Control Company/ Model 4040; SN: 181341680  Hygrometer/Thermometer (RH) VWR  Hygrometer/Thermometer (RH) Control Company/ Model 4040; SN: 180018619	HotPlate	Hanabishi/ HES-60F
Hotplate La Germania Model E106W; SN: 1809-R-9191  HotPLate (12" x 24") Jetty Lab.  Hot Plate ( 12" x 24") Jetty Lab.; Fabricated  HotPlate La Germania  Hotplate La Germania; Model E106W; SN: 1503-Q-1524  Hygrometer/Thermometer (RH) Control Company/ Model 4040; SN: 160434673  Thermometer/Hygrometer (RH) Control Company/ Model 4040; SN: 170599932  Thermometer/Hygrometer (RH) Control Company/ Model 4040; SN: 181341680  Hygrometer/Thermometer (RH) VWR  Hygrometer/Thermometer (RH) Control Company/ Model 4040; SN: 180018619	HotPlate	Union, Model UGES-710
HotPLate (12" x 24")  Hot Plate ( 12" x 24")  Jetty Lab.; Fabricated  HotPlate  La Germania  Hotplate  La Germania; Model E106W; SN: 1503-Q-1524  Hygrometer/Thermometer (RH)  Control Company/ Model 4040; SN: 160434673  Thermometer/Hygrometer (RH)  Control Company/ Model 4040; SN: 170599932  Thermometer/Hygrometer (RH)  Control Company/ Model 4040; SN: 181341680  Hygrometer/Thermometer (RH)  VWR  Hygrometer/Thermometer (RH)  Control Company/ Model 4040; SN: 180018619	HotPlate	La Germania Model E106W; SN: 1601-Q-4962
Hot Plate ( 12" x 24" )  HotPlate  La Germania  Hotplate  La Germania; Model E106W; SN: 1503-Q-1524  Hygrometer/Thermometer (RH)  Control Company/ Model 4040; SN: 160434673  Thermometer/Hygrometer (RH)  Control Company/ Model 4040; SN: 170599932  Thermometer/Hygrometer (RH)  Control Company/ Model 4040; SN: 181341680  Hygrometer/Thermometer (RH)  VWR  Hygrometer/Thermometer (RH)  Control Company/ Model 4040; SN: 180018619	Hotplate	La Germania Model E106W; SN: 1809-R-9191
HotPlate La Germania  Hotplate La Germania; Model E106W; SN: 1503-Q-1524  Hygrometer/Thermometer (RH) Control Company/ Model 4040; SN: 160434673  Thermometer/Hygrometer (RH) Control Company/ Model 4040; SN: 170599932  Thermometer/Hygrometer (RH) Control Company/ Model 4040; SN: 181341680  Hygrometer/Thermometer (RH) VWR  Hygrometer/Thermometer (RH) Control Company/ Model 4040; SN: 180018619	HotPLate (12" x 24" )	Jetty Lab.
Hotplate La Germania; Model E106W; SN: 1503-Q-1524  Hygrometer/Thermometer (RH) Control Company/ Model 4040; SN: 160434673  Thermometer/Hygrometer (RH) Control Company/ Model 4040; SN: 170599932  Thermometer/Hygrometer (RH) Control Company/ Model 4040; SN: 181341680  Hygrometer/Thermometer (RH) VWR  Hygrometer/Thermometer (RH) Control Company/ Model 4040; SN: 180018619	Hot Plate ( 12" x 24" )	Jetty Lab.; Fabricated
Hygrometer/Thermometer (RH)  Control Company/ Model 4040; SN: 160434673  Thermometer/Hygrometer (RH)  Control Company/ Model 4040; SN: 170599932  Thermometer/Hygrometer (RH)  Control Company/ Model 4040; SN: 181341680  Hygrometer/Thermometer (RH)  VWR  Hygrometer/Thermometer (RH)  Control Company/ Model 4040; SN: 180018619	HotPlate	La Germania
Thermometer/Hygrometer (RH)  Control Company/ Model 4040; SN: 170599932  Thermometer/Hygrometer (RH)  Control Company/ Model 4040; SN: 181341680  Hygrometer/Thermometer (RH)  VWR  Hygrometer/Thermometer (RH)  Control Company/ Model 4040; SN: 180018619	Hotplate	La Germania; Model E106W; SN: 1503-Q-1524
Thermometer/Hygrometer (RH)  Control Company/ Model 4040; SN: 181341680  Hygrometer/Thermometer (RH)  VWR  Hygrometer/Thermometer (RH)  Control Company/ Model 4040; SN: 180018619	Hygrometer/Thermometer (RH)	Control Company/ Model 4040; SN: 160434673
Hygrometer/Thermometer (RH)  VWR  Hygrometer/Thermometer (RH)  Control Company/ Model 4040; SN: 180018619	Thermometer/Hygrometer (RH)	Control Company/ Model 4040; SN: 170599932
Hygrometer/Thermometer (RH)  Control Company/ Model 4040; SN: 180018619	Thermometer/Hygrometer (RH)	Control Company/ Model 4040; SN: 181341680
	Hygrometer/Thermometer (RH)	VWR
Hygrometer/Thermometer (RH) VWR	Hygrometer/Thermometer (RH)	Control Company/ Model 4040; SN: 180018619
	Hygrometer/Thermometer (RH)	VWR



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Instrument / Equipment	Brand (Model, Serial No.)
Hygrometer/Thermometer (RH)	VWR
Hygrometer/Thermometer (RH)	VWR
Hygrometer/Thermometer (RH)	VWR
Thermometer/Hygrometer (RH)	Control Company/ Model 4040; SN: 181341293
Thermometer/Hygrometer (RH)	Control Company/ Model 4040; SN: 181341265
Hygrometer/Thermometer (RH)	Control Company/ Model 4040; SN: 160473967
Hygrometer/Thermometer (RH)	Control Company/ Model 4040; SN: 160434681
Hygrometer/Thermometer (RH)	Control Company/ Model 4040; SN: 170397555
Hygrometer/Thermometer (RH)	Control Company/ Model 4040; SN: 170397551
Hygrometer/Thermometer (RH)	VWR
ICP- OES	Agilent Tech.; Model 5110-SVDV; SN: MY17260002
Incubator	Lorenza/SN: 1.3166567
Incubator	Delta
Incubator	Tefcold SD 1380
Incubator	VWR 1520
Incubator	Memmert
Incubator	Precision
Incubator-Coliform	Lorenza 2011
Incubator	Memmert
Magnetic Stirrer	VWR
Magentic Stirrer	Corning Model: PC 410D; SN155215195073
Magnetic Stirrer	Corning
Mass Selective Detector 3	HP 5972
Mercury Analyzer (Teledyne)	Hydra II AA SN: US18162002
Microscope	Nikon Eclipse 2600
Microscope	Biological Microscope Model XSZ-107BN
Microwave	Mabe; ME12340DVSL
Mixer-Vortex	Burnstead-Thermolyne
Mixer-Vortex	Digisystem, VW 2000, SN: VM2-16010012
Multiparameter Meter	Thermo Model Meter, 1219000 S/N A17118
pH meter	pH probe
Conductivity meter	conductivity probe



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<sup>■</sup> Laboratory: Bldg. 2, Berthaphil Compound I, Berthaphil Business Park, CFZ, Clarkfield, Pampanga, Philippines 2023 Tel: (6345) 599-3943 \* (6345) 499-6529 \* (632) 8552-5100 \* Fax: (6345) 599-3963

Dissolved Oxygen probe           Nitrate ISE         Thermo Scientific Orion 9700BNWP           ORPTester 10         ORPTester-Eutech; SN: 2403636           Oven         Mement           Oven         Memmert (Modell 300) D 06059           Oven         Heraeus/Lab.Ind.           Oven         Memmert-Germany-53L 2010           Oven         Raven from Lorenza           Oven         Memmert, UN155, SN: B217.2773           Oven         Memmert, UN110, SN: B418.1627           Pensky-Martens closed cup flash pt. Tester         Koeler           pH meter (Horiba, Model D-51E)         Horiba, Model D51-E, SN S304161           pH Meter         Hanna (pH211)           pH Meter         Adwa S/N 886829 Model AD 1040 3-2012           pH Meter         Eutech-SN 608802 3-2012           pH Meter         Horiba           pH Meter         Horiba           pH meter/ ISE meter         Thermo Scientific; Orion Versa Star Pro           pH Meter pH 5+         Eutech S/N 2766399           pH Meter pH 5+         Eutech S/N 897202           pH Meter pH Meter pH 5+         Eutech S/N 893318           pH Meter pH5+         Eutech S/N 2303371           pH Meter pH5+         Eutech S/N 2330371           pH Meter pH5+         Eutec	Instrument / Equipment	Brand (Model, Serial No.)	
ORPTester 10         ORPTester-Eutech; SN: 2403636           Oven         Mement           Oven         Memmert (Modell 300) D 06059           Oven         Heraeus/Lab.Ind.           Oven         Memmert-Germany-53L 2010           Oven         Raven from Lorenza           Oven         Memmert, UN55, SN: B217.2773           Oven         Memmert, UN110, SN: B418.1627           Pensky-Martens closed cup flash pt. Tester         Koeler           pH meter (Horiba, Model D-51E)         Horiba, Model D51-E, SN S304161           pH Meter         Hanna (pH211)           pH Meter         Adwa S/N 886829 Model AD 1040 3-2012           pH Meter         Eutech-SN 608802 3-2012           pH Meter         Eutech S/N 2523584           pH Meter         Horiba           pH meter/ ISE meter         Thermo Scientific; Orion Versa Star Pro           pH Meter pH 5+         Eutech S/N 2766399           pH Meter         Eutech O2Plusk 2010           pH Meter         Eutech S/N 954318           pH Meter pH5+         Eutech S/N 2027720           pH Meter pH5+         Eutech S/N 2330371           pH Meter pH5+         Eutech S/N 2330357           pH Meter pH5+         Eutech S/N 253588           pH Meter pH5+ <th< td=""><td>Dissolved Oxygen</td><td>Dissolved Oxygen probe</td></th<>	Dissolved Oxygen	Dissolved Oxygen probe	
Oven         Memert           Oven         Memmert(Modell 300) D 06059           Oven         Heraeus/Lab.Ind.           Oven         Memmert-Germany-53L 2010           Oven         Raven from Lorenza           Oven         Memmert, UN55, SN: B217.2773           Oven         Memmert, UN110, SN: B418.1627           Pensky-Martens closed cup flash pt. Tester         Koeler           pH meter (Horiba, Model D-51E)         Horiba, Model D51-E, SN S304161           pH Meter         Hanna (pH211)           pH Meter         Adwa S/N 886829 Model AD 1040 3-2012           pH Meter         Eutech-SN 608802 3-2012           pH Meter         Eutech S/N 2523584           pH Meter         Horiba           pH meter/ ISE meter         Thermo Scientific; Orion Versa Star Pro           pH Meter pH5+         Eutech S/N 2766399           pH Meter pH5+         Eutech S/N 997202           pH Meter         Eutech S/N 997202           pH Meter pH5+         Eutech S/N 2027720           pH Meter pH5+         Eutech S/N 2330371           pH Meter pH5+         Eutech S/N 253588           pH Meter pH5+         Eutech S/N 2523588           pH Meter pH5+         Eutech S/N 2523582           pH Meter pH5+         Eutech S	Nitrate ISE	Thermo Scientific Orion 9700BNWP	
Oven         Memmert(Modell 300) D 06059           Oven         Heraeus/Lab.Ind.           Oven         Memmert-Germany-53L 2010           Oven         Raven from Lorenza           Oven         Memmert, UN55, SN: B217.2773           Oven         Memmert, UN110, SN: B418.1627           Pensky-Martens closed cup flash pt. Tester         Koeler           PH meter (Horiba, Model D-51E)         Horiba, Model D51-E, SN S304161           pH Meter         Hanna (pH211)           pH Meter         Adwa S/N 886829 Model AD 1040 3-2012           pH Meter         Eutech-SN 2523584           pH Meter         Eutech S/N 2523584           pH Meter pH 5+         Eutech S/N 2766399           pH Meter pH 5+         Eutech S/N 2766399           pH Meter         Eutech S/N 2766399           pH Meter         Eutech S/N 277202           pH Meter         Eutech S/N 397202           pH Meter pH5+         Eutech S/N 2027720           pH Meter pH5+         Eutech S/N 2330371           pH Meter pH5+         Eutech S/N 2330357           pH Meter pH5+         Eutech S/N 253588           pH Meter pH5+         Eutech S/N 253582           pH Meter pH5+         Eutech S/N 2538974           pH Meter pH5+         Eutech S/N 2	ORPTester 10	ORPTester-Eutech; SN: 2403636	
Oven         Heraeus/Lab.Ind.           Oven         Memmert-Germany-53L 2010           Oven         Raven from Lorenza           Oven         Memmert, UN55, SN: B217.2773           Oven         Memmert, UN110, SN: B418.1627           Pensky-Martens closed cup flash pt. Tester         Koeler           PH meter (Horiba, Model D-51E)         Horiba, Model D51-E, SN S304161           pH Meter         Hanna (pH211)           pH Meter         Adwa S/N 86829 Model AD 1040 3-2012           pH Meter         Eutech-SN 608802 3-2012           pH Meter         Eutech S/N 2523584           pH Meter         Horiba           pH meter/ ISE meter         Thermo Scientific; Orion Versa Star Pro           pH Meter pH 5+         Eutech S/N 2766399           pH Meter         Eutech S/N 2766399           pH Meter         Eutech S/N 297402           pH Meter         Eutech S/N 297402           pH Meter         Eutech S/N 2027720           pH Meter pH5+         Eutech S/N 2030371           pH Meter pH5+         Eutech S/N 2330357           pH Meter pH5+         Eutech S/N 2518962           pH Meter pH5+         Eutech S/N 2523588           pH Meter pH5+         Eutech S/N 2518974           pH Meter pH5+         E	Oven	Memert	
Oven         Memmert-Germany-53L 2010           Oven         Raven from Lorenza           Oven         Memmert, UN55, SN: B217.2773           Oven         Memmert, UN110, SN: B418.1627           Pensky-Martens closed cup flash pt. Tester         Koeler           PH meter (Horiba, Model D-51E)         Horiba, Model D51-E, SN S304161           pH Meter         Hanna (pH211)           pH Meter         Adwa S/N 86829 Model AD 1040 3-2012           pH Meter         Eutech-SN 608802 3-2012           pH Meter         Eutech S/N 2523584           pH Meter         Horiba           pH meter/ ISE meter         Thermo Scientific; Orion Versa Star Pro           pH Meter pH 5+         Eutech S/N 2766399           pH Meter         Eutech S/N 2766399           pH Meter         Eutech S/N 291usk 2010           pH Meter         Eutech S/N 291usk 2010           pH Meter         Eutech S/N 297202           pH Meter pH5+         Eutech S/N 2027720           pH Meter pH5+         Eutech S/N 2330371           pH Meter pH5+         Eutech S/N 2330357           pH Meter pH5+         Eutech S/N 2518962           pH Meter pH5+         Eutech S/N 2523588           pH Meter pH5+         Eutech S/N 2518974           pH Meter pH5	Oven	Memmert(Modell 300) D 06059	
Oven         Raven from Lorenza           Oven         Memmert, UN55, SN: B217.2773           Oven         Memmert, UN110, SN: B418.1627           Pensky-Martens closed cup flash pt. Tester         Koeler           pH meter (Horiba, Model D-51E)         Horiba, Model D51-E, SN S304161           pH Meter         Hanna (pH211)           pH Meter         Adwa S/N 886829 Model AD 1040 3-2012           pH Meter         Eutech-SN 608802 3-2012           pH Meter         Eutech S/N 2523584           pH Meter         Horiba           pH meter/ ISE meter         Thermo Scientific; Orion Versa Star Pro           pH Meter pH 5+         Eutech S/N 2766399           pH Meter         Eutech 02Plusk 2010           pH Meter         Eutech S/N897202           pH Meter pH5+         Eutech S/N 954318           pH Meter pH5+         Eutech S/N 2027720           pH Meter pH5+         Eutech S/N 2330371           pH Meter pH5+         Eutech S/N 2518962           pH Meter pH5+         Eutech S/N 2523588           pH Meter pH5+         Eutech S/N 253582           pH Meter pH5+         Eutech S/N 2518974           pH Meter pH5+         Eutech S/N 2518971	Oven	Heraeus/Lab.Ind.	
Oven         Memmert, UN55, SN: B217.2773           Oven         Memmert, UN110, SN: B418.1627           Pensky-Martens closed cup flash pt. Tester         Koeler           pH meter (Horiba, Model D-51E)         Horiba, Model D51-E, SN S304161           pH Meter         Hanna (pH211)           pH Meter         Adwa S/N 886829 Model AD 1040 3-2012           pH Meter         Eutech-SN 608802 3-2012           pH Meter         Eutech S/N 2523584           pH Meter         Horiba           pH meter/ ISE meter         Thermo Scientific; Orion Versa Star Pro           pH Meter pH 5+         Eutech S/N 2766399           pH Meter         Eutech O2Plusk 2010           pH Meter         Eutech O2Plusk 2010           pH Meter         Eutech S/N 897202           pH Meter pH5+         Eutech S/N 2027720           pH Meter pH5+         Eutech S/N 2330371           pH Meter pH5+         Eutech S/N 2330357           pH Meter pH5+         Eutech S/N 2523588           pH Meter pH5+         Eutech S/N 2523582           pH Meter pH5+         Eutech S/N 2518974           pH Meter pH5+         Eutech S/N 2518971	Oven	Memmert-Germany-53L 2010	
Oven         Memmert, UN110, SN: B418.1627           Pensky-Martens closed cup flash pt. Tester         Koeler           pH meter (Horiba, Model D-51E)         Horiba, Model D51-E, SN S304161           pH Meter         Hanna (pH211)           pH Meter         Adwa S/N 886829 Model AD 1040 3-2012           pH Meter         Eutech-SN 608802 3-2012           pH Meter         Eutech S/N 2523584           pH Meter         Horiba           pH meter/ ISE meter         Thermo Scientific; Orion Versa Star Pro           pH Meter pH 5+         Eutech S/N 2766399           pH Meter         Eutech O2Plusk 2010           pH Meter         Eutech S/N 297202           pH Meter pH5+         Eutech S/N 954318           pH Meter pH5+         Eutech S/N 2027720           pH Meter pH5+         Eutech S/N 2330371           pH Meter pH5+         Eutech S/N 2518962           pH Meter pH5+         Eutech S/N 2523588           pH Meter pH5+         Eutech S/N 2523582           pH Meter pH5+         Eutech S/N 2518974           pH Meter pH5+         Eutech S/N 2518971	Oven	Raven from Lorenza	
Pensky-Martens closed cup flash pt. Tester         Koeler           pH meter (Horiba, Model D-51E)         Horiba, Model D51-E, SN S304161           pH Meter         Hanna (pH211)           pH Meter         Adwa S/N 886829 Model AD 1040 3-2012           pH Meter         Eutech-SN 608802 3-2012           pH Meter         Eutech S/N 2523584           pH Meter         Horiba           pH meter/ ISE meter         Thermo Scientific; Orion Versa Star Pro           pH Meter pH 5+         Eutech S/N 2766399           pH Meter         Eutech 02Plusk 2010           pH Meter         Eutech S/N897202           pH Meter pH5+         Eutech S/N 954318           pH Meter pH5+         Eutech S/N 2027720           pH Meter pH5+         Eutech S/N 2330371           pH Meter pH5+         Eutech S/N 2518962           pH Meter pH5+         Eutech S/N 2523588           pH Meter pH5+         Eutech S/N 2523582           pH Meter pH5+         Eutech S/N 2518974           pH Meter pH5+         Eutech S/N 2518971	Oven	Memmert, UN55, SN: B217.2773	
pH meter (Horiba, Model D-51E)         Horiba, Model D51-E, SN S304161           pH Meter         Hanna (pH211)           pH Meter         Adwa S/N 886829 Model AD 1040 3-2012           pH Meter         Eutech-SN 608802 3-2012           pH Meter         Eutech S/N 2523584           pH Meter         Horiba           pH meter/ ISE meter         Thermo Scientific; Orion Versa Star Pro           pH Meter pH 5+         Eutech S/N 2766399           pH Meter         Eutech 02Plusk 2010           pH Meter         Eutech S/N897202           pH Meter pH5+         Eutech S/N 2027720           pH Meter pH5+         Eutech S/N 2330371           pH Meter pH5+         Eutech S/N 2330357           pH Meter pH5+         Eutech S/N 2518962           pH Meter pH5+         Eutech S/N 2523588           pH Meter pH5+         Eutech S/N 253862           pH Meter pH5+         Eutech S/N 2518974           pH Meter pH5+         Eutech S/N 2518971	Oven	Memmert, UN110, SN: B418.1627	
pH Meter         Hanna (pH211)           pH Meter         Adwa S/N 886829 Model AD 1040 3-2012           pH Meter         Eutech-SN 608802 3-2012           pH Meter         Eutech S/N 2523584           pH Meter         Horiba           pH meter/ ISE meter         Thermo Scientific; Orion Versa Star Pro           pH Meter pH 5+         Eutech S/N 2766399           pH Meter         Eutech 02Plusk 2010           pH Meter         Eutech S/N897202           pH Meter pH5+         Eutech S/N 954318           pH Meter pH5+         Eutech S/N 2027720           pH Meter pH5+         Eutech S/N 2330371           pH Meter pH5+         Eutech S/N 2330357           pH Meter pH5+         Eutech S/N 2518962           pH Meter pH5+         Eutech S/N 2523588           pH Meter pH5+         Eutech S/N 2523582           pH Meter pH5+         Eutech S/N 2518974           pH Meter pH5+         Eutech S/N 2518971	Pensky-Martens closed cup flash pt. Tester	Koeler	
pH Meter         Adwa S/N 886829 Model AD 1040 3-2012           pH Meter         Eutech-SN 608802 3-2012           pH Meter         Eutech S/N 2523584           pH Meter         Horiba           pH meter/ ISE meter         Thermo Scientific; Orion Versa Star Pro           pH Meter pH 5+         Eutech S/N 2766399           pH Meter         Eutech 02Plusk 2010           pH Meter         Eutech S/N897202           pH Meter pH5+         Eutech S/N 954318           pH Meter pH5+         Eutech S/N 2027720           pH Meter pH5+         Eutech S/N 2330371           pH Meter pH5+         Eutech S/N 2330357           pH Meter pH5+         Eutech S/N 2518962           pH Meter pH5+         Eutech S/N 2523588           pH Meter pH5+         Eutech S/N 2523582           pH Meter pH5+         Eutech S/N 2518974           pH Meter pH5+         Eutech S/N 2518971	pH meter (Horiba, Model D-51E)	Horiba, Model D51-E, SN S304161	
pH Meter         Eutech-SN 608802 3-2012           pH Meter         Eutech S/N 2523584           pH Meter         Horiba           pH meter/ ISE meter         Thermo Scientific; Orion Versa Star Pro           pH Meter pH 5+         Eutech S/N 2766399           pH Meter         Eutech 02Plusk 2010           pH Meter         Eutech S/N897202           pH Meter pH5+         Eutech S/N 954318           pH Meter pH5+         Eutech S/N 2027720           pH Meter pH5+         Eutech S/N 2330371           pH Meter pH5+         Eutech S/N 2518962           pH Meter pH5+         Eutech S/N 2523588           pH Meter pH5+         Eutech S/N 2523582           pH Meter pH5+         Eutech S/N 2518974           pH Meter pH5+         Eutech S/N 2518971	pH Meter	Hanna (pH211)	
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pH meter/ ISE meter         Thermo Scientific; Orion Versa Star Pro           pH Meter pH 5+         Eutech S/N 2766399           pH Meter         Eutech 02Plusk 2010           pH Meter         Eutech S/N897202           pH Meter pH5+         Eutech S/N 954318           pH Meter pH5+         Eutech S/N 2027720           pH Meter pH5+         Eutech S/N 2330371           pH Meter pH5+         Eutech S/N 2330357           pH Meter pH5+         Eutech S/N 2518962           pH Meter pH5+         Eutech S/N 2523588           pH Meter pH5+         Eutech S/N 2523582           pH Meter pH5+         Eutech S/N 2518974           pH Meter pH5+         Eutech S/N 2518971	pH Meter	Eutech S/N 2523584	
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pH Meter         Eutech 02Plusk 2010           pH Meter         Eutech S/N897202           pH Meter pH5+         Eutech S/N 954318           pH Meter pH5+         Eutech S/N 2027720           pH Meter pH5+         Eutech S/N 2330371           pH Meter pH5+         Eutech S/N 2518962           pH Meter pH5+         Eutech S/N 2523588           pH Meter pH5+         Eutech S/N 2523582           pH Meter pH5+         Eutech S/N 2518974           pH Meter pH5+         Eutech S/N 2518971	pH meter/ ISE meter	Thermo Scientific; Orion Versa Star Pro	
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pH Meter pH5+       Eutech S/N 2518962         pH Meter pH5+       Eutech S/N 2523588         pH Meter pH5+       Eutech S/N 2523582         pH Meter pH5+       Eutech S/N 2518974         pH Meter pH5+       Eutech S/N 2518971	pH Meter pH5+	Eutech S/N 2330371	
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pH Meter pH5+       Eutech S/N 2523582         pH Meter pH5+       Eutech S/N 2518974         pH Meter pH5+       Eutech S/N 2518971	pH Meter pH5+	Eutech S/N 2518962	
pH Meter pH5+ Eutech S/N 2518974 pH Meter pH5+ Eutech S/N 2518971	pH Meter pH5+	Eutech S/N 2523588	
pH Meter pH5+ Eutech S/N 2518971	pH Meter pH5+	Eutech S/N 2523582	
	pH Meter pH5+	Eutech S/N 2518974	
pH Meter pH5+ Eutech S/N 2393665	pH Meter pH5+	Eutech S/N 2518971	
	pH Meter pH5+	Eutech S/N 2393665	



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Instrument / Equipment	Brand (Model, Serial No.)
pH Meter pH5+	Eutech S/N 2554324
pH Meter pH5+	Eutech S/N 2393688
pH Meter pH 5+	Eutech S/N 2708204
pH Meter pH 5+	Eutech S/N 2766402
pH Meter pH 5+	Eutech S/N 2766398
pH Meter pH 5+	Eutech S/N 2766405
pH Meter pH 5+	Eutech S/N 2861633
pH Meter pH 5+	Eutech S/N 2861634
pH Meter pH 5+	Eutech S/N 2861636
pH Meter pH 5+	Eutech S/N 2861635
pH Meter pH 5+	Eutech S/N 2861631
pH Meter pH 5+	Eutech S/N 2861639
pH Meter pH 5+	Eutech S/N 2861638
pH Meter pH 5+	Eutech S/N 2861637
pH Meter pH5+	Eutech S/N 2393658
pH Meter pH 5+	Eutech S/N 2861640
pH Meter pH5+	Eutech S/N 2393669
pH meter	Sper Scientific Advanced pH meter Model 850055; SN: 10317040
Pipettor 10 uL to 100 uL	Dragon Lab Micropette Pipettor, SN YL4A058702
Pipettor 100 uL to 1000 uL	Dragon Lab Micropette Pipettor, SN YL5G131472
Pipettor 10 uL to 100 uL	Thermo (Finnpipette) HH19269
Pipettor 25 uL	Bio-Hit Proline
Pipettor 10-100 uL	Bio-Hit Proline/ 1117189
Pipettor 10-100 uL	Brand Transferpette; SN :18F61774
Pipettor 100-1000 uL	Brand Transferpette; SN :18J18991
Pipettor 1-10 mL	Thermo-Finnpipette HH24017 ( April 2012 )
Pipettor 100-1000 uL	DragonLab Micropette Pipettor
Pipettor 1-10 ml	Brand Transferpette; SN: 18M84943
Pipettor 10-100 uL	Dragon Lab Micropette Pipettor, SN YL4A058690
Pipettor 10-100 uL	Transferpette (Brand): SN: 17E57099
Pipettor 100 uL to 1000 uL	Transferpette (Brand): SN: 17E49934



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<sup>■</sup> Laboratory: Bldg. 2, Berthaphil Compound I, Berthaphil Business Park, CFZ, Clarkfield, Pampanga, Philippines 2023 Tel: (6345) 599-3943 \* (6345) 499-6529 \* (632) 8552-5100 \* Fax: (6345) 599-3963

Refrigerator         Sanyo           Refrigerator         Fujidenzo; Model SU-Set of Weights           100 grams         Fisher           200 grams         Fisher           2 grams         Fisher           10 grams         Fisher           20 grams         Fisher           (1) 100 gms         Troemner           (1) 50 gms         Troemner           (2) 20 gms         Troemner           (1) 5 gms         Troemner           (1) 5 gms         Troemner           (1) 5 gms         Troemner           (1) 50 mg         Troemner           (1) 9m         Troemner           (1) 100 mg         Troemner           (1) 100 mg         Troemner           (1) 100 mg         Troemner           (1) 10 mg         Troemner           (1) 10 mg         Troemner           Printer         HP D5560           APC         Back up UPS (ES-500           SpectroAAS (AA 7000)         Shimadzu           Monitor         Dell           CPU         Dell           Printer         HP           APC         Back up UPS (ES-500           Isolation Transformer         Isolation Transformer	No.)	Brand (	Instrument / Equipment
Set of Weights         Fisher           100 grams         Fisher           200 grams         Fisher           2 grams         Fisher           10 grams         Fisher           20 grams         Fisher           (1) 100 gms         Troemner           (1) 50 gms         Troemner           (2) 20 gms         Troemner           (1) 10 gms         Troemner           (2) 2 gms         Troemner           (1) gm         Troemner           (1) gm         Troemner           (1) 500 mg         Troemner           (1) 100 mg         Troemner           (1) 50 mg         Troemner           (1) 10 mg         Troemner           (1) 10 mg         Troemner           (1) 10 mg         Troemner           Printer         HP D5560           APC         Back up UPS (ES-500           SpectroAAS (AA 7000)         Shimadzu           Monitor         Dell           CPU         Dell           Printer         HP           APC         Back up UPS (ES-500           Isolation Transformer		Sanyo	Refrigerator
100 grams         Fisher           200 grams         Fisher           2 grams         Fisher           10 grams         Fisher           20 grams         Fisher           (1) 100 gms         Troemner           (1) 50 gms         Troemner           (2) 20 gms         Troemner           (1) 10 gms         Troemner           (1) 5 gms         Troemner           (1) gm         Troemner           (1) gm         Troemner           (1) 500 mg         Troemner           (1) 100 mg         Troemner           (1) 50 mg         Troemner           (1) 10 mg         Troemner           (1) 10 mg         Troemner           (1) 10 mg         Troemner           (1) 10 mg         Troemner           SpectroAAS (AA 7000)         Shimadzu           Monitor         Dell           Keyboard         Dell           Printer         HP           APC         Back up UPS (ES-500           Isolation Transformer	90A	Fujiden	Refrigerator
200 grams         Fisher           2 grams         Fisher           10 grams         Fisher           20 grams         Fisher           (1) 100 gms         Troemner           (1) 50 gms         Troemner           (2) 20 gms         Troemner           (1) 10 gms         Troemner           (2) 2 gms         Troemner           (1) gm         Troemner           (1) gm         Troemner           (1) 500 mg         Troemner           (1) 100 mg         Troemner           (1) 50 mg         Troemner           (1) 10 mg         Troemner           (1) 10 mg         Troemner           (1) 10 mg         Troemner           (1) 10 mg         Troemner           (2) 200 mg         Troemner           (1) 50 mg         Troemner           (2) 200 mg         Troemner           (2) 200 mg         Troemner           (2) 200 mg </td <td></td> <td>Fisher</td> <td>Set of Weights</td>		Fisher	Set of Weights
2 grams         Fisher           10 grams         Fisher           20 grams         Fisher           (1) 100 gms         Troemner           (1) 50 gms         Troemner           (2) 20 gms         Troemner           (1) 10 gms         Troemner           (1) 5 gms         Troemner           (1) gm         Troemner           (1) gm         Troemner           (1) gm         Troemner           (1) 500 mg         Troemner           (1) 100 mg         Troemner           (1) 50 mg         Troemner           (1) 10 mg         Troemner           Printer         HP D5560           APC         Back up UPS (ES-500           SpectroAAS (AA 7000)         Shimadzu           Monitor         Dell           Keyboard         Dell           CPU         Dell           Printer         HP           APC         Back up UPS (ES-500           Isolation Transformer		Fisher	100 grams
10 grams		Fisher	200 grams
20 grams		Fisher	2 grams
(1) 100 gms         Troemner           (1) 50 gms         Troemner           (2) 20 gms         Troemner           (1) 10 gms         Troemner           (1) 5 gms         Troemner           (2) 2 gms         Troemner           (1) gm         Troemner           (1) 500 mg         Troemner           (2) 200 mg         Troemner           (1) 100 mg         Troemner           (1) 50 mg         Troemner           (1) 10 mg         Troemner           Printer         HP D5560           APC         Back up UPS (ES-500           SpectroAAS (AA 7000)         Shimadzu           Monitor         Dell           Keyboard         Dell           CPU         Dell           Printer         HP           APC         Back up UPS (ES-500           Isolation Transformer		Fisher	10 grams
(1) 50 gms         Troemner           (2) 20 gms         Troemner           (1) 10 gms         Troemner           (1) 5 gms         Troemner           (2) 2 gms         Troemner           (1) gm         Troemner           (1) 500 mg         Troemner           (2) 200 mg         Troemner           (1) 100 mg         Troemner           (1) 50 mg         Troemner           (1) 10 mg         Troemner           Printer         HP D5560           APC         Back up UPS (ES-500           SpectroAAS (AA 7000)         Shimadzu           Monitor         Dell           Keyboard         Dell           CPU         Dell           Printer         HP           APC         Back up UPS (ES-500           Isolation Transformer		Fisher	20 grams
(2) 20 gms         Troemner           (1) 10 gms         Troemner           (1) 5 gms         Troemner           (2) 2 gms         Troemner           (1) gm         Troemner           (1) 500 mg         Troemner           (2) 200 mg         Troemner           (1) 100 mg         Troemner           (1) 50 mg         Troemner           (1) 10 mg         Troemner           (1) 10 mg         Troemner           Printer         HP D5560           APC         Back up UPS (ES-500           SpectroAAS (AA 7000)         Shimadzu           Graphite Furnace         Shimadzu           Monitor         Dell           CPU         Dell           Printer         HP           APC         Back up UPS (ES-500           Isolation Transformer		Troemn	( 1 ) 100 gms
(1) 10 gms         Troemner           (1) 5 gms         Troemner           (2) 2 gms         Troemner           (1) gm         Troemner           (1) 500 mg         Troemner           (2) 200 mg         Troemner           (1) 100 mg         Troemner           (1) 50 mg         Troemner           (1) 10 mg         Troemner           Printer         HP D5560           APC         Back up UPS (ES-500           SpectroAAS (AA 7000)         Shimadzu           Monitor         Dell           Keyboard         Dell           CPU         Dell           Printer         HP           APC         Back up UPS (ES-500           Isolation Transformer		Troemn	(1) 50 gms
(1) 5 gms         Troemner           (2) 2 gms         Troemner           (1) gm         Troemner           (1) 500 mg         Troemner           (2) 200 mg         Troemner           (1) 100 mg         Troemner           (1) 50 mg         Troemner           (1) 10 mg         Troemner           Printer         HP D5560           APC         Back up UPS (ES-500           SpectroAAS (AA 7000)         Shimadzu           Monitor         Dell           Keyboard         Dell           CPU         Dell           Printer         HP           APC         Back up UPS (ES-500           Isolation Transformer		Troemn	(2) 20 gms
(2) 2 gms       Troemner         (1) gm       Troemner         (1) 500 mg       Troemner         (2) 200 mg       Troemner         (1) 100 mg       Troemner         (1) 50 mg       Troemner         (1) 10 mg       Troemner         Printer       HP D5560         APC       Back up UPS (ES-500         SpectroAAS (AA 7000)       Shimadzu         Graphite Furnace       Shimadzu         Monitor       Dell         CPU       Dell         Printer       HP         APC       Back up UPS (ES-500         Isolation Transformer		Troemn	(1) 10 gms
(1) gm       Troemner         (1) 500 mg       Troemner         (2) 200 mg       Troemner         (1) 100 mg       Troemner         (1) 50 mg       Troemner         (1) 10 mg       Troemner         Printer       HP D5560         APC       Back up UPS (ES-500         SpectroAAS (AA 7000)       Shimadzu         Graphite Furnace       Shimadzu         Monitor       Dell         CPU       Dell         Printer       HP         APC       Back up UPS (ES-500         Isolation Transformer		Troemn	(1) 5 gms
(1) 500 mg         Troemner           (2) 200 mg         Troemner           (1) 100 mg         Troemner           (1) 50 mg         Troemner           (1) 10 mg         Troemner           Printer         HP D5560           APC         Back up UPS (ES-500           SpectroAAS (AA 7000)         Shimadzu           Graphite Furnace         Shimadzu           Monitor         Dell           CPU         Dell           Printer         HP           APC         Back up UPS (ES-500           Isolation Transformer		Troemn	(2) 2 gms
(2) 200 mg Troemner  (1) 100 mg Troemner  (1) 50 mg Troemner  Troemner  (1) 10 mg Troemner  Printer HP D5560  APC Back up UPS (ES-500  SpectroAAS (AA 7000) Shimadzu  Graphite Furnace Shimadzu  Monitor Dell  Keyboard Dell  CPU Dell  Printer HP  APC Back up UPS (ES-500  Back up UPS (ES-500)  Back up UPS (ES-500)  Back up UPS (ES-500)		Troemn	( 1) gm
(1) 100 mg Troemner  (1) 50 mg Troemner  Troemner  (1) 10 mg Troemner  Printer HP D5560  APC Back up UPS (ES-500 SpectroAAS (AA 7000) Shimadzu  Graphite Furnace Monitor Dell Keyboard Dell CPU Dell Printer HP APC Back up UPS (ES-500		Troemn	(1 ) 500 mg
Troemner  (1) 10 mg Troemner  Printer HP D5560  APC Back up UPS (ES-500)  SpectroAAS (AA 7000) Shimadzu  Graphite Furnace Monitor Dell Keyboard Dell CPU Dell Printer HP APC Back up UPS (ES-500)  Back up UPS (ES-500)  Shimadzu  HP Back up UPS (ES-500)  Back up UPS (ES-500)		Troemn	(2) 200 mg
Troemner  (1) 10 mg Troemner  Printer HP D5560  APC Back up UPS (ES-500  SpectroAAS (AA 7000) Shimadzu  Graphite Furnace Shimadzu  Monitor Dell  Keyboard Dell  CPU Dell  Printer HP  APC Back up UPS (ES-500  Isolation Transformer		Troemn	(1) 100 mg
Printer HP D5560  APC Back up UPS (ES-500)  SpectroAAS (AA 7000) Shimadzu  Graphite Furnace Shimadzu  Monitor Dell  Keyboard Dell  CPU Dell  Printer HP  APC Back up UPS (ES-500)  Isolation Transformer		Troemn	(1) 50 mg
Printer HP D5560  APC Back up UPS (ES-500)  SpectroAAS (AA 7000) Shimadzu  Graphite Furnace Shimadzu  Monitor Dell  Keyboard Dell  CPU Dell  Printer HP  APC Back up UPS (ES-500)  Isolation Transformer		Troemn	
APC Back up UPS (ES-500 SpectroAAS (AA 7000) Shimadzu  Graphite Furnace Shimadzu  Monitor Dell  Keyboard Dell  CPU Dell  Printer HP  APC Back up UPS (ES-500 Isolation Transformer		Troemn	(1) 10 mg
SpectroAAS (AA 7000)  Graphite Furnace  Monitor  Dell  Keyboard  Dell  CPU  Dell  Printer  HP  APC  Isolation Transformer		HP D55	Printer
Graphite Furnace  Monitor  Dell  Keyboard  Dell  CPU  Dell  Printer  HP  APC  Back up UPS (ES-500)  Isolation Transformer	))	Back up	APC
Monitor  Monitor  Dell  Keyboard  Dell  CPU  Dell  Printer  HP  APC  Back up UPS (ES-500)  Isolation Transformer		Shimad	SpectroAAS (AA 7000)
Keyboard Dell CPU Dell Printer HP APC Back up UPS (ES-500 Isolation Transformer		Shimad	Graphite Furnace
CPU Dell Printer HP APC Back up UPS (ES-500 Isolation Transformer		Dell	Monitor
Printer HP  APC Back up UPS (ES-500 Isolation Transformer		Dell	Keyboard
APC Back up UPS (ES-500 Isolation Transformer		Dell	CPU
Isolation Transformer		HP	Printer
	))	Back up	APC
Matan Cinculation Contain			Isolation Transformer
vvater Circulating System Eyela		Eyela	Water Circulating System



<sup>■</sup> Sales Office: Unit 609 Cityland 10 Tower 1 \* 6815 H.V. dela Costa, Ayala Ave., North \* Makati City, Philippines 1226 Tel: (632) 8840-4071; (632) 8817-5307 \* Fax (632) 8816-0329 \* E-mail: erl@erllabs.com \* http://www.erllabs.com

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Instrument / Equipment	Brand (Model, Serial No.)
Spectrophotometer	Analytik Jena/ Specord 200 Plus BU
Monitor	Нр
Printer	Hp Deskjet 2010
Keyboard	Hp/ KU-0316
CPU	Hp/ hp pro
Spectrophotometer	Biobase Double Beam UV/VIS Spectro Model: BK-D-590; SN: UTC15G0008
Stopwatch	VWR/SN: 130315956
Titrator (Titrette)	Brand/11M93181
Titrator (Titrette)	Brand (SN: 17F63684)
Titrator (Titrette) - 25mL	Brand (SN: 1843734)
Titrator (Titrette) - 50mL	Brand (SN: 19B17991)
Titrator (Titrette) - 50mL	Brand (SN: 19B17252)
Triple-Display Timer	Control Company; Cat # 5025, SN: 151943586
TCLP Extractor 1 (Big)	Dayton
TCLP Extractor 3 (Big) spare	F-ATL
TCLP Extractor small	F-ATL
Thermometer-Ref/Freezer	VWR
Thermometer-Ref/Freezer	VWR
Thermometer-Ref/Freezer	Control Company
Thermometer-Ref	Control Company; Model 4127; SN: 170696807
Thermometer-Ref	Control Company; Model 4127; SN: 170696796
Thermometer-Ref/Freezer	VWR
Thermometer-Ref/Freezer	Control Company; SN: 160452630
Thermometer-Ref	Control Company; SN: 170696792
Thermometer-Ref	Control Company; SN: 170696794
Thermometer-Ref	Control Company; SN: 192347205
Thermometer-Ref/Freezer	VWR
Thermometer-Ref	VWR; Model 12777-838; SN: 192104675



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Instrument / Equipment	Brand (Model, Serial No.)
Thermometer-Ref	VWR; Model 12777-838; SN: 181753288
Thermometer-Ref	VWR; Model 12777-838; SN: 181753233
Thermometer-Ref	VWR; Model 12777-838; SN: 181753309
Thermometer-Ref	VWR; Model 12777-838; SN: 181753283
Thermometer-Ref	VWR; Model 12777-838; SN: 181674770
Thermometer-Ref/Freezer	VWR
Thermometer-Ref/Freezer	VWR
Thermometer-Ref/Freezer	VWR
Thermometer-Ref	VWR; Model 12777-838; SN: 181753317
Thermometer-Ref	VWR; Model 12777-838; SN: 181674933
Thermometer-Ref/Freezer	Control Company, SN: 160452544
Thermometer-Infrared	VWR
Thermometer-Infrared	VWR
Thermometer-Infrared	VWR
Thermometer -Liquid in Glass 110	Alcohol
Thermometer-Liquid in Glass 50	ThermCo; SN: 337280
Thermometer-Liquid in Glass 50	ThermCo; SN: 336688
Thermometer-Liquid in Glass 50	ThermCo; SN: 337233
Thermometer -Liquid in Glass 105	Brand (800103)
Thermometer - Digital (Big Digit Memory)	Control Company; Cat # 4126; SN 140621222
Thermometer - Digital (Big Digit Memory)	Control Company; Cat # 4126; SN 181171974
TKN Distillation	VELP Scientifica
TKN Digestor	VELP Scientifica
Top Loading Balance	KERN
TOC Analyzer	Ol Analytical
Turbidimeter	Thermo Orion AquaFast AQ3010; SN: 2784692
Turbidimeter	Thermo Orion AquaFast AQ3010; SN: 2856340
Turbidimeter	Thermo Orion AQ3010; SN: 2737982
Ultasonic Bath	Ney (Model 19H)
Ultrasonic Homogenizer	Cole Parmer/4710 Series
Van Dorn (1920-1940 Vertical Beta Bottles)	Ben Meadows - Wildco Instruments P/N 223470
Water Bath	Jettly Lab.
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Brand (Model, Serial No.)
Lab. Industries
Jetty
Tecam/Taylor(S/N 81820018070)
Memmert/SN: DINI2877-KL:1
Jetty
Memmert; WNB22; SN: L516.0496
Jetty
Jetty
Jetty
Lorenza
Merck Synergy UV; SN: F7NA77485K
Norlake
Norlake

#### **KEY PERSONNEL**

#### Engr. Elizabeth P. Romualdo President and CEO

Engr. Elizabeth P. Romualdo graduated from the University of Santo Tomas with a degree in chemical engineering and became a licensed chemical engineer shortly thereafter.

Early in her career, she rose from the ranks as an information analyst to eventually become President and General Manager of Dataprep Phils., the exclusive distributor for Data General USA, a leading main-frame computer manufacturer.

She has also been a major part of STI College, one of the Philippines' pioneering computer schools, where she managed various STI schools/training centers in La Union, Laoag, Baguio and Alabang as the President and CEO. She is presently a member of the board of directors of STI College – Cubao.

Her experiences as a manager, entrepreneur, and her education as an engineer, led her to set up CRL ENVIRONMENTAL CORPORATION, the first mobile environmental lab in the country in 1998, where the laboratory has grown from an 8 sq. meter office space to a 1,050 sq. meter stationary lab facility in Clark Freeport Zone, Pampanga. Two more companies have been spun off to complement the needs of the laboratory and the growing demand of the industry. In 2004, CRL Calabarquez Corporation was founded to cater to air monitoring requirements. CRL's marketing and sales arm, CRL Analytics Corporation was founded in 2005.

She co-founded Analytical Support Services for Environmental Testing (ASSET) in 2014. The business involves analytical support, as a remotely-located environmental testing laboratory using instrument-based analyses, data validation, laboratory information management system (LIMS) software, and also offers specialized organics tests in the Philippines

She is, presently and concurrently, the President and Chief Executive officer of these companies.



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#### Dr. Maria Carmela Q. Capule, RCh, PhD Chief Operating Officer (COO)

Ms. Capule has a B.S. Chemistry degree from the Polytechnic University of the Philippines in Manila and graduated Cum Laude. She has a post graduate Master of Professional Studies in Science Education at Pampanga Agricultural State University. She obtained her Master of Science in Environmental Science at the University of the Philippines, Diliman, QC and currently a PhD Candidate on Environmental Science in the same university (UP-D).

She worked at EMB-DENR Region 3 as head of the laboratory. She had been part of Laboratory Inspection Assessment Team (LIAT) for Recognition of 3rd party laboratories.

#### Ronald A. Agabin Chief Business Development Officer (CBDO)

Ronald concurrently handles operations, business development, sales and marketing for the CRL and ASSET group of companies. He has 26 years of combined experience as a chemist, project manager, and salesman. He has been essential to the growth and success of the group of companies. He graduated as an academic scholar of the Centro Escolar University (CEU) with a degree in Chemistry.

#### Ferdinand L. Perez Chief Financial Officer (CFO)

As the chief financial officer for the group of companies, he is the focal person for financial strategies, needs, and funding requirements. He has been an integral part of CRL's growth through the years. He has 27 years of accumulated experience in accounting. He graduated with a bachelor's degree in Commerce, major in Accounting from the Regina Carmel College in Bulacan.

#### Timothy Dexter A. Ocampo Chief Marketing Officer (CMO)

With 22 years of experience as a sales and marketing professional, Timothy, has been a key contributor to the growth of the CRL organization. He joined the company as an account executive and rose through the ranks; now the CMO for the CRL group of companies. He has a degree in Computer Science from Systems Technology Institute in Makati.

#### Juliana C. Oriña, RCh Laboratory Director

Juliana has 18 years of combined experience in laboratory operations, environmental compliance, project management, and quality control. A licensed chemist, she graduated Cum Laude from the Central Luzon State University (CLSU). She is one of the pillars of the laboratory.

#### Chas C. Arroyo, RCh QA/QC Manager

One of the pioneers of the CRL laboratory group, Chas has more than 33 years of experience as a practicing chemist, manager, and QA/QC officer. He ranked "Top 20" in the 1986 Chemist Licensure Examination of the Philippines' Professional Regulation Commission (PRC). He has accumulated 21 years of experience in the QA/QC field. A recognized authority in his field, he is also an external auditor for the DTI's Philippine Accreditation Bureau (PAO-DTI).



#### PROJECT EXPERIENCE

List of customers, project experience, and track records are available upon request.

#### **ANNEXES**

✓ Accreditation and Recognition Certificates and Business Permit

DTI-PAB PNS ISO/IEC 17025:2005 Accreditation **DENR Certificate of Recognition** OSHC-DOLE Certificate of Accreditation **DOH Accreditation** CDC Certificate of Registration & Tax Exemption (CORTE)



#### **LOCATION MAP**

### **CLARK**

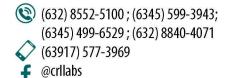
## Bldg. 2, Berthaphil Compound I Berthaphil Business Park, CFZ Clarkfield, Pampanga 2023

>from Manila/south take the NLEX SCTEX/Clark Exit (right after Dau exit) > at the fork, proceed to SCTEX Clark South/Subic way > take SCTEX Clark South exit > turn right to DMIA Gateway > then right to NAIA Gateway > then right to Manuel A. Roxas Hwy > at the fork, take Jose Abad Santos Ave. > turn right to Andre Hercz St. > enter Berthaphil via it's main gate > proceed to CRL Environmental facility











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