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First Meeting of the Contracting Parties (COP) to the  
Protocol Concerning Pollution from Land-Based Sources  
and Activities (LBS Protocol) in the Wider Caribbean  
Region

Punta Cana, Dominican Republic, 24 October, 2012

## **Laboratory Capacity Survey Report**

*For reasons of economy and the environment, Delegates are kindly requested to bring their copies of the Working and Information documents to the Meeting, and not to request additional copies.*

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# Lab Report

## Bermuda Institute of Ocean Sciences (BIOS)

Country

Date of Establishment      Unknown

Director:                      Unknown

Category                      Unknown

Area of Specialization      Unknown

Specialized Equipment      Unknown

Trained Personnel          Unknown

Number of Staff              Unknown

Accreditation                Unknown

Quality Control Manual      Unknown

Contact Information          17 Biological Lane St. Georges GE01 Tel: 4412971880 Fax: 441-297-0860 Rep: Dr. Gerald Plumley  
gerald.plumley@bios.edu

Website                        [Unknown](#)

Comments                      None

## Departments of Analytical Services Laboratory of the Ministry of Agriculture. Lands, Marine Resuorces and Agro-Industry

Country	<b>ANTIGUA AND BARBUDA</b>
Date of Establishment	Unknown
Director:	Malverne P. Spencer (Ph.D)
Category	
Area of Specialization	Water Analysis (microbiological and physicochemical) Food analysis (microbiological and physicochemical) Soil analysis (nutrients - nitrate, phosphate, salinity, electrical conductivity, potassium, pH) Drugs of abuse identification (cannabis and cocaine).
Specialized Equipment	UV VIS spectrophotometer, Flame photometer, Mano metric BOD meter, Multiparameter probes (pH, EC Phosphate, Nitrate) GC-ECD to be comissioned.
Trained Personnel	Pesticide Analysis specialist. Drug Analysis specialist. Microbiological analysis specialist. Analytical Chemists.
Number of Staff	12 (5 Technical)
Accreditation	None
Quality Control Manual	Yes
Contaft Information	Chemistry and Food Technology Division, Chemistry and Food Technology Division, Ministry of Agriculture, Lands, Housing and the Environment Dunbars, St. John's Antigua and Barbuda 2684624502; 2687645706 malv@lycos.com
Website	<a href="http://www.fisheries.gov.ag/index.php">http://www.fisheries.gov.ag/index.php</a>
Comments	None

## The Antigua Public Utilities Authority Laboratory

Country	<b>ANTIGUA AND BARBUDA</b>
Date of Establishment	Unknown
Director:	Unknown
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	Antigua Public Utilities Authority P.O. Box 416, Cassada Gardens, St. John's Antigua support@apua.ag (268) 480-7505
Website	<a href="http://www.apua.ag/Water/contact.htm">http://www.apua.ag/Water/contact.htm</a>
Comments	None

## Adka Laboratories

Country	<b>BAHAMAS</b>
Date of Establishment	Unknown
Director:	Unknown
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	Nassau, Bahamas East Street North Phone: (242)-325-3808 / (242)328-6966 Fax: (242)328-6951 Or email us at carol@adkalaboratories.com Attn: Carol Knowles
Website	<a href="http://www.adkalaboratories.com/">http://www.adkalaboratories.com/</a>
Comments	None

## Gerace Research Centre (GRC)

Country	<b>BAHAMAS</b>
Date of Establishment	Unknown
Director:	Dr. Thomas A. Rothfus
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	Gerace Research Centre (GRC)C/O Twin Air498 SW 34th St.Ft. Lauderdale, Florida 33315TEL: 242-331-2520 FAX: 242-331-2524Representative: Velda Knowles, veldagre@juno.comDirector:
Website	<a href="#">Unknown</a>
Comments	None

## Perry Institute of Marine Science

Country	<b>BAHAMAS</b>
Date of Establishment	1970
Director:	Dr.Erich Mueller
Category	Private. External Use only
Area of Specialization	Environmental (primarily marine) research and education
Specialized Equipment	Dive Support: SCUBA, Nitrox and mixed gas capabilities; 9 small vessels. Field light meter (30-m cable ), PAM fluorometer, small multi-parameter probe (T, O <sub>2</sub> , C; 30-m cable) various nets, sonic tag tracking receivers; U/W cameras. Dry Lab: refrigerated centrifuge, drying ovens, muffle furnace, spectrophotometer, pH meters, balances (top loading and analytical ) -40C and -80 C freezers, refrigerated water circulators, lyophilizer fume hoods laminar flow hood, rotary evaporator. Wet Lab: A variety of raceways, large tanks and aquaria re available with constantly flowing filtered and unfiltered seawater.
Trained Personnel	Coral Biologists; Fisheries Ecologist
Number of Staff	6
Accreditation	American Academy for Underwater Sciences dive program
Quality Control Manual	Yes
Contact Information	Perry Institute for Marine Science (PIMS) 100 North US Highway1 Suite 202 Jupiter FL Tel. 561-741-0192 Fax. 561-741-0193 Rep. Dr. John Marr jmarr@perryinstitute.org emailed: emueller@perryinstitute.org
Website	<a href="http://www.perryinstitute.org">www.perryinstitute.org</a>
Comments	The Perry Institute operates the John H. Perry Jr. Caribbean Research Center on Lee Stocking Island, Exuma, The Bahamas. Since 1984 the facility has been home to the Caribbean Marine Research Center (CMRC), one of six National Undersea Research Centers designated by the US National Oceanic and Atmospheric Administration (NOAA). Two Ph.D level scientist are on staff and conduct externally-supported research at the facility as well as across the Caribbean Region. The facility on Lee Stocking Island primarily serves visiting researchers and educational group from a broad array of institutions and countries. Some have made annual visits for over 20 years thus building long term database. Others come for periods from a few days to several weeks for specific projects. Research includes physical and chemical oceanography, carbonate geology and a variety of biological subjects for which this tropical/ sub-tropical areas is suitable. Educational programs include local outreach to young students through adults, collegiate and graduate level courses, internships, teacher training and continuing education for working professional. The Perry Institute hosts a variety of small meetings and workshops. Accommodations for up to 30 guests are available along with meal and general guest services.

## Public Analyst Lab, Water & Sewerage Corporation

Country	<b>BAHAMAS</b>
Date of Establishment	1978 (UN Technical Assistance Project (BHA/78/003))
Director:	Micheal Swan (Sr. Manager)
Category	Public with limited private work.
Area of Specialization	pH, Temperature, Color, Turbidity, Alkalinity, Bicarbonate, Chloride, Fluoride, Nitrate, Phosphate, Sulfate, Calcium Oxygen Demand, Suspended Solids, Dissolved Oxygen, Total Faecal Coliform Enterocci, Yeast, Mold, Heterotrophic Plate Count, Total Bacteria Langlier Index
Specialized Equipment	Dionex ICS 1000 Ion Chromatograph, DREL 5000 Spectrophotometer, Orion pH meter, YSI Conductivity Meter, YSI Pro Plus Meter, Hach COD Analyser, Hach BOD Trak & Incontrol, Metrohm Automatic Titrator, DO meter, Autoclaves, Incubators, Balances, Thermometers, Ovens, Refrigerators, Fume Hood, Vacuum Pumps Barnstead Nanopure Infinity R/O System
Trained Personnel	Hydrologist, Chemist, (Access to GIS and IT specialists)
Number of Staff	5 ( 1 Supervisor and 4 technicians)
Accreditation	None
Quality Control Manual	Yes. (Partial)
Contact Information	Water Quality Unit/ Lab Prospect Park Nassau Bahamas (242) 325-8783 wcmwann@wsc.com.bs www.wsc.com.bs
Website	<a href="http://www.wsc.com.bs">http://www.wsc.com.bs</a>
Comments	None



## Bellairs Research Institute

Country	<b>BARBADOS</b>
Date of Establishment	Unknown
Director:	Unknown
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	Bellairs Research Institute Holetown, St. James, Barbados Tel.: 246-422-2087 Fax: 246-422-0692 bellairs@caribsurf.com Contact: Susan Mahon
Website	<a href="http://www.mcgill.ca/bellairs/">http://www.mcgill.ca/bellairs/</a>
Comments	None

## Government Analytical Services

Country	<b>BARBADOS</b>
Date of Establishment	1981
Director:	Ms. Dolores Haynes
Category	Government only.
Area of Specialization	Organic Chemistry-pesticide residues, trace organic compounds, alcohols, fats and oil. Developing histamines, antibiotic residues. Inorganic Chemistry- trace metals, nitrates, BOD, COD, Pna Ketc. Micro Biology- Coliforms enterococcus, Ecoli O157. H7 Sample types - all types of water, food soil, fertilizers, plant tissue.
Specialized Equipment	UV VIS spectrophotometer, AA/ Graphite Furnace, Ion Chromatography, GS/MS, Flame Photometer, Atomic Florescence FID, Auto Analyser (x2)
Trained Personnel	Expertise in: Atmoic Absorbtion, Gas Liquid Chromatography, Ion Chromatogray
Number of Staff	30
Accreditation	Unknown
Quality Control Manual	Yes. (Undergoing update)
Contaft Information	Government Analytical ServicesCulloden RoadSt. Michael Barbad 246-310-2836(PBX) 246-310-2811 asstdir@gas.gov.bb, director@gas.gov.bb
Website	<a href="http://www.agriculture.gov.bb">www.agriculture.gov.bb</a>
Comments	The laboratory is currently undergoing internal restructuring into three sections to better utilise the human resources. It is also updating the QA/QC procedures sop that it can apply for accreditation in six tests.

## University of the West Indies, Cave Hill Barbados

Country	<b>BARBADOS</b>
Date of Establishment	Unknown
Director:	Unknown
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	Mr. Charles Clarke Senior Laboratory Technician charles.clarke@cavehill.uwi.edu Tel:246-417-4738
Website	<a href="http://advertpush.com/agri/index.php?option=com_content&amp;view=article&amp;id=65&amp;Itemid=80">http://advertpush.com/agri/index.php?option=com_content&amp;view=article&amp;id=65&amp;Itemid=80</a>
Comments	None

## Glover's Reef Research Station

Country	<b>BELIZE</b>
Date of Establishment	Unknown
Director:	Mrs. Janet Gibson
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	Wildlife Conservation society (WCS) P.O. Box &68 Upper Flat 1675 Sunrise Avenue Belize City Tel: 501-223-3271 Fax 501-223-3005 Rep.Alex Tilley gmrs@wcs.org
Website	<a href="#">Unknown</a>
Comments	None

## Bermuda Aquarium, Museum and Zoo at the Dept. of Conservation Services, Bermuda Government

Country	<b>BERMUDA</b>
Date of Establishment	2010
Director:	Ian Walker
Category	Government only Internal use only
Area of Specialization	Veterinary hospital laboratory
Specialized Equipment	DRVet Digital X-ray, Olympus BX-41 Light Microscope and Olympus DP-21 Camera, Abaxis VS2 Serum Chemistry Analyser, Isoflurane/Sevoflurane Anesthesia, Multiparameter Clinical Monitor (Temp, ECG, PulseOx, End Tidal CO2, NIBP, IBP), Surgical Suite.
Trained Personnel	Veterinarian
Number of Staff	1
Accreditation	Aquarium and Zoo Association Accredited
Quality Control Manual	Yes
Contact Information	40 North Shore Rd Devonshire Bermuda 441-293-2727 idwalker@gov.bm www.bamz.org / www.conservation.bm
Website	<a href="http://www.bamz.org">www.bamz.org</a> / <a href="http://www.conservation.bm">www.conservation.bm</a>
Comments	None

## Bermuda Dept. of Conservation

Country	<b>BERMUDA</b>
Date of Establishment	2002
Director:	Jack Ward
Category	Government only
Area of Specialization	Marine habitat characterization
Specialized Equipment	YSI 600XLM-V2-1 sonde with pH, ROX optical dissolved oxygen, temperature, conductivity and depth sensors, YSI 550A dissolved oxygen meter, YSI 130 salinity, conductivity and temperature meter, Li-Cor Li 1400 data logger with spherical quantum sensor for measuring PAR attenuation, turbidimeter
Trained Personnel	GIS specialist
Number of Staff	4
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	17 North Shore RdDevonshireBermuda441-293-2727smanuel@ibl.bmwww.conservation.bm
Website	<a href="http://www.gov.bm/portal/server.pt?open=512&amp;objID=206&amp;mode=2&amp;in_hi_userid=2&amp;cached=true">http://www.gov.bm/portal/server.pt?open=512&amp;objID=206&amp;mode=2&amp;in_hi_userid=2&amp;cached=true</a>
Comments	None

## Environmental Health Dept.

Country	<b>CAYMAN</b>
Date of Establishment	Unknown
Director:	Unknown
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	Antoinette.johnson@gov.ky
Website	<a href="#">Unknown</a>
Comments	None

## Water Authority

Country	<b>CAYMAN</b>
Date of Establishment	Unknown
Director:	Unknown
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	lab@waterauthority.ky      info@waterauthority.ky      Marcella Martinez
Website	<a href="#">Unknown</a>
Comments	None

## Acme Analytical Laboratories

Country	<b>COLOMBIA</b>
Date of Establishment	Unknown
Director:	Jhonattan Fuentes
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	Acme Analytical Laboratories Colombia S.A.Cl. 79 Sur No. 47D-24 Sabaneta Medellín, Antioquia Colombia Tel: +57 4 301 9941 jhonattan.fuentes@acme.lab.com
Website	<a href="http://acmelab.com/">http://acmelab.com/</a>
Comments	None



## ICA

Country	<b>COLOMBIA</b>
Date of Establishment	Unknown
Director:	Unknown
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	Maria Cristina Torres Villamil Carrera 41 No. 17-81 Tele: (57+1) 332 3700 Ext 1501 cristina.torres@ica.gov.co www.ica.gov.co Bogota , DC Colombia
Website	<a href="#">Unknown</a>
Comments	None

## Instituto de Investigaciones Marinas y Costeras "José Benito Vives de Andrés" INVEMAR

Country	<b>COLOMBIA</b>
Date of Establishment	Unknown
Director:	Unknown
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	Sandra Rincón Cabal, Assistant Director - <a href="mailto:srinconc@invemar.org.co">srinconc@invemar.org.co</a> Office of Communications - <a href="mailto:divulgacion@invemar.org.co">divulgacion@invemar.org.co</a>
Website	<a href="http://www.invemar.org.co/">http://www.invemar.org.co/</a>
Comments	None

## Laboratorio de instrumentacion Marina

Country	<b>COLOMBIA</b>
Date of Establishment	Labaratory: December 2009                      Institution: June 1968
Director:	Francisco Arias Izasa
Category	Public
Area of Specialization	Physical Oceanography: Physical variables of water Marine Geology: Coastal Geomorphology, beach profiles, granulometry, mineralogy and carbonate content, carbon and organic substances in marine and coastal sediments
Specialized Equipment	CTD Probe Ocean Seven 316 IDRONAUT, CTD Probe Ocean Seven 316 plus, IDRONAUT CTD Probe Sea-bird SBE -19 plus, Roseta Sampler System Type GENERAL, OCEANIC Model 1018, Total Topographic Station TOPCON, MOD:GPT 7505, Current Meter AQUADOPP 2 MHz Type, TRANSDUCER HEAD AQD, GPS Differential - TOPCON REF: GMS - 2 with TOPSURV- GIS Echo sounder GARMIN FISHFINDER 340C, Echo sounder KNUDSEN 3260, Echo sounder SIMRAD ES -70, GOMEX BOX CORER - in stainless steel                      Multicover UWITEC with core cutter,Dredges Van Veen
Trained Personnel	Geologist - specialist in Neotectonics, Earthquake and Marine and Coastal Geology Geologist - specialist in Geotectonics Geologist - specialist in Geophysics, Geomorphology and Sedime
Number of Staff	5
Accreditation	The security system guide, occupational and environmental health for contractors in the hydrocarbon sector, certified by IDEAM
Quality Control Manual	No
Contaft Information	Cerro Punta, Zona Portuaria Santa Marta +57 +5432 86 00 Ext 238/ 285
Website	<a href="mailto:carlos_henry@invemar.org.co">carlos_henry@invemar.org.co</a> <a href="http://www.invemar.org.co">www.invemar.org.co</a>
Comments	Presently we have implemented our system of management quality under the guidelines of Norm ISO 9001:2008 and NTCGP 1000:2009, this scope corresponds with "The basic investigation and application of renewable natural resources and the environment on the coasts and marine and oceanic ecosystems, the emission of technical concepts on the conservation and sustainable use of marine resources and provides scientific and technical support in the aspects of competencies in INVAMAR. Through internal auditing we have found that our Management Quality System conforms with planned arrangements, as well as with the requisits of norm and with the requirements established by INVAMAR and has been implemented and is maintained in an efficient manner. To complement this system, the standard Model of Internal Control (MECJ) has been implemented and its structure established in the 1599 Decree of May 20, 2005 in agreement with the nature of the institute and its regulations. There is also the Marine Instrumentation Lab (LabIMA) included in the system. There are other systems that were implemented by INVAMAR such as the Quality Management System of the Lab based on ISO/IEC 17025:2005 (existing until now, only for the Environmental Quality Laboratory LABCAM, since the Marine Instrumentation Lab - LabIMA- is recently up.) and the Security System, Occupational Health based on the Guide for Security Systems, occupational and environmental health for contractors in the oils sector, certified by IDEAM and by the Colombian Counsel on security respectively.

Country	<b>COLOMBIA</b>
Date of Establishment	1974
Director:	Julian Mauricio Betancourt Portela
Category	Non-profit mixed corporation
Area of Specialization	Water Quality: Analysis of nutrients, suspended solids, turbidity. Heavy Metals: Analysis of Cd, Pb, Cr, Cu, Fe in water and sediments Hydrocarbons: Total Aromatic hydrocarbons by fluorometry and individual Polycyclic aromatic hydrocarbons (PAHs) for chromatography of gases in water and sediments. Pesticides: Organochlorine, some phosphorus, some triazines and carbamates Analysis of Greenhouse gases in our air: CO <sub>2</sub> , CH <sub>4</sub> y N <sub>2</sub> O
Specialized Equipment	02 Conductivity 02 - salinometers WTW pH meters WTW 02, WTW oxymeter 01 CTDO with roseta oceanographic Hidronaut to 1500m Bureta Digital Metrohom Metrohom for technical titrimetrics  Analytical Balance de ±0.0001g y Balanza analítica de ±0.00001g OhausHeidolph Laborata Rotary Evaporator 3000Turbidity Meter Hach 2010Spectrophotometer UV-VIS Perkin Elmer Lambda 12Gas chromatograph coupled to a mass detector Shimadzu 2010QsGas chromatograph with detector FID y ECD Shimadzu 2014Shimadzu HPLC chromatograph with fluorescence detectorQubit Infrared Spectrometer for measuring CO <sub>2</sub> Shimadzu 5310 PC SpectrofluorometerShimadzu AA6300 atomic absorption spectrophotometer with graphite furnace
Trained Personnel	(01) Specialist in chromatography (01) Specialist in atomic absorption and gamma spectrometry (02) Chemical Professionals of analytical support (04) Techniques in Water Analysis (02) Professionals specializing in the area of marine microbiology
Number of Staff	10
Accreditation	ISO 17025:2005 accredited before IDEAM ISO 9000: 2009 in process
Quality Control Manual	yes
Contact Information	ABCAMCerro Punta Betín – Sociedad PortuarioSanta MartaColombia 57 – 5 4328600 Ext 244  jbetancourt@invemar.org.cowww.invemar.org.co
Website	<a href="http://www.invemar.org.co">www.invemar.org.co</a>
Comments	In addition to the Chemical Section, the Lab Unit of INVEMAR consists of a microbiology section for the analysis of bacterial indicators such as coliforms y enterococci.

## Laboratorio de Analisis de Residuod de Plaguicidas LARP

Country	<b>COLOMBIA</b>
Date of Establishment	2000
Director:	Jairo Arturo Guerrero Dallos
Category	Public
Area of Specialization	Analysis of pesticide residue in fruits and vegetables. Analysis of pesticide residue in water. Analysis of pesticide residue in soil. Studies of absorption and degradation of pesticides with 14C
Specialized Equipment	Chromatography of gaese with U-ECD, NPD and FPD Chromatography of gases coupled with mass spectrometry, Liquid chromatography with Post Column derivation and fluoroescence detector, Liquid chromatography with an arrangement of diodes ,Liquid scintillation counter
Trained Personnel	Trained personnel in the analysis of pesticide residue. Trained personnel in quality management systems .Trained personnel in soils.
Number of Staff	5
Accreditation	Accredation under norm ISO 17025 since 2007 International Atomic Energy Agency -IAEA Training and lab assembly support from the
Quality Control Manual	Yes
Contaft Information	Carrera 30 No 45-03 Departamento de Quimica. U.Nacional, Bogota D.C, Columbia Tel: 57-1- 316-5000 ext 14412 Larp_fcbog@anal.edu.co
Website	<a href="http://www.anal.edu.co/larp">www.anal.edu.co/larp</a>
Comments	In the lab we offer services to the community and we carry out research with students enrolled for masters and doctorate degrees on environmental topics and food contamination supported by the IAEA

Country	<b>COLOMBIA</b>
Date of Establishment	Unknown
Director:	Unknown
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contaft Information	Laboratory Office Module 5, 610 Office Ext 1780-1781laboratorios.ciencias@utadeo.edu.co Antonio Morales Forero IvanHead of Laboratory Sciences Ext 1781 E-mail: @ utadeo.edu.co ivan.moralesLeón Vargas luerLaboratory Coordinator Ext 1780 E-mail: @ utadeo.edu.co luer.leon
Website	<a href="#">Unknown</a>
Comments	None

## Universidad Nacional de Colombia- Laboratorio se Analisis de Residuos de Plaguicidas

Country	<b>COLOMBIA</b>
Date of Establishment	Unknown
Director:	Unknown
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contaft Information	Jairo Arturo Guerrero Dallos Ph.Dcuidad Universitaria Edificio de Quimica Oficina 205 Tele: 57 1 3165000 Ext 14412 Fax 57-1-3165220 Email larp_febog@unal.edu.co
Website	<a href="http://www.unal.edu.co/larp">www.unal.edu.co/larp</a>
Comments	None

## Centro de Investigaciones en Ciencias del Mar y Limnología (CIMAR)

Country	<b>COSTA RICA</b>
Date of Establishment	Unknown
Director:	Unknown
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	Universidad de Costa Rica UCR Apartado 2060 San Pedro de Montes de Oca San Jose 11501-2060 Tel 5062207-3280 Fax 506-2207-3280 Rep Dr. Jorge Cortes Director Dr. Alvaro Morales email: jorge.cortes@ucr.ac.cr
Website	<a href="#">Unknown</a>
Comments	None



## Universidad de Costa Rica CICA

Country	<b>COSTA RICA</b>
Date of Establishment	Unknown
Director:	MS Elizabeth Carazo
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	Aseguramiento de Calidad (506) 2511-512 Lab Residuos de Plaguicidas (506) 2511-3324 Mr Mario Masis mariomasis@yahoo.es Lab de Calidad de Aguas (506) 2511-3323 Mr Wilson Beita-Sandí/Lab Coordinator wbeita@gmail.com Lab de Calidad de Aire (506) 2511-3326 plaguicidas.cica@ucr.ac.cr Centro de Investigacion Containacion Ambiental
Website	<a href="http://www.cica.ucr.ac.cr/">http://www.cica.ucr.ac.cr/</a>
Comments	None

Country	<b>COSTA RICA</b>
Date of Establishment	Unknown
Director:	Unknown
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	M.Sc. Clemens Ruepert Coordinator Laboratorio de Analisis de Residuos de Plagicidas Campus Omar Dengo Tel: (506) 2277-3501 Fax: (506) 2277-3583 email cruepert@una.ac.cr
Website	<a href="#">Unknown</a>
Comments	None

## Instituto Nacional de Recursos Hidráulicos

Country	<b>CUBA</b>
Date of Establishment	Unknown
Director:	Unknown
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	Water and Sewer Enterprise East of Havana Address: Calle 164 no. 322-324, and / 3rd and 162 B, Zone 1, Alamar, Habana del Este, Ciudad de La Habana Tel.: 7620644, 7620643 E-mail: dgeneral@acueste.co.cu
Website	<a href="http://www.hidro.cu/directorio_eaa.htm">http://www.hidro.cu/directorio_eaa.htm</a>
Comments	None

## Laboratorio de Ensayos del Centro de Ingeniería y Manejo Ambiental de Bahías y Costas (CIMAB)

Country	<b>CUBA</b>
Date of Establishment	1995
Director:	Dra. Lioubov Chabalina
Category	Public
Area of Specialization	Water quality and analysis of organochloride pesticides in wastewater, natural water and water from the sea. We look for: Physical properties - turbidity, salinity, conductivity, temperature, solids among others. Non-metallic, inorganic constituents composed of nitrogen, phosphorus, dissolved oxygen, pH, silicon among others. Added organic constituents: chemicals and oxygen biochemical demand, fats and oils, aromatic oils, aliphatic and organochloride pesticides. Microbiological parameters (Escherichia coli, coliphages, enterococci, faecal streptococci, total thermotolerant coliforms and heterotrophic bacteria) In sediments we look for: nitrogen and organic material, aromatic oils, organochloride pesticides, clostridium perfringens among others.
Specialized Equipment	Multiparameter Bench Photometer Hanna Instrument C214 Genesys 10uv Thermo Scientific Spectrophotometer , pH/Portable Conductivity Meter - Myronl Company Ultrameter II Turner Digital Fluorometer Thermo Fisher Scientific FM 109535 Gas Chromatograph ATI UNICAM 610 Series (FID and ECD) Spectrometer IRATI Mattison Genesis Series FTIR among others
Trained Personnel	Specialist in physio-chemical analysis Specialist in organic compound and pesticides analysis Specialist in organic compound analysis
Number of Staff	50
Accreditation	The Tests Laboratory has accredited its quality management system by the Cuban norm NC ISO/ IEC 17025:2006, status granted by the Organo Nacional de Accreditation de la Republica de Cuba (ONARC), with international and regional validity, therefore the ass
Quality Control Manual	Yes
Contact Information	Telef: (537) 8624387, 8623051/58 extensión 212, 254, 255, 256 Fax: (537) 338250 liuba@cimab.transnet.cu; liuba@cimab.transnet.cu; lgarcia@cimab.transnet.cu; beltran@cimab.transnet.cu
Website	<a href="http://cep.unep.org/cimab">http://cep.unep.org/cimab</a>
Comments	With projects funds from the "Regional Network on Marine Science and Technology for the Caribbean: Know-Why Network", from UNEP we acquired the Thermo Scientific Genesys 10uv spectrophotometre (and its accessories) and two depth gauges

## Dewalt Lab

Country	<b>DOMINICA</b>
Date of Establishment	Unknown
Director:	Saara DeWalt
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	saarad@clemson.edu Phone: (864) 656-1429
Website	<a href="http://www.clemson.edu/biosci/sdewalt/projects/Dominica/ATREC/ATREC.html">http://www.clemson.edu/biosci/sdewalt/projects/Dominica/ATREC/ATREC.html</a>
Comments	None

## Dominica Water & Sewerage Company

Country	<b>DOMINICA</b>
Date of Establishment	Unknown
Director:	Mrs. Ivanirada Dacosta James (Manager of Operations and Maintenance dept.)
Category	Government only
Area of Specialization	Water quality- Coliforms Analysis pH DO temperature conductivity, turbidity; BOD hardness solids chloride; sulfate; sulfide nitrate, Nitrate; Phosphate; Ammonium; Aluminium, Copper; Iron; Lead; Maganese
Specialized Equipment	Spectrophotometers, turbidity meters conductivity meters, pH metres, DO meters, BOD track automatic colony counter incubators, autoclave UV sterilizer, distillation apperatus water purification system.
Trained Personnel	no
Number of Staff	93 (Full tim) 42 (Part time)
Accreditation	none
Quality Control Manual	Yes. Under review
Contaft Information	Dominica Water & Sewage Co Ltd (DOWASCO) 3 High Street Roseau Dominica 1-767-225-2900 dowasco@cwdom.dm
Website	<a href="http://www.dowasco.dm">www.dowasco.dm</a>
Comments	None

## Institute for Tropical Marine Ecology Inc. (ITME)

Country	<b>DOMINICA</b>
Date of Establishment	Unknown
Director:	Unknown
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	P.O. Box 944 Reseau Tel: 767-449-3725 Fax: 801-504-4369 Rep Dr. Sascha Steiner, Admin@itme.org
Website	<a href="#">Unknown</a>
Comments	None

## Acme Analytical Laboratories

Country	<b>DOMINICAN REPUBLIC</b>
Date of Establishment	Unknown
Director:	Unknown
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	Acme Analytical Laboratories (R.D.) S.A. Duarte 114, Camino El Pino, Kmt 1MaimonDominican RepublicTel: +1 829 333 6527
Website	<a href="http://acmelab.com/">http://acmelab.com/</a>
Comments	None



## Bacteriology Lab at St George University

Country	<b>GRENADA</b>
Date of Establishment	Unknown
Director:	Dr. Clare Morrall
Category	Private; External Use; Internal Use only
Area of Specialization	Pathology & Histopathology
Specialized Equipment	1 - Leica TP1020-1-1 automated tissue processor for processing of formalin-fixed tissue for histopathological examination 1 - Leica EG 1160 Embedding Centre for holding tissue in paraffin wax 1 - Leica RM 2135 Microtome for cutting paraffin sections 1 - Fischer 125 Flotation bath for paraffin sections 1 - Labline Slide warmers for warming paraffin sections 1 - Labconco Protector workstation for staining and preparation of glass slides Staining jars for staining glass slides Tissue cassette for holding tissue for processing Tissue prep paraffin wax for embedding and preparing paraffin blocks Glass slides, cover slips, mounting media for preparation of glass slides Embedding cassette for making paraffin blocks, Stains (Hematoxylin, Eosin, Giemsa) for staining glass slides , Alcohol and xylene for tissue processing and staining glass slides
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	St. George University P.O.Box 7 St. George Tel: 473-444-4175 Rep: Dr. Clare Morrall email: cmorrall@sgu.edu
Website	<a href="http://www.sgu.edu/">http://www.sgu.edu/</a>
Comments	None

## Marine Biology Program Microbiology Lab

Country	<b>GRENADA</b>
Date of Establishment	Unknown
Director:	Dr. Clare Morrall
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	St. George University P.O.Box7 St. George Tel: 473-444-4175 Rep: Dr. Clare Morrall email: cmorrall@sgu.edu
Website	<a href="#">Unknown</a>
Comments	None

## Marine Biology Program Microbiology Lab

Country	<b>GRENADA</b>
Date of Establishment	Unknown
Director:	Dr. Clare Morrall ( Director of Marine Biology)
Category	Private
Area of Specialization	Diagnostic Microbiology for the University Health Clinic Reference Diagnostic Microbiology in cooperation with the National Hospital Routine Water testing of potable and recreational waters on all Grenada Campus sites Air quality monitoring in cooperation with the University Facilities Department
Specialized Equipment	Several Refrigerator/Freezers-80° C Freezer Temperature Controlled Water Baths Refrigerated Centrifuge PCR Cycler Electrophoresis Pack Vortex Mixer Microscope Slide Cabinet Fluorescent Microscope Phase Contrast Microscope Inverted Microscope Water Distiller Autoclave Sterilizer Small Autoclave Fume Hoods Laminar Flow Hoods Balances Hot Plates
Trained Personnel	Unknown
Number of Staff	3
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	St. George University P.O.Box 7 George 4175 St. Tel: 473-444- Rep: Dr. Clare Morrall email: cmorrall@sgu.edu
Website	<a href="http://www.sgu.edu">www.sgu.edu</a>
Comments	None

## Marine Biology Program Pathology Lab

Country	<b>GRENADA</b>
Date of Establishment	Unknown
Director:	Dr. Clare Morrall ( Director of Marine Biology)
Category	Private
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	St. George University P.O.Box7 St. George Tel: 473-444-4175 Rep: Dr. Clare Morrall email: cmorrall@sgu.edu
Website	<a href="http://www.sgu.edu">www.sgu.edu</a>
Comments	None

## National Water and Sewerage Authority

Country	<b>GRENADA</b>
Date of Establishment	Unknown
Director:	Unknown
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	Grenada Guide Directory National Water and Sewerage Authority Address Carenage, St. George, Grenada Telephone (473) 440 2155 E-mail <a href="mailto:nawasa@spiceisle.com">nawasa@spiceisle.com</a> Website <a href="http://www.spiceisle.com/nawasa/">www.spiceisle.com/nawasa/</a>
Website	<a href="http://mypages.spiceisle.com/nawasa/about_nawasa.html">http://mypages.spiceisle.com/nawasa/about_nawasa.html</a>
Comments	None

## Parasitology Lab at St Georges University

Country	<b>GRENADA</b>
Date of Establishment	Unknown
Director:	Unknown
Category	Private
Area of Specialization	Parasitology
Specialized Equipment	8 - Microscopes, Plympus, Model CH 30RF200, Diagnostics 1 - Balance, Denver Instrument, scale 1 - String Hot Plate, Corning PC-420D 1 - Refrigerator, sample storage 1 - Benchtop Cenrifuge, Fisher Scientific
Trained Personnel	Parasitology technician technician Pathologist Histology
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contaft Information	St. George University P.O.Box7 St. George Tel: 473-444-4175 Rep: Dr. Clare Morrall email: cmorrall@sgu.edu
Website	<a href="http://www.sgu.edu/">http://www.sgu.edu/</a>
Comments	None

## Pathology Lab at St Georges University

Country	<b>GRENADA</b>
Date of Establishment	Unknown
Director:	Dr Clare Morrall
Category	Private
Area of Specialization	Unknown
Specialized Equipment	1 - Small Autoclave 1 - Large Autoclave 1 - Distiller 2 - Sinks 1 - Purifier Enclosure Hood 1 - Large Incubator 1 - Small Incubator 1 - Water Bath 1 - Sink 1 - Purifier Hood: safety class I 1 - Gas line connection
Trained Personnel	Lab Technician
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	St. George University P.O.Box7 St. George Tel: 473-444-4175 Rep: Dr. Clare Morrall email: cmorrall@sgu.edu
Website	<a href="http://www.sgu.edu/">http://www.sgu.edu/</a>
Comments	None

## WINDREF Lab at St. Georges University

Country	<b>GRENADA</b>																																								
Date of Establishment	1994																																								
Director:	Trevor Noel (Assistant Director)																																								
Category	Private																																								
Area of Specialization	Medical and veterinary public health, anthropology, ecology and marine and terrestrial biology.																																								
Specialized Equipment	<table> <tr> <td>Incubator - viral cultures</td> <td></td> <td>Incubators - bacterial</td> <td></td> </tr> <tr> <td>Class II Biosafety Cabinet (Flow hood)</td> <td>3 - Centrifuge</td> <td></td> <td>1 - Purifier</td> </tr> <tr> <td>Vortex</td> <td></td> <td>1 - Bacteria</td> <td>1 -</td> </tr> <tr> <td>Incinerator</td> <td></td> <td>3 - Scales</td> <td>1 -</td> </tr> <tr> <td>Microscope side freezer</td> <td>1 - (-70° C ) freezer</td> <td>2 - Refrigerator/freezer, side by side</td> <td>1 - (-20° C )</td> </tr> <tr> <td>Water Distiller</td> <td></td> <td>2 - Biohazard Safety Cabinet</td> <td>1 -</td> </tr> <tr> <td>Microscopes</td> <td></td> <td>2-</td> <td></td> </tr> <tr> <td>Reflected Light</td> <td></td> <td>1 - Microscope: Olympus BX60 Transmitted and</td> <td></td> </tr> <tr> <td>Stereomicroscope</td> <td></td> <td>1 - Leica Zoom 2000 Binocular</td> <td></td> </tr> <tr> <td></td> <td></td> <td>1 - Olympus phase contract microscope</td> <td></td> </tr> </table>	Incubator - viral cultures		Incubators - bacterial		Class II Biosafety Cabinet (Flow hood)	3 - Centrifuge		1 - Purifier	Vortex		1 - Bacteria	1 -	Incinerator		3 - Scales	1 -	Microscope side freezer	1 - (-70° C ) freezer	2 - Refrigerator/freezer, side by side	1 - (-20° C )	Water Distiller		2 - Biohazard Safety Cabinet	1 -	Microscopes		2-		Reflected Light		1 - Microscope: Olympus BX60 Transmitted and		Stereomicroscope		1 - Leica Zoom 2000 Binocular				1 - Olympus phase contract microscope	
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Reflected Light		1 - Microscope: Olympus BX60 Transmitted and																																							
Stereomicroscope		1 - Leica Zoom 2000 Binocular																																							
		1 - Olympus phase contract microscope																																							
Trained Personnel	Unknown																																								
Number of Staff	Unknown																																								
Accreditation	Unknown																																								
Quality Control Manual	Unknown																																								
Contact Information	St. George University P.O.Box7 St. George Tel: 473-444-4175 Rep: Dr. Clare Morrall email: cmorrall@sgu.edu																																								
Website	<a href="http://etalk.sgu.edu/windref/">http://etalk.sgu.edu/windref/</a>																																								
Comments	One wet and one dry lab.																																								



## Acme Analytical Laboratories

Country	<b>GUYANA</b>
Date of Establishment	Unknown
Director:	Unknown
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	Acme Analytical (Laboratories) Guyana Inc.Lot. 13 Plantation Non ParielEast Coast Demerara Guyana Tel: +592 270 4349Tel: +592 270 4393 call
Website	<a href="#">Unknown</a>
Comments	None

## Discovery Bay Marine Laboratory

Country	<b>JAMAICA</b>
Date of Establishment	1965
Director:	Prof.Dale Webber
Category	Private
Area of Specialization	Fisheries management, Coral reef ecology & artificial reefs & reef rehabilitation. Reef habitat monitoring MPAs. Invasive species
Specialized Equipment	Spectrophotometers, turbidity meters conductivity meters, pH metres, individual temperature . Light & wave motion loggers; mikrokopter UAV for areal surveys. U/W video and still cameras; datasinde loggers; S4 loggers; ICON weather station- std weather data + incident & submerged light; dissolved CO <sub>2</sub> ; wave currents, tide data; salinity; CTD Remote probe with duplicate ION stn instuments Recompression chamber.
Trained Personnel	Envoironmental watreer chemistry analysis specialist Corals , wetland & seagrass restoration specialist, GIS specialist
Number of Staff	18
Accreditation	N/A
Quality Control Manual	Yes.
Contaft Information	University of the West Indies P.O. Box 35 Discovery Bay , St. Ann Tel 973 2946/ 973 3271 fax: 973 3091 dbml@infochan.com
Website	<a href="http://www.mona.uwi.edu/cms/dbml.htm">www.mona.uwi.edu/cms/dbml.htm</a>
Comments	None

## National Water Commission Eastern Lab

Country	<b>JAMAICA</b>
Date of Establishment	Unknown
Director:	Unknown
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	926-7941/929-7141/929-3540-6
Website	<a href="#">Unknown</a>
Comments	None

## NEPA Lab

Country	<b>JAMAICA</b>
Date of Establishment	Unknown
Director:	Unknown
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	National Environment & Planning Agency 10 and 11 Caledonia Avenue Kingston 5 Tel: 754-7540 Fax: 754-7595/6 Hotline: 1-888-991-5005 Lab 927-1552 email: ochinkoo.nepa@gov.jm Mr. Oswald Chinkoo
Website	<a href="http://www.nepa.gov.jm/default.asp">http://www.nepa.gov.jm/default.asp</a>
Comments	None

## The Mines and Geology Division Analytical Services of the Ministry of Energy Mining and Telecommunications

Country	<b>JAMAICA</b>
Date of Establishment	Unknown
Director:	Christopher Knight
Category	Government only
Area of Specialization	Economic minerals, solis, rocks water quality heavy metals As, Pb, Hg, Cd, Zn, Cr, Mn, Co, Ni, Se, Cu, nutrients NO-13 PO 3-4 chloride sulphate
Specialized Equipment	Atomic Absorption, Spectrophotometer (AAS) graphite furnace (AAS) flow injection mercury analysis Dionex Ion Chromatograph (needs repairs)
Trained Personnel	AAS specialist (3) Neutron Activation Specialist (2)
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Yes
Contact Information	Hope Gardens Kingston Jamaica 876-927-1936-40 mgdlabs@gmail.com
Website	<a href="http://www.mgd.gov.jm">http://www.mgd.gov.jm</a>
Comments	Currently working towards Accreditation (ISO 17025) but progress constrained by lack of resources

## UWI Mona Dept of Chemistry

Country	<b>JAMAICA</b>
Date of Establishment	1988
Director:	Professor Tara Dasgupta
Category	University Funded
Area of Specialization	Analysis of drugs (blood and urine ) and pesticides residue analysis ( including persistent organic pollutants) of soil, water , air and plant material
Specialized Equipment	Gas Chromatograph attached to Mass Spectrophotometer, GC-MS (2) Gas Chromatograph attached to Electron Capture Detector (3), Gas Chromatograph attached to Flame Ionization Detector (1) Liquid Chromatograph attached to <Mass Spectrophotometer (LC-MS) and Fluorescence Detector (2) Atomic Absorption Spectrophotometer, ASS (2) Nuclear Magnetic Resonance, NMR (2) Infrared Spectrometer (IR) Ultraviolet Spectrometer (UV) Flame Photometer (1)
Trained Personnel	Pesticides Analyst (2)- Received training on persistent organic pollutants in Canada (University of Windsor and Trent) and Mexico
Number of Staff	5
Accreditation	Application was submitted for ISO 17025
Quality Control Manual	Yes
Contact Information	Pesticides Research Lab C/o Department of Chemistry, 2 Plymouth Crescent U.W.I Mona Kingston Jamaica 970-6027, 977-1834 Tara.dasgupta@uwimona.edu.jm
Website	<a href="#">Unknown</a>
Comments	None

## Acme Analytical Laboratories

Country	<b>MEXICO</b>
Date of Establishment	Unknown
Director:	Unknown
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	Acme Analytical Laboratories Mexico S.A. de C.V. Miguel López de Legazpi N° 711 Col. Echeverría 44970 Guadalajara, Jalisco Mexico Tel/Fax: +52 33 3367 0920 email: Mr. Germain Brambila Email: germain.brambila@acmelab.com
Website	<a href="http://acmelab.com/">http://acmelab.com/</a>
Comments	None

## Centro de Investigaciones y Estudios Avanzados de IPN Unidad Merida

Country	<b>MEXICO</b>
Date of Establishment	Unknown
Director:	Unknown
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	Km 6 Cassetesa Antigua a Progreso Merida, Yucatan 97310      Tel: 99-981-2960 Fax 99-981-2334 Rep. Dr. Dalia Aldana Aranda daldana@mda.cinvestav.mx Director Dr. Alejandro Nava
Website	<a href="#">Unknown</a>
Comments	None



## Intertek

Country	<b>MEXICO</b>
Date of Establishment	Unknown
Director:	Unknown
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	52 55 5091 2150 email: cbwebinfo.mexico@intertek.com Rep. Ms. Griselda Rojas
Website	<a href="http://www.intertek-cb.com/mexico/ambiental.shtml">http://www.intertek-cb.com/mexico/ambiental.shtml</a>
Comments	None

## Carmabi Foundation (Curacao)

Country	<b>NETHERLANDS ANTILLES</b>
Date of Establishment	1955
Director:	Paul Stokkermans
Category	Foundation
Area of Specialization	Coral reef ecology, waterquality issues, population dynamics, community ecology, nature management, marine conservation, educagtion & awareness programs
Specialized Equipment	Standard lad facilities, dive facilities, running seawater systems, boats
Trained Personnel	Coral reef ecoiloists
Number of Staff	6
Accreditation	n/a
Quality Control Manual	No.
Contaft Information	Piscaderabaai z/n Willemstad Curacoa +5999 5103067 carmabilog@gmail.com
Website	<a href="http://www.researchstationcarmabi.org">www.researchstationcarmabi.org</a>
Comments	None

## CIEE Research Station (Bonaire)

Country	<b>NETHERLANDS ANTILLES</b>
Date of Establishment	2006
Director:	Rita Peachey PhD
Category	Non-profit/ foundation
Area of Specialization	we are mostly a field Coral Reef Ecology Program. Enterolert
Specialized Equipment	80 degree Cryogenic freezer, Muffle furnace, dying oven, 12 microscopes, YSI multiparameter probes, spectrofluorometer, underwater light meter
Trained Personnel	Staff are coral reef ecologists- ichthyologists, invertebrate ecology and algae specializations
Number of Staff	7
Accreditation	Unknown
Quality Control Manual	Yes.
Contact Information	kaya Gob. N. Debrot #21 Kralendijk, Bonaire Dutch Caribbean +599-717-4140 rpeachey@ciee.org
Website	<a href="http://www.cieebonaire.org">www.cieebonaire.org</a>
Comments	None

## Curacao Sea Aquarium

Country	<b>NETHERLANDS ANTILLES</b>
Date of Establishment	Unknown
Director:	Unknown
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	Bapor Kibra z/n P.O. Box 3102 Curacao Tel: 599-9-461-6666 Fax: 599-9-461-371 Rep: Michiel Van Der Hulse email: michiel@substation-curacao.com
Website	<a href="#">Unknown</a>
Comments	None

## Centro para la Investigation en Recursos Acuaticos de Nicaragua (CIRA)

Country	<b>NICARAGUA</b>
Date of Establishment	Unknown
Director:	Unknown
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contaft Information	kvammen@cira-UNAN .edu Katherine Vammen.
Website	<a href="http://www.cira-unan.edu.ni/index.php?s=1">www.cira-unan.edu.ni/index.php?s=1</a>
Comments	None

## CIAT- International Center for Tropical Agriculture

Country	<b>NICARAGUA</b>
Date of Establishment	Unknown
Director:	Unknown
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	HeadquartersKm 17, Recta Cali-PalmiraApartado Aéreo 6713Cali, ColombiaPhone: +57 2 4450000 (direct) or +1 650 8336625 (via USA)Fax: +57 2 4450073 (direct) or +1 650 8336626 (via USA)E-mail: <a href="mailto:ciat@cgiar.org">ciat@cgiar.org</a> Internet: <a href="http://www.ciat.cgiar.org">www.ciat.cgiar.org</a>
Website	<a href="http://www.ciat.cgiar.org">www.ciat.cgiar.org</a>
Comments	None

## Smithsonian Tropical Research Insititute- Bocas del Toro Research Station

Country	<b>PANAMA</b>
Date of Establishment	Unknown
Director:	Dr. Ira Rubinoff
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contaft Information	Smithisonian Institution Apatado Postal 2072 Balboa, Ancon Tel: 507-757-9794 Fax: 507_757-9896 Rep:Dr. Rachel Collin email:collinr@si.edu
Website	<a href="#">Unknown</a>
Comments	None

## Caribbean Environmental Health Institute

Country	<b>SAINT LUCIA</b>
Date of Establishment	Unknown
Director:	Unknown
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	Caribbean Environmental Health Institute The Morne, P.O. Box 1111 Castries, St. Lucia, WI 1(758)452-2501/21412 Fax 1 (758) 453-2721 Pierre Louis emailcehi@candw.lc Sharon
Website	<a href="http://www.cehi.org.lc/">http://www.cehi.org.lc/</a>
Comments	Yes. Funding was supplied for the purchase of a YSI Water Quality Monitor in the UNEP's. Know Why Network Project that involves monitoring selected areas of High risk ( Hot Spots) in 2008



## Gros Islet Polyclinic Lab

Country	<b>SAINT LUCIA</b>
Date of Establishment	Unknown
Director:	Unknown
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	Gros Islet, St. Lucia Rosanna Sonson sonsonpr@gmail.com 758 450-9661
Website	<a href="#">Unknown</a>
Comments	None

## WASCO LAB Public Analyst Lab, Water & Sewerage Corporation

Country	<b>SAINT LUCIA</b>
Date of Establishment	1999
Director:	John C. Joseph
Category	Private
Area of Specialization	Water quality: pH color, turbidity, conductivity, dissolved oxygen, total hardness, calcium hardness, total alkalinity, chlorides, flourides free amonia, nitrates phosphates, sulfates, total iron, copper, magnesium, aluminium total coliform, faecal coliform, faecal streptococci.
Specialized Equipment	DR/ 4000 U spectrophometer Hach 2100 AW is turbidimeter Hach sension 4 pH/ ISE meter
Trained Personnel	No
Number of Staff	5
Accreditation	None
Quality Control Manual	No
Contaft Information	Ciceron Casteries St.Lucia 1758 453 2462 or 1758 453 25 69 lab_wabco@candw.lc
Website	<a href="#">Unknown</a>
Comments	We are just getting started with the quality control manual

## Analytical Technologies LTD

Country	<b>TRINIDAD</b>
Date of Establishment	Unknown
Director:	Unknown
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	Telephone #1: (868) 679-8378 Main Address Laboratories Industrial & Environmental Testing, Pt Lisas Industrial Est Couva, Trinidad
Website	<a href="#">Unknown</a>
Comments	None

## Institute of Marine Affairs

Country	<b>TRINIDAD</b>
Date of Establishment	27942
Director:	Commodore (Ret.) Anthony Franklin
Category	Public
Area of Specialization	Water, sediment and biota quality analyses. Nutrients, heavy metals, Petroleum Hydrocarbon, Total and Faecal coliform analysis on fresh water and seawater. Heavy metal and Petroleum hydrocarbon analysis on sediment and biota. Other wet chemistry analyses (COD, BOD <sub>5</sub> TOC, Chlorophyll 'a', ammonia, nitrates, nitrites .
Specialized Equipment	Field Meters (multi-parameter e.g. YSI 60, 65, 85). UV Vis spectrophotometers, TOC/TN analyzer, Fluorescence, ICP-MS and AAS, GC-MS and FT-IR
Trained Personnel	Chemists (4) Microbiologist (1) in the Marine Chemistry Department (MCD)
Number of Staff	104
Accreditation	Had commenced the process of pursuing ISO 17025 Accreditation in 2005 but stopped in 2007
Quality Control Manual	No
Contact Information	Analytical Laboratory, Marine Chemistry Department Hilltop Lane Chaguaramas Trinidad and Tobago 868-634-4292 director@ima.gov.tt
Website	<a href="http://ima.gov.tt">ima.gov.tt</a>
Comments	Funding was supplied for the purchase of a YSI Water Quality Monitor in the UNEP's. Know Why Network Project that involves monitoring selected areas of High risk ( Hot Spots) in 2008

## Trinidad Inspection Services

Country	<b>TRINIDAD</b>
Date of Establishment	Unknown
Director:	Unknown
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	223 Union Rd, Marabella, Trinidad, West Indies Ph (868) 658-3817 Fax (868) 658-3727 email: secretary@tistt.com
Website	<a href="http://www.tistt.com/Service.htm">http://www.tistt.com/Service.htm</a>
Comments	None

## Water Sewerage Authority: Quality Control Manager

Country	<b>TRINIDAD</b>
Date of Establishment	1965
Director:	Quality Control Manager
Category	Government only
Area of Specialization	Bacteriological Analyses – Total Coliforms Thermotolerant (Faecal) Coliforms Physical/ Chemical Analyses – Comparative simple analyses - pH, Colour, Turbidity, Iron, Aluminium, Chlorides
Specialized Equipment	Spectrophotometers
Trained Personnel	In- house training only
Number of Staff	36
Accreditation	Not accredited due to accomodation issues
Quality Control Manual	yes
Contact Information	Quality Control Department Ragbir Street St. Augustine Trinidad 645-6377 contact@wasa.gov.tt wasa.gov.tt
Website	<a href="http://wasa.gov.tt">wasa.gov.tt</a>
Comments	The original Central Laboratory had to be abandoned over ten years ago due to air-quality issues. No appropriate accommodation since then. The Department continues to work under less than optimum conditions.

## Center for Marine Resource Studies

Country	<b>TURKS AND CAICOS</b>	
Date of Establishment	Unknown	
Director:	Unknown	
Category	Unknown	
Area of Specialization	Unknown	
Specialized Equipment	Unknown	
Trained Personnel	Unknown	
Number of Staff	Unknown	
Accreditation	Unknown	
Quality Control Manual	Unknown	
Contact Information	The School for Field Studies 10 Federal St, Suite 24 Salem, MA 01970-3876 3666 Fax: 649-946-3246 Rep Dr. John Claydon email:jclaydon@feildstudies.org	Tel: 649- 946-
Website	<a href="#">Unknown</a>	
Comments	None	

## MacLean Marine Science Center

Country	<b>US Virgin Islnads</b>
Date of Establishment	Unknown
Director:	Dr. Rick Nemeth
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contaft Information	University of the Birgin Islands (UVI) Center for Marine and Environmental Studies #2 John Brewers Bay St. Thomas 802 Tel:340-693-1381 Fax:340-6931383 Rep: Dr. Rick Nemeth rnmeth@uvi.edu
Website	<a href="#">Unknown</a>
Comments	None



## Virgin Islands Environmental Resources Center

Country	<b>US Virgin Islnads</b>	
Date of Establishment	Unknown	
Director:	Mr. Randy Brown	
Category	Unknown	
Area of Specialization	Unknown	
Specialized Equipment	Unknown	
Trained Personnel	Unknown	
Number of Staff	Unknown	
Accreditation	Unknown	
Quality Control Manual	Unknown	
Contact Information	University of the Virgin Islands PO Box 250 St. John 831 Tel: 410-647-2500 Randy Brown email: randybrown@islands.org	Rep: Mr.
Website	<a href="#">Unknown</a>	
Comments	3	

## Keys Marine Laboratory

Country	<b>USA</b>
Date of Establishment	Unknown
Director:	Dr. William C. Hogarth
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	Florida Institute of Oceanography (FIO) P.O. Box 968 M.M. 68.5 Overseas Highway Long Kay Layton, Florida 33001 Tel 305- 664-0850 Rep. Dr. Sandra Vargo svargo@marine.usf.edu
Website	<a href="#">Unknown</a>
Comments	None

## Mote Marine Laboratory (MML)

Country	<b>USA</b>
Date of Establishment	Unknown
Director:	Dr. Kumar Mahadevan
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	1600 Ken Thompson Sarasota, Florida 34236 Tel: 941-388-4441 fax 941-388-4312 Rep. Rusty Holmes research@mote.org
Website	<a href="#">Unknown</a>
Comments	None

## Southeast Environmental Research Center

Country	<b>USA</b>
Date of Establishment	1993
Director:	Joseph N. Boyer Ph.D
Category	Public
Area of Specialization	Water quality- Nutrients
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	8
Accreditation	NELAP Lab #E76930
Quality Control Manual	Yes.
Contact Information	OE-148, 11200 SW 8th St. Florida International University Miami USA 305-348-2836 boyerj@fiu.edu
Website	<a href="http://casgroup.fiu.edu/serc/">casgroup.fiu.edu/serc/</a>
Comments	None

## Instituto Oceanografico

Country	<b>VENEZUELA</b>
Date of Establishment	Unknown
Director:	Unknown
Category	Unknown
Area of Specialization	Unknown
Specialized Equipment	Unknown
Trained Personnel	Unknown
Number of Staff	Unknown
Accreditation	Unknown
Quality Control Manual	Unknown
Contact Information	Universidad de Oriente Apartado 94 Cumana Tel: 0058-293-451-2017 fax: 0058-293-451-2017 Ms. Mary Isabel Segnini de Bravo fobravo@cantv.net
Website	<a href="#">Unknown</a>
Comments	None