White Paper #2: The Impact of TNI on Government Owned Laboratories in California, Florida, and New York

By David Kimbrough, Pasadena Water & Power

When the States of Florida and New York required all laboratories to be NELAP/TNI compliant the number of government owned laboratories decreased while when California allowed laboratories to choose to the use TNI, the number of government owned laboratories increased.

Presented to the Environmental Laboratory Technical Advisory Committee, June 15, 2016

1. Background

In 2015 the State Water Resources Control Board established The Expert Review Panel (ERP) was created to address the many shortcomings of the previous management of the Environmental Laboratory Accreditation Program (ELAP). The ERP made a number of recommendations, one of which was for ELAP to adopt a new Accreditation Standard. Here is what the ERP wrote:

"Adopt laboratory accreditation standards: The use of an appropriate accreditation standard by which laboratories are assessed is critical to ELAP's credibility, to the usability of the data generated, and to the general success of the program. The laboratory standards ELAP is using are insufficient and out of date. The State should adopt an existing, external set of accreditation standards as an immediate remedy and, in the future, refine it to enhance alignment with State-specific needs. ***The accreditation standards chosen must include quality system and method-based requirements.***"

No one to date has disagreed with the general point, ELAP's Accreditation Standard, which is its regulations, is badly out of date. The portion of ELAP's regulations dealing with data quality is very thin. No one has disagreed that ELAP needs a new Accreditation Standard. The main area of contention to date has been whether a new Accreditation Standard really needs to include a Quality System and if so, how that Quality System should be structured.

The ERP provided Three Options, or general approaches, for how to develop a Quality System. The ERP has suggested that accreditation requirements found in the documents of The NELAC Institute (TNI) would be helpful to ELAP, either in part or in their entirety, as a basis for the Quality System component of the new Accreditation Standard. Since the ERP's report has been released this one part of the ERP report has been the source of considerable controversy. Many

laboratories have objected to the use of TNI as the basis for the Quality Systems component of a new Accreditation Standard. They argue that the requirements found in the TNI documents are vague, ambiguous, and onerous. Further they do little if anything to improve data quality. They also note that the documents contain a vast number of requirements that produce an undue burden on laboratories. For example, in just Volume 1, Module 2 alone there are 231 separate management requirements and 300 technical requirements which every laboratory, no matter how large or small, must comply with. There are many more requirements found in the other modules of Volume 1 and 2. While this is a considerable amount of work for any laboratory to comply with, it is particularly a problem for smaller laboratories. 80% of laboratories accredited by ELAP have five staff members or fewer and many do not even have full time dedicated laboratory staff member. Many smaller treatment facilities have certified operators and other staff who share the laboratory work.

Most of the discussion to date has been about the ***potential impact*** of using TNI quality systems as part of the Accreditation Standard on smaller laboratories. There has been little discussion about the ***actual impact*** of the use of TNI on real laboratories where TNI quality systems have already been implemented. Among first states to adopt TNI were California, Florida, and New York. So in an attempt to measure the real effects of TNI in practice a study was conducted to assess the impact of TNI on laboratories owned by governments in these three states.

2. Study Design

The approach of this study was to examine the number of accredited laboratories owned by governments in a state where TNI quality systems were implemented and how those numbers changed over the years and compare that to the change in numbers of government owned laboratories in a state where TNI quality systems were not required.

In 2000 the State of Florida adopted the November 1998 National Environmental Accreditation Conference (NELAC, the predecessor of TNI) and adopted the 2003 NELAC requirements in 2002. California likewise authorized ELAP to adopt regulations to enforce the 1998 NELAC requirements. Other state laboratory accreditation programs did the same thing, such as New York and California.

Some states, like Florida and New York, required all laboratories to comply with the TNI quality systems requirements. Other state programs, such as California and Louisiana allowed each laboratory to choose whether they wanted to use the TNI quality system or not. Virginia and Wisconsin require commercial laboratories to use TNI quality system but not non-commercial laboratories.

So Florida and New York represent good test cases for the impacts of requiring TNI requirement on smaller government owned laboratories. More importantly the Florida Department of Environmental Protection maintains two databases that are available on line. One is a list of all currently accredited laboratories, the "Active" database. The other database includes all laboratories which were once accredited by the Florida Department of Health (FDOH) but are no longer. New York likewise has an on-line database for currently accredited laboratories and the author of this report has a database of TNI (NELAP) accredited laboratories from 2001.

California represents the other extreme; no government owned laboratories were required to use the TNI quality system and none chose to do so. The California Environmental Laboratory Accreditation Program (ELAP) has a database of currently accredited laboratories. This can be compared to past versions of that database. The author has a database of California ELAP laboratories from 2001 and downloaded both the list of currently accredited laboratories and a database from 2008.

By comparing how the number of government owned laboratories changed between these three states, the actual impact of requiring the use of the TNI quality system on government owned laboratories can be assessed.

3. Results

a. Florida

The Florida DOH databases contain the dates of when the status of a laboratory was changed, e.g. from "State" to "NELAP" or "State" to "Inactive" for each Field of Accreditation that the laboratory had. Addresses and telephone numbers were also available in both databases. Laboratories physically located in the State of Florida and those without are both included. These databases were created in March of 2002 and records of changes in status prior to that are not available.

https://fldeploc.dep.state.fl.us/aams/index.asp

There are a total of 376 laboratories in the Inactive database and 368 in the Active database. There were 202 Inactive laboratories which were physically located in Florida as were 233 Active laboratories. 89 of these inactive laboratories are associated with local municipalities and other government agencies, mostly laboratories associated with sewage treatment plants but also drinking water facilities, county and state public health laboratories, and university laboratories. Among the active laboratories located in Florida, there

were 109 utility owned (both public and private), 77 commercial, 21 Environmental Pollution laboratories, 11 Department of Health (State or County) laboratories, six university laboratories, three Federal laboratories, and 12 "others". Non-government laboratories on the inactive list included bottled water companies (Zephyrhills Spring Water Company), private utilities (The Villages Environmental Laboratory), commercial laboratories (Advanced Environmental Laboratories, Inc. – Gainesville), in-house laboratories (Tropicana), and so forth.

Not all of these inactive laboratories actually ceased to exist or even lost accreditation. This could be determined by determining which county the Inactive laboratory was physically located and then checking all laboratories in that county in the Active database. Some laboratories had simply changed their names, or moved to new locations, or were purchased by other laboratories, or were consolidated after a parent company was purchased. Zephyrhills Spring Water Company was purchased by a larger firm which already had a laboratory at another facility. Advanced Environmental Laboratories, Inc. – Gainesville simply moved a few blocks away and got a new certificate number.

However those reasons rarely apply to the government laboratories listed, although it did in some cases. Port St. Lucie Utility Systems Department Laboratory(E56489) was listed as inactive but had simply been renamed and given a new Department of Health (DOH) certificate number (E56718). In another case the City of Cocoa had had two laboratories, one for their wastewater treatment plant and one for their drinking water plant. After NELAP was implemented, the two were consolidated and the wastewater laboratory was closed. There were 10 government owned laboratories that were either moved, had a name change, or were consolidated. There were 79 that closed altogether.

For example of how this analysis worked, the City of Atlantic Beach had a laboratory (E52465) in their small Wastewater Treatment Plant (3.5 MGD). In the Inactive database this laboratory was recorded as analyzing Biochemical Oxygen Demand (BOD), Fecal Coliforms, Dissolved Oxygen, Chlorine Residual, Total Suspended Solids, Temperature, and pH. When these analytes were queried as to when the laboratory the results indicated that it had closed before March of 2002. A review of all laboratories in Duval County revealed no laboratories in Atlantic Beach at all and none associated with the City of Atlantic Beach anywhere in Duval County. The Director of the City's plants was contacted via email. He indicated in an email response that the City had closed its laboratory because of the expenses associated with NELAP accreditation (see below).

The City of Bartow Wastewater Treatment Plant Laboratory (E54339) is also listed as inactive. However a review of the database revealed no information about when the City of Bartow relinquished its accreditation. A telephone call to the treatment plant operator on duty revealed that the plant had indeed dropped their accreditation as soon as the TNI requirements were added

Of the 78 government owned laboratories located in Florida that actually closed completely, 44 of these laboratories closed within six years of Florida requiring all laboratories to comply with NELAP/TNI requirements. These laboratories tended to be smaller, performing smaller numbers of tests which were generally simpler and were associated with utilities, such as a sewage treatment plant. For example the City of Belle Glade's Wastewater Treatment Plant had been accredited for 17 analytes, including pH, NH3, NO3, NO2, TKN, Organic Nitrogen, BOD, DO, Chloride, Phosphorus, Conductivity, TDS, TSS, Total Coliforms, Fecal Coliforms, and E. coli. This laboratory, which is located in Palm Beach County, relinquished its accreditation in 2003. The laboratories that closed after the first six years tended to be the State and County public health laboratories. A few of these laboratories performed more complex tests, such as the Polk County Health Department laboratory analyzed Gross Alpha, Gross Beta, Radium 226, and Radium 228 which closed in 2016.

See Figure 1

b. California

In contrast, in California, in 2001 there were 727 certificates of accreditation issued to laboratories both physically in California and outside. Today there are 734 certificates, 108 of which are for laboratories located outside the State of California. Some certificates were for mobile laboratories and some laboratories held two certificates, one for NELAP accreditation and one for non-NELAP accreditation. So there is not a one to one correspondence between the number of certificates and the number of laboratories but the number of laboratories with more than one certificate is not large. Moreover, government owned laboratories do not have multiple certificates except when they have separate multiple fixed location laboratories.

In 2001 there were 284 government owned laboratories that were accredited by ELAP. By 2008 the number had grown to 312 and by 2015 the numbers was 345, an increase of 61. This despite the fact that 35 government owned laboratories had closed or were consolidated. For example, the Ventura Regional Sanitation District closed their laboratory in 2005 and contracted out all of their laboratory work. Scott Valley Water District made a similar decision about the

same time. Many of the government owned laboratories that closed were military facilities which closed, such as Brooks Air Force Base which closed in 2002. The City of Oxnard had two laboratories listed in 2001 but now only has one. The Elsinore Valley Municipal Water District closed its Canyon Lake Treatment Plant laboratory but maintains their Regional Laboratory. Los Alisos Water District merged with the Irvine Ranch Water District so their laboratories merged as well. Despite these closings many more government owned laboratories opened. Alameda County Water District, the California Men's Colony, and East Bay Municipal Utilities District all had laboratories in 2001 but opened second laboratories after 2008. The Cities of Arcata, Auburn, Banning, Calistoga, Pacifica, Paso Robles, Pismo Beach, and Hollister opened new laboratories after 2001. Cambria Community Services District (CSD, Quincy CSD, Rancho Murrieta CSD, Quartz Valley Indian Reservation all added new laboratories.

See Figure 2

c. New York

As noted earlier, the New York Environmental Laboratory Accreditation Program (NY ELAP) has an on-line database of currently accredited laboratories.

http://www.wadsworth.org/regulatory/elap/certified-labs

This database was queried for all government owned laboratories that were physically located in the State of New York. There were 121. The 2001 database was queried for all laboratories physically located in the State of New York. There was no field in the database for whether they were government owned or not. Then the list from the 2001 database was compared to the 2016 database and all of the laboratories that were on both lists were laboratories were identified. Then the 2001 database was searched for government laboratories not found in the 2016 database. There were 221 government owned laboratories in the 2001, a difference of 100. Actually more than 100 government laboratories were no longer accredited but there were a number of new government laboratories that added accreditation. One laboratory that closed was actually moved and renamed. The Hawthorne Laboratory in Hawthorne had been the Kensico Laboratory in Vahalla.

4. Conclusions

All three states, California, Florida, and New York had adopted the use of TNI requirements at the same time. Florida and New York required all laboratories to comply with the TNI requirements while California allowed laboratories to choose. Between 2001 and 2015 the number of government laboratories, particularly smaller utility laboratories decreased in both Florida and New York while in California the numbers increased. The data would indicate that the undue burden and excessive efforts to maintain TNI accreditation was the cause of the decline in the number of government laboratories in these two states.

Addendum 1

Email from the City of Atlantic Beach

Mr. Kimbrough,

Yes, it was cost effect for us to sent lab work out than keep our accreditation. We have a small Wastewater Plant (3.5 MGD) with minimum staff.

Harry McNally
Plants Division Director
City of Atlantic Beach
902 Assisi Lane
Atlantic Beach Fl 32233
Phone 904-247-[illegible]
Fax 904-242-[illegible]
E-mail [illegible]

From: Kimbrough, David [mailto:[illegible]]
Sent: Wednesday, April 27, 2016 2:38 PM
To: McNally, Harry
Subject: Laboratory Accreditation

Mr. McNally,

I am writing in regards to the City of Atlantic Beach's Wastewater Treatment Plant's (WTP) laboratory. I run a small municipal laboratory for the City of Pasadena here in California which is accredited by the State of California. The Florida Department of Environmental Protection maintains two databases of laboratories accredited by the State of Florida, those that are active and those that are inactive. The City of Atlantic Beach's WTP's laboratory is listed in the inactive database. According to the data, the lab had relinquished accreditation some times before 2002.

If you do not mind my asking, why did the WTP drop its accreditation? Did it has something to do with NELAP accreditation?

Thank you for your attention in this matter.

David Eugene Kimbrough, PhD.
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Suite 200
Pasadena CA [illegible]
Before Noon - 626 [illegible]
After Noon - 626 [illegible]
Fax [illegible]

Addendum 2

Email from the Orange County, Florida

in Florida yes. Many of the smaller utility labs dropped participation and went to larger commercial labs to get their work done
cam

From: Kimbrough, David [mailto:dkimbrough@cityofpasadena.net]
Sent: Wednesday, November 04, 2015 6:31 PM
To: Kunihira, Kim
Subject: RE: NELAP - TNI

Hello

If I recall correctly, a significant number of smaller labs dropped out of the accreditation program when TNI became mandatory way back when. Did I remember that correctly?

David.

From: [redacted]
Sent: Wednesday, November 04, 2015 2:59 PM
To: Kimbrough, David
Subject: RE: NELAP - TNI

Yes
We are not a NELAP/TNI approved lab. Would be happy to discuss with you. I was on vacation for a week because my daughter got married but have some time on Friday if you want to talk
Kim
[redacted]

From: Kimbrough, David [mailto:dkimbrough@cityofpasadena.net]
Sent: Tuesday, November 03, 2015 12:53 PM
To: Kunihira, Kim
Subject: NELAP - TNI

Hello Kim,

I do not know if you remember me but I was with Castaic Lake Water Agency and we spoke a number of times about the situation in Florida in regards to NELAP and TNI. Are you still involved in all of that? If so, could we talk some more?

David Eugene Kimbrough, Ph.D.
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Figure 1

Government Run Laboratories on the Inactive List
With Department of Health ID#, Organization Name, Year Accreditation was Relinquished, and Current Status

DOH ID	Organization	Year	County	Status
E72949	UF-IFAS Wetland Biogeochemistry Laboratory		Alchua	Moved
E22794	FL Dept. of Health - Bradford County Health Department	2005	Bradford	No Lab
E63359	Kennedy Space Center Laboratory for Sewage Treatment Operations		Brevard	Renamed
E53727	City of Cocoa Water Treatment Plant		Brevard	Consolidated
E53456	Brevard County Utility Services - Mims Water Treatment Plant	2001	Brevard	No Lab
E56756	City of Lauderhill Water Treatment Plant	2003	Broward	No Lab
E56300	City of Pembroke Pines Wastewater Treatment Plant	2013	Broward	No Lab
E56721	City of North Lauderdale Water Plant	2004	Broward	No Lab
E56725	City of Tamarac Utilities Laboratory	2015	Broward	No Lab
E46093	Coral Springs Improvement District Laboratory	2002	Broward	No Lab
E56744	City of Hallandale Beach Water Treatment Plant	2006	Broward	No Lab
E34830	FL DEP - South District Laboratory	2008	Charolette	No Lab
E24768	FL Dept. of Health - Citrus County Health Department	2012	Citrus	No Lab
E96766	Miami-Dade County Public Schools, Department of Materials Testing and Evaluation	2011	Dade	No Lab
E661069	NOAA - AOML Nutrient Laboratory	2013	Dade	No Lab
E06897	UF-TREC Soil and Water Laboratory	2011	Dade	No Lab
E32890	FL DEP - NE District	2008	Duval	No Lab

E52465	City of Atlantic Beach Wastewater Treatment Plant	2001	Duval	No Lab
E11062	FL Department of Health - Pensacola Branch Laboratory	2015	Escambia	No Lab
E31887	FL DEP - NW District Chemistry Laboratory	2008	Escambia	No Lab
E71176	University of West Florida Wetlands Research Laboratory		Escambia	Moved
E51289	City of Port St. Joe Wastewater Treatment Plant Laboratory	2005	Gulf	No Lab
E54466	City of Wauchula Wastewater Treatment Plant	2003	Hardee	No Lab
E24704	FL Dept. of Health - Hernando County Health Department	2002	Hernando	No Lab
E55378	City of Sebring Wastewater Treatment Plant	2003	Highland	No Lab
E25705	FL Dept. of Health - Highlands County Health Department	2013	Highland	No Lab
E34886	FL DEP - SW District Chemistry Laboratory	2008	Hillsborough	No Lab
E44301	Plant City Water Pollution Control Laboratory	2003	Hillsborough	No Lab
E43877	City Of Vero Beach, Wastewater Treatment Plant	2012	Indian River	No Lab
E53303	City of Vero Beach Environmental Control Laboratory	2005	Indian River	No Lab
E53306	City of Leesburg Wastewater Utility Laboratory	2014	Lake	No Lab
E51431	Florida State Hospital Wastewater Treatment Plant	2005	Lee	No Lab
E45849	Fiesta Village Wastewater Laboratory	2014	Lee	No Lab
E55419	Bonita Springs Utilities WRF Lab	2001	Lee	No Lab
E31640	FL DEP - Central Laboratory/Innovation Park Satellite Laboratory		Leon	Moved
E54461	City of Bradenton Water Reclamation Laboratory	2012	Manatee	No Lab
E54712	City of Bradenton Water Treatment Plant Laboratory	2005	Manatee	No Lab
E23708	FL Dept. of Health - Marion County Health Department	2011	Marion	No Lab

E63507	U.S. Geological Survey, WRD, OWQRL	2005	Marion	No Lab
E52335	City of Fernandina Beach Wastewater Treatment Plant	2006	Nasau	No Lab
E51561	Niceville, Valparaiso, Okaloosa County Regional Sewer Board, Inc.		Okaloosa	Renamed
E51497	City of Mary Esther Wastewater Treatment Plant	2003	Okaloosa	No Lab
E56584	Okeechobee Utility Authority Wastewater Treatment Plant Laboratory	2014	Okeechobee	No Lab
E56970	Okeechobee Utility Authority Wastewater Treatment Plant	2002	Okeechobee	No Lab
E56723	Okeechobee Utility Authority Water Treatment Plant	2005	Okeechobee	No Lab
E33863	FL DEP - Central District Laboratory	2008	Orange	No Lab
E13800	FL Dept. of Health - Bureau of Radiation Control	2012	Orange	No Lab
E53136	City of Winter Park Estates Laboratory	2007	Orange	No Lab
E43155	Orange County Environmental Protection Division	2004	Orange	Moved
E53321	City of Winter Garden Wastewater Pollution Control Facility		Orange	Renamed
E53421	City of St. Cloud Water and Wastewater Facilities	2002	Osceola	No Lab
E16122	FL Department of Health - West Palm Beach Branch Laboratory	2011	Palm Beach	No Lab
E56264	City of Royal Palm Beach Utilities Dept. Wastewater Treatment Plant Laboratory	2006	Palm Beach	No Lab
E56034	City of Belle Glade Wastewater Treatment Plant	2003	Palm Beach	No Lab
E24709	FL Dept. of Health - Pinellas County Health Department	2010	Pinellas	No Lab
E54369	City of Tarpon Springs Wastewater Treatment Plant	2005	Pinellas	No Lab
E54508	City of Dunedin Wastewater Treatment Plant	2010	Pinellas	No Lab
E54743	City of St. Petersburg - Cosme	2005	Pinellas	No Lab

	Water Treatment Plant Laboratory			
E74916	University of South Florida	2012	Pinellas	No Lab
E54020	City of Clearwater - Marshall Street Water Pollution Control Laboratory	2003	Pinellas	No Lab
E24710	FL Dept. of Health - Polk County Health Department	2016	Polk	No Lab
E54339	City of Bartow Wastewater Treatment Plant Laboratory	2001	Polk	No Lab
E54373	City of Haines City Wastewater Treatment Plant	2005	Polk	No Lab
E84746	FL DACS Central Dairy Laboratory	2001	Polk	No Lab
E54336	City of Fort Meade Wastewater Treatment Plant Laboratory	2001	Polk	No Lab
E54066	City of Winter Haven Wastewater Treatment Plant #3	2006	Polk	No Lab
E54305	City of Winter Haven Wastewater Treatment Plant #2 - Lake Conine	2004	Polk	No Lab
E54266	City of Auburndale Wastewater Laboratory	2003	Polk	No Lab
E52474	City of Palatka Wastewater Treatment Plant	2004	Putnam	No Lab
E22779	Dept. of Health - Putnam County Environmental Health Department	2005	Putnam	No Lab
E54426	City of Venice - Eastside Wastewater Treatment Plant	2003	Sarasota	No Lab
E54524	Florida Governmental Utility Authority - Gulf Gate Laboratory	2003	Sarasota	No Lab
E24711	FL Dept. of Health - Sarasota County Health Department	2009	Sarasota	No Lab
E54736	City of Sarasota Water Plant Laboratory		Sarasota	Moved
E54326	City of Venice Water Reclamation Laboratory	2004	Sarasota	No Lab
E53372	City of Sanford Water Reclamation Facility Laboratory	2004	Seminole	No Lab
E53390	Seminole County Environmental Services Greenwood Lakes Treatment Plant	2002	Seminole	No Lab

E53416	City of Winter Springs Wastewater Reclamation Facility	2015	Seminole	No Lab
E22770	FL Dept. of Health - St. Johns County Health Department - Environmental Eng.	2011	St. Johns	No Lab
E76888	University of Florida Soil and Water Science Laboratory	2012	St. Lucie	No Lab
E26789	FL Dept. of Health - St. Lucie County Health Department	2007	St. Lucie	No Lab
E76857	UF / IFAS / IRREC - Lab 25 (C. Wilson)	2015	St. Lucie	No Lab
E56489	Port St. Lucie Utility Systems Department Laboratory		St. Lucie	Moved
E36885	FL DEP - SE District Lab	2007	St. Lucie	No Lab
E52400	City of Perry Wastewater Treatment Plant	2002	Taylor	No Lab
E23111	Volusia County Environmental Health Laboratory	2014	Volusia	No Lab
E53732	City of New Smyrna Beach Water Treatment Plant Laboratory	2006	Volusia	No Lab
E53758	Port Orange Utility - Garnsey Water Treatment Plant Laboratory		Volusia	Consolidated
E53343	City of Ormond Beach Public Utilities	2005	Volusia	No Lab

Figure 2

Government Run Laboratories Accredited by California ELAP in 2001, 2008, and 2016 and Current Status

2001	2008	2015	Status
AGUA DE LEJOS TREATMENT PLANT LABORATORY	x	Agua De Lejos Treatment Plant Laboratory	
ALAMEDA COUNTY ENVIRONMENTAL HEALTH LABORATORY			**Consolidated**
ALAMEDA COUNTY PUBLIC HEALTH LABORATORY	x	Alameda County Public Health Laboratory	
ALAMEDA COUNTY WATER DISTRICT	x	Alameda County Water District Water Quality Lab	
		Alameda County Water District Water Treatment Plant 2	
		Alvarado Wastewater Chemistry Lab.	
	x	American Canyon Wastewater Treatment Laboratory	
ANTELOPE VALLEY-EAST KERN WATER AGENCY	x	Antelope Valley-East Kern Water Agency	
		Arcata - City Water Quality Laboratory	
	x	Banning - City WWTP Laboratory	
BARSTOW WASTEWATER RECLAMATION LABORATORY	x	Victor Valley Wastewater Reclamation Authority Lab	
BIG BEAR AREA REGIONAL WASTEWATER AGENCY	x	Big Bear Area Regional Wastewater Agency	
BRYTE BEND WATER TREATMENT PLANT LABORATORY	x	Bryte Bend Water Treatment Plant - City of Sacramento	
BURBANK CITY WATER DEPARTMENT	x	Burbank City Water and Power	
BROOKS AIR FORCE BASE ARMSTRONG LABORATORY / OEA			**Closed**
BURBANK WASTEWATER TREATMENT FACILITY	x	City of Burbank Water Reclamation Plant	

LABORATORY		Laboratory	
CALIFORNIA DEPARTMENT OF WATER RESOURCES	x	CA Dept of Water Resources Bryte Chemical Laboratory	
CALIFORNIA DEPARTMENT OF CORRECTIONS	x	California Men's Colony Wastewater Treatment Plant	
	x	California Men's Colony Water Treatment Plant	
CALIFORNIA DEPARTMENT OF FISH AND GAME	x	CA Dept of Fish & Game, Fish & Wildlife Water Pollution	
	x	CA Dept.of Food & Ag, Center for Analytical Chemistry	
DEPT OF PARKS AND RECREATION LABORATORY	x	Cal Dept of Parks and Recreation Laboratory	
	x	California Fish & Game - Aquatic Toxicology Lab	
CAMARILLO SANITARY DISTRICT		Camrosa Water Reclamation Facility Laboratory	
	x	Cambria Community Services District	
		Calistoga City Dunaweal WWTP Laboratory	
CAMROSA WATER DISTRICT LABORATORY	x	Camrosa Water District Laboratory	
CANYON LAKE WATER TREATMENT PLANT LAB		(EVMWD)	**Consolidated**
CARMEL AREA WASTEWATER DISTRICT	x	Carmel Area Wastewater District	
CARMEL VALLEY COUNTY SANITATION DISTRICT			**Closed**
CARPINTERIA SANITARY DISTRICT LABORATORY	x	Carpinteria Sanitary District	
CASITAS MUNICIPAL WATER DISTRICT	x	Casitas Municipal Water District	
CASTAIC LAKE WATER AGENCY	x	Castaic Lake Water Agency	
CENTRAL COAST WATER AUTHORITY	x	Central Coast Water Authority	
CENTRAL CONTRA COSTA	x	Central Contra Costa	

SANITARY DISTRICT		Sanitary District	
CENTRAL MARIN SANITATION AGENCY	x	Central Marin Sanitation Agency	
CHINO BASIN MUNICIPAL WATER DISTRICT			**Closed**
CITY OF ANAHEIM WATER QUALITY LABORATORY	x	City of Anaheim Water Quality Laboratory	
CITY OF ANTIOCH WATER TREATMENT PLANT	x	City of Antioch	
		City of Auburn - Operation Management International	
CITY OF ATWATER	x	City of Atwater Wastewater Treatment Facility Lab.	
CITY OF AVALON	x	City of Avalon Wastewater Treatment Facility Laboratory	
CITY OF BAKERSFIELD - WASTEWATER TREATMENT PLANT 3	x	City of Bakersfield - Wastewater Treatment Plant #3	
CITY OF BAKERSFIELD WASTEWATER TREARMENT PLANT 2	x	City of Bakersfield Wastewater Treatment Plant #2	
	x	City of Banning WWTP Laboratory	
CITY OF BENICIA WASTEWATER FACILITY	x	City of Benicia Wastewater Laboratory	
CITY OF BENICIA WATER TREATMENT PLANT LABORATORY	x	City of Benicia Water Plant Laboratory	
		City of Brentwood Water Quality Laboratory	
CITY OF BRAWLEY	x	City of Brawley Wastewater Laboratory	
CITY OF BURLINGAME WASTEWATER TREATMENT PLANT	x	Veolia Water ~ Burlingame Wastewater Facility	
	x	City of Calexico	
CITY OF CHICO WATER POLLUTION CONTROL PLANT	x	City of Chico Water Pollution Control Plant Lab	
CITY OF COALINGA WATER TREATMENT PLANT LAB			**Closed**
	x	City of Corning -	

		Wastewater Treatment Plant	
	x	City of Davis Wastewater Treatment Plant	
EL CENTRO WASTEWATER TREATMENT PLANT	x	City of El Centro Wastewater Treatment Plant	
CITY OF ESCONDIDO WATER QUALITY LABORATORY	x	City of Escondido Water Quality Laboratory	
CITY OF EUREKA WATER AND WASTEWATER LABORATORY	x	City of Eureka Water & Wastewater Laboratory	
CITY OF FAIRFIELD WATER TREATMENT PLANT	x	City of Fairfield	
CITY OF FORTUNA WASTEWATER TREATMENT PLANT	x	City of Fortuna Wastewater Treatment Plant	
	x	City of Fresno Surface Water Treatment Facility	
CITY OF FRESNO WASTEWATER MANAGEMENT LABORATORY	x	City of Fresno Wastewater Management Division Lab	
CITY OF GRASS VALLEY	x	City of Grass Valley - Water Quality Laboratory	
CITY OF HANFORD - WASTEWATER TREATMENT PLANT LAB	x	City of Hanford Wastewater Treatment Plant	
CITY OF HAYWARD WPCF LABORATORY	x	City of Hayward Wpcf Laboratory	
CITY OF HOLLISTER TREATMENT PLANT	x	City of Hollister Treatment Plant	
CITY OF HOLTVILLE			**Closed**
CITY OF IMPERIAL WASTEWATER PLANT LABORATORY			**Closed**
CITY OF LIVERMORE WATER RECLAMATION PLANT	x	City of Livermore Water Reclamation Plant	
CITY OF LODI WHITE SLOUGH WPCF	x	City of Lodi White Slough WPCF Lab	
CITY OF LOMPOC WATER TREATMENT PLANT	x	City of Lompoc Water Treatment Plant Lab	
CITY OF LOS ANGELES DEPT OF WATER & POWER	x	City of Los Angeles DWP	
CITY OF LOS ANGELES DEPT.	x	City of Los Angeles DWP	

OF WATER & POWER		Environmental Lab.	
CITY OF LOS ANGELES STANDARDS TESTING LABORATORY	x	City of Los Angeles DWP-Standards Testing Labor	
	x	City of Madera WWTP Laboratory	
CITY OF MANTECA WQCF LAB	x	City of Manteca WQCF Lab	
CITY OF MARTINEZ WATER TREATMENT PLANT	x	City of Martinez	
CITY OF MERCED WASTEWATER TREATMENT PLANT	x	City of Merced Wastewater Laboratory	
CITY OF MILLBRAE WATER POLLUTION CONTROL	x	City of Millbrae Water Pollution Control	
CITY OF MODESTO	x	City of Modesto Water Quality Laboratory	
CITY OF MT. SHASTA WASTEWATER LABORATORY	x	City of Mt Shasta Wastewater Laboratory	
CITY OF NAPA, PUBLIC WORKS DEPT.	x	City of Napa	
CITY OF NEEDLES			**Closed**
CITY OF OCEANSIDE	x	City of Oceanside Water Utilities Department Lab	
CITY OF ORANGE WATER DEPARTMENT	x	City of Orange	
CITY OF OXNARD LABORATORY SERVICES PROGRAM	x	City of Oxnard	
CITY OF OXNARD WATER LABORATORY			**Consolidated**
		City of Pacifica, Calera Creek Plant	
CITY OF PALM SPRINGS	x	Palm Springs Wastewater Treatment Plant	
CITY OF PASADENA WATER QUALITY LABORATORY	x	City of Pasadena Water Quality Laboratory	
		City of Paso Robles Water Quality Laboratory	
CITY OF PETALUMA WASTEWATER TREATMENT PLANT	x	City of Petaluma Water Quality Laborator	
		City of Pismo Beach Water	

		Quality Laboratory	
CITY OF PLACERVILLE, HANGTOWN CREEK WWTP	x	City of Placerville Water Reclamation Facility	
CITY OF POMONA WATER DIVISION LABORATORY	x	Pomona Treatment Plant Laboratory	
CITY OF PORTERVILLE LABORATORY	x	City of Porterville Laboratory	
CITY OF POWAY WATER TREATMENT PLANT			**Closed**
CITY OF RED BLUFF WATER RECLAMATION PLANT LAB.	x	City of Red Bluff Water Reclamation Plant Lab	
CITY OF REDDING PUBLIC WORKS DEPARTMENT	x	City of Redding Clear Creek Lab	
CITY OF REDDING STILLWATER WW TREATMENT FACILITY	x	City of Redding Stillwater Lab	
CITY OF REDLANDS LABORATORY	x	City of Redlands Joint Utilities Lab	
CITY OF REEDLEY WASTEWATER TREATMENT PLANT LAB.	x	City of Reedley Wastewater Treatment Plant Lab	
CITY OF RICHMOND WASTEWATER POLLUTION CONTROL PLT	x	City of Richmond Wastewater Treatment Plant L	
CITY OF RIVERSIDE LABORATORY SERVICES	x	City of Riverside - Laboratory Services	
CITY OF ROSEVILLE	x	City of Roseville Dry Creek Water Quality Lab	
		City of Roseville Pleasant Grove Water Quality Lab	
CITY OF SACRAMENTO WATER QUALITY LABORATORY	x	City of Sacramento, Water Quality Lab	
CITY OF SAN BERNARDINO WATER DEPARTMENT			**Closed**
CITY OF SAN BUENAVENTURA SANITATION LABORATORY	x	City of San Buenaventura Laboratory	
CITY OF SAN CLEMENTE WATER QUALITY LABORATORY	x	City of San Clemente Water Quality Laboratory	
CITY OF SAN DIEGO - MARINE MICRO LABORATORY	x	City of San Diego's Industrial Waste Laboratory	
CITY OF SAN DIEGO INDUSTRIAL WASTE	x	City of San Diego - Marine Microbiology Lab	

LABORATORY			
CITY OF SAN DIEGO WASTEWATER CHEMISTRY LABORATORY	x	City of San Diego Met. Wastewater Dept. Tox Lab	
CITY OF SAN DIEGO WATER QUALITY LABORATORY	x	City of San Diego Water Quality Laboratory	
CITY OF SAN LUIS OBISPO WATER RECLAMATION FACILITY	x	City of San Luis Obispo	
CITY OF SAN MATEO	x	City of San Mateo Wastewater Treatment Plant	
CITY OF SANTA BARBARA	x	City of Santa Barbara - Water Resources Lab	
CITY OF SANTA MARIA WASTEWATER TREATMENT LAB	x	City of Santa Maria Wastewater Treatment Plant Lab	
CITY OF SANTA MONICA WATER DIVISION	x	City of Santa Monica Water Quality Laboratory	
CITY OF SCOTTS VALLEY	x	City of Scotts Valley Wastewater Reclamation Facility Lab	
CITY OF SHASTA LAKE	x	City of Shasta Lake Wastewater Treatment Facility	
	x	City of Simi Valley Water Quality Control Laboratory	
	x	City of South San Francisco-San Bruno	
CITY OF STOCKTON MUNICIPAL UTILITIES DEPT. LAB	x	City of Stockton, Municipal Utilities Department	
CITY OF ST. HELENA			**Closed**
CITY OF SUNNYVALE WATER POLLUTION CONTROL LAB	x	City of Sunnyvale Environmental Laboratory	
CITY OF THOUSAND OAKS UTILITIES DEPARTMENT			**Closed**
CITY OF TRACY PUBLIC WORKS DEPARTMENT	x	City of Tracy Public Works Department Laboratory	
CITY OF TULARE WATER POLLUTION CONTROL FACILITY	x	City of Tulare	
CITY OF TURLOCK	x	City of Turlock	

CITY OF VACAVILLE WATER QUALITY LABORATORY	x	City of Vacaville Water Quality Laboratory	
CITY OF VALLEJO WATER DEPARTMENT LABORATORY	x	City of Vallejo Water Department Laboratory	
CITY OF VISALIA WASTEWATER TREATMENT PLANT	x	City of Visalia Water Conservation Plant Laboratory	
CITY OF WATSONVILLE	x	City of Watsonville Utilities Department Laboratory	
CITY OF WEST SACRAMENTO WW TREATMENT PLANT LAB	x	George Kriskoff Water Treatment Plant	
	x	City of Woodland Wastewater Operations Lab	
	x	Coachella Sanitary District	
COACHELLA VALLEY WATER DISTRICT	x	Coachella Valley Water District Laboratory	
COUNTY OF ORANGE PUBLIC FACILITIES & RESOURCES			**Closed**
COUNTY OF RIVERSIDE DEPARTMENT OF HEALTH			**Closed**
COUNTY OF SAN LUIS OBISPO WATER QUALITY LAB	x	San Luis Obispo County Water Quality Lab	
		CSUMB Los Huertos Lab	
	x	Contra Costa Water District Lab	
DESERT WATER AGENCY	x	Desert Water Agency	
	x	Crescent City Water Quality Laboratory	
	x	Delta Diablo Sanitation District Laboratory	
DUBLIN SAN RAMON SERVICES DISTRICT	x	Dublin San Ramon Services District	
EAST BAY MUNICIPAL UTILITY DISTRICT	x	East Bay Municipal Utility District	
		East Bay Municipal Utility District Emergency Facility	
EASTERN MUNICIPAL WATER DISTRICT - PERRIS	x	Eastern Municipal Water District	
EL DORADO COUNTY HEALTH DEPARTMENT	x	El Dorado County Public Health Department	
EL TORO WATER DISTRICT LABORATORY	x	El Toro Water District Laboratory	

ENCINA WASTEWATER AUTHORITY LABORATORY	x	Encina Wastewater Authority Laboratory	
CITY OF LOS ANGELES EMD - HYPERION TREATMENT PLANT	x	City of Los Angeles EMD Los Angeles Hyperion WRP	
CITY OF LOS ANGELES BUREAU OF SANITATION, LA - G	x	City of Los Angeles EMD Los Angeles Glendale WRP	
CITY OF LOS ANGELES BUREAU OF SANITATION	x	City of Los Angeles EMD Terminal Island WRP	
TILLMAN WATER RECLAMATION PLANT	x	City of Los Angeles EMD Los Angeles DCT WRP	
E.V.M.W.D. REGIONAL WASTEWATER LABORATOEY	x	E.V.M.W.D. Regional Laboratory	
FAIRFIELD-SUISUN WASTEWATER TREATMENT FACILITY	x	Fairfield-Suisun Sewer District	
	x	Fallbrook Public Utility District	
		Fillmore Wastewater Recycling Plant Laboratory	
FORT BRAGG MUNICIPAL IMPROVEMENT DISTRICT # 1	x	Fort Bragg Municipal Laboratory	
FORT HUNTER LIGGETT WASTE WATER LABORATORY			**Closed**
FRESNO COUNTY PUBLIC HEALTH LABORATORY	x	Fresno County Public Health Laboratory	
	x	Granite Canyon - UC Davis Lab	
	x	Georgetown Divide Public Utility District	
GOLETA SANITARY DISTRICT	x	Goleta Sanitary District	
GOLETA WATER DISTRICT	x	Goleta Water District	
HELIX WATER DISTRICT	x	Helix Water District	
HERITAGE RANCH COMMUNITY SERVICES DISTRICT	x	Heritage Ranch C.S.D. Environmental Lab. #1	
		Healdsburg City Water Reclamation Facility	
	x	Hill Canyon Wastewater Treatment Plant Laboratory	
		Hollister - City Treatment Plant	
HUMBOLDT COUNTY PUBLIC	x	Humboldt County Public	

HEALTH LABORATORY		Health Laboratory	
		IIRMES	
IMPERIAL COUNTY PUBLIC HEALTH LABORATORY	x	Imperial County Public Health Laboratory	
INYO COUNTY ENVIRONMENTAL HEALTH LABORATORY	x	Inyo County Environmental Health Services	
		Inyo County Water Lab	
	x	Inland Empire Utilities Agency Laboratory	
IRVINE RANCH WATER DISTRICT LABORATORY	x	Irvine Ranch Water District	
		Jamieson Canyon Water Treatment Plant	
	x	John C. Bargar Water Treatment Plant	
KERN COUNTY PUBLIC HEALTH LABORATORY	x	Kern County Public Health Laboratory	
KERN COUNTY WATER AGENCY	x	Kern County Water Agency, Water Quality Lab	
KERN SANITATION AUTHORITY	x	Kern Sanitation Authority	
KINGS COUNTY PUBLIC HEALTH LABORATORY	x	Kings County Public Health Laboratory	
	x	Kirkwood Meadows Public Utilities District	
LAGUNA COUNTY SANITATION DISTRICT	x	Laguna County Sanitation District	
LAGUNA ENVIRONMENTAL LABORATORY	x	Laguna Environmental Laboratory	
LAKE ARROWHEAD COMMUNITY SERVICES	x	Lake Arrowhead Community Services District	
LAS PALMAS RANCH WATER RECLAMATION FACILITY	x	Lake Bard Water Filtration Plant Laboratory	
	x	Lake Wildwood Wastewater Treatment Plant	
	x	Las Gallinas Valley Sanitary District	
LAS VIRGENES MUNICIPAL WATER DISTRICT	x	Las Virgenes Municipal Water District Laboratory	
	x	Latham Regional Treatment Plant Laboratory	
LAWRENCE BERKELEY	x	LBNL Environmental	

LABORATORY		Measurements Laboratory	
LAWRENCE LIVERMORE NATIONAL LABORATORY	x	Lawrence Livermore National Laboratory	
	x	Linda County Water District WTP	
LOMPOC REGIONAL WASTEWATER RECLAMATION LAB.	x	Lompoc Regional Wastewater Reclamation Lab	
LONG BEACH TREATMENT PLANT LABORATORY	x	Long Beach Treatment Plant Laboratory	
	x	Long Beach Public Health Laboratory	
	x	Long Beach Water Department Water Quality Lab	
LOS ALISOS WATER DISTRICT		(El Toro Water District)	**Consolidated**
LOS ANGELES COUNTY AGRICULTURAL COMMISSION	x	Los Angeles County Agricultural Commissioner	
LOS ANGELES COUNTY PUBLIC HEALTH LABORATORY	x	Los Angeles County Public Health Lab	
LOS ANGELES COUNTY SANITATION DISTRICT	x	Joint Water Pollution Control Water Quality Lab	
LOS ANGELES COUNTY SANITATION DISTRICT	x	Los Coyotes Treatment Plant Laboratory	
LOS ANGELES COUNTY SANITATION DISTRICT	x	Saugus Treatment Plant Laboratory	
LOS ANGELES COUNTY SANITATION DISTRICT	x	Water Pollution Control Laboratory	
LOS ANGELES COUNTY SANITATION DISTRICT	x	Valencia Treatment Plant Laboratory	
LOS ANGELES COUNTY SANITATION DISTRICT	x	Whittier Narrows Treatment Plant Laboratory	
LOS ANGELES COUNTY SANITATION DISTRICT	x	Pomona Treatment Plant Laboratory	
LOS ANGELES COUNTY SANITATION DISTRICT	x	Lancaster Treatment Plant Laboratory	
LOS ANGELES HARBOR DEPARTMENT TESTING LAB	x	Port of Los Angeles Testing Laborator	
MADERA COUNTY PUBLIC HEALTH LABORATORY	x	Madera County Public Health Laboratory	
MALIBU MESA WATER RECLAMATION FACILITY	x	Malibu Mesa Water Reclamation Plant Lab	
MAMMOTH COUNTY WATER	x	Mammoth Community	

DISTRICT LAB		Water District	
MARIN COUNTY PUBLIC HEALTH LABORATORY	x	Marin County Public Health Laboratory	
MARIN MUNICIPAL WATER DISTRICT	x	Marin Municipal Water District	
MARINA COAST WATER DISTRICT	x	Marina Coast Water District	
MARIPOSA PUBLIC UTILITY DISTRICT	x	Mariposa Public Utility District	
		Meadowlark Water Reclamation Facility Lab	
MERCED COUNTY DEPARTMENT OF PUBLIC HEALTH LAB	x	Merced County Public Health Laboratory	
	x	Metro Biosolids Center Wastewater Chemistry SD	
METROPOLITAN WATER DISTRICT OF SO. CAL.	x	MWDSC- Joseph Jensen WTP Lab.	
METROPOLITAN WATER DISTRICT OF SO. CAL.	x	MWDSC - F.E. Weymouth WTP Laboratory	
METROPOLITAN WATER DISTRICT OF SO. CAL.	x	MWDSC - Henry J. Mills WTP Lab	
ROBERT B. DIEMER FILTRATION PLANT LABORATORY	x	MWDSC - Robert B. Diemer WTP Lab.	
METROPOLITAN WATER DISTRICT OF SO. CAL.	x	MWDSC - Robert A. Skinner WTP Lab	
METROPOLITAN WATER DISTRICT OF SO. CAL.	x	MWD - La Verne Water Quality Laboratory	
MISSION SPRINGS WATER DISTRICT	x	Mission Springs Water District	
MODESTO REGIONAL WATER TREATMENT PLANT	x	Modesto Regional Water Treatment Plant	
		Montecito Sanitary District Laboratory	
MONTEREY COUNTY CONSOLIDATED LABORATORY	x	Monterey County Consolidated Environmental Lab	
MONTEREY REGIONAL WATER POLLUTION CONTROL AGCY	x	Monterey Regional Water Pollution Control Agency	
MORRO BAY - CAYUCOS WW TREATMENT PLANT	x	Morro Bay - Cayucos Wastewater Treatment Plant	
	x	Mt. Shasta - City	

		Wastewater Laboratory	
MOULTON NIGUEL WATER LABORATORY	x	South Orange County Wastewater Authority Reg. Lab	
MT. VIEW SANITARY DISTRICT	x	Mt. View Sanitary District	
NAPA COUNTY HEALTH & HUMAN SERVICES LABORATORY	x	Napa - Solano County Public Health Laboratory	
NAPA SANITATION DISTRICT	x	Napa Sanitation District Laboratory	
NAVAL WEAPONS STATION			**Closed**
NEVADA IRRIGATION DISTRICT WATER LABORATORY	x	Nevada Irrigation District Water Laboratory	
NEWPORT BEACH CITY WATER LABORATORY			**Closed**
NILAND SANITARY DISTRICT	x	Niland Sanitary District	
NORTH BAY REGION WATER TREATMENT PLANT	x	North Bay Regional Water Treatment Plant	
	x	North City Wastewater Chemistry Lab	
NORTH COAST COUNTY WATER DISTRICT	x	North Coast County Water District	
NORTH MARIN WATER DISTRICT	x	North Marin Water District	
	x	North of River Sanitary District No. 1	
		North San Mateo County Sanitation District	
NOVATO SANITARY DISTRICT LABORATORY	x	Novato Sanitary District Laboratory	
OCEANSIDE WPCP LABORATORY DIVISION	x	Oceanside - City Water Utilities Department Lab	
OJAI VALLEY SANITATION DISTRICT	x	Ojai Valley Sanitation District	
OLIVEHURST PUBLIC UTILITY DISTRICT	x	Olivehurst Public Utility District Lab	
ORANGE COUNTY PUBLIC HEALTH LABORATORY	x	Orange County Public Health Laboratory	
ORANGE COUNTY SANITATION DISTRICT	x	Orange County Sanitation District	
ORANGE COUNTY WATER DISTRICT MAIN LABORATORY	x	Orange County Water District	

ORO LOMA SANITARY DISTRICT	x	Oro Loma Sanitary District	
	x	Sewerage Commission - Oroville Region	
OROVILLE - WYANDOTTE IRRIGATION DISTRICT			**Closed**
OTAY WATER DISTRICT	x	Otay Water District	
PADRE DAM MWD, WASTEWATER TREATMENT PLANT	x	Padre Dam WD	
PALMDALE WATER DISTRICT	x	Palmdale Water District	
PALO ALTO REGIONAL WATER QUALITY CONTROL LAB	x	Palo Alto Regional Water Quality Control Lab	
PELICAN BAY STATE PRISON	x	Pelican Bay State Prison Water Quality Lab	
	x	Petaluma City Water Quality Laboratory	
PINOLE-HERCULES WATER POLLUTION CONTROL PLANT	x	Pinole-Hercules Water Pollution Control Plant	
PITTSBURG MUNICIPAL WATER WORKS	x	Pittsburg Municipal Water Treatment Plant Lab	
PLACER COUNTY PUBLIC HEALTH LABORATORY	x	Placer County Public Health Laboratory	
PLEASANTON CITY WATER DEPARTMENT LABORATORY	x	Pleasanton City Water Laboratory	
		Plumas County Environmental Health	
		Point Loma Wastewater Chemistry Lab	
	x	Porterville City Laboratory	
		Quartz Valley Indian Reservation Microbiology Lab	
	x	Quincy Community Services District	
	x	Rancho Murieta Community Services District Lab	
		Robinson Ranch Water Reclamation Plant	
RIVERBANK army AMMUNITION PLANT	x		**Closed**

RIVERSIDE COUNTY SERVICE AREA #51			**Closed**
	x	Rio Vista, North West Wastewater Treatment Plant	
	x	Rodeo Sanitary District	
	x	R.E. Badger Filtration Plant	
SACRAMENTO COUNTY PUBLIC HEALTH LAB.	x	Sacramento County Public Health Laboratory	
SACRAMENTO COUNTY REGIONAL PLANT CONTROL LAB	x	Sacramento Regional County Sanitation District	
SAN BERNARDINO COUNTY PUBLIC HEALTH LABORATORY	x	San Bernardino County Public Health Laboratory	
	x	San Clemente - City Water Quality Laboratory	
SAN DIEGO COUNTY PUBLIC HEALTH LABORATORY	x	San Diego County Public Health Laboratory	
SAN ELIJO JOINT POWERS AUTHORITY LABORATORY	x	San Elijo Joint Powers Authority Laboratory	
SAN FRANCISCO AIRPORT - FACILITES O&M	x	Mel Leong Treatment Plant Laboratory	
SAN FRANCISCO DEPT. OF PUBLIC HEALTH	x	San Francisco Public Utilities Commission WQD	
SAN FRANCISCO WATER DEPARTMENT	x	San Francisco Puc - Moccasin Laboratory	
SAN FRANCISCO WATER DEPARTMENT	x	San Francisco Puc - Sunol Valley WTP Lab	
	x	Searles Valley Minerals Regulatory Compliance Lab	
TREASURE ISLAND SEWAGE TREATMENT PLANT LAB	x	SFPUC WQD Treasure Island WPCP Lab	
SOUTH EAST REGIONAL RECLAMATION AUTHORITY	x	Southeast Laboratory San Francisco PUC	
SAN JOAQUIN COUNTY PUBLIC HEALTH LABORATORY	x	San Joaquin County Public Health Laboratory	
SAN JOSE/SANTA CLARA WATER POLLUTION CONTROL PLANT	x	San Jose/ Santa Clara WPCP Laboratory	
SAN LEANDRO WATER POLLUTION CONTROL PLANT LAB	x	San Leandro Water Pollution Plant	

SAN LORENZO VALLEY SURFACE WATER TREATMENT	x	San Lorenzo Valley Water District	
SAN LUIS OBISPO COUNTY PUBLIC HEALTH LABORATORY	x	San Luis Obispo County Public Health Dept. Lab	
SAN MATEO COUNTY PUBLIC HEALTH LABORATORY	x	San Mateo County Public Health Lab	
	x	San Simeon Wastewater Treatment Plant Lab	
	x	Santa Rosa Water Reclamation Facility Lab	
SANITARY DISTRICT NO. 5 OF MARIN COUNTY	x	Sanitary District No. 5 of Marin County	
SANTA BARBARA COUNTY HEALTH CARE SERVICES			**Closed**
SANTA BARBARA COUNTY PUBLIC HEALTH LABORATORY	x	Santa Barbara County Public Health Lab	
SANTA CLARA VALLEY WATER DISTRICT LABORATORY	x	Santa Clara Valley Water District	
		Santa Cruz County Sanitation District Lab	
	x	Santa Cruz County - Health Services Agency Lab	
SANTA CRUZ MUNICIPAL UTILITIES	x	Santa Cruz - City Water Lab	
SANTA CRUZ PUBLIC WORKS DEPARTMENT	x	Santa Cruz - City - WWTF Lab	
SANTA MARGARITA WATER DISTRICT	x	Santa Margarita Water District	
SAUSALITO - MARIN CITY SANITARY DISTRICT	x	Sausalito - Marin City Sanitary District	
SANTA CLARA COUNTY PUBLIC HEALTH LABORATORY	x	Santa Clara County Public Health Lab	
SCOTTS VALLEY WATER DISTRICT			**Closed**
SELMA-KINGSBURG-FOWLER COUNTY SAN. DIST.	x	Selma-Kingsburg-Fowler County Sanitation District	
SEWER AUTHORITY MID-COASTSIDE	x	Sewer Authority Mid-Coastside	
SEWERAGE AGENCY OF SOUTHERN MARIN	x	Sewerage Agency of Southern Marin	
SEWERAGE COMMISSION - OROVILLE REGION	x	Sewerage Commission - Oroville Region	
	x	Shasta County Public	

		Health Laboratory	
SIMI VALLEY COUNTY SANITATION LABORATORY	x	Simi Valley - City Water Quality Control Laboratory	
		Soledad City Water Quality Control Laboratory	
SONOMA COUNTY PUBLIC HEALTH LABORATORY	x	Sonoma County Public Health Laboratory	
SONOMA COUNTY WATER AGENCY	x	Sonoma County Water Agency - Russian River	
SONOMA COUNTY WATER AGENCY	x	Sonoma County Water Agency - Sonoma	
SOUTH BAYSIDE SYSTEM AUTHORITY	x	South Bay Wastewater Chemistry Laboratory	
SOUTH SAN LUIS OBISPO COUNTY SANITATION DISTRICT	x	South San Luis Obispo County Sanitation District	
SOUTH TAHOE PUBLIC UTILITY DISTRICT	x	South Tahoe Public Utility District	
SOUTH SAN JOAQUIN IRRIGATION DISTRICT	x	Nick C. Degroot Water Quality Laboratory	
	x	SPAWAR Systems Center San Diego Bioassay Lab	
	x	SRCSD Environmental Laboratory	
STANISLAUS COUNTY PUBLIC HEALTH LABORATORY	x	Stanislaus County Public Health Laboratory	
STOCKTON EAST WATER DISTRICT	x	Waidhofer Water Treatment Plant - Stockton	
ST. HELENA HOSPITAL CLINICAL LABORATORY	x	St. Helena Hospital Clinical Laboratory	
SUSANVILLE CONSOLIDATED SANITARY DISTRICT	x	Susanville Sanitary District WWTP Lab	
SWEETWATER AUTHORITY	x	Sweetwater Authority	
TAHOE TRUCKEE SANITATION AGENCY	x	Tahoe-Truckee Sanitation Agency	
THE WATER LABORATORY OF SOUTH LAKE TAHOE			**Closed**
THREE VALLEYS MUNICIPAL WATER DISTRICT	x	Three Valleys Municipal Water District	
	x	Travis AFB - Water Laboratory	
TULARE COUNTY HEALTH SERVICES LABORATORIES	x	Tulare County Public Health Laboratory	

TULELAKE WATER LABORATORY			**Closed**
		Twin Oaks Valley Water Treatment Plant	
		UC Davis Aquatic Toxicology Laboratory	
	x	Ukiah Wastewater Treatment Plant	
UNION SANITARY DISTRICT		Union Sanitary District	
	x	United States Mint San Francisco Lab	
	x	UC Davis, Wastewater Treatment Plant Lab	
US ARMY HEADQUARTERS - CA MEDICAL DETACHMENT			**Closed**
US NATIONAL PARK SVC. YOSEMITE WW FACILITY	x	US NPS - Yosemite - El Portal	
US NAVY, ENVIRONMENTAL ANALYSIS FACILITY			**Closed**
US NAVY, ENVIRONMENTAL CHEMISTRY LABORATORY			**Closed**
U.S. ARMY CENTER FOR HEALTH PROMOTION			**Closed**
U.S. MARINE CORPS LOGISTICS BASE			**Closed**
VALLEJO SANITATION AND FLOOD CONTROL DISTRICT	x	Vallejo Sanitation & Flood Control District	
		Valley Center Municipal Water District Lab	
VALLEY SANITARY DISTRICT	x	Valley Sanitary District	
	x	Vandenberg AFB - Aerospace Fuels Laboratory	
VENTURA COUNTY HEALTH DEPARTMENT	x	Ventura County Health Department Laboratory	
VENTURA COUNTY WATERWORKS DISTRICTS	x	Ventura County Waterworks Districts	
VENTURA REGIONAL SANITATION DISTRICT LABORATORY			**Closed**
	x	Veolia - City of Rialto Waste Water Treatment Plant	

	x	Victor Valley Wastewater Reclamation Authority Lab	
VISTA IRRIGATION DISTRICT	x	Vista Irrigation District	
WAWONA WATER AND WASTEWATER LABORATORY	x	Wawona Water And Wastewater Laboratory	
WEAVERVILLE SANITARY DISTRICT	x	Weaverville Sanitary District	
WEST BASIN WATER QUALITY LABORATORY	x	West Basin Water Quality Laboratory	
	x	Walnut Valley Water District	
WESTERN MUNICIPAL WATER DISTRICT			
	x	West County Wastewater District	**Closed**
WILLITS WATER QUALITY CONTROL PLANT	x	Willits City Laboratory	
YOLO COUNTY HEALTH DEPARTMENT LABORATORY	x	Yolo County Health Department	
YUBA CITY WATER/WASTEWATER LABORATORY	x	Yuba City Water/wastewater Laboratory	
YUCAIPA VALLEY WATER DISTRICT			**Closed**
ZONE 7 WATER AGENCY	x	Zone 7 Water Quality Laboratory	
285	**310**	**343**	**35**

Figure 3

Government Run Laboratories Accredited by New York ELAP in 2001 and 2016

Laboratory	County	City	2001	2016
Adams (V) Wastewater Treatment Plant	Jefferson	Adams	x	
AMHERST (T) WPCF	Erie	Ahmerst		x
AKRON (V) SEWAGE PLANT	Erie	Akron	x	x
NYSDOT Materials Bureau	Albany	Albany	x	
NYSDOH ORG ANALYTICAL CHEMISTRY LAB	Albany	Albany	x	x
NYSDOH INORGANIC & NUCLEAR CHEMISTRY	Albany	Albany	x	x
WADSWORTH CENTER BIODEFENSE LABORATORY	Albany	Albany		x
NYSDOH ENVIRONMENTAL BIOLOGY LABORATORY	Albany	Albany	x	x
Albany County Sewer District	Albany	Albany	x	x
ALBANY WATER QUALITY LAB	Albany	Albany		x
ALBION POLLUTION CONTROL FAC	Orleans	Albion	x	x
Alden Public Works Lab	Erie	Alden	x	
Erie County Sewer District #4 & #5	Erie	Alden	x	
AMSTERDAM WATER TREATMENT	Montomery	Amsterdam	x	x
Erie County Sewer District #2	Erie	Angola	x	

Arcade Waste Treatment Plant	Wyoming	Arcade	x	
Bowery Bay Water Pollution Control Plant	Queens	Astoria	x	
GREATER ATLANTIC BEACH WATER RECLAMATION DISTRICT	Nasaau	Atlantic Beach	x	x
Attica Sewage Treatment Plant	Wyoming	Attica	x	
AUBURN WPCP (LAB)	Cayuga	Auburn	x	x
Auburn Memorial Hospital Lab	Cayuga	Auburn	x	
AUBURN WATER TREATMENT PLANT	Cayuga	Auburn		x
Somerset-Barker Sewage Trmt pl	Somerset	Baker	x	
BATAVIA WASTEWATER TREATMENT FACILITY	Genesee	Batavia	x	x
BATAVIA (C) WATER TREATMENT PLANT	Genesee	Batavia	x	x
Beacon (C) STP	Duchess	Beacon	x	
Bear Mountain Regional Lab	Rockland	Bear Mountain	x	
BINGHAMTON WATER TREATMENT PLANT	Broome	Binghamton	x	x
Blasdell (V)	Erie	Blasdell	x	
Bloomfield (V)	Ontario	Bloomfield	x	
Rensselaer Darrin Fresh Water Institute	Warren	Bolton Landing	x	
Boonville (V) Sewage Treatment Plant	Oneida	Boonville	x	
SUNY Brockport	Monroe	Brockport	x	

Hunts Point WPCP	Bronx	Bronx	x	
Coney Island Plant (WPCP)-NYCDEP	Kings	Brooklyn	x	
Owls Head Plant (WPCP) - NYCDEP	Kings	Brooklyn	x	
26th Ward WPCP - NYCDEP	Kings	Brooklyn	x	
Owl's Head Process Lab-WPCP-NYCDEP	Kings	Brooklyn	x	
Red Hook Water Poll Plant-NYCDEP	Kings	Brooklyn	x	
Red Hook Water Pollution Control Lab	Kings	Brooklyn	x	
NEWTOWN CREEK PROCESS CONTROL LAB	Kings	Brooklyn	x	x
Keyspan Energy System Lab/Brooklyn	Kings	Brooklyn	x	
NEWTOWN CREEK MICROBIOLOGY LABORATORY	Kings	Brooklyn	x	x
KINGS COUNTY HOSPITAL CENTER/PATHOLOGY DEPT	Kings	Brooklyn	x	x
ERIE COUNTY PUBLIC HEALTH LABORATORY	Erie	Buffalo	x	x
BUFFALO SEWER AUTHORITY	Erie	Buffalo	x	x
Erie County Southtowns Agency	Erie	Buffalo	x	x
BUFFALO WATER AUTHORITY FILTRATION PLANT LABORATORY	Erie	Buffalo	x	x
Canajoharie Wastewater Trmt Pl	Montomery	Canajoharie	x	

CANANDAIGUA WASTEWATER TREATMENT FACILITY	Ontario	Canandaigua	x	
CANANDAIGUA WATER TREATMENT PLANT	Ontario	Canandaigua	x	
Canastota Water Pollution Control Plant	Madison	Canastota	x	
CANISTEO WASTEWATER PLANT LAB	Steuben	Canisteo	x	x
Canton Water Filtration Plant	St. Lawrence	Canton	x	
Carthage - W Carthage Water Poll Control	Jefferson	Carthage	x	
Castleton Wastewater Lab	Rensselaer	Castleton	x	
Catskill (Village)	Greene	Catskill	x	
Cedarhurst Water Poll Cntl Plt	Nassau	Cedarhurst	x	
SOUTH & CENTER CHAUTAUQUA LAKE SEWER DISTRICT	Chautauqua	Celoron	x	x
Chateaugay (V)	Franklin	Chateaugay	x	
MAIN PUMP STATION NO 5	Erie	Cheektowaga	x	x
Tallman Island WPCP	Queens	College Point	x	
Cornwall (T) Sewer Department	Orange	Cornwall	x	
DIST WATER QUAL OPS NYCDEP DISTRIBUTION LAB	Queens	Corona	x	x
NYCDEP BEC - ASBESTOS LABORATORY	Queens	Corona		x
LEFRAK CITY PRIORITY POLLUTANTS LAB-NYCDEP	Queens	Corona	x	x

NORTHERN WESTCHESTER JOINT WATER WORKS	Westchester	Cortlandt Manor		x
Cortland Wastewater Treatment Plant	Courtland	Courtland	x	
STURGEON POINT WATER TREATMENT PLANT	Erie	Derby		x
Dolgeville Wastewater Treatment Plant	Fulton	Dolgeville	x	
DUNKIRK WWTP LAB	Chautauqua	Dunkirk	x	x
Dunkirk Steam Station	Chautauqua	Dunkirk	x	
DUNKIRK WATER TREATMENT PLANT LAB	Chautauqua	Dunkirk	x	x
Ellicottville (V)	Cattaraugus	Ellicottville	x	
ELMA (T) SEWER DISTRICTS-ROLLING GREEN LANE	Erie	Elma	x	x
ELMIRA WATER BOARD	Chemung	Elmira	x	x
Chemung Co Sewer District #1	Chemung	Elmira	x	x
CHEMUNG CO ELMIRA SD	Chemung	Elmira	x	
ENDICOTT WASTEWATER TREATMENT	Broome	Endicott	x	x
BROOME-TIOGA BOCES	Broome	Endicott		x
Endicott Water Lab	Broome	Endicott	x	
Jamestown WWTP Lab	Chautauqua	Falconer	x	
NYCDEP HAZARDOUS MATERIALS LAB	Queens	Flushing	x	x
Fonda Fultonville Wastewater	Montomery	Fonda	x	

Washington Co Sewer Dist #2 STP	Washington	Fort Edward	x	x
FULTON SEWAGE TREATMENT PLANT	Oswego	Fulton	x	x
GASPORT SD#1 STP	Niagra	Gasport	x	x
Marsh Creek WWTP	Seneca	Geneva	x	
WATERLOO WATER TREATMENT PLANT LAB	Seneca	Geneva		x
Glens Falls WWTP	Warren	Glen Falls	x	
Finch Pruyn Waste Treatment	Warren	Glen Falls	x	
NMPC Albany Steam Results Lab	Albany	Glenmont	x	
Gloversville Water Works	Fulton	Glowersville	x	
Gouverneur WWTF	St. Lawrence	Gouverneur	x	
GRAHAMSVILLE LABORATORY	Sullivan	Grahamsville	x	x
GRAND ISLAND WASTEWATER PLANT	Erie	Grand Island	x	x
Granville Sewage Treatment Plant	Washington	Granville	x	
Great Neck Wtr Poll Cntrl Dist	Nassau	Great Neck	x	
Nott Road Wastewater Treatment	Albany	Guilderland	x	
Brockport (V) Water Plant	Monroe	Hamlin	x	
Orange Co Dept of Environ Facilities & Srvcs	Orange	Harriman	x	
SUFFOLK CO PUBLIC & ENV HEALTH LAB	Suffolk	Hauppauge	x	x
SUFFOLK COUNTY WATER AUTHORITY LABORATORY	Suffolk	Hauppauge	x	

HAWTHORNE LABORATORY	Westchester	Hawthorne		x
ROCHESTER (C) WATER BUREAU	Lingston	Hemlock	x	x
NASSAU COUNTY DEPT OF HEALTH	Nasaau	Hempstead	x	x
Herkimer Water Pollution Control Plant	Herkimer	Herkimer	x	
Erie County Sewer District #3	Erie	Holland	x	
Holley Water Pollution Control	Orleans	Holley	x	
Honeoye Falls WWTP	Monroe	Honeoye Falls	x	
Hoosick Falls (V) WWTP	Rensselaer	Hoosick falls	x	
HORNELL (C) WATER TREATMENT PLANT	Steuben	Hornell	x	x
Hornell Water Poll Control Plt	Steuben	Hornell	x	x
CITY OF ITHACA WATER TREATMENT PLANT LABORATORY	Tompkins	Ithaca		x
Cornell University Filtration Plant	Tompkins	Ithaca	x	
ITHACA AREA WASTE WATER TREATMENT FACILITY	Tompkins	Ithaca	x	x
SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER	Tompkins	Ithaca	x	x
Jamaica Water Pollution Control Plant	Queens	Jamaica	x	
GLOVERSVILLE-JOHNSTOWN JWTF	Fulton	Johnstown	x	x
JORDAN (V) WATER POLLUTION CONTROL PLANT	Onondaga	Jordan	x	x
KINGSTON WATER DEPARTMENT LAB	Ulster	Kingston		x

KINGSTON LABORATORY - NYC DEP	Ulster	Kingston		x
Kingston Universal Community Laboratory	Ulster	Kingston	x	
Erie Co Water Auth - D F Kane W Q Lab	Erie	Lackawanna	x	
Erie County Sewer District #6	Erie	Lackawanna	x	
LAKE PLACID VILLAGE	Essex	Lake Placid	x	x
Lakeville Sewage Treatment Plt	Lingston	Lakewille	x	
MOHAWK VIEW LABORATORY	Albany	Latham	x	x
MOHAWK VIEW WATER POLLUTION CONTROL PLAN	Albany	Latham	x	x
Lawrence (V) Water Pollution Control Inc	Nassau	Lawrence	x	
Leroy Sewage Treatment Plant	Genesee	Leroy	x	
TOWN OF LEWISTON	Niagra	Lewiston	x	x
Liberty (V)	Sullivan	Liberty	x	
LITTLE FALLS WASTEWATER TREATMENT PLANT	Herkimer	Little Falls		x
BELGRAVE WATER POL CNTRL DIST	Queens	Little Neck	x	x
ONONDAGA COUNTY DEPT WATER ENV PROTECTIO	Onondaga	Liverpool		x
LOCKPORT WASTEWATER TREATMENT PLANT	Niagra	Lockport	x	x
LOCKPORT WATER TREATMENT PLANT LAB	Niagra	Lockport	x	x
OTISCO WATER TRMT PLANT	Onondaga	Marcellus	x	x

MARION (T) WASTEWATER TREATMENT PLANT	Wayne	Marion	x	x
CHAUTAUQUA COUNTY HEALTH	Chautauqua	Mayville	x	x
SARATOGA CO SEWER DIS #1	Saratoga	Mechanicville	x	x
MIDDLEPORT TREATMENT FACILITY	Niagra	Middleport	x	x
MINETTO NY LABORATORY	Oswego	Minetto	x	x
Herkimer Co Wastewater Plant	Herkimer	Mohawk	x	
MONTICELLO (V)	Sullivan	Montecello	x	x
North River Laboratory	New York	New York	x	
NYC DOHMH PUBLIC HEALTH LAB - BIOTHREAT RESPONSE LAB	New York	New York	x	x
WARDS ISLAND PROCESS CONTROL LAB	New York	New York	x	x
North River WPCP	New York	New York	x	
CCNY ENVIRONMENTAL LAB	New York	New York	x	x
ENVIRONMENTAL SCIENCES AND TOXICOLOGY LABORATORY	New York	New York		x
Newark (V) Wastewater Treatment Plant	Erie	Newark	x	
Chadwick Lane Filter Plant	Orange	Newburgh	x	
Niagara Falls Wastewater Laboratory	Niagra	Niagara Falls	x	
NIAGARA COUNTY WATER DISTRICT	Niagra	Niagra Falls	x	x
Niagara Falls Drinking Water Lab	Niagra	Niagra Falls	x	
OCC Niagara Works Laboratory	Niagra	Niagra Falls	x	

NIAGARA FALLS WATER BOARD WASTEWATER LABORATORY	Niagra	Niagra Falls	x	x
Northport Sewage Treatment Plant	Suffolk	Northport	x	
Quest International (Norwich) WWTP	Chenango	Norwich	x	
NORWICH WATER SYSTEM	Chenango	Norwich	x	x
OGDENSBURG WATER POLLUTION CTR PT	St. Lawrence	Ogdensburg	x	x
Newfane Wastewater Trmt Plt	Niagra	Olcott	x	
TOWN OF OYSTER BAY ENVIRONMENTAL LABORATORY	Nasaau	Old Bethpage	x	x
CATTARAUGUS COUNTY LABORATORY	Cattaraugus	Olean	x	x
OLEAN (C) WATER TREATMENT PLANT	Cattaraugus	Olean	x	x
OLEAN WASTEWATER TREATMENT PLT	Cattaraugus	Olean	x	x
ONEIDA (C) WATER POLLUTION CONTROL PLANT	Madison	Oneida	x	x
ONEONTA (C) WATER LABORATORY	Otsego	Oneonta	x	x
Oneonta WWTP	Otsego	Oneonta	x	
ONTARIO WATER UTILITIES DEPT	Wayne	Ontario	x	x
ROCKLAND COUNTY SEWER DISTRICT #1 LABORA	Rockland	Orangeburg	x	x
TOWN OF ORANGETOWN, SEWER DEPARTMENT	Rockland	Orangeburg	x	x

OSSINING (V) WATER DEPT LAB-INDIAN BROOK	Westchester	Ossining	x	x
OSWEGO WATER TREATMENT PLANT LAB	Oswego	Oswego	x	x
METROPOLITAN WATER BOARD	Oswego	Oswego		x
CONSOLIDATED LABORATORIES	Oswego	Oswego		x
Oswego Harbor Power	Oswego	Oswego	x	
Owego (V) Police Dept/sewer Dept	Tioga	Owego	x	
Lederle Waste Treatment Lab	Rockland	Pearl River	x	
Campfield Reservoir & Filter Plant	Westchester	Peekskill	x	x
Crawford (T) Water and Sewer	Orange	Pine Bush	x	
PLATTSBURGH WPCP LABORATORY	Clinton	Plattsburgh		x
HEMPSTEAD DEPT CONSERVATION & WATERWAY	Nasaau	Point Lookout	x	x
Port Chester WWTP	Westchester	Port Chester	x	
PORT WASHINGTON WPCD	Nasaau	Port Washington	x	x
Port Washington WPCD	St. Lawrence	Potsdam	x	
Poughkeepsie (C) Water Works	Dutchess	Poughkeepsie	x	
NYSDEC Div of Environ Remed Lab	Rensselaer	Rensselaer	x	
East Greenbush Sewage Trmt Plant	Rensselaer	Rensselaer	x	
MONROE COUNTY ENVIRONMENTAL LABORATORY	Monroe	Rochester	x	x
MONROE COUNTY WATER	Monroe	Rochester	x	x

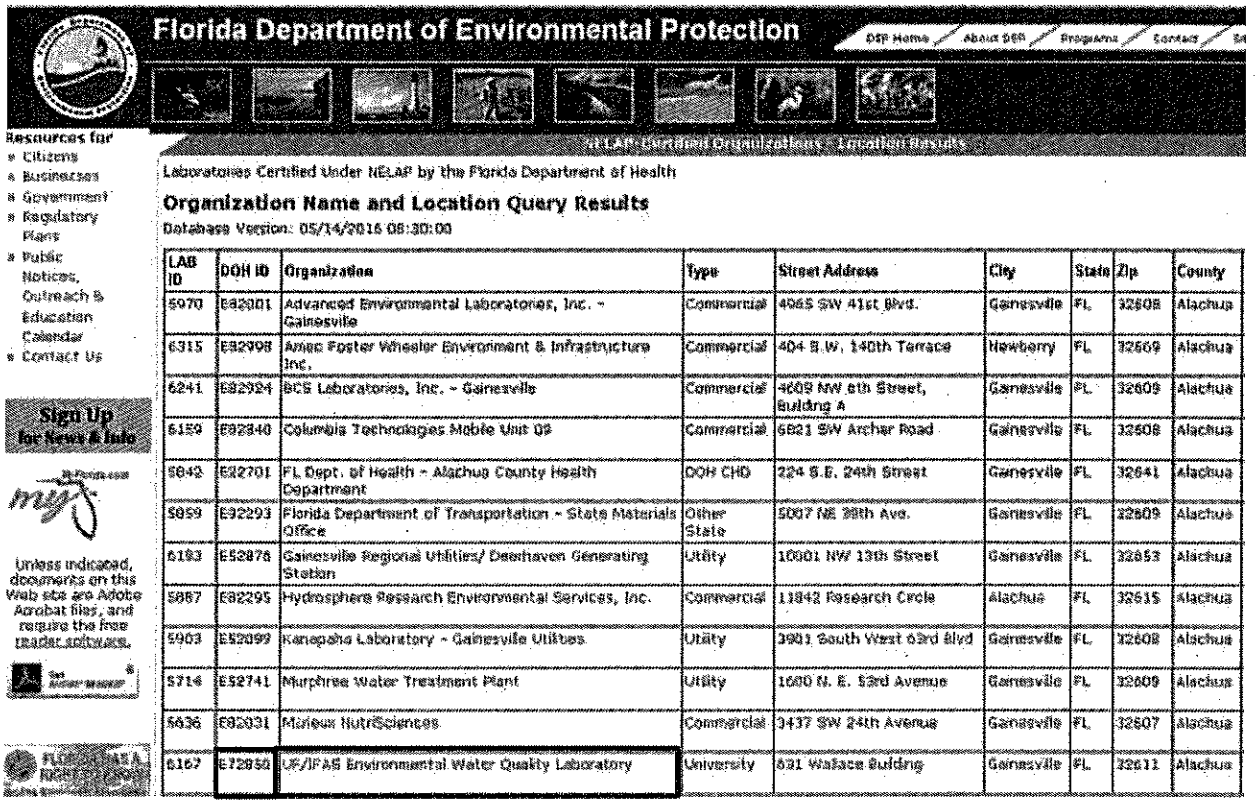
AUTHORITY WTP				
Rockaway WPCP - NYCDEP	Queens	Rockaway Park	x	
Salamanca Wastewater Treatment Plant	Cattaraugus	Salamanca	x	
SCHENECTADY (C) WATER LABORATORY	Schenectady	Schenectady	x	x
Tom Whitbeck - Water Laboratory	Otsego	Schenevus	x	
Sherman (V) Wastewater Treatment Plant	Chautauqua	Sherman	x	
Ben Nesin Laboratory - NYC DEP	Ulster	Shokan	x	
Yorktown Cons Water & Storage Dist.#1	Westchester	Shrub Oak	x	
Fallsburg (T) Env Lab	Sullivan	South Fallsburg	x	x
Spencerport Wastewater Trmt	Monroe	Spencerport	x	
OAKWOOD BEACH PROCESS CONTROL LAB	Richmond	Staten Island	x	
INTERSTATE ENVIRONMENTAL COMMISSION	Richmond	Staten Island	x	x
Port Richmond Water Pollution Ctrl Plant	Richmond	Staten Island	x	
Oakwood Beach WPCP	Richmond	Staten Island	x	x
STONY POINT (T)	Rockland	Stoney Point	x	x
St Johnsville Waste Trmt Plant	Montomery	St. Johnsville	x	
SUFFERN VILLAGE WATER SUPPLY	Rockland	Suffern	x	x
Onondaga County D & S	Onondaga	Syracuse	x	

ONONDAGA CO WATER AUTHORITY	Onondaga	Syracuse	x	x
Upstate Freshwater Institute	Onondaga	Syracuse	x	
Oneida Water Treatment Plant	Oneida	Taberg	x	
TONAWANDA (T) WATER TREATMENT PLANT	Erie	Tonawanda	x	x
Tonawanda (T) Wastewater	Erie	Tonawanda	x	x
VAN DE WATER TREATMENT PLANT	Erie	Tonawanda	x	x
NORTH TONAWANDA WWTP	Niagra	Tonawanda	x	x
Tonawanda (C) Water Plant	Erie	Tonawanda	x	
RENSSELAER CO. SEWER DISTRICT #1	Rensselaer	Troy	x	x
USGS NEW YORK WATER SCIENCE CENTER	Rensselaer	Troy		x
TROY (C) PUBLIC UTILITY DEPARTMENT	Rensselaer	Troy	x	x
Brookhaven National Lab - SEP Division	Suffolk	Upton	x	x
ONEIDA COUNTY WATER POLLUTION CONTROL	Oneida	Utica	x	x
Upper Mohawk Valley Reg Water Board	Oneida	Utica	x	
MOHAWK VALLEY WATER AUTHORITY	Oneida	Utica		x
Kensico Lab NYC DEP- B W S DWQC	Westchester	Valhalla	x	
WESTCHESTER COUNTY	Westchester	Valhalla	x	x

BIODEFENSE LABORATORY				
BINGHAMTON-JOHNSON (C) STP	Broome	Vestal	x	x
WALWORTH WATER POLLUTION CONTROL FAC	Wayne	Walworth	x	x
Cedar Creek Wpc Plant	Nassau	Wantagh	x	
Cedar Creek Special Projects Lab	Nassau	Wantagh	x	
WARDS ISLAND PRIORITY POLLUTANTS LAB- NYCDEP	New York	Wards Island	x	x
ALBION (V) WATER PLANT	Orleans	Waterport		x
WATERTOWN (C) WATER PLANT	Jefferson	Watertown	x	x
WATERTOWN POLLUTION CONTROL PLANT LABORA	Jefferson	Watertown	x	x
Webster (T) Wastewater Treatment Plant	Monroe	Webster	x	x
MCWA WEBSTER WTP	Monroe	Webster		x
WELLSVILLE WASTEWATER TRMT PLANT	Allegany	Wellsville	x	x
SCDPW SANITATION DIVISION LABORATORY	Suffolk	West Babylon		x
JOINT REGIONAL SEWERAGE BOARD	Rockland	West Haverstraw	x	x
West Hempstead Water District	Nassau	West Hempstead	x	
US Military Academy Target Hill WWTP	Orange	West Point	x	
US Military Academy Lusk Water Plant	Orange	West Point	x	

ERIE 1 BOCES	Erie	West Seneca		x
NIAGARA CO SEWER DISTRICT #1	Niagra	Wheatfield	x	x
Whitehall (V) Wastewater Treatment Facility	Washington	Whitehall	x	
Yonkers Joint Treatment Plant	Westchester	Yonkers	x	
Bureau of Water Sanitation Lab	Westchester	Yonkers	x	
NYC DEP Croton Laboratory	Westchester	Yorktown	x	
Yorktown Medical Laboratory Inc	Westchester	Yorktown Heights	x	
248			221	121

Alachua County



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NELAP-Certified Organizations - Location Results

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- Businesses
- Government
- Regulatory Plans
- Public Notices, Outreach & Education Calendar
- Contact Us

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Laboratories Certified Under NELAP by the Florida Department of Health

Organization Name and Location Query Results

Database Version: 05/14/2016 08:30:00

LAB ID	DOH ID	Organization	Type	Street Address	City	State	Zip	County
5970	E82001	Advanced Environmental Laboratories, Inc. - Gainesville	Commercial	4065 SW 41st Blvd.	Gainesville	FL	32608	Alachua
6315	E82908	Amec Foster Wheeler Environment & Infrastructure Inc.	Commercial	404 S.W. 140th Terrace	Newberry	FL	32669	Alachua
6241	E82924	BCS Laboratories, Inc. - Gainesville	Commercial	4609 NW 6th Street, Building A	Gainesville	FL	32609	Alachua
6159	E82840	Columbia Technologies Mobile Unit 09	Commercial	6821 SW Archer Road	Gainesville	FL	32608	Alachua
5842	E82701	FL Dept. of Health - Alachua County Health Department	DOH CHD	224 S.E. 24th Street	Gainesville	FL	32641	Alachua
5859	E82293	Florida Department of Transportation - State Materials Office	Other State	5007 NE 39th Ave.	Gainesville	FL	32609	Alachua
6183	E82878	Gainesville Regional Utilities/ Deerhaven Generating Station	Utility	10001 NW 13th Street	Gainesville	FL	32653	Alachua
5867	E82295	Hydrosphere Research Environmental Services, Inc.	Commercial	11842 Research Circle	Alachua	FL	32615	Alachua
5903	E82099	Kanapaha Laboratory - Gainesville Utilities	Utility	3901 South West 63rd Blvd	Gainesville	FL	32608	Alachua
5714	E82741	Murphree Water Treatment Plant	Utility	1600 N. E. 53rd Avenue	Gainesville	FL	32609	Alachua
5636	E82031	Mosaic NutriSciences	Commercial	3437 SW 24th Avenue	Gainesville	FL	32607	Alachua
6167	E72950	UF/IFAS Environmental Water Quality Laboratory	University	631 Wallace Building	Gainesville	FL	32611	Alachua

NELAP-Certified Laboratories

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Transaction History Query Results

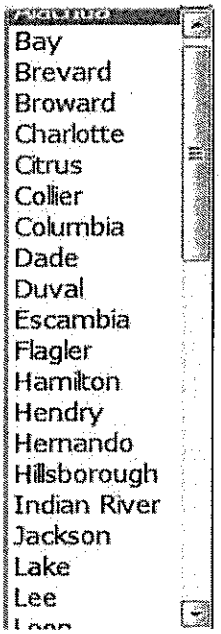
Database Version: 05/14/2016 08:30:00

Organization: UF-IFAS Wetland Biogeochemistry Laboratory

DOH ID: E72949

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	EPA 350.1	Ammonia as N	12/20/2004	From: Applied To: Pending	NELAP NELAP	FL FL	1/6/2005
Non-Potable Water	EPA 350.1	Ammonia as N	1/28/2005	From: No Certification To: Applied	None NELAP	FL	1/6/2005
Non-Potable Water	EPA 350.1	Ammonia as N	10/12/2005	From: Applied To: Accredited	NELAP NELAP	FL FL	10/16/2005
Non-Potable Water	EPA 350.1	Ammonia as N	7/1/2007	From: Accredited To: Inactive	NELAP NELAP	FL FL	7/19/2007
Non-Potable Water	SM 4500-NH3 G	Ammonia as N	4/25/2008	From: No Certification To: Applied	None NELAP	FL	5/1/2008
Non-Potable Water	SM 4500-NH3 G	Ammonia as N	8/8/2008	From: Applied To: Accredited	NELAP NELAP	FL FL	9/16/2008
Non-Potable Water	SM 4500-NH3 G	Ammonia as N	3/9/2015	From: Accredited To: Suspended	NELAP NELAP	FL FL	3/9/2015
Non-Potable Water	SM 4500-NH3 G	Ammonia as N	7/1/2015	From: Suspended To: Inactive	NELAP NELAP	FL FL	7/1/2015
Solids	EPA 350.1	Ammonia as N	12/20/2004	From: No Certification To: Applied	None NELAP	FL	1/6/2005
Solids	EPA 350.1	Ammonia as N	8/29/2006	From: Applied To: Withdrawn	NELAP NELAP	FL FL	9/27/2006

Bradford County



There are no Laboratories Currently Accredited in Bradford County

NELAP-Certified Laboratories

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Transaction History Query Results

Database Version: 01/23/2016 8:18:22 AM

Organization:	**FL Dept. of Health - Bradford County Health Department**
DOH ID:	**E22794**

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Drinking Water	SM 9223 B	Total coliforms ~and~ E. coli	10/14/2002	From: Accredited To: Accredited	STATE NELAP	FL	1/17/2003
Drinking Water	SM 9223 B	Total coliforms ~and~ E. coli	5/31/2005	From: Accredited To: Relinquished	NELAP NELAP	FL FL	6/13/2005

top

Last updated: April 23, 2015

Brevard County

Florida Department of Environmental Protection

Resources for
- Citizens
- Businesses
- Government
- Regulatory Plans
- Public Notices, Outreach & Education Calendar
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Organization Name and Location Query Results

Database Version: 05/14/2016 08:36:50

LAB ID	DOH ID	Organization	Type	Street Address	City	State	Zip	County
6251	E83934	Analytical Laboratories of Florida - Mobile Lab #1	Commercial	2265 Leeside Court	Merritt Island	FL	32952	Brevard
6402	E83106O	Analytical Laboratories of Florida, Inc. - Mobile Lab #2	Commercial	2265 Leeside Court	Merritt Island	FL	32952	Brevard
5674	E53268	Brevard County Water Resources Laboratory	Utility	3630 North Courtenay Pkwy	Merritt Island	FL	32953	Brevard
5694	E53449	City of Cape Canaveral Water Reclamation Plant	Utility	601 Thunn Blvd.	Cape Canaveral	FL	32920	Brevard
5688	E53263	City of Cocoa Beach Water Reclamation Laboratory	Utility	1800 West Minuteman Causeway	Cocoa Beach	FL	32931	Brevard
5730	E53332	City of Melbourne Wastewater Treatment Compliance Monitoring Laboratory	Utility	835 North Apollo Blvd	Melbourne	FL	32935	Brevard
5729	E53730	City of Melbourne Water Treatment Plant Laboratory	Utility	6055 Lake Washington Road	Melbourne	FL	32934	Brevard
5743	E53491	City of Palm Bay Utilities Corporation	Utility	1000 Troutman Blvd.	Palm Bay	FL	32905	Brevard
5768	E53121	City of Titusville - Laboratory Services	Utility	4800 Deep Marsh Road	Titusville	FL	32780	Brevard
5801	E83930	QB Environmental Laboratories, Inc.	Commercial	365 Gus Hipp Blvd.	Rockledge	FL	32955	Brevard
5907	E83478	Kennedy Space Center Environmental Microbiology Laboratory	Federal	Building M7-355, Room 2272	Kennedy Space Center	FL	32899	Brevard
6040	E83465	US Air Force - Cape Canaveral AFS Environmental Laboratory	Federal	5471 Scrub Jay Rd.	CCAFS	FL	32925	Brevard
5901	E53262	Water Quality Assurance Laboratory	Utility	351 Shearer Blvd.	Cocoa	FL	32922	Brevard

Transaction History Query Results

There are no transaction entries for this FOA.
Please note that the AAMS Database was created in March 2003.
No transaction history entries exist prior to this date.
If you have further questions regarding this FOA
please contact the DOH Lab Certification Program (904-791-1539).

Brevard County Utilities

Mims Water Treatment Plant

Transaction History Query Results

Transaction History Query Results

Broward County

Florida Department of Environmental Protection

Laboratories Certified Under NELAP by the Florida Department of Health

Organization Name and Location Query Results

Database Version: [illegible]

LAB ID	DOH ID	Organization	Type	Street Address	City	State	Zip	County
[illegible]	[illegible]	Advanced Environmental Laboratories, Inc. - Miami	Commercial	10200 USA Today Way	Miramar	FL	33025	Broward
[illegible]	[illegible]	Broward County Environmental Protection and Growth Management Department	Environmental - Pollution Control	[illegible] College Avenue	Davie	FL	33314	Broward
[illegible]	[illegible]	Broward County Water and Wastewater Services Laboratory	Utility	2401 North Powerline Road	Pompano Beach	FL	[illegible]	Broward
[illegible]	[illegible]	City of Deerfield Beach Water Treatment Plant	Utility	290 Goolsby Boulevard, Bldg. B	Deerfield Beach	FL	33442	Broward
[illegible]	[illegible]	City of Fort Lauderdale Environmental Laboratory	Utility	949 NW 38th Street	Ft. Lauderdale	FL	33309	Broward
[illegible]	[illegible]	City of Hollywood Utilities Laboratory	Utility	[illegible] North [illegible] Avenue	Hollywood	FL	[illegible]	Broward
[illegible]	[illegible]	City of Margate Utilities	Utility	[illegible]	Margate	FL	[illegible]	Broward
[illegible]	[illegible]	City of Miramar West Water Treatment Plant	Utility	[illegible] South Flamingo Road	Miramar	FL	33027	Broward
[illegible]	[illegible]	City of Plantation Utilities Department Laboratory	Utility	[illegible] NW 11th Place	Plantation	FL	[illegible]	Broward
[illegible]	[illegible]	City of Pompano Beach Utilities Laboratory	Utility	[illegible] N.E. 5th Avenue	Pompano Beach	FL	[illegible]	Broward
[illegible]	[illegible]	City of Sunrise Utilities Laboratory	Utility	777 Sawgrass Corporate Parkway	Sunrise	FL	[illegible]	Broward
[illegible]	[illegible]	E. M. Analytical, Inc	Commercial	[illegible] North Ocean Drive	Dania	FL	[illegible]	Broward
[illegible]	[illegible]	Environmental Reagent Service	[illegible]	[illegible] SW [illegible] Avenue	Hollywood	FL	[illegible]	Broward
[illegible]	[illegible]	Florida-Spectrum Environmental Services, Inc.	Commercial	1460 West McNab Road	Ft Lauderdale	FL	33309	Broward
[illegible]	[illegible]	Pace Analytical Services-South Florida	Commercial	[illegible] Park Central N	Pompano Beach	FL	[illegible]	Broward
[illegible]	[illegible]	Professional Environmental Testing and Consulting, LLC	Commercial	[illegible] SW [illegible] Street, [illegible]	Davie	FL	33314	Broward

NELAP Certified Laboratories

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Transaction History Query Results

Organization	Coral Springs Improvement District Laboratory
DOH ID	[illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

NELAP Certified Laboratories

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Transaction History Query Results

Organization	City of Hallandale Beach Water Treatment Plant
DOH ID	[illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

NELAP Certified Laboratories

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Transaction History Query Results

Organization	City of Lauderhill Water Treatment Plant
DOH ID	[illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

NELAP Certified Laboratories

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Transaction History Query Results

Organization	City of North Lauderdale Water Plant
DOH ID	[illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

NELAP Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Organization	City of Pembroke Pines [illegible]
DOH ID	[illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Transaction History Query Results

[illegible]

Charlotte County

Laboratories Certified Under NELAP by the Florida Department of Health

Organization Name and Location Query Results

Database Version: 05/14/2016 09:30:00

LAB ID	DOH ID	Organization	Type	Street Address	City	State	Zip	County	Phone
5663	E85086	Benchmark EA South	Commercial	1001 Corporate Avenue, Suite 102	North Port	FL	34289	Charlotte	(941) 625-3137
1682	E54438	Charlotte County Utilities - East Port Laboratory	Utility	3100 Loveland Blvd	Port Charlotte	FL	33980	Charlotte	(941) 764-4300
5753	E55724	City of Punta Gorda Water Treatment Plant	Utility	25100 Washington Loop Road	Punta Gorda	FL	33982	Charlotte	(941) 639-2057

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

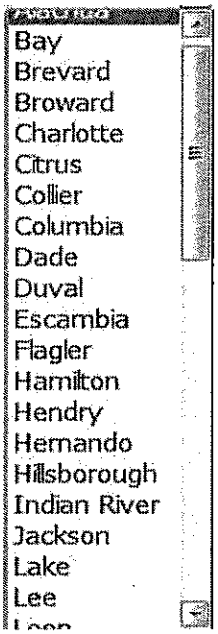
Transaction History Query Results

Database Version: 05/14/2016 08:30:00

Organization:	FL DEP - South District Laboratory
DOH ID:	E34830

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	SM 5210 B	Biochemical oxygen demand	1/22/2003	From: No Certification To: Applied	None NELAP	FL	12/20/2002
Non-Potable Water	SM 5210 B	Biochemical oxygen demand	7/1/2003	From: Applied To: Accredited	NELAP NELAP	FL FL	8/13/2003
Non-Potable Water	SM 5210 B	Biochemical oxygen demand	5/12/2008	From: Accredited To: Relinquished	NELAP NELAP	FL FL	5/12/2008

Chatham County



There are no Laboratories Currently Accredited in Chatham County

NELAP-Certified Laboratories

Laboratories no longer certfied Under NELAP by the Florida Department of Health

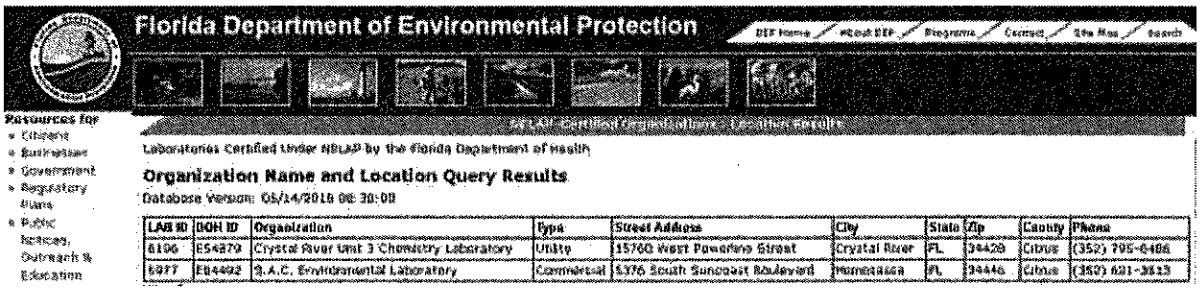
Transaction History Query Results

Database Version: 05/14/2016 08:30:00

Organization:	Chatham County Health Department Laboratory
DOH ID:	E37980

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	EPA 1600	Enterococci	12/19/2005	From: Applied To: Applied	NELAP NELAP	FL FL	12/21/2005
Non-Potable Water	EPA 1600	Enterococci	12/19/2005	From: No Certification To: Accredited	None NELAP	FL	12/21/2005
Non-Potable Water	EPA 1600	Enterococci	12/21/2005	From: Accredited To: Applied	NELAP NELAP	FL FL	12/21/2005
Non-Potable Water	EPA 1600	Enterococci	4/24/2006	From: Accredited To: Accredited	NELAP NELAP	FL FL	5/19/2006
Non-Potable Water	EPA 1600	Enterococci	4/24/2006	From: Applied To: Accredited	NELAP NELAP	FL FL	5/19/2006
Non-Potable Water	EPA 1600	Enterococci	11/1/2012	From: Accredited To: Relinquished	NELAP NELAP	FL FL	11/7/2012

Citrus County



LAB ID	DOH ID	Organization	Type	Street Address	City	State	Zip	County	Phone
6106	E54879	Crystal River Unit 3 Chemistry Laboratory	Utility	15760 West Powerline Street	Crystal River	FL	34428	Citrus	(352) 795-6486
6977	E84402	S.A.C. Environmental Laboratory	Commercial	5376 South Suncoast Boulevard	Homosassa	FL	34446	Citrus	(352) 621-3818

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version: 05/14/2016 08:30:00

Organization:	FL Dept. of Health - Citrus County Health Department
DOH ID:	E84768

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Drinking Water	SM 9223 B	Escherichia coli	1/1/A0003	From: No Certification To: Accredited	Most NELAP	FL	5/19/2008
Drinking Water	SM 9223 B	Escherichia coli	12/7/2010	From: Accredited To: Suspended	NELAP NELAP	FL FL	12/7/2010
Drinking Water	SM 9223 B	Escherichia coli	1/13/2011	From: Suspended To: Accredited	NELAP NELAP	FL FL	1/14/2011
Drinking Water	SM 9223 B	Escherichia coli	7/1/2012	From: Inactive To: Inactive	NELAP NELAP	FL FL	7/17/2012
Drinking Water	SM 9223 B	Escherichia coli	7/1/2012	From: Inactive To: Inactive	NELAP NELAP	FL FL	7/17/2012
Drinking Water	SM 9223 B	Escherichia coli	7/1/2012	From: Accredited To: Inactive	NELAP NELAP	FL FL	7/16/2012

Dade County

Florida Department of Environmental Protection

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Laboratories Certified Under NELAP by the Florida Department of Health

Organization Name and Location Query Results

Database Version: 06/14/2016 09:10:00

LAB ID	DOH ID	Organization	Type	Street Address	City	State	Zip	County
5849	E56153	All State Engineering and Testing Consultants, Inc.	Commercial	9600 NW 79th Ave	Hialeah Gardens	FL	33016	Dade
5736	E56733	City of North Miami Beach Quality Control Laboratory	Utility	19150 N. W. 8th Avenue	Miami	FL	33169	Dade
5737	E56722	City of North Miami Water Treatment Plant	Utility	12098 N. W. 11th Avenue	North Miami	FL	33168	Dade
5797	E46126	Dade County Department of Regulatory and Economic Resource	Environmental - Pollution Control	211 West Flagler Street	Miami	FL	33130	Dade
5817	E86705	EMSL Analytical, Inc. - FL	Commercial	Skylake Executive Industrial Park	North Miami Beach	FL	33179	Dade
6336	E761019	Environmental Analysis Research Lab (EARL) at the Southeast Environmental Research Center (SERC)	University	Florida International Univ.	Miami	FL	33181	Dade
5836	E16833	FL Department of Health - Miami Branch Laboratory	DOH LAB	1325 N.W. 14th Avenue, Building 7	Miami	FL	33125	Dade
5862	E56717	Florida Keys Aqueduct Authority - Florida City Treatment Plant	Utility	S. W. 192nd Avenue ~and~ 364th Street	Florida City	FL	33034	Dade
5927	E56835	Miami-Dade Central District Wastewater Treatment Plant Laboratory	Utility	Virginia Key Beach Road	Virginia Key-Miami	FL	33149	Dade
5928	E56512	Miami-Dade North District Wastewater Treatment Plant Laboratory	Utility	2575 Northeast 151st Street	North Miami Beach	FL	33160	Dade
5929	E56227	Miami-Dade South District Wastewater Treatment Plant Laboratory	Utility	8950 S.W. 232nd Street	Miami	FL	33190	Dade
5931	E56738	Miami-Dade Water & Sewer Authority - Orr Water Treatment Plant Laboratory	Utility	6800 S. W. 87th Avenue	Miami	FL	33173	Dade
5930	E56731	Miami-Dade Water & Sewer Department - John E. Preston Water Quality Laboratory	Utility	1100 West Second Avenue - 2nd Floor	Hialeah	FL	33010	Dade
6247	E76930	Southeast Environmental Research Center (SERC)	University	FIU (Florida International University)	Miami	FL	33199	Dade
6277	E76860	Southeast Environmental Research Center Mercury Laboratory Florida International University	University	VH 315, FIU SERC	Miami	FL	33199	Dade

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version: 06/14/2016 09:10:00

Organization:	Miami-Dade County Public Schools, Department of Materials Testing and Evaluation
DOH ID:	E86766

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Drinking Water	SM 3113B	Lead	[illegible]	From: Accredited To: Accredited	[illegible] NELAP	FL	[illegible]
Drinking Water	SM 3113B	Lead	[illegible]	From: Accredited To: [illegible]	NELAP NELAP	FL FL	[illegible]

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version: [illegible]

Organization:	NOAA - AOML [illegible] Laboratory
DOH ID:	[illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] NELAP	FL	[illegible]
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	NELAP NELAP	FL FL	[illegible]
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	NELAP NELAP	FL FL	[illegible]
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	NELAP NELAP	FL FL	[illegible]
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	NELAP NELAP	FL FL	[illegible]

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

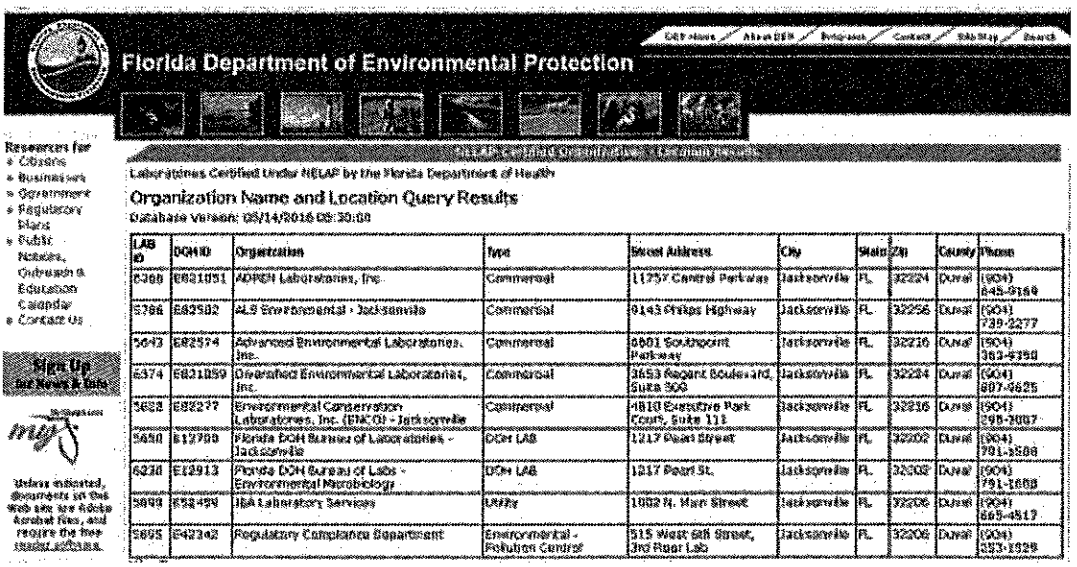
Transaction History Query Results

Database Version: 06/14/2016 09:10:00

Organization:	UF-TREC Soil and Water Laboratory
DOH ID:	[illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	EPA 350.1	Ammonia as N	[illegible]	From: [illegible] To: [illegible]	NELAP NELAP	FL FL	[illegible]
Non-Potable Water	EPA 350.1	Ammonia as N	[illegible]	From: Accredited To: [illegible]	NELAP NELAP	FL FL	[illegible]
Non-Potable Water	EPA 350.1	Ammonia as N	[illegible]	From: [illegible] To: [illegible]	NELAP NELAP	FL FL	[illegible]

Duval County



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Laboratories Certified Under NELAP by the Florida Department of Health

Organization Name and Location Query Results

Database Version: 05/14/2016 05:30:00

LAB ID	DOH ID	Organization	Type	Street Address	City	State	Zip	County	Phone
0360	E821051	ADPEN Laboratories, Inc.	Commercial	11757 Central Parkway	Jacksonville	FL	32224	Duval	(904) 645-9168
5786	E82502	ALS Environmental - Jacksonville	Commercial	9143 Philips Highway	Jacksonville	FL	32256	Duval	(904) 739-2277
5043	E82574	Advanced Environmental Laboratories, Inc.	Commercial	8001 Southpoint Parkway	Jacksonville	FL	32216	Duval	(904) 363-9350
6374	E821059	Diversified Environmental Laboratories, Inc.	Commercial	3653 Regent Boulevard, Suite 500	Jacksonville	FL	32224	Duval	(904) 997-4825
5628	E82277	Environmental Conservation Laboratories, Inc. (ENCO) - Jacksonville	Commercial	4810 Executive Park Court, Suite 111	Jacksonville	FL	32216	Duval	(904) 296-3007
5650	E17709	Florida DOH Bureau of Laboratories - Jacksonville	DOH LAB	1217 Pearl Street	Jacksonville	FL	32202	Duval	(904) 791-1588
6230	E12913	Florida DOH Bureau of Labs - Environmental Microbiology	DOH LAB	1217 Pearl St.	Jacksonville	FL	32202	Duval	(904) 791-1588
5899	E82499	JEA Laboratory Services	Utility	1002 N. Main Street	Jacksonville	FL	32206	Duval	(904) 665-4512
5895	E82342	Regulatory Compliance Department	Environmental - Pollution Control	515 West 6th Street, 3rd Floor Lab	Jacksonville	FL	32206	Duval	(904) 633-1928

NELAP-Certified Laboratories

Laboratories no longer certfied Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version: 05/14/2016 05:30:00

Organization: FL DEP - NE District

DOH ID: E83090

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	SM 9222 B	Fecal coliform	1/1/2003	From: To Certification To: Revoked	From: NELAP	FL	1/14/2003
Non-Potable Water	SM 9222 B	Fecal coliform	7/1/2003	From: Revoked To: Withdrawn	From: NELAP To: NELAP	FL To: FL	9/26/2003
Non-Potable Water	SM 9222 B	Fecal coliform	7/1/2003	From: Withdrawn To: Pending	From: NELAP To: NELAP	FL To: FL	7/31/2003
Non-Potable Water	SM 9222 B	Fecal coliform	1/1/2003	From: Pending To: Revoked	From: NELAP To: NELAP	FL To: FL	1/14/2003
Non-Potable Water	SM 9222 B	Fecal coliform	1/1/2004	From: Revoked To: Pending	From: NELAP To: NELAP	FL To: FL	1/16/2004
Non-Potable Water	SM 9222 B	Fecal coliform	1/1/2005	From: Accredited To: Revoked	From: NELAP To: NELAP	FL To: FL	1/31/2005

NELAP-Certified Laboratories

Laboratories no longer certfied Under NELAP by the Florida Department of Health

Transaction History Query Results

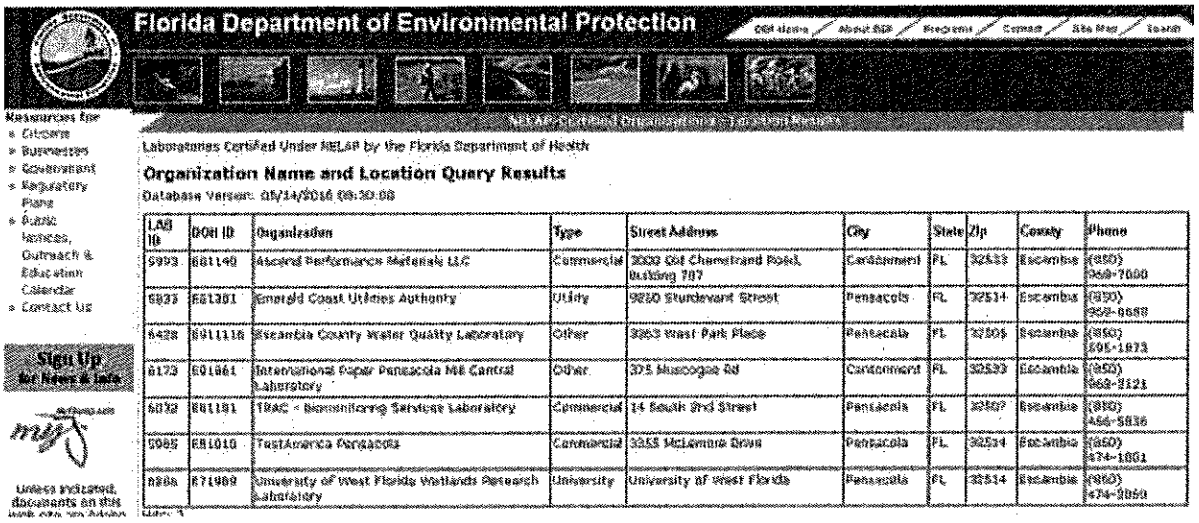
There are no transaction entries for this FOA.
Please note that the AAMS Database was created in March 2002.
No transaction history entries exist prior to this date.
If you have further questions regarding this FOA
please contact the DOH Lab Certification Program (904.791-1599).

top

City of Atlantic Beach Wastewater Treatment Plant

Last updated: April 23, 2015

Escambia County



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Laboratories Certified Under NELAP by the Florida Department of Health

Organization Name and Location Query Results

Database Version: 05/14/2016 08:30:08

LAB ID	DOH ID	Organization	Type	Street Address	City	State	Zip	County	Phone
5993	E81140	Ascend Performance Materials LLC	Commercial	3000 Old Chemstrand Road, Building 707	Cantonment	FL	32533	Escambia	(850) 968-7000
5823	E81301	Emerald Coast Utilities Authority	Utility	9250 Sturdevant Street	Pensacola	FL	32514	Escambia	(850) 969-6668
5428	E81116	Escambia County Water Quality Laboratory	Other	3363 West Park Place	Pensacola	FL	32505	Escambia	(850) 595-1873
6173	E81861	International Paper Pensacola Mill Central Laboratory	Other	375 Muscogee Rd	Cantonment	FL	32533	Escambia	(850) 968-3121
6032	E81191	TRAC - Biomonitoring Services Laboratory	Commercial	14 South 3rd Street	Pensacola	FL	32507	Escambia	(850) 466-5836
6065	E81010	TestAmerica Pensacola	Commercial	3355 McLemore Drive	Pensacola	FL	32514	Escambia	(850) 474-1001
5808	E71989	University of West Florida Wetlands Research Laboratory	University	University of West Florida	Pensacola	FL	32514	Escambia	(850) 474-3050

NELAP Certified Laboratories

Laboratories accredited Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version: 05/14/2016 08:30:08

Organization:	FL Department of Health - Pensacola Branch Laboratory
DOH ID:	E81001

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Drinking Water							
Drinking Water							
Drinking Water							
Drinking Water							
Drinking Water							
Drinking Water							

NELAP Certified Laboratories

Laboratories accredited Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version: 05/14/2016 08:30:08

Organization:	FL DEP - NW District Chemistry Laboratory
DOH ID:	E81007

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water							
Non-Potable Water							
Non-Potable Water							

NELAP Certified Laboratories

Laboratories accredited Under NELAP by the Florida Department of Health

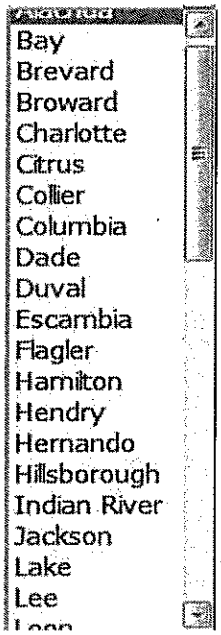
Transaction History Query Results

Database Version: 05/14/2016 08:30:08

Organization:	University of West Florida Wetlands Research Laboratory
DOH ID:	E71176

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water							

Gulf County



There are no Laboratories Currently Accredited in Gulf County

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

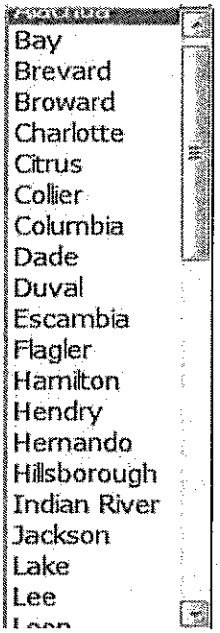
Transaction History Query Results

Database Version: 05/14/2016 08:30:00

Organization:	City of Port St. Joe Wastewater Treatment Plant Laboratory
DOH ID:	E51289

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Drinking Water	SM 9221 E	Fecal coliforms	7/1/2003	From: Accredited To: Inactive	NELAP NELAP	FL FL	7/24/2003
Non-Potable Water	SM 9221 C	Fecal coliforms	7/1/2003	From: Accredited To: Inactive	NELAP NELAP	FL FL	7/24/2003

Hardee County



There are no Laboratories Currently Accredited in Hardee County

NELAP-Certified Laboratories

Laboratories no longer certfied Under NELAP by the Florida Department of Health

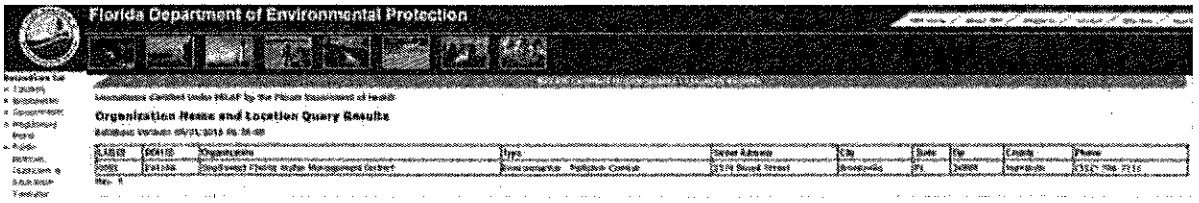
Transaction History Query Results

Database Version: 05/14/2016 08:30:00

Organization:	City of Wauchula Wastewater Treatment Plant
DOH ID:	E54466

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	SM 5210 B	Carbonaceous BOD (CBOD)	7/1/2003	From: Accredited To: Inactive	STATE STATE		6/26/2003

Hernando County



NELAP-Certified Laboratories

Laboratories no longer certfied Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version: 05/14/2016 08:30:00

Organization:	**FL Dept. of Health - Hernando County Health Department**
DOH ID:	**E24704**

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Drinking Water	SM 9221 E	Fecal coliforms	4/17/2002	From: Accredited To: Accredited	STATE NELAP	FL	2/27/2003
Drinking Water	SM 9221 E	Fecal coliforms	10/1/2003	From: Accredited To: Relinquished	NELAP NELAP	FL FL	9/30/2003

Highland County

[illegible]
Bay
Brevard
Broward
Charlotte
Citrus
Collier
Columbia
Dade
Duval
Escambia
Flagler
Hamilton
Hendry
Hernando
Hillsborough
Indian River
Jackson
Lake
Lee

There are no Laboratories Currently Accredited in Highland County

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version: [illegible]

Organization:	City of Sebring Wastewater Treatment Plant
DOH ID:	[illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	[illegible]	Carbonaceous BOD (CBOD)	[illegible]	From: Accredited To: [illegible]	STATE STATE		[illegible]

NELAP Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version: [illegible]

Organization:	FL Dept. of Health - Highlands County Health Department
DOH ID:	[illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	[illegible]	[illegible]	[illegible]	From: No Certification To: [illegible]	None NELAP	FL	[illegible]
Non-Potable Water	[illegible]	[illegible]	[illegible]	From: [illegible] To: [illegible]	NELAP NELAP	FL FL	[illegible]
Non-Potable Water	[illegible]	[illegible]	[illegible]	From: [illegible] To: [illegible]	NELAP NELAP	FL FL	[illegible]
Non-Potable Water	[illegible]	[illegible]	[illegible]	From: [illegible] To: [illegible]	NELAP NELAP	FL FL	[illegible]
Non-Potable Water	[illegible]	[illegible]	[illegible]	From: [illegible] To: [illegible]	NELAP NELAP	FL FL	[illegible]
Non-Potable Water	[illegible]	[illegible]	[illegible]	From: [illegible] To: [illegible]	NELAP NELAP	FL FL	[illegible]

Hillsborough County

Florida Department of Environmental Protection

NELAP-Certified Organizations - Location Results

Laboratories Certified Under NELAP by the Florida Department of Health

Organization Name and Location Query Results

Database Version: 05/14/2016 08:30:00

LAB ID	DOH ID	Organization	Type	Street Address	City	State	Zip	County	Phone
5645	E84589	Advanced Environmental Laboratories, Inc. - Tampa	Commercial	9610 Princess Palm Avenue	Tampa	FL	33619	Hillsborough	(813) 630-9616
5765	E54737	City of Tampa Water Quality Laboratory	Utility	7125 North 30th Street	Tampa	FL	33610	Hillsborough	(813) 231-5233
6300	E241077	FDOH-Hillsborough Environmental Laboratory	DOH CHD	1105 E. Kennedy Blvd.	Tampa	FL	33602	Hillsborough	(813) 307-8099
5840	E14157	FL Department of Health - Tampa Branch Laboratory	DOH LAB	3602 Spectrum Boulevard	Tampa	FL	33612	Hillsborough	(813) 974-8000
5884	E44057	Hillsborough County Environmental Protection Commission	Environmental - Pollution Control	3629 Queen Palm Dr.	Tampa	FL	33619	Hillsborough	(813) 627-2600
5885	E44104	Hillsborough County Public Utilities Department SSOC Environmental Laboratory	Environmental - Pollution Control	332 N. Falkenburg Road	Tampa	FL	33619	Hillsborough	(813) 264-3887
6409	E541097	Hillsborough County Public Utilities Dept Environmental Lab (Central)	Utility	9460 E. Columbus Dr.	Tampa	FL	33619	Hillsborough	(813) 272-5977
5886	E54208	Howard F. Curren Advanced Wastewater Treatment Plant Analytical Laboratory	Utility	2545 Guy Verger Blvd.	Tampa	FL	33605	Hillsborough	(813) 247-3451
5909	E84025	KHL Environmental Testing	Commercial	3202 N. Florida Ave.	Tampa	FL	33603	Hillsborough	(813) 229-8879
5925	E84747	Meryman Environmental, Inc	Commercial	10408 Bloomingdale Avenue	Riverview	FL	33569	Hillsborough	(813) 626-3551
6131	E84809	Pace Analytical Services - Tampa	Commercial	5460 Beaumont Center Blvd., Suite 520	Tampa	FL	33634	Hillsborough	(813) 881-9401
5072	E84207	Spectrum Analytical, Inc. Florida Division	Commercial	6405 Benjamin Road, Suite A	Tampa	FL	33634	Hillsborough	(813) 888-9507
6022	E54872	Tampa Electric Company Laboratory Services	Utility	5012 Causeway Boulevard	Tampa	FL	33619	Hillsborough	(813) 630-7370
6016	E84282	TestAmerica - Tampa	Commercial	6712 Benjamin Road - Suite 100	Tampa	FL	33634	Hillsborough	(813) 885-7427

Hits: 14

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version: 05/14/2016 08:30:00

Organization:	FL DEP - SW District Chemistry Laboratory
DOH ID:	E34886

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	SM 9222 D	Fecal coliform	[illegible]	From: No Certification To: Applied	None NELAP	FL	[illegible]
Non-Potable Water	SM 9222 D	Fecal coliform	[illegible]	From: Applied To: Accredited	NELAP NELAP	FL FL	[illegible]
Non-Potable Water	SM 9222 D	Fecal coliform	[illegible]	From: Accredited To: Suspended	NELAP NELAP	FL FL	[illegible]
Non-Potable Water	SM 9222 D	Fecal coliform	[illegible]	From: Suspended To: Accredited	NELAP NELAP	FL FL	[illegible]
Non-Potable Water	SM 9222 D	Fecal coliform	[illegible]	From: Accredited To: Relinquished	NELAP NELAP	FL FL	[illegible]

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version: 05/14/2016 08:30:00

Organization:	Plant City Water Pollution Control Laboratory
DOH ID:	[illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	SM 4500-Cl G	Residual free chlorine	[illegible]	From: Accredited To: Relinquished	STATE STATE	*	[illegible]

Indian River County

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- Citizens
- Businesses
- Government
- Regulatory Plans
- Public Notices, Outreach &

Laboratories Certified Under NELAP by the Florida Department of Health

Organization Name and Location Query Results

Database Version: 05/14/2016 00:30:00

LAB ID	DOH ID	Organization	Type	Street Address	City	State	Zip	County
5649	E39759	FL Dept. of Health - Indian River County Health Department	DOH CHD	1900 27th Street	Vero Beach	FL	32960	Indian River

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version: 05/14/2016 00:30:00

Organization:	City of Vero Beach Environmental Control Laboratory
DOH ID:	E53303

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Drinking Water	SM 4500 F-C	Fluoride	3/10/2003	From: Accredited To: Accredited	STATE NELAP	FL	4/11/2003
Drinking Water	SM 4500 F-C	Fluoride	7/9/2012	From: Accredited To: Inactive	NELAP NELAP	FL FL	7/17/2012
Drinking Water	SM 4500 F-C	Fluoride	7/9/2012	From: Inactive To: Inactive	NELAP NELAP	FL FL	7/17/2012
Non-Potable Water	SM 4500 F-C	Fluoride	3/10/2003	From: Accredited To: Accredited	STATE NELAP	FL	4/11/2003
Non-Potable Water	SM 4500 F-C	Fluoride	7/9/2012	From: Inactive To: Inactive	NELAP NELAP	FL FL	7/17/2012
Non-Potable Water	SM 4500 F-C	Fluoride	7/9/2012	From: Accredited To: Inactive	NELAP NELAP	FL FL	7/17/2012

NELAP Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version: 05/23/2016 8:16:22 AM

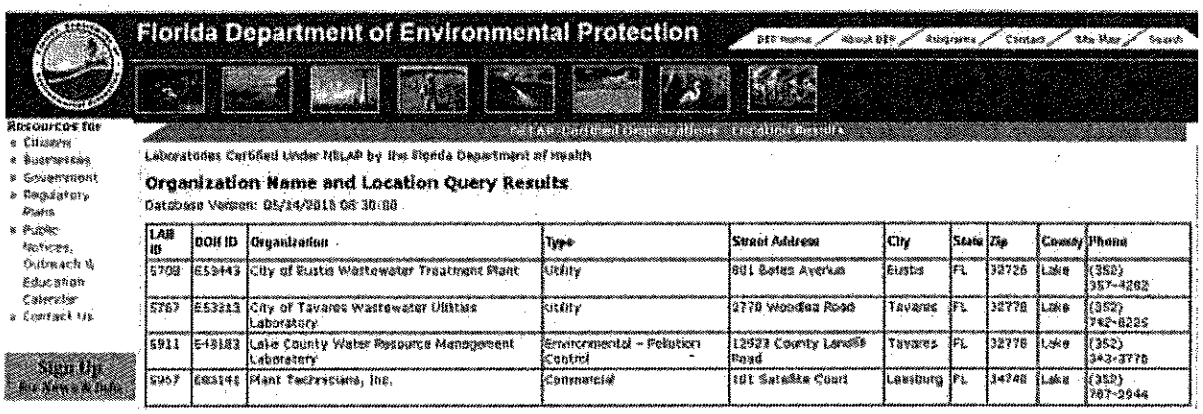
Organization:	City Of Vero Beach, Wastewater Treatment Plant
DOH ID:	E43877

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	SM 2540 D	Residue-nonfilterable (TSS)	10/18/2002	From: No Certification To: Applied	Name NELAP	FL	10/28/2002
Non-Potable Water	SM 2540 D	Residue-nonfilterable (TSS)	4/1/2003	From: Accredited To: Accredited	NELAP NELAP	FL FL	5/23/2003
Non-Potable Water	SM 2540 D	Residue-nonfilterable (TSS)	5/23/2003	From: Applied To: Accredited	NELAP NELAP	FL FL	5/23/2003
Non-Potable Water	SM 2540 D	Residue-nonfilterable (TSS)	8/3/2005	From: Accredited To: Reaccredited	NELAP NELAP	FL FL	8/3/2005

Top

Last updated: April 23, 2015

Lake County



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- Citizens
- Businesses
- Government
- Regulatory Rules
- Public Notices, Outreach & Education Calendar
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Laboratories Certified Under NELAP by the Florida Department of Health

Organization Name and Location Query Results

Database Version: 05/14/2016 03:30:00

LAB ID	DOH ID	Organization	Type	Street Address	City	State	Zip	County	Phone
5708	E59443	City of Eustis Wastewater Treatment Plant	Utility	801 Bates Avenue	Eustis	FL	32726	Lake	(352) 357-4262
5767	E53313	City of Tavares Wastewater Utilities Laboratory	Utility	2770 Woodlea Road	Tavares	FL	32778	Lake	(352) 742-6225
5911	E49183	Lake County Water Resource Management Laboratory	Environmental - Pollution Control	12923 County Landfill Road	Tavares	FL	32778	Lake	(352) 343-3776
5957	E83145	Plant Technicians, Inc.	Commercial	101 Satellite Court	Leesburg	FL	34748	Lake	(352) 787-2944

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version: 05/14/2016 03:30:00

Organization:	City of Leesburg Wastewater Utility Laboratory
DOH ID:	E53306

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	SM 5210 B	Carbonaceous BOD (CBOD)	2/28/2014	From: Accredited To: Relinquished	NELAP NELAP	FL FL	3/5/2014

Lee County

Florida Department of Environmental Protection

NELAP Certified Organizations - Location Results

Laboratories Certified Under NELAP by the Florida Department of Health

Organization Name and Location Query Results

Database Version: 05/14/2016 08:30:00

LAB ID	DOH ID	Organization	Type	Street Address	City	State	Zip	County
5695	E55261	City of Cape Coral ERD Laboratory	Utility	3310 SW 20th Avenue	Cape Coral	FL	33914	Lee
5712	E55617	City of Fort Myers, Central Laboratory	Utility	1618 Matthew Drive	Ft. Myers	FL	33907	Lee
5851	E25706	FL Dept. of Health - Lee County Health Department	DOH CHD	60 Danley Drive, Unit 1	Ft. Myers	FL	33907	Lee
5916	E45049	Lee County Environmental Laboratory	Environmental - Pollution Control	60-2 Danley Drive	Ft. Myers	FL	33907	Lee
6262	E25945	Lee County Hyacinth Control District Water Quality Laboratory	Environmental - Pollution Control	15191 Homestead Road	Lehigh Acres	FL	33971	Lee
5981	E85457	Sanders Laboratories, Inc. (South)	Commercial	10090 Bavaria Road	Ft. Myers	FL	33913	Lee

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version: [illegible]

Organization:	Bonita Springs Utilities WWF Lab
DOH ID:	[illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version: [illegible]

Organization:	Florida State Hospital Wastewater Treatment Plant
DOH ID:	[illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

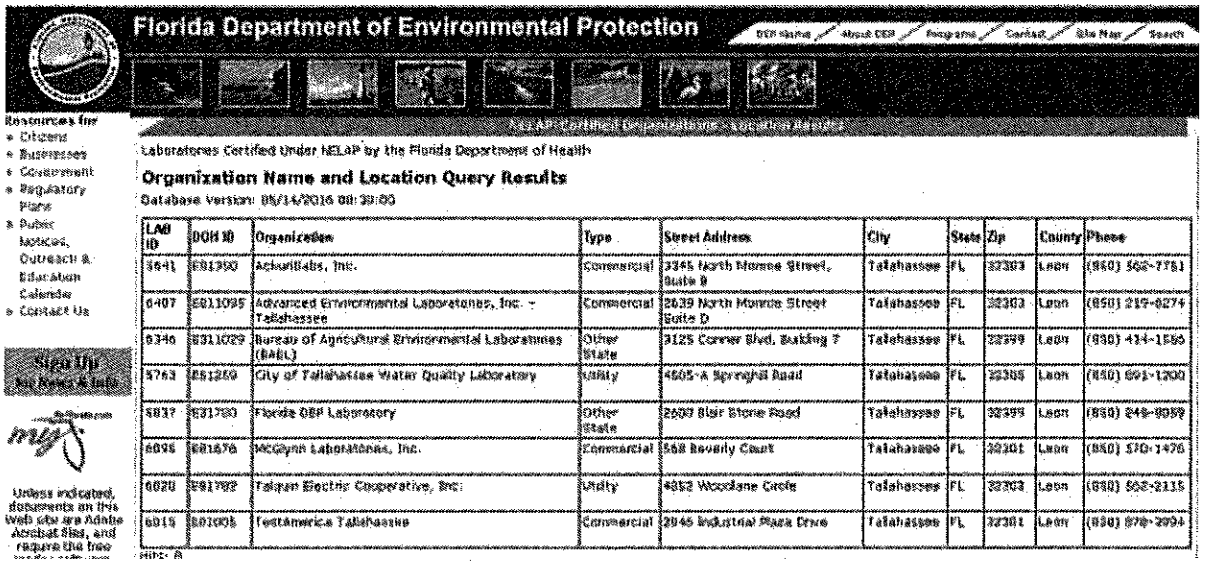
Transaction History Query Results

Database Version: [illegible]

Organization:	Fiesta Village Wastewater Laboratory
DOH ID:	[illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Leon County



Florida Department of Environmental Protection

Laboratories Certified Under NELAP by the Florida Department of Health

Organization Name and Location Query Results

Database Version: 05/14/2016 08:30:00

LAB ID	DOH ID	Organization	Type	Street Address	City	State	Zip	County	Phone
3641	E81390	ActuriLabs, Inc.	Commercial	2345 North Monroe Street, Suite B	Tallahassee	FL	32303	Leon	(850) 562-7781
0407	E811095	Advanced Environmental Laboratories, Inc. - Tallahassee	Commercial	2639 North Monroe Street Suite D	Tallahassee	FL	32303	Leon	(850) 219-6274
0346	E811029	Bureau of Agricultural Environmental Laboratories (BAEL)	Other State	3125 Conner Blvd, Building 7	Tallahassee	FL	32399	Leon	(850) 414-1500
5763	E81260	City of Tallahassee Water Quality Laboratory	Utility	4505-A Springhill Road	Tallahassee	FL	32305	Leon	(850) 891-1200
5837	E81783	Florida DEP Laboratory	Other State	2600 Blair Stone Road	Tallahassee	FL	32399	Leon	(850) 245-8959
0095	E81870	McGlynn Laboratories, Inc.	Commercial	568 Beverly Court	Tallahassee	FL	32301	Leon	(850) 570-1476
6020	E81782	Talquin Electric Cooperative, Inc.	Utility	4852 Woodlane Circle	Tallahassee	FL	32303	Leon	(850) 562-2115
6015	E87005	TestAmerica Tallahassee	Commercial	2846 Industrial Plaza Drive	Tallahassee	FL	32301	Leon	(850) 878-2994

NELAP-Certified Laboratories

Laboratories no longer certfied Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version: 05/14/2016 08:30:00

Organization:	FL DEP - Central Laboratory/Innovation Park Satellite Laboratory
DOH ID:	E31640

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	EPA 624	1,1,1-Trichloroethane	10/19/2011	From: Accredited To: Inactive	NELAP NELAP	FL FL	1/17/2012
Non-Potable Water	EPA 8260	1,1,1-Trichloroethane	7/1/2003	From: No Certification To: Accredited	None NELAP	FL	9/24/2003
Non-Potable Water	EPA 8260	1,1,1-Trichloroethane	10/19/2011	From: Accredited To: Inactive	NELAP NELAP	FL FL	1/17/2012
Solids	EPA 8260	1,1,1-Trichloroethane	10/19/2011	From: Accredited To: Inactive	NELAP NELAP	FL FL	1/17/2012

Manatee County

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- Government
- Regulatory Plans
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NELAP Certified Organizations - Location Results

Laboratories Certified Under NELAP by the Florida Department of Health

Organization Name and Location Query Results

Database Version: 08/14/2016 08:30:00

LAB ID	DOH ID	Organization	Type	Street Address	City	State	Zip	County	Phone
5668	E84167	Benchmark EnviroAnalytical, Inc.	Commercial	1711 12th Street East	Palmetto	FL	34221	Manatee	(941) 723-9986
5919	E44247	Manatee County Parks and Natural Resources Department	Environmental – Pollution Control	1901 Dam Road	Bradenton	FL	34212	Manatee	(941) 742-5980
5924	E54719	Manatee County Utilities Department WTPQC Laboratory	Utility	17915 Waterline Road	Bradenton	FL	34212	Manatee	(941) 746-3020
5920	E54560	Manatee County Utility Department Central Laboratory	Utility	4751 66th Street West	Bradenton	FL	34210	Manatee	(941) 792-8811
5892	E84578	Mosaic Fertilizer LLC Environmental Laboratory	Commercial	7450 County Road 630	Mulberry	FL	33860	Manatee	(863) 428-4436

Hits: 5

NELAP Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version 08/14/2016 08:30:00

Organization:	City of Bradenton Water Treatment Plant Laboratory
DOH ID:	E54791

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Drinking Water	SM 9223 B	[illegible]	[illegible]	From: Accredited To: [illegible]	NELAP NELAP	FL FL	[illegible]
Drinking Water	SM 9223 B	[illegible]	[illegible]	From: Inactive To: Inactive	NELAP NELAP	FL FL	7/16/2012
Drinking Water	SM 9223 B	[illegible]	[illegible]	From: Inactive To: Inactive	NELAP NELAP	FL FL	7/16/2012
Drinking Water	SM 9223 B	[illegible]	[illegible]	From: [illegible] To: Inactive	NELAP NELAP	FL FL	7/16/2012

[illegible]

Last updated: April 23, 2015

NELAP Certified Laboratories

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Transaction History Query Results

Database Version 01/21/2016 8:18:22 AM

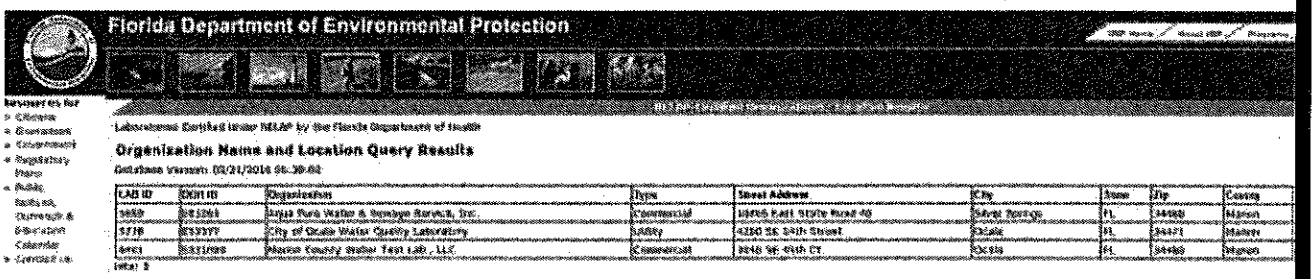
Organization:	City of Bradenton Water Reclamation Laboratory
DOH ID:	[illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	[illegible]	Carbonaceous BOD (CBOD)	[illegible]	From: Inactive To: [illegible]	NELAP NELAP	FL FL	[illegible]
Non-Potable Water	[illegible]	Carbonaceous BOD (CBOD)	[illegible]	From: Accredited To: Inactive	NELAP NELAP	FL FL	[illegible]

[illegible]

Last updated: April 23, 2015

Marion County



NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version: 05/14/2016 08:30:00

Organization:	FL Dept. of Health - Marion County Health Department
DOH ID:	E33708

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Drinking Water	SM 9223 B	Escherichia coli	11/7/2002	From: No Certification To: Accredited	None NELAP	FL	5/19/2008
Drinking Water	SM 9223 B	Escherichia coli	7/1/2011	From: Accredited To: Inactive	NELAP NELAP	FL FL	7/11/2011

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version: 01/23/2016 8:18:23 AM

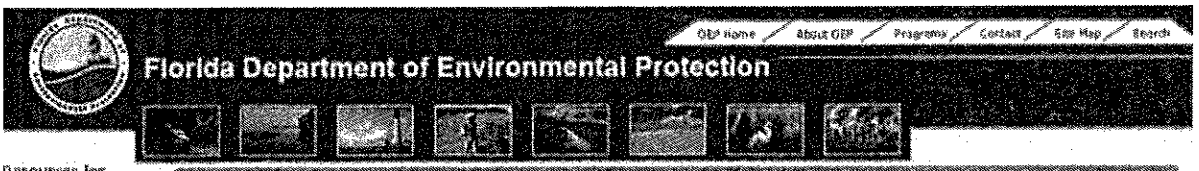
Organization:	U.S. Geological Survey, WRD, OWQRL
DOH ID:	E63507

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	EPA 410.4	Chemical oxygen demand	7/15/2003	From: Accredited To: Accredited	STATE NELAP	FL	8/15/2003
Non-Potable Water	EPA 410.4	Chemical oxygen demand	9/30/2004	From: Accredited To: Relinquished	NELAP NELAP	FL FL	5/12/2005

top

Last updated: April 23, 2015

Nasau County



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- Citizens
- Businesses
- Government
- Regulatory Plans
- Public Notices, Outreach & Education Calendar

Laboratories Certified Under NELAP by the Florida Department of Health

Organization Name and Location Query Results

Database Version: 05/14/2016 08:30:00

LAB ID	DOH ID	Organization	Type	Street Address	City	State	Zip	County	Phone
6179	E92860	Polyfiber Performance Fibers, LLC	Other	10 Gum Street	Fernandina Beach	FL	32035	Nassau	(904) 277-1400
6223	E92906	WestRock CP, LLC	Other	North Bill Street	Fernandina Beach	FL	32034	Nassau	(904) 277-7731

Hits: 2

NELAP-Certified Laboratories

Laboratories no longer certfied Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version: 01/23/2016 8:18:22 AM

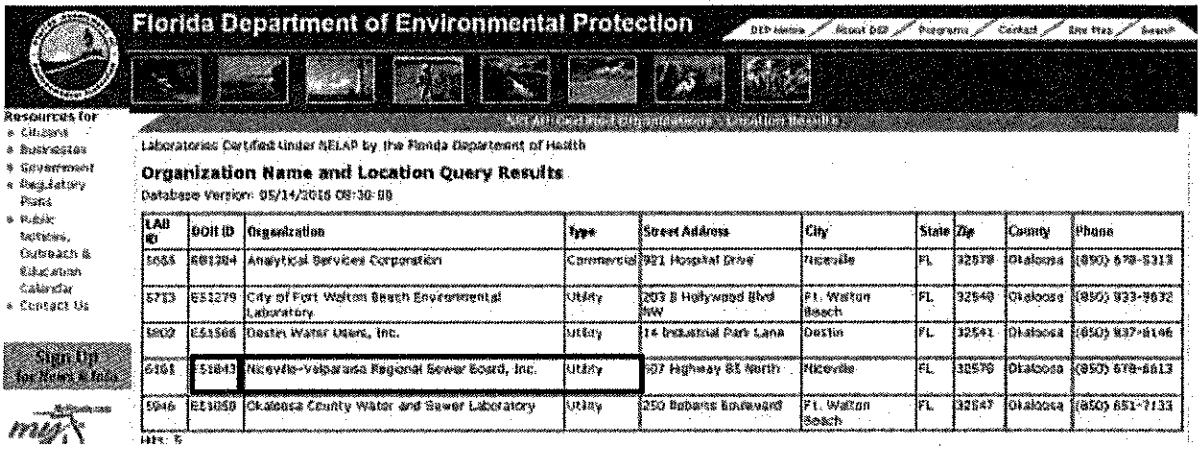
Organization:	**City of Fernandina Beach Wastewater Treatment Plant**
DOH ID:	**E52335**

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	SM 9222 D	Fecal coliforms	7/8/2003	From: Accredited To: Accredited	STATE NELAP	FL	8/21/2003
Non-Potable Water	SM 9222 D	Fecal coliforms	10/28/2005	From: Accredited To: Relinquished	NELAP NELAP	FL FL	10/28/2005

top

Last updated: April 23, 2015

Okaloosa County



Laboratories Certified Under NELAP by the Florida Department of Health

Organization Name and Location Query Results

Database Version: 05/14/2016 08:30:00

LAB ID	DOH ID	Organization	Type	Street Address	City	State	Zip	County	Phone
5055	E81284	Analytical Services Corporation	Commercial	921 Hospital Drive	Niceville	FL	32578	Okaloosa	(850) 678-5313
5753	E81279	City of Fort Walton Beach Environmental Laboratory	Utility	203 S Hollywood Blvd NW	Ft. Walton Beach	FL	32548	Okaloosa	(850) 833-9832
5902	E81566	Destin Water Users, Inc.	Utility	14 Industrial Park Lane	Destin	FL	32541	Okaloosa	(850) 837-6146
6101	E81843	Niceville-Valparaiso Regional Sewer Board, Inc.	Utility	507 Highway 85 North	Niceville	FL	32578	Okaloosa	(850) 678-6613
5946	E81059	Okaloosa County Water and Sewer Laboratory	Utility	250 Bobarss Boulevard	Ft. Walton Beach	FL	32547	Okaloosa	(850) 651-7133

Hits: 5

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

There are no transaction entries for this FOA.
Please note that the AAMS Database was created in March 2002.
No transaction history entries exist prior to this date.
If you have further questions regarding this FOA
please contact the DOH Lab Certification Program (904-791-1599).

Niceville-Valparaiso Okaloosa

top **Sewage Board**

Last updated: April 23, 2015

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

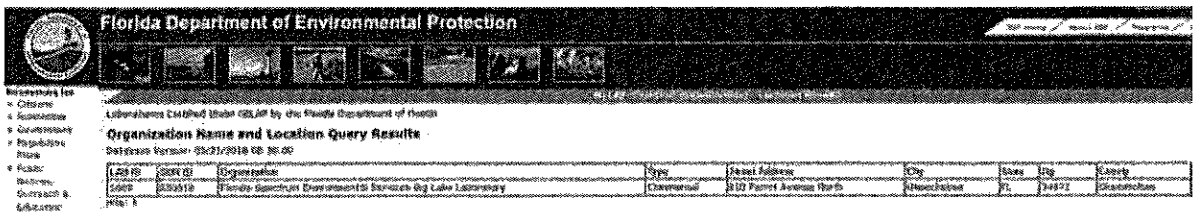
Database Version: 05/14/2016 08:30:00

Organization:	City of Mary Esther Wastewater Treatment Plant
DOH ID:	E81497

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	SM 5210 B	Carbonaceous BOD (CBOD)	7/1/2003	From: Accredited To: Inactive	NELAP NELAP	FL FL	6/19/2003

top

Okeechobee County



NELAP-Certified Laboratories

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Transaction History Query Results

Database Version: 05/14/2016 08:30:00

Organization:	Okeechobee Utility Authority Water Treatment Plant
DOH ID:	E56783

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Drinking Water	SM 9221 E	Fecal coliform	10/10/2002	From: Accredited To: Pending	STATE STATE		10/18/2002
Drinking Water	SM 9221 E	Fecal coliform	10/10/2002	From: Applied To: Accredited	STATE STATE		10/18/2002

NELAP-Certified Laboratories

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Transaction History Query Results

Database Version: 05/14/2016 08:30:00

Organization:	Okeechobee Utility Authority Wastewater Treatment Plant Laboratory
DOH ID:	E56884

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	SM 9222 D	Fecal coliform	8/23/2005	From: Accredited To: Relinquished	NELAP NELAP	FL FL	9/26/2005

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version: 05/14/2016 08:30:00

Organization:	Okeechobee Utility Authority Wastewater Treatment Plant
DOH ID:	E56970

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	SM 2540 D	Residue-nonfilterable (TSS)	7/25/2006	From: Not Certificated To: Applied	None NELAP	FL	7/28/2006
Non-Potable Water	SM 2540 D	Residue-nonfilterable (TSS)	9/7/2006	From: Applied To: Accredited	NELAP NELAP	FL FL	9/18/2006
Non-Potable Water	SM 2540 D	Residue-nonfilterable (TSS)	7/1/2014	From: Accredited To: Inactive	NELAP NELAP	FL FL	7/15/2014

Orange County

Florida Department of Environmental Protection

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- Citizens
- Businesses
- Government
- Regulatory Plans
- Public Notices, Comments & Education Calendar
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Laboratories Certified Under NELAP by the Florida Department of Health

Organization Name and Location Query Results

Database Version: [illegible]

LAB ID	DOH ID	Organization	Type	Street Address	City	State	Zip	County	Phone
[illegible]	[illegible]	City of Apopka Wastewater Treatment Facility Laboratory	Utility	[illegible] Road	Apopka	FL	[illegible]	Orange	(407) [illegible]
[illegible]	[illegible]	City of Winter Park Central Utilities Laboratory	Utility	1409 Howell Branch Road	Winter Park	FL	32789	Orange	(407) [illegible]
[illegible]	[illegible]	EMSL Analytical, Inc. - Orlando	Commercial	[illegible] Parkway Center Court	Orlando	FL	[illegible]	Orange	(407) [illegible]
[illegible]	[illegible]	Environmental Conservation Laboratories, Inc. (ENCO) - Orlando	Commercial	10775 Central Port Drive	Orlando	FL	[illegible]	Orange	(407) [illegible]
[illegible]	[illegible]	Environmental Research & Design, Inc.	Research Institute	[illegible] Blvd., Suite [illegible]	Orlando	FL	[illegible]	Orange	(407) [illegible]
[illegible]	[illegible]	Florida Radiochemistry Services, Inc	Commercial	[illegible] Hoffner Rd. Suite [illegible]	Orlando	FL	[illegible]	Orange	(407) [illegible]
[illegible]	[illegible]	Orange County Environmental Protection Division	Environmental - Pollution Control	[illegible] McCrory Place, Suite 200	Orlando	FL	[illegible]	Orange	(407) [illegible]
[illegible]	[illegible]	Orange County Utilities Central Laboratory	Utility	[illegible] Curry Ford Road	Orlando	FL	[illegible]	Orange	(407) [illegible]
[illegible]	[illegible]	Orlando Utilities Commission	Utility	Water Quality Laboratory	Orlando	FL	[illegible]	Orange	(407) [illegible]
[illegible]	[illegible]	Reedy Creek Improvement District Environmental Sciences	Environmental - Pollution Control	[illegible] South Service Lane	Lake Buena Vista	FL	[illegible]	Orange	(407) [illegible]
[illegible]	[illegible]	SGS Accutest - Orlando	Commercial	[illegible] Vineland Road Suite C-15	Orlando	FL	[illegible]	Orange	(407) [illegible]
[illegible]	[illegible]	Southern Research Laboratories, Inc.	Commercial	[illegible] Lynx Lane, Suite 1	Orlando	FL	[illegible]	Orange	(407) [illegible]
[illegible]	[illegible]	Tri-Tech Laboratories, Inc.	Commercial	[illegible] Vineland Road	Orlando	FL	[illegible]	Orange	(407) [illegible]

Rows: 13

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version: [illegible]

Organization:	FL DEP - Central District Laboratory
DOH ID:	[illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	FL	[illegible]
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	FL	[illegible]
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	FL	[illegible]
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	FL	[illegible]
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	FL	[illegible]

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version: [illegible]

Organization:	FL Dept. of Health - Bureau of Radiation Control
DOH ID:	[illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Drinking Water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	FL	[illegible]

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version: [illegible]

Organization:	City of Winter Park Estates Laboratory
DOH ID:	[illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	FL	[illegible]
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	FL	[illegible]
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	FL	[illegible]

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version: [illegible]

Organization:	Orange County Environmental Protection Division
DOH ID:	[illegible]

Moved

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	FL	[illegible]
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	FL	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	FL	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	FL	[illegible]

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

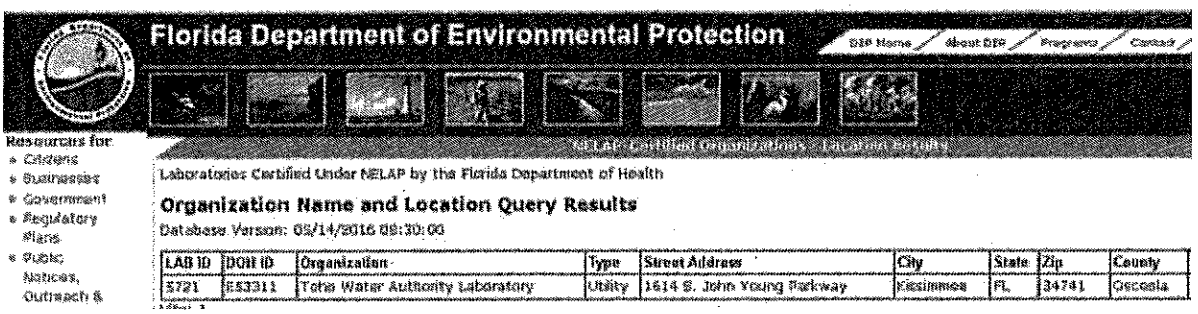
Transaction History Query Results

Database Version: [illegible]

Organization:	City of Winter Garden Wastewater Pollution Control Facility
DOH ID:	[illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	FL	[illegible]
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	FL	[illegible]

Osceola County



Laboratories Certified Under NELAP by the Florida Department of Health

Organization Name and Location Query Results

Database Version: 05/14/2016 08:30:00

LAB ID	DOH ID	Organization	Type	Street Address	City	State	Zip	County
5721	E83311	Toho Water Authority Laboratory	Utility	1614 S. John Young Parkway	Kissimmee	FL	34741	Osceola

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version 05/14/2016 08:30:00

Organization:	City of St. Cloud Water and Wastewater Facilities
DOH ID:	E83421

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	SM 5210 B	Carbonaceous BOD (CBOD)	10/21/2002	From: Accredited To: Relinquished	STATE STATE	*	10/21/2002

Palm Beach County

Florida Department of Environmental Protection

Laboratories Certified Under NELAP by the Florida Department of Health

Organization Name and Location Query Results

[illegible]

Lab ID	DOH ID	Organization	Type	Street Address	City	State	Zip	County	Phone
[illegible]	[illegible]	[illegible]	Commercial	[illegible]	[illegible]	FL	[illegible]	Palm Beach	[illegible]
[illegible]	[illegible]	City of Boca Raton [illegible]	Utility	[illegible]	Boca Raton	FL	[illegible]	Palm Beach	[illegible]
[illegible]	[illegible]	City of Boynton Beach [illegible]	Utility	[illegible]	Boynton Beach	FL	[illegible]	Palm Beach	[illegible]
[illegible]	[illegible]	City of Delray Beach [illegible]	Utility	[illegible]	Delray Beach	FL	[illegible]	Palm Beach	[illegible]
[illegible]	[illegible]	City of Lake Worth Water Treatment Plant Laboratory	Utility	[illegible] College Street	Lake Worth	FL	[illegible]	Palm Beach	[illegible]
[illegible]	[illegible]	City of Palm Springs Water Treatment Plant	Utility	[illegible]	Palm Springs	FL	[illegible]	Palm Beach	[illegible]
[illegible]	[illegible]	City of West Palm Beach [illegible]	Utility	[illegible]	West Palm Beach	FL	[illegible]	Palm Beach	[illegible]
[illegible]	[illegible]	City of West Palm Beach [illegible]	Utility	[illegible]	West Palm Beach	FL	[illegible]	Palm Beach	[illegible]
[illegible]	[illegible]	[illegible]	Commercial	[illegible]	West Palm Beach	FL	[illegible]	Palm Beach	[illegible]
[illegible]	[illegible]	Everglades Research and Education Center	University	[illegible]	Belle Glade	FL	[illegible]	Palm Beach	[illegible]
[illegible]	[illegible]	Florida Power & Light Central Laboratory	Utility	[illegible]	[illegible]	FL	[illegible]	Palm Beach	[illegible]
[illegible]	[illegible]	[illegible]	Commercial	[illegible]	Royal Palm Beach	FL	[illegible]	Palm Beach	[illegible]
[illegible]	[illegible]	[illegible]	Commercial	[illegible]	Jupiter	FL	[illegible]	Palm Beach	[illegible]
[illegible]	[illegible]	[illegible]	Utility	[illegible]	Jupiter	FL	[illegible]	Palm Beach	[illegible]
[illegible]	[illegible]	[illegible]	Utility	[illegible]	Palm Beach Gardens	FL	[illegible]	Palm Beach	[illegible]
[illegible]	[illegible]	Palm Beach County Water Utilities	Utility	[illegible]	[illegible]	FL	[illegible]	Palm Beach	[illegible]
[illegible]	[illegible]	[illegible]	Commercial	[illegible]	West Palm Beach	FL	[illegible]	Palm Beach	[illegible]
[illegible]	[illegible]	Seacoast Utility Authority - Central Lab	Utility	[illegible]	Palm Beach Gardens	FL	[illegible]	Palm Beach	[illegible]
[illegible]	[illegible]	[illegible]	Utility	[illegible]	[illegible]	FL	[illegible]	Palm Beach	[illegible]
[illegible]	[illegible]	[illegible]	Utility	[illegible]	Delray Beach	FL	[illegible]	Palm Beach	[illegible]
[illegible]	[illegible]	South Florida Water Management District Chemistry Laboratory	Governmental - Pollution Control	[illegible]	West Palm Beach	FL	[illegible]	Palm Beach	[illegible]
[illegible]	[illegible]	Town of Jupiter Water [illegible]	Utility	[illegible]	Jupiter	FL	[illegible]	Palm Beach	[illegible]
[illegible]	[illegible]	Village of Tequesta	Utility	[illegible]	Tequesta	FL	[illegible]	Palm Beach	[illegible]
[illegible]	[illegible]	Village of Wellington Water Treatment Laboratory	Utility	[illegible]	Wellington	FL	[illegible]	Palm Beach	[illegible]

[illegible]

NELAP Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version: [illegible]

Organization:	FL Department of Health - West Palm Beach Branch Laboratory
DOH ID:	[illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non Potable Water	[illegible]	Fecal coliforms	[illegible]	[illegible]	STATE / NELAP	FL	[illegible]
Non Potable Water	[illegible]	Fecal coliforms	[illegible]	[illegible]	NELAP / NELAP	[illegible]	[illegible]
Non Potable Water	[illegible]	Fecal coliforms	[illegible]	[illegible]	NELAP / NELAP	[illegible]	[illegible]
Non Potable Water	[illegible]	Fecal coliforms	[illegible]	[illegible]	NELAP / NELAP	[illegible]	[illegible]
Non Potable Water	[illegible]	Fecal coliforms	[illegible]	[illegible]	NELAP / NELAP	[illegible]	[illegible]

NELAP Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version: [illegible]

Organization:	City of Royal Palm Beach Utilities Dept. Wastewater Treatment Plant Laboratory
DOH ID:	[illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Drinking Water	[illegible]	[illegible]	[illegible]	[illegible]	NELAP / NELAP	[illegible]	[illegible]

NELAP Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version: [illegible] AM

Organization:	City of Belle Glade Wastewater Treatment Plant
DOH ID:	[illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	STATE / NELAP	FL	[illegible]
Non Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	NELAP / NELAP	[illegible]	[illegible]

[illegible]

Last updated: April [illegible]

Pinellas County

Florida Department of Environmental Protection

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Laboratories Certified Under NELAP by the Florida Department of Health

Organization Name and Location Query Results

Database Version: 08/14/2016 08:30:08

LAB ID	DOH ID	Organization	Type	Street Address	City	State	Zip	County	Phone
5697	E54071	City of Clearwater Public Utilities Laboratory	Utility	1605 Harbor Drive	Clearwater	FL	33755	Pinellas	(727) 462-6669
5724	E54366	City of Largo Wastewater Treatment Plant	Utility	5100 150th Avenue North	Clearwater	FL	33760	Pinellas	(727) 518-3080
5739	E56309	City of Oldsmar Wastewater Treatment Plant	Utility	351 Lafayette Boulevard	Oldsmar	FL	34677	Pinellas	(813) 855-4612
5963	E54357	Pinellas County Utilities Laboratory	Utility	1620 Ridge Road, Building S	Largo	FL	33778	Pinellas	(727) 582-2302
5960	E84129	Southern Analytical Laboratories, Inc.	Commercial	110 Bayview Blvd	Oldsmar	FL	34677	Pinellas	(813) 855-1844
6809	E44065	St. Petersburg Environmental Compliance Division Laboratory	Environmental - Pollution Control	1635 Third Avenue North	St. Petersburg	FL	33713	Pinellas	(727) 892-5636

Hits: 6

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Organization: St. Pete. Health - Pinellas County Health Department

DOH ID: [illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Drinking Water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Drinking Water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Drinking Water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Organization: City of Tarpon Springs Wastewater Treatment Plant

DOH ID: [illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	NELAP / NELAP	FL / FL	[illegible]

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Organization: City of [illegible] Wastewater Treatment Plant

DOH ID: [illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Organization: City of St. Petersburg - Cosme Water Treatment Plant Laboratory

DOH ID: [illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Drinking Water	[illegible]	Total coliforms	[illegible]	[illegible]	STATE / NELAP	FL	[illegible]
Drinking Water	[illegible]	Total coliforms	[illegible]	[illegible]	NELAP / NELAP	FL / FL	[illegible]

Transaction History Query Results

Organization: University of South Florida

DOH ID: [illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Drinking Water	[illegible]	[illegible]	[illegible]	[illegible]	NELAP	FL	[illegible]
Drinking Water	[illegible]	[illegible]	[illegible]	[illegible]	NELAP	FL	[illegible]
Drinking Water	[illegible]	[illegible]	[illegible]	[illegible]	NELAP	FL	[illegible]
Drinking Water	[illegible]	[illegible]	[illegible]	[illegible]	NELAP	FL	[illegible]
Drinking Water	[illegible]	[illegible]	[illegible]	[illegible]	NELAP	FL	[illegible]
Drinking Water	[illegible]	[illegible]	[illegible]	[illegible]	NELAP	FL	[illegible]
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	NELAP	FL	[illegible]
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	NELAP	FL	[illegible]
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	NELAP	FL	[illegible]
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	NELAP	FL	[illegible]
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	NELAP	FL	[illegible]
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	NELAP	FL	[illegible]

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Organization: City of Clearwater - Marshall Street Water Pollution Control Laboratory

DOH ID: [illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	[illegible]	[illegible]	[illegible]	[illegible]	STATE / STATE	[illegible]	[illegible]

Polk County

Florida Department of Environmental Protection

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Laboratories Certified Under NELAP by the Florida Department of Health

Organization Name and Location Query Results

Database Version: 05/14/2016 08:30:00

LAB ID	DOH ID	Organization	Type	Street Address	City	State	Zip	County	Phone
6827	E54728	City of Lakeland -Thomas B. Williams Water Treatment Plant	Utility	1501 Kendrick Lane	Lakeland	FL	33805	Polk	(863) 834-6717
6309	E54991	City of Lakeland McIntosh Main Lab	Utility	3400 E. Lake Parker Dr.	Lakeland	FL	33805	Polk	(863) 834-5602
5723	E54189	City of Lakeland Wastewater Treatment Plant - Glendale	Utility	1925 Glendale Street	Lakeland	FL	33803	Polk	(863) 834-8237
5954	E84099	FTS Analytical Services	Commercial	5675 New Tampa Hwy	Lakeland	FL	33815	Polk	(863) 648-8528
6197	E84850	Florida-Spectrum Environmental Services Inc.- Lakeland Laboratory	Commercial	1910 Harden Boulevard	Lakeland	FL	33803	Polk	(863) 686-4271
5963	E84008	Florida-Spectrum Environmental Services, Inc - Pembroke Laboratory	Commercial	528 Gooch Road	Ft. Meade	FL	33841	Polk	(863) 285-8148
5934	E84567	Mid Florida Water Lab	Commercial	8 Oakwood Road	Winter Haven	FL	33880	Polk	(863) 965-2540
6242	E84925	Phoslab Environmental Services, Inc.	Commercial	806 W. Beacon Road	Lakeland	FL	33803	Polk	(863) 682-5897
5968	E44082	Polk County Natural Resources Division	Environmental - Pollution Control	4189 Ben Durrance Road	Bartow	FL	33830	Polk	(863) 534-7370

Hits: 9

Transaction History Query Results

Transaction History Query Results

HELAP Certified Laboratories

Laboratories in bold are certified under NELAP by the Florida Department of Health

FL DACS Central Dairy Laboratory
Transaction History Query Results

There are no transaction entries for this FOA.
Please note that the AAMS Database was created in March 2002.
No transaction history entries exist prior to this date.
If you have further questions regarding this FOA
please contact the DOH Lab Certification Program (904-791-1599).

Transaction History Query Results

There are no transaction entries for this FOA.
Please note that the AAMS Database was created in March 2002.
No transaction history entries exist prior to this date.
If you have further questions regarding this FOA
please contact the DOH Lab Certification Program (904-791-1599).

City of Ft. Meade

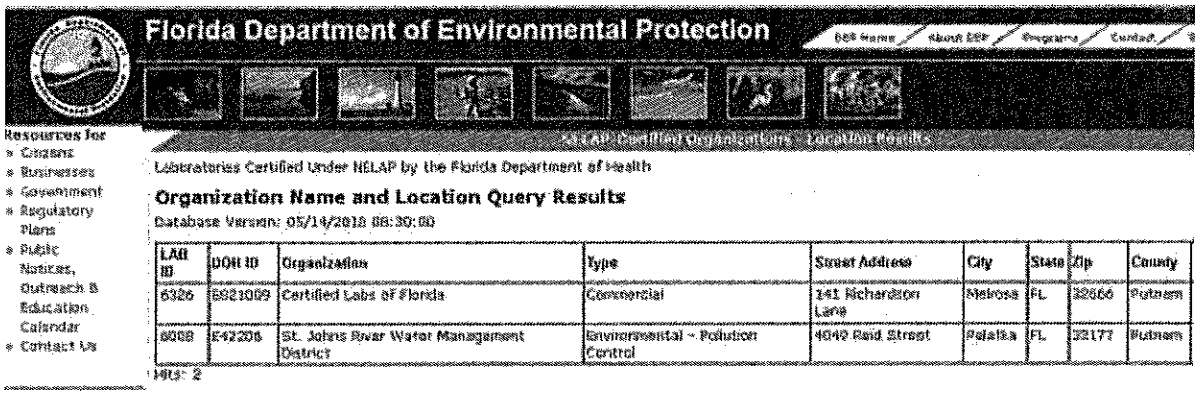
Last updated: April 19, 2013

Transaction History Query Results

Transaction History Query Results

Transaction History Query Results

Putnam County



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Organization Name and Location Query Results

Database Version: 05/14/2016 08:30:00

LAB ID	DOH ID	Organization	Type	Street Address	City	State	Zip	County
6326	E921009	Certified Labs of Florida	Commercial	141 Richardson Lane	Melrose	FL	32666	Putnam
6088	E42206	St. Johns River Water Management District	Environmental - Pollution Control	4049 Reid Street	Palatka	FL	32177	Putnam

Hits: 2

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version: 01/23/2016 8:18:22 AM

Organization:	Dept. of Health - Putnam County Environmental Health Department
DOH ID:	E12779

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Drinking Water	SM 9223 B	Total coliforms and E. coli	12/9/2002	From: Accredited To: Accredited	STATE NELAP	FL	12/30/2002
Drinking Water	SM 9223 B	Total coliforms and E. coli	7/9/2008	From: Accredited To: Relinquished	NELAP NELAP	FL FL	8/18/2008

top

Last updated: April 23, 2015

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version: 05/14/2016 08:30:00

Organization:	City of Palatka Wastewater Treatment Plant
DOH ID:	E52474

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	SM 9222 D	Fecal coliforms	7/24/2003	From: Accredited To: Accredited	STATE NELAP	FL	10/6/2003
Non-Potable Water	SM 9222 D	Fecal coliforms	6/28/2004	From: Accredited To: Relinquished	NELAP NELAP	FL FL	7/7/2004

Sarasota County

Florida Department of Environmental Protection

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Laboratories Certified Under NELAP by the Florida Department of Health

Organization Name and Location Query Results

Database Version: 05/14/2016 08:20:00

LAB ID	DOH ID	Organization	Type	Street Address	City	State	Zip	County
5707	E54211	City of Englewood Water District	Utility	201 Selma Avenue	Englewood	FL	34223	Sarasota
5758	E54340	City of Sarasota Wastewater Treatment Plant Laboratory	Utility	1850 12th Street	Sarasota	FL	34236	Sarasota
5921	E84191	Manrico Bioassay Laboratory, Inc	Commercial	4569 Samuel Street	Sarasota	FL	34233	Sarasota
5940	E84091	Mote Marine Laboratory	Commercial	1600 Ken Thompson Parkway	Sarasota	FL	34236	Sarasota
5980	E84380	Sanders Laboratories, Inc. - Nokomis	Commercial	1050 Endeavor Ct.	Nokomis	FL	34275	Sarasota
6114	E54677	Sarasota County Utilities - Pump Station #2 Laboratory	Utility	1001 South Beneva Road	Sarasota	FL	34232	Sarasota
6083	E54556	Sarasota County Utilities - T. Mabry Carlton Water Treatment Plant Laboratory	Utility	1298 T. Mabry Carlton Parkway	Venice	FL	34293	Sarasota

Total: 7

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Organization: City of Venice Water Reclamation Laboratory

DOH ID: [illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Organization: City of Venice - Eastside Wastewater Treatment Plant

DOH ID: [illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Organization: Florida Governmental Utility Authority - Gulf Gate Laboratory

DOH ID: [illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Organization: FL Dept. of Health - Sarasota County Health Department

DOH ID: [illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Drinking Water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Drinking Water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Organization: City of Sarasota Water Plant Laboratory

DOH ID: [illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Drinking Water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Seminole County

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NELAP-Certified Organizations - Location Results

Laboratories Certified Under NELAP by the Florida Department of Health

Organization Name and Location Query Results

Database Version: 05/14/2016 08:30:00

LAB ID	DOH ID	Organization	Type	Street Address	City	State	Zip	County
5982	E53078	Advanced Environmental Laboratories, Inc. - Orlando	Commercial	380 Northlake Blvd., Suite 1048	Altamonte Springs	FL	32701	Seminole
5684	E53250	City of Altamonte Springs Environmental Laboratory	Utility	960 Keller Road	Altamonte Springs	FL	32714	Seminole
5740	E53087	City of Orlando, Environmental Laboratory Services	Utility	681 Iron Bridge Circle	Oviedo	FL	32765	Seminole
5869	E83018	Flowers Chemical Laboratories	Commercial	481 Newburyport Avenue	Altamonte Springs	FL	32701	Seminole

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version 05/14/2016 08:30:00

Organization:	FL Dept. of Health - Sarasota County Health Department
DOH ID:	E54782

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Drinking Water	SM 9223 B	Escherichia coli	11/26/2003	From: No Certification To: Accredited	None NELAP	FL	5/19/2008
Drinking Water	SM 9223 B	Escherichia coli	7/1/2009	From: Accredited To: Inactive	NELAP NELAP	FL FL	7/10/2009

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version 05/14/2016 08:30:00

Organization:	City of Sanford Water Reclamation Facility Laboratory
DOH ID:	[illegible]

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	[illegible]	[illegible]	[illegible]	From: Accredited To: Revoked/Suspended	STATE NELAP	FL	[illegible]

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Database Version 05/14/2016 08:30:00

Organization:	City of Winter Springs Wastewater Reclamation Facility
DOH ID:	E53416

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	SM 9222 D	Fecal coliforms	8/19/2002	From: Accredited To: Accredited	STATE NELAP	FL	11/1/2002
Non-Potable Water	SM 9222 D	Fecal coliforms	1/6/2015	From: Accredited To: Relinquished	NELAP NELAP	FL FL	1/5/2015

St. John's County

Resources for
- Citizens
- Businesses
- Government
- Regulatory Plans
- Public Notices, Outreach & Education

Laboratories Certified Under NELAP by the Florida Department of Health

Organization Name and Location Query Results

Database Version: 05/14/2016 08:30:00

LAB ID	DOH ID	Organization	Type	Street Address	City	State	Zip	County
5759	E52406	City of St. Augustine Water Pollution Control Laboratory	Utility	501 Riberia Street	St. Augustine	FL	32085	St. Johns
6007	E52485	St. Johns County Utility Department Environmental Laboratory	Utility	500 W. 16th Street	St. Augustine	FL	32080	St. Johns

NELAP-Certified Laboratories

Laboratories no longer certified Under NELAP by the Florida Department of Health

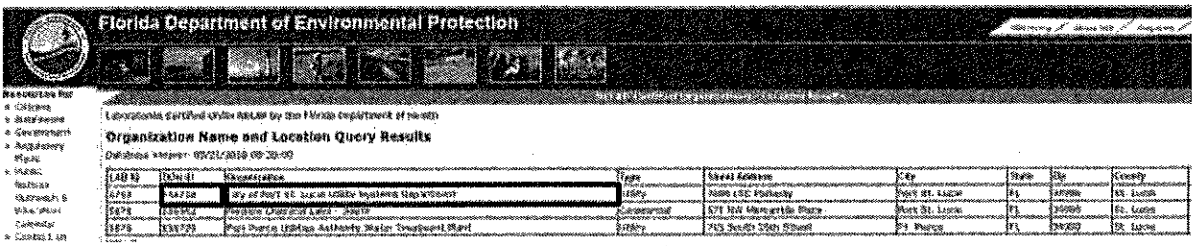
Transaction History Query Results

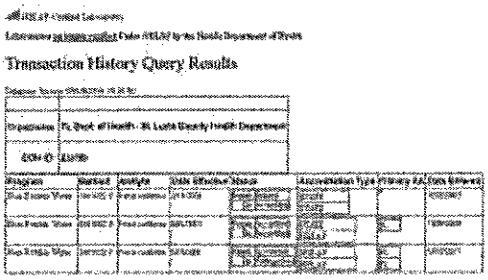
Database Version: 05/14/2016 08:30:00

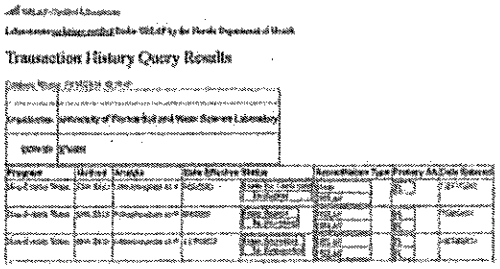
Organization:	FL Dept. of Health - St. Johns County Health Department - Environmental Eng.
DOH ID:	E21770

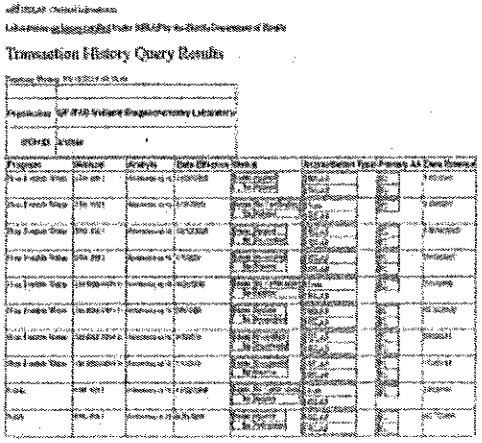
Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Drinking Water	SM 9223 B	Escherichia coli	5/16/2002	From: No Certification To: Accredited	None NELAP	FL	5/19/2008
Drinking Water	SM 9223 B	Escherichia coli	7/1/2011	From: Inactive To: Inactive	NELAP NELAP	FL FL	7/12/2011
Drinking Water	SM 9223 B	Escherichia coli	7/1/2011	From: Accredited To: Inactive	NELAP NELAP	FL FL	7/12/2011

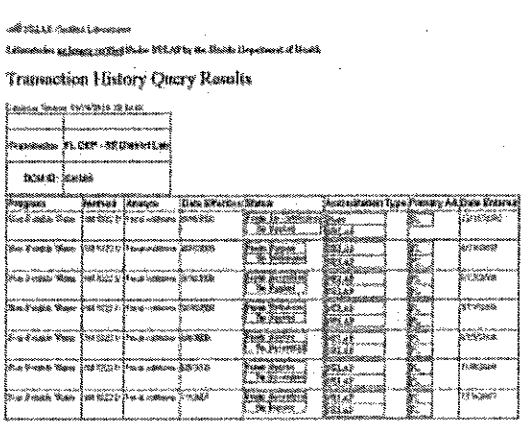
St. Lucie County

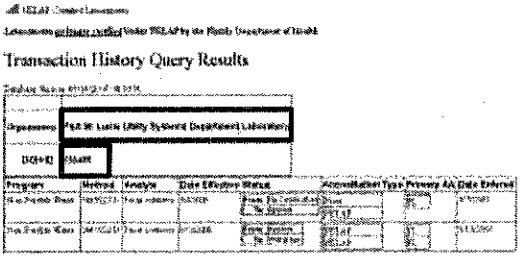




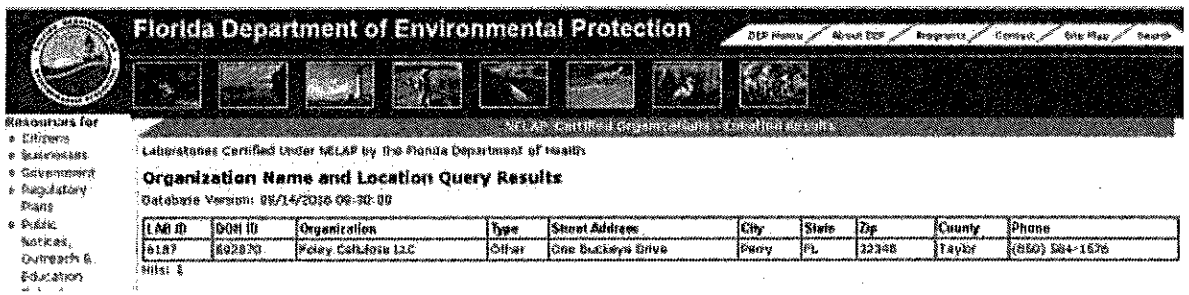








Taylor County



NELAP-Certified Laboratories

Laboratories no longer certfied Under NELAP by the Florida Department of Health

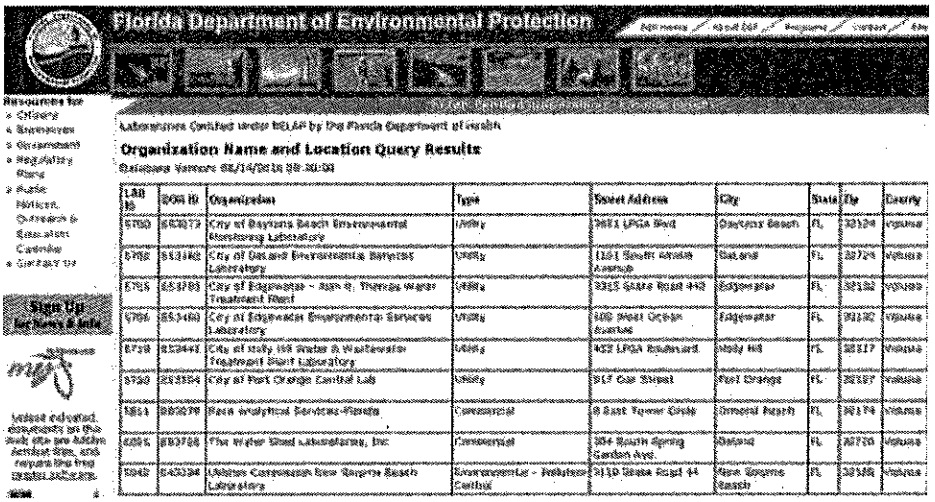
Transaction History Query Results

Database Version: 05/14/2016 08:30:00

Organization:	City of Perry Wastewater Treatment Plant
DOH ID:	E52400

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water	SM 9222 D	Fecal coliforms	9/18/2002	From: Accredited To: Relinquished	NELAP NELAP	FL FL	9/20/2002

Volusia County



Florida Department of Environmental Protection

Laboratories Certified Under NELAP by the Florida Department of Health

Organization Name and Location Query Results

Database Version: 08/14/2014 08:30:08

LAB ID	DOH ID	Organization	Type	Street Address	City	State	Zip	County
E7703	E83073	City of Daytona Beach Environmental Monitoring Laboratory	Utility	3651 LPGA Blvd	Daytona Beach	FL	32124	Volusia
E7708	E83382	City of Deland Environmental Services Laboratory	Utility	1351 South Alabama Avenue	Deland	FL	32724	Volusia
E7705	E83783	City of Edgewater - Jack D. Thomas Water Treatment Plant	Utility	9315 State Road 442	Edgewater	FL	32132	Volusia
E7706	E83486	City of Edgewater Environmental Services Laboratory	Utility	600 West Ocean Avenue	Edgewater	FL	32132	Volusia
E7710	E83944	City of Holly Hill Water & Wastewater Treatment Plant Laboratory	Utility	402 LPGA Boulevard	Holly Hill	FL	32117	Volusia
E7702	E83884	City of Port Orange Central Lab	Utility	915 Dak Street	Port Orange	FL	32127	Volusia
E851	E80079	Pace Analytical Services-Florida	Commercial	9 East Tower Circle	Ormond Beach	FL	32174	Volusia
E855	E83758	The Water Shed Laboratories, Inc	Commercial	304 South Spring Garden Ave.	Deland	FL	32720	Volusia
E948	E83284	Volusia County-New Smyrna Beach Laboratory	Environmental - Potable/Non-Potable	3110 State Road 44	New Smyrna Beach	FL	32168	Volusia

NELAP Certified Laboratories

Laboratories in Florida certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Organization:	Volusia County Environmental Health Laboratory
DOH ID:	E81103

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Drinking Water							
Drinking Water							

NELAP Certified Laboratories

Laboratories in Florida certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Organization:	City of New Smyrna Beach Water Treatment Plant Laboratory
DOH ID:	E81701

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Drinking Water							

NELAP Certified Laboratories

Laboratories in Florida certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Organization:	Port Orange Utility - Spruce Creek Treatment Plant Laboratory
DOH ID:	E81709

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Drinking Water							
Drinking Water							

NELAP Certified Laboratories

Laboratories in Florida certified Under NELAP by the Florida Department of Health

Transaction History Query Results

Organization:	City of Ormond Beach Public Utilities
DOH ID:	E83143

Program	Method	Analyte	Date Effective	Status	Accreditation Type	Primary AA	Date Entered
Non-Potable Water							

White Paper #4: A Quality Management System for ELAP

By David Kimbrough, Pasadena Water & Power

Presented to the Environmental Laboratory Technical Advisory Committee, August 24, 2016

The Environmental Laboratory Technical Advisory Committee voted to recommend to the Environmental Laboratory Accreditation Program to adopt a Quality Management System that was not based on documents of The NELAC Institute. This paper is a straw man for how such a Quality Management System would look.

1) Introduction

The Environmental Laboratory Accreditation Program (ELAP) posed four questions to the Environmental Laboratory Technical Advisory Committee (ELTAC) in regards to creating a new Accreditation Standard.

a) What should the standard be for Performance Testing Samples (PTS) in terms of how many studies per year should a laboratory participate in?

b) What should the Technical Standard be?

c) Should ELAP require laboratory have a Quality Management System (QMS) as a condition of accreditation?

d) If a QMS is required, which one should be required?

At the June meeting of ELTAC a vote was taken and the committee recommended that only one PTS study per year. This effectively eliminated using The NELAC Institute (TNI) documents as a whole for a QMS as the TNI documents require the two PTS studies per year.

At the July meeting, ELTAC voted that the Technical Standard of the overall Accreditation Standard should be made up of the requirements of the test methods themselves and nothing from other sources. ELTAC also voted that it wanted to recommend ELAP require a QMS as condition of accreditation. Since TNI as whole had been excluded by the June vote, the question was raised as to which non-TNI QMS should be recommended. The suggestion was raised that a "TNI Lite" QMS could be recommended but a straw poll showed that the Committee was not interested in such a proposal. The Committee voted to hold a meeting in August to propose a QMS for ELAP.

This paper is proposal for a QMS based upon the Quality Systems used by the United States Environmental Protection Agency and California State Regulatory Agencies.

2) Quality Management System

a) The USEPA QMS necessarily begins with the needs of the data users. The data users for this case are the California State Regulatory Agencies of the State Water Resources Control Board (SWRCB) - Division of Drinking Water (DDW), the SWRCB - Division of Water Quality (DWQ, including the Regional Water Quality Control Boards - RWQCB), the Department of Toxic Substances Control (DTSC), and the Department of Fish and Wildlife (DFW). Frequently at least some of these agencies already use the USEPA QMS. Therefore it is only logical that this be the basis for ELAP's QMS.

b) Data Quality Objectives - QMSs begin with the Data Quality Objectives (DQOs). DQOs are qualitative and quantitative statements that, among other things, specify tolerable limits on decision errors which will be used as the basis for establishing the quantity and quality of data needed to support the decision. The DQO Process helps ensure that data users are assured that the type, quantity, and quality of environmental data appropriate for the intended application. Sampling and analysis plans can be developed from DQOs. Variables such as precision, accuracy, representativeness, data completeness, comparability, and sensitivity are commonly used in environmental monitoring. Depending on the nature of the project, different data quality needs might be emphasized over others. For example if regulatory compliance with threshold concentration is the goal, accuracy and precision might be more important than comparability. The activities of laboratories are only a very small part of DQOs.

c) Data Quality Indicators - Data Quality Indicators provide quantitatively assessable measures of DQOs. For example accuracy can be assessed by the use of reference materials, continuing calibration verification standards (CCVS), matrix spikes and other similar tools. For each DQO, a DQI can be determined and used to assess the quality of the data generated.

d) Measurement Quality Objectives - Measurement Quality Objectives (MQOs) are the specific laboratory based measures to determine acceptance or rejection of data. For the DQO of accuracy and

the DQI of Continuing Calibration Verification Standards, the MQO could be a recovery of 25%. For the DQO of precision and the DQI of laboratory duplicates the MQO could be the relative percent difference of 20%.

e) The DQOs, DQIs, and MQOs are found in Quality Assurance Project Plans (QAPP), Sampling and Analysis Plans (SAP), but also in other documents.

f) Data Quality Assessment - The core of QMS is the Data Quality Assessment (DQA). The data users examine the entire universe of laboratory results, including MQOs, and determine if the data is of sufficient quality to allow him or her to make the needed decisions. If not, changes to the QS have to be made and more samples collected and analyzed. Attachment A shows a typical QMS used by the USEPA in their Clean Air Act program.

g) As can be seen, only a small part of the QMS actually involves laboratories, mainly the MQOs. So for ELAP to create a QMS that will be a requirement for laboratory accreditation, is should only include those parts of the QMS that impact laboratory functions.

3) ELAP Required QMS

a) The proposed QMS was not designed to be a separate "add-on" feature separate from the larger Accreditation Standard but is rather it was rather woven into the fabric of the Accreditation Standard at each point. The core elements of the QMS are found in almost every part of the Accreditation Standard

b) While the QMS has many elements, there were three core elements that hold it all together:

i. *"Data User"* means an individual or group within a State regulatory agency that has unique data quality objectives and measurement quality objectives.

ii. *"Measurement Quality Objective"* or *"MQO"* is an individual performance or acceptance goals for a laboratory determined by a data user.

iii. "State regulatory agency" means an agency that requires the analysis of environmental samples that has been established under regulatory and/or statutory requirements by the State

Water Resources Control Board (SWRCB), Regional Water Quality Control Boards (RWQCBs), the Department of Toxic Substances Control (DTSC), the California Environmental Protection Agency (Cal/EPA), the Department of Health Services (DHS), the Department of Food and Agriculture (DFA), Department of Fish and Wildlife (DFW), or any successor agencies.

c) The proposed QMS is divided up into Articles and numbered in a fashion similar to how California regulations are organized except that Articles are numbered rather than lettered.

Article A – Definitions
Article B – Purposes
Article C – Accreditation Process
Article D – Quality Management Systems
Article E – Measurement Quality Objectives
Article F – Personnel
Article G – Facilities and Equipment
Article H – Required Tests Methods
Article I – Fields of Accreditation
Article J – Quality Assurance Manual
Article K – Standard Operating Procedures
Article L – Records Retention
Article M – Standards
Article N – Sample Handling
Article O – Corrective Actions
Article P – Notification and Reporting
Article Q – On-Site Assessment

d) In each article, the requirements placed upon laboratories as a condition of accreditation are defined relative to the MQOs of the data users in the California state regulatory agencies. If the data users do not provide any MQOs, the quality control and quality assurance requirements in the test methods are still required. If there are no quality control requirements found in the test methods themselves, default MQOs are found in Article E.

i. These three core elements are defined in Article A.
ii. In Article B, the purpose of ELAP and laboratory accreditation is defined relative to the needs of data users from state regulatory agencies as expressed as MQOs.
iii. Article C requires that when a laboratory applies for accreditation it has to list the data users, state regulatory agencies, and MQOs that it is to use.

iv. Article D and Article I require that the laboratory include the MQOs of the data users be incorporated into the day to day activities of the laboratory.
v. Article K requires that the MQOs be incorporated into the SOPs of the laboratory.
vi. Article P indicates that when an on-site assessment is to be performed, the assessor will review the laboratory for compliance with the MQOs of the data users.
vii. Other Articles incorporate the MQOs in different ways.

e) At each point in the process of accreditation, ELAP ensures that accredited laboratories are complying with the MQOs of the data users.

4) Recommendations

a) The proposed QMS would well serve the interests of the data users in the state regulatory agencies as it would tie the performance of individual laboratories to the data quality needs of the individual projects and programs through the MQOs.

b) The proposed QMS would well serve the interests of ELAP as it would provide a standard that would easy to implement while robust enough to be enforceable and specific to California's needs.

c) The proposed QMS would well serve the interests of the accredited laboratory community well as it is comparatively short, simple, and publically available for free.

Article A Definitions

"Acceptable Results" means proficiency testing (PT) study findings that the PT study provider or ELAP has determined meet acceptance criteria specified for the study undertaken.

"Accuracy" means the closeness of a measured value to an accepted reference value or standard.

"Accreditation" A determination by ELAP that an environmental laboratory is capable of performing one or more units of accreditation in accordance with this chapter for California state regulatory agencies.

"Accredited laboratory" means a laboratory that has been granted certificate of accreditation by the agency directly or through reciprocal recognition under this chapter.

"Analyte" means the chemical substance, physical property

or organism analyzed in a sample.

"Analytical Specialist" means a person who either supervises the activities of others in, or is otherwise responsible for the results produced by, the analysis of environmental samples using sophisticated laboratory instruments, such as gas chromatograph/mass spectrometers (GC/MS), inductively coupled plasma atomic emission spectrometers (ICP-AES), inductively coupled plasma mass spectrometers (ICP-MS), liquid chromatograph/mass spectrometers (LC-MS), atomic absorption spectrophotometers (AA), gas chromatographs (GC), alpha particle or gamma ray spectrophotometer, electron microscopes (EM), polarized light microscope (PLM), high performance liquid chromatographs (HPLC), ion chromatography (IC), or liquid scintillation counter (LSC), or bioassay testing.

"Analytical staff" includes, but is not limited to, laboratory directors, supervisory personnel, quality assurance personnel, technicians, chemists, biologists, personnel performing extractions and analysts.

"Assessor" means the person who performs on-site assessments of laboratories' capability and capacity for meeting the requirements under this chapter by examining the records and other physical evidence for each one of the tests for which certification has been requested.

"Batch" means a set of samples prepared or analyzed together under the same process, instrumentation, personnel, and lots of reagents. An analytical batch refers to a set of any number of prepared samples, such as extracts, digestates or concentrates or samples requiring no preparatory steps analyzed together as a group in an uninterrupted sequence, and may consist of samples of various quality system matrices. A preparation batch refers to a batch of samples, excluding quality control samples, of the same quality system matrix which can be processed simultaneously using the same equipment, reagents and staff. Preparation batch processing shall be completed in a 24-hour period from the start of the processing of the first sample to the start of the processing of the last sample. For laboratories that do not analyze more than 7 samples for a given test and quality system matrix per week, a preparation batch may consist of up to 7 samples, excluding quality control samples, processed during the course of no more than a week.

"Bias" means the consistent deviation of measured values from a true value caused by systematic errors in a procedure or a measurement process.

"Chain of custody" means the procedures and records that document the possession and handling of samples from collection through disposal. A chain-of-custody form is used to document, with a signature, date and time, transfer of the sample from collector to transport/delivery service and then to the laboratory staff receiving the samples.

"Corrective Action Report" means a report documenting actions taken by a laboratory following the identification of non-compliance with the requirements of this Chapter.

"Data User" means an individual or group within a State regulatory agency that has unique data quality objectives and measurement quality objectives.

"Deficiency" means an existing nonconformity, defect or other undesirable inconsistent with the requirements of this chapter.

"Demonstration of technical capability" means a document that provides to ELAP the information necessary to determine whether a laboratory has the capability to conduct the analysis for a specific UoA, including:

"ELAP" means the California Environmental Laboratory Accreditation Program.

"Environmental sample" means a collected volume of potable or not-potable surface or ground water, soil, sediment, hazardous waste, or any other material analyzed for a State regulatory agency.

"Facilities" means fixed or portable building(s), including storage areas, that contain the analytical and ancillary operating equipment, supplies and space necessary to perform the analyses in the FoAs for which a laboratory is accredited.

"Field of Accreditation" or "FoA" means a group of UoAs related by which state regulatory agency results to be reported to and analytical technology or analyte type.

"Interim certificate" means a temporary certificate of ELAP accreditation listing UoAs that a laboratory has requested be added to its existing certificate, that allows the laboratory to report analyses for regulatory purposes for the additional UoAs.

"Laboratory" means a facility that performs tests in connection with a agency which requires data from a certified or registered laboratory. A facility consisting of a principal laboratory and annexes within 5 miles of the principal laboratory may be considered a single laboratory at the discretion of the department.

"Laboratory director" means the laboratory staff person who is responsible for actual day-to-day supervision of all technical, analytical and data reporting operations in the laboratory for the fields of accreditation listed on the laboratory's certificate.

"Laboratory equipment" means any support equipment or analytical instrument necessary to or involved in generating the results of an analysis.

"Laboratory management" The individuals responsible for the overall operation, all personnel

and the physical plant of an environmental laboratory which includes a laboratory supervisor.

Laboratory supervisor—A technical supervisor of an environmental laboratory who supervises laboratory procedures and reporting of analytical data.

"MCL" means maximum contaminant level and is the maximum permissible level of a contaminant in water which is delivered to any user of a public water system.

"Measurement Quality Objective" or "MQO" is an individual performance or acceptance goals for a laboratory determined by a data user.

"Method blank" means a sample of a matrix devoid of or having a consistent concentration or amount of the analytes of interest processed simultaneously with and under the same conditions, preparatory and analyses steps as the associated samples. A method blank is a negative control sample for chemistry UOAs.

"Negative Control" is a quality control procedure to identify if samples as subject to contamination.

"Negative Control Sample" is a sample analyzed for a given UOA which is expected to produce a negative or zero response and is used as part of negative control procedure.

"Not Acceptable" means that the PT study provider or ELAP has determined that the PT study findings do not meet acceptance criteria specified for the study undertaken.

"On-Site Assessment" means a systematic evaluation by ELAP staff of a laboratory's compliance with the requirements of this chapter.

"Owner" means any person who is a sole proprietor of a laboratory, or any person who holds a partnership interest in a laboratory, or 5% (five percent) or more shareholder in a corporation which owns a laboratory.

"Owner's agent" or "agents of owners" or "officer", means those persons who have been designated by the Owner(s) of the laboratory to act in its behalf for purposes of complying with this chapter or the statutes under which this chapter has been adopted.

"Quality control" means the overall system of technical activities designed to measure and control the quality of a product or service that meets the stated needs of users.

"Quality management system" means a structured and documented management arrangement describing the policies, objectives, principles, organizational authority, responsibilities, accountability, and implementation plan of an organization for ensuring quality in its work processes, products and services.

"Revocation" means cancellation of a laboratory's certification of accreditation on permanent basis

"State regulatory agency" means an agency that requires the analysis of environmental samples that has been established under regulatory and/or statutory requirements by the State Water Resources Control Board (SWRCB), Regional Water Quality Control Boards (RWQCBs), the Department of Toxic Substances Control (DTSC), the California Environmental Protection Agency (Cal/EPA), the Department of Public Health (DPH), the Department of Food and Agriculture (DFA), Department of Fish and Wildlife (DFW), or any successor agencies.

"Support equipment" means devices that may not be analytical instruments, but that are necessary to support laboratory tests and operations. These devices include, but are not limited to, autoclaves, balances, ovens, refrigerators, freezers, incubators, water baths, temperature measuring devices, sample preparation devices and volumetric dispensing devices when quantitative results depend on the accuracy of the support equipment.

"Suspension" means a temporary cancellation of a laboratory's certificate of accreditation.

"Test method" means an analytical testing technique or procedure that a State regulatory agency requires to be used to determine the level of a designated analyte in an environmental sample for the purposes of assessing compliance with its statutes, regulations and/or permits.

"Unit of accreditation" or "UoA" means a specific combination of: (a) for ELAP accreditation, a State regulatory agency, or for NELAP accreditation, a matrix, (b) a test method or technology, and (c) a designated analyte or analyte group for which accreditation may be obtained.

ARTICLE C. Accreditation Process

SECTION 1 Accreditation Process

(a) To obtain a certificate of accreditation (certificate), a laboratory shall meet the following requirements:

(1) Submit an application, pursuant to Section 2;

(2) Except for interim and reciprocal certificates, complete an on-site assessment, pursuant to Article Q for ELAP accreditation;

(3) Achieve Acceptable Results in the required proficiency testing studies (PT studies) pursuant to Article Q for ELAP accreditation; and

(4) Pay the required fees pursuant to Article X.

(b) The period of the certificate shall be based on the anniversary of the initial certificate of accreditation and shall be as follows:

(1) For an ELAP certificate, two years;

(2) For an amended ELAP certificate, the time remaining on the certificate from the date it was amended.

(c) To renew a certificate, at least ninety days prior to its expiration date, a laboratory shall submit a renewal application pursuant to Section 2.

SECTION 2 Application for Accreditation.

(a) To apply for an initial, renewed, or amended ELAP certificate, a laboratory shall submit an application to ELAP that includes the following:

(1) Details on the laboratory's type, location, contact information and ownership;

(2) Qualifications of personnel, addressing the requirements in Article F including, Laboratory Director, Supervisors, and Analytical Specialist(s);

(3) FoA(s) and/or UoA(s) for which accreditation is being requested;

(4) A list of all California State regulatory agencies and data users with unique measurement quality objectives.

(5) Quality assurance manual pursuant to Article I for ELAP accreditation

(6) Fees, pursuant to Article X

(7) Signature of the Laboratory Owner, owner's agent, or officer, and date signed.

(b) To remove one or more UoAs or FoAs from its certificate:

(1) In between renewals, the laboratory shall submit a written request to ELAP and receive an amended certificate.

(2) At the time of renewal, the laboratory shall indicate the requested changes on its renewal application.

Article B — Purposes of Laboratory Accreditation

(a) This chapter was promulgated for the following purposes:

(1) The purpose of this chapter is to protect public health, safety, welfare and the environment by ensuring the accuracy, precision, representativeness, comparability, completeness, sensitivity, and reliability of data generated by environmental laboratories by establishing an accreditation program for environmental laboratories which report results to California state regulatory agencies.
(2) To link the data quality needs of the data users of the California state regulatory agencies to the laboratories that analyze sample through measurement quality objectives
(3) To establish an accreditation program for laboratories performing analyses for California state regulatory agencies;
(A) State Water Resources Control Board – Division of Drinking Water
(B) State Water Resources Control Board – Division of Water Quality / Regional Water Quality Control Boards
(C) Department of Toxic Substances Control
(D) Department of Food and Agriculture
(E) Department of Public Health
(F) Department of Fish and Wildlife
(4) To confine a laboratory's scope of accreditation to the Units of Accreditation for which the laboratory is conducting compliance monitoring for the above agencies;
(5) To establish the procedures to be followed by accredited environmental laboratories, and by laboratories seeking to become accredited environmental laboratories;
(6) To require that accreditation be contingent upon continued compliance with the standards of performance set forth in this chapter; and
(7) To establish the enforcement procedures that the ELAP shall follow to ensure that a certified environmental laboratory is in compliance with this chapter.

(b) Compliance with this chapter will assist a laboratory in meeting the data quality objectives of California state regulatory agencies with regard to accuracy, precision, completeness, comparability, and representativeness. The laboratory shall produce data with known quality assurance and quality control procedures, and in accordance with the Units of Accreditation for which it is accredited.

Article D — Quality Management Systems

(a) All laboratories seeking certification in any Unit of Accreditation as identified in Section 64823 within Field(s) of Accreditation 101 through 129, as listed in Health and Safety Code, Section 1017, are conducting analytical activities for environmental regulatory agencies of the State of California for compliance purposes.

(b) This Article establishes the requirements for laboratories seeking accredited under this chapter for personnel, facilities, equipment, standard operating procedures, records, standards, quality assurance, quality control, method selection, sample handling, corrective action, notification, and documentation requirements for laboratories to meet the measurement quality objectives of those environmental regulatory agencies of the State of California.

(c) Laboratories shall conduct their analytical activities under a quality system that incorporates the provisions of this section. The quality system must incorporate the measurement quality objectives of the appropriate data user from California state regulatory agency.

(1) Laboratories accredited in Fields of Accreditation 101 – 106 and 129 shall use measurement quality objectives used by the data users from the State Water Resources Control Board - Division of Drinking Water Programs.
(2) Laboratories accredited in Fields of Accreditation 107 – 113 shall use measurement quality objectives used by the data users from the State Water Resources Control Board - Division of Water Quality or the Regional Water Quality Control Boards or Department of Fish and Wildlife.
(3) Laboratories accredited in Fields of Accreditation 114 – 121 shall use measurement quality objectives used by the data users from the Department of Toxic Substance Control.
(4) Laboratories accredited in Fields of Accreditation 124 – 125 shall use measurement quality objectives used by data users from the Department of Food and Agriculture.
(5) Laboratories accredited in Fields of Accreditation 126 shall use measurement quality objectives used by the Department of Public Health.

(d) Measurement quality objectives may vary with different projects and programs from different data users in different California state regulatory agencies may be found in Quality Assurance Project Plans, Sampling and Analysis Plans, or other similar documents.

(e) If no measurement quality objectives are available, laboratories shall use the measurement quality objectives identified in Article E.

(f) The laboratory's quality management system shall be described in a Quality Management System Manual which will include all elements required in this chapter.

(g) At least one individual, however named, within a laboratory's organization or under the laboratory's employment shall be identified to the program and in the Quality Management System Manual as responsible for establishing, implementing, assessing, and revising, as needed, a laboratory's quality system. This individual may perform other activities.

Article E Measurement Quality Objectives

(a) As identified in Article D of this chapter accredited laboratories are required to incorporate the measurement quality objectives of the data users in California state regulatory agency to which the results are to be reported. However not all data users and California state regulatory agencies have data quality objectives for every sample submitted for analysis. This Article establishes the measurement quality objectives for laboratories to use when the California state regulatory agency or data user does not provide them.

(b) Laboratories will use the appropriate quality control procedures identified in the approved methods identified in unit of accreditation for which the laboratory is accredited and which the data user has requested.

(c) Those units of accreditation which identify methods that do not have their own quality control requirements shall use the following measurement quality objectives.

(1) Negative Controls shall be processed along with and under the same conditions, including all sample preparation steps, as the associated samples in a preparation batch. The purpose of negative controls is to identify contamination.

(A) Method Blanks are not appropriate or required for analysis of pH, alkalinity, conductivity, disinfectant residuals, color, odor, radiochemistry methods, and bio-assay methods.

(B) Method Blanks shall be processed at a frequency of at least one per preparation batch.

(C) Whenever a method blank contains analytes of interest above the detection limit of an analysis, the laboratory shall evaluate the nature of the interference and its effect on each sample in a preparation batch.

(D) A sample in a batch shall be reanalyzed or qualified if the concentration of an analyte of interest in the associated method blank exceeds the highest of any of the following values:

(i) For FOAs 102 – 105 the Detection Limit for Reporting or Minimum Reporting Level where they exist and the Method Detection Limit where they do not.

(ii) five percent (5%) of the Maximum Contaminant Level or Action Level.

(iii) For FOAs 107 – 111 the Minimum Level as identified in the State Implementation Plan or

(iv) five percent (5%) of the lowest criterion in the California Toxics Rule

(iii) For FOAs 114-117, ten percent of the measured concentration of any sample in the batch.

(E) For FOAs 101, 106, and 127 negative controls consist of sterility checks and negative control cultures. These procedures are described in Standard Methods 9020 and 9050 22nd Edition.

(2) Positive Controls shall be processed along with and under the same conditions, including all sample preparation steps, as the associated samples in a preparation batch. The purpose of positive controls is to identify contamination or loss of analyte.

(A) For FOAs 102 – 105, For FOAs 107 – 111, and FOAs 114-117 Laboratory Fortified Blanks shall be processed along with and under the same conditions, including all sample preparation steps, as the associated samples in a preparation batch as positive controls.

(B) Laboratory Fortified Blanks are not appropriate or required for analysis of pH, alkalinity, conductivity, disinfectant residuals, color, or odor.

(C) Laboratory Fortified Blanks shall be processed at a frequency of at least one per preparation batch.

(D) The recovery of analytes should be between 50% and 150%.

(E) For FOAs 101, 106, and 127 positive controls consist of positive control cultures. These procedures are described in Standard Methods 9020 and 9050 22nd Edition.

Article F Laboratory Personnel

(a) The laboratory shall have management and analytical staff with education, training or experience that allows them to comply with the requirements of this chapter and the measurement quality objectives of the particular data user or California state regulatory agency to which they are reporting results.

(b) Each laboratory shall designate a laboratory director. Except as provided in Subsections (c) and/or (d), the laboratory director shall have as a minimum:

(1) A baccalaureate degree in chemistry, biochemistry, biology, microbiology, environmental, sanitary or chemical engineering, natural or physical science; and

(2) Three years of experience in the analysis of chemical, biological, or microbiological samples, prior to being designated laboratory director, subject to the following allowances:

(A) A master's degree in chemistry, biochemistry, biology, microbiology, environmental, sanitary or chemical engineering, natural or physical science may be substituted for one year of the required experience.

(B) A doctorate in chemistry, biochemistry, environmental, sanitary or chemical engineering, biology, microbiology, natural or physical science may be substituted for two years of the required experience.

(c) Except as provided in Subsections (d) and/or (e), prior to being designated a laboratory supervisor an analytical specialist, a person shall have as a minimum a baccalaureate degree in chemistry, biochemistry, biology, microbiology, environmental, sanitary or chemical engineering, natural or physical science; and, if working for the laboratory, be under the supervision of a laboratory director or analytical specialist; and have:

(1) A certification of completion for a course taught by the manufacturer of the sophisticated laboratory instrument which is being used or supervised by the analytical specialist; or

(2) Six months experience operating a sophisticated laboratory instrument to analyze water, wastewater, solid waste, hazardous waste or other environmental samples, or food.

(d) In lieu of meeting the requirements specified in Subsections (a) or (b), a laboratory director or analytical specialist(s) employed by a laboratory owned by a public drinking water or wastewater utility shall have an Analyst/Water Quality Analyst Certificate from the California Water Environment Association (CWEA) or the California-Nevada Section of the American Water Works Association (CA-NV/AWWA), pursuant to Table 64814, as follows:

(1) A laboratory director shall have, or obtain within one year of assuming the position, the highest certificate grade required for the performance of any FoA for which the laboratory is accredited.

(2) An analytical specialist shall have, or obtain within one year of assuming the position, the certificate grade required for the FoA(s) and UoAs for which the analytical specialist conducts, analyses, or supervises others conducting analyses for the laboratory.

Table 64814
Minimum Personnel Certification

Fields of Accreditation (FoAs)	*Minimum Certificate Grade*	*UoAs Allowed*
101, 108	I	All
102, 109	I	Alkalinity, Hardness, Total Filterable Residue, Conductivity, Chloride
109	II	Acidity, BOD, COD, Chlorine Residual, DO, pH, Turbidity, Residues
102, 109	III	All
103, 110	III	All, except those using ICP-MS
104, 111	III	All, except those using GC-MS or LC-MS

(e) The following shall be exempt from meeting Subsections (a), (b) and (c):

(1) A laboratory director, laboratory supervisor, or analytical specialist who was employed by an environmental testing laboratory at the time that the laboratory was accredited, provided that the accreditation date was on or before December 31, 1994.; and

(2) A director of a public health laboratory, pursuant to Health and Safety Code Sections 101150 and 101160.

(f) A laboratory director, or his/her designee, shall be responsible for:

(1) All analytical and operational activities of the laboratory; and

(2) The accuracy and quality of all data reported by the laboratory.

(g) A laboratory director shall assume the position of, or shall designate another person as, the analytical specialist responsible for the use of each sophisticated laboratory instrument in the laboratory.

(h) If a laboratory director leaves and is not replaced within 15 days by a person meeting the laboratory director requirements in this section, a person or persons with lesser qualifications may serve as a temporary director for a period not to exceed ninety days, provided that the laboratory notifies ELAP, describing the qualifications of the temporary director and receives written approval from ELAP. Additional extensions of no more than ninety days beyond the original 90-day period may be granted by ELAP; provided the laboratory can document that its good-faith efforts to fill the position with a qualified director were unsuccessful for reasons beyond its control.

(i) The laboratory director shall ensure that when analytical staff are to begin using a new method, they must be trained and then conduct an initial demonstration of capability.

(1) When the method that the laboratory is accredited for contain protocols for demonstrating initial capability personnel performing analyses using these methods for units of accreditation that the laboratory is accredited for shall perform the protocols and shall meet any associated evaluation criteria and document results.

(2) When the method that the laboratory is accredited for does not contain protocols for demonstrating initial capability, personnel performing analyses using this method for units of accreditation that the laboratory is accredited for, the laboratory shall require that the analyst perform the protocols similar to those of methods with protocols. These may include:

(A) Method blanks with results shall be consistent with requirements in Article E

(B) Certified Reference Materials with a recovery within +/-25% of the target value

(C) Laboratory Fortified Blanks with a recovery within +/-25% of the target value

(D) Matrix Spike Samples with a recovery within +/-25% of the target value

(E) The laboratory may propose alternative protocol to the program which achieve the same objective.

(3)The laboratory director shall ensure that documentation that each person performing a given test on compliance samples has satisfied the demonstration of capability criteria established by the laboratory is retained.

(4) The laboratory director shall ensure that standard operating procedures consistent with Article K are produced and represent current laboratory practice

(5) The laboratory director shall ensure that a quality management system consistent with Article D are produced and represent current laboratory practice.

(6) The laboratory director shall ensure that a quality management system consistent is accurately summarized and described in the quality assurance manual consistent with Article I

(5) The laboratory director and laboratory supervisor shall ensure that the analytical staff are familiar with standard operating procedures and are actually implementing them

(6) The laboratory director and laboratory supervisor shall ensure that the analytical specialist are properly trained on the specialized equipment that they assigned and are using the appropriate standard operating procedures.

Article G Laboratory Facilities and Equipment

A laboratory shall be arranged and operated so that:

(a) Utilities are maintained to allow the laboratory equipment to function and produce analyses for each unit of accreditation for which the laboratory is accredited and meeting for the measurement quality objectives for the data users and California state regulatory agency to which the results are to be reported to;

(b) Ventilation and environmental control are maintained to ensure that analytical results do not exceed quality control limits as specified in the approved test methods or in the laboratory's quality assurance manual consistent with Article I and meeting for the measurement quality objectives for the California state regulatory agency to which the results are to be reported to;

(c) The potential for sample contamination is minimized; and

(d) Analytical equipment conforms to analytical method requirements and allows compliance with the appropriate measurement quality objectives.

(e) All support equipment including but not limited to refrigerators, freezers, ovens, autoclaves, scales, mechanical and automatic volumetric dispensing devices, including pipettes, micro–pipettes, burettes and automatic dilutors and dispensers and thermometers shall be kept in working order by submitting it to routine and preventive maintenance. Standard Operating Procedures consistent with Article F shall be developed for operation and maintenance of support equipment. Records of maintenance shall be kept and made available for review consistent with Article L.

(f) All analytical instruments shall be properly operated and maintained.

(1) All analytical instruments shall be operated by personnel trained in their use as described in Article F. Standard Operating Procedures for the use and maintenance of equipment shall be prepare in accordance with Article K and shall be available to instrument operators.

(2) All instruments shall be properly maintained, inspected and cleaned according the SOP. Records of operation and maintenance activities shall be maintained and made available for review.

(3) Analytical instruments have been shown to be defective or outside of performance specifications identified in the SOP shall be taken out of service and either retired or brought back into specifications.

(4) When analytical instruments leave the direct control of the laboratory for maintenance or for any other reason, the laboratory shall ensure that the functional and calibration status of those analytical instruments are checked or demonstrated to be satisfactory before the instruments are returned to service.

Article H Required Test Methods

(a) Any laboratory requesting accreditation from the ELAP for Units of Accreditation in Fields of Accreditation 101 through 106 and/or 128 as identified in Article J, shall employ those methods identified in H&SC 100852 or as identified by the Division of Drinking Water for regulatory compliance purposes. If a Public Water System has a permit issued by the Division of Drinking Water which requires that Public Water System to use a test method for a specific analyte that had once been listed in the Code of Federal Regulation Title 40 Part 141 but is no longer so listed, a laboratory may seek accreditation for that test method and analyte combination but may only use that combination for samples from that Public Water System. If the permit is updated by the Division of Drinking Water and that requirement to use that method analyte combination is removed, the accreditation for the laboratory shall be revoked.

(b) Any laboratory requesting ELAP accreditation from the State Board / ELAP for Units of Accreditation in Fields of Accreditation 107 through 113 as identified in Article J, shall employ those methods identified in H&SC 100852 or as identified by the State Water Resource Control Board or a Regional Water Quality Control Board or the Department of Fish and Wildlife for regulatory compliance purposes. If a National Pollutant Discharge Elimination System (NPDES) permittee or a Waste Discharge Requirement (WDR) holder or other permit issued by the State Water Resource Control Board or a Regional Water Quality Control Board or the Department of Fish and Wildlife which requires that permittee to use a test method for a specific analyte that had once been listed in the Code of Federal Regulation Title 40 Part 136 but is no longer so listed, a laboratory may seek accreditation for that test method and analyte combination but may only use that combination for samples from that permittee. If the permit is updated by the SWRCB or RWQCB and that requirement to use that method analyte combination is removed, the accreditation for the laboratory shall be revoked.

(c) Any laboratory requesting ELAP accreditation from the State Board / ELAP for Units of Accreditation in Fields of Accreditation 114 through 121 as identified in Article J, shall employ those methods identified in 22 CCR § 66261.24 or as identified by the Department of Toxic Substance Control for regulatory compliance purposes.

(d) Any laboratory requesting accreditation from ELAP for Units of Accreditation in Fields of Accreditation 122 through 125 as identified in Article J, shall employ those methods identified in X or as identified by the Department of Food and Agriculture for regulatory compliance purposes.

(e) Any laboratory requesting accreditation from the ELAP for Units of Accreditation in Fields of Accreditation 126 as identified in Article J, shall employ those methods identified by the Department of Public Health for regulatory compliance purposes.

Article I Quality Assurance Manual

(a) To obtain and maintain ELAP accreditation, each laboratory shall establish, have available for review by ELAP, and implement a quality management system consistent with Article D for all UoA for which it seeks, or is maintaining, accreditation which is summarized and described in a quality assurance manual:

(b) The quality manual shall have a format, however conceived, that addresses the content elements specified in this section. Content elements may be presented in narrative, tabular, schematic or graphical form. The manual shall be a document in hard copy or electronic format traceable to the laboratory.

(c)The quality assurance manual shall address all quality assurance and quality control practices to be employed by the laboratory and shall at least, include the quality assurance and quality control requirements specified in the test methods in the UOAs for which the laboratory holds, or seeks, certification. The quality manual shall include, address or refer to, at a minimum, the following elements:

(1) A description of the Quality Management System consistent with Article D, including.

(A) A list of all FoAs and UoAs consistent with Articles H and J.

(B) A list of all data users from California state regulatory agencies to which the laboratory submits results consistent with the information in the application for accreditation in Article C.

(C) A list of all measurement quality objectives consistent with Article E

(D) A list of all SOPs consistent with Article K

(E) A list of all standards consistent with Article M

(2) Organization and management structure of the laboratory.

(3) Procedures for retention, control and maintenance of documents used in or associated with analyses consistent with Article L.

(4) Procedures for achieving traceability of standards, reagents and reference materials used to derive any results or measurements consistent with Article M.

(5) Procedures for handling samples and documenting chain of custody consistent with Article N.

(6) Lists of major analytical instruments and support equipment consistent with Article G.

(7) Description of the facilities consistent with Article G.

(8) Procedures for evaluating quality control samples, such as method blanks, laboratory fortified blanks, laboratory control samples, matrix fortified samples and replicates consistent with Articles D and E.

(9) Procedures for initiating, following up on and documenting corrective action addressing quality assurance and quality control failures, discrepancies or nonconformance consistent with Article O.

(10) Procedures for reviewing analytical data and reporting analytical results consistent with Article P.

(d) The Laboratory Director shall review, and amend if necessary, the quality management system, and quality program manual, standard operating procedures at least annually. The Laboratory Director shall also review and amend the quality assurance program and manual whenever there are changes in methods or laboratory equipment employed, in the laboratory structure or physical arrangements, or changes in the laboratory organization.

Article J Fields of Accreditation

Pursuant to Article C of this Chapter, a laboratory seeking accreditation shall specify the individual units of accreditation (UoAs) within the Fields of Accreditation (FoAs) in Table 1

Table 1

Fields of Accreditation

FOA	State Regulatory Agency	FOA Name
101	SWRCB – Division of Drinking Water	Microbiology
102	SWRCB – Division of Drinking Water	General Physical and Inorganic Tests
103	SWRCB – Division of Drinking Water	Spectroscopy and Ion Chromatography
104	SWRCB – Division of Drinking Water	Volatile Organic Compounds
105	SWRCB – Division of Drinking Water	Semi-Volatile Organic Compounds
106	SWRCB – Division of Drinking Water	Radiochemical Techniques
107	SWRCB – Division of Water Quality	Microbiology
108	SWRCB – Division of Water Quality	General Physical and Inorganic Tests
109	SWRCB – Division of Water Quality	Spectroscopy and Ion Chromatography
110	SWRCB – Division of Water Quality	Volatile Organic Compounds
111	SWRCB – Division of Water Quality	Semi-Volatile Organic Compounds
112	SWRCB – Division of Water Quality	Radiochemical Techniques
113	SWRCB – Division of Water Quality	Whole Effluent Toxicity
114	Department of Toxic Substances Control	Spectroscopy and Ion Chromatography
115	Department of Toxic Substances Control	Waste Extraction Test
116	Department of Toxic Substances Control	Volatile Organic Compounds
117	Department of Toxic Substances Control	Semi-Volatile Organic Compounds
118	Department of Toxic Substances Control	Radiochemical Techniques
119	Department of Toxic Substances Control	Whole Effluent Toxicity
120	Department of Toxic Substances Control	Physical Properties of Hazardous Waste

121	Department of Toxic Substances Control	Bulk Asbestos Analysis of Hazardous Waste
122	Reserved	
123	Department of Food and Agriculture	Inorganic Chemistry
124	Department of Food and Agriculture	Pesticide Residues by GC-MS
125	Department of Food and Agriculture	Pesticide Residues by GC
126	Reserved	
127	Department of Public Health	Shellfish Sanitation
128	Reserved	
129	SWRCB – Division of Drinking Water	Cryptosporidium

Article K Standard Operating Procedures

(a) Laboratories shall maintain written standard operating procedures that document or reference activities needed to maintain their quality management systems and that enable performing or reproducing an analysis in its entirety as performed at the laboratory.

(b) Standard operating procedures shall, where available, incorporate the measurement quality objectives of the data users of the California state regulatory agency to which results are routinely reported. Otherwise the quality control procedures found in methods identified in the UoAs for which the laboratory has or is seeking accreditation or found in Article E if the standard operating procedure is for a test method.

(c) Standard operating procedures may be documents written by laboratory personnel or may consist entirely of copies of published documents, manuals or procedures if the laboratory follows the chosen source exactly.

(d) Standard operating procedures may consist in part of copies of published documents, manuals or procedures if:

(1) Modifications to the published source are described in writing in additional documents.

(2) Clarifications, changes or choices are completely described in additional documents, when published sources offer multiple options, ambiguous directives or insufficient detail to perform or reproduce an analysis.

(e) Standard operating procedures shall indicate their dates of issue or revision.

(f) There shall be standard operating procedures for test methods performed for programs covered by this chapter.

(g) The standard operating procedures for test methods may consist of published or referenced test methods, or standard operating procedures written by the laboratory as allowed in this section.

(h) The essential elements standard operating procedures for test methods may be presented in narrative, tabular, schematic or graphical form. The analytical methods manual shall be an identifiable document in hard copy or electronic format traceable to the laboratory.

(i) When the analytical methods manual consists of standard operating procedures written by the laboratory, each standard operating procedure shall include, address or refer to, at a minimum, the following elements:

(1) Identification of the test method consistent with Articles H and I.

(2) Applicable analytes consistent with the UOAs listed on the laboratories certificate of accreditation.

(3) Applicable matrices.

(4) Method sensitivity.

(5) Potential interferences.

(6) Equipment and analytical instruments consistent with Article G and the test methods in the UOAs listed on the laboratories certificate of accreditation.

(7) Consumable supplies, reagents and standards identified in the UOAs listed on the laboratories certificate of accreditation.

(8) Sample preservation, storage and hold time.

(9) Quality control samples and frequency of their analysis.

(10) Calibration and standardization.

(11) Procedure for analysis.

(12) Data assessment and acceptance criteria for quality control measures.

(k) When a procedure or test method is used to produce results to be reported to different data users with different measurement quality objectives, a separate standard operating procedure will be prepared for each different user.

(l) Standard operating procedures, whether they describe test methods or not, shall have a standard format in the following order.

(1) Name of the laboratory

(2) Title describing what standard operating procedure encompasses.

(3) Summary of the procedure

(4) Data user of the California state regulatory program to which the results are being submitted

(5) Measurement Quality Objective to be met

(6) Equipment and Supplies

(7) Reagents and Standards

(8) Sample Collection, Preservation, and Storage

(9) Quality Control /Quality Assurance

(10) Calibration and Standardization

(11) Procedure

(12) Data Analysis

Article L Records and Documents

(c) The laboratory shall establish procedures to control and manage all records and documents that form part of its quality system and that are required to demonstrate compliance with this chapter.

(d) The procedures shall be written and consistent with Article K and be part of the Quality Assurance Manual described in Article I.

(e) Each laboratory shall maintain comprehensive records of all laboratory activities, including original observations, calculations and derived data, calibration records and copies of test reports for a minimum of five (5) years

(f) The department may require in writing that records be retained for a longer period than that specified in paragraph (c) if ELAP or a data user from a California state regulatory agency has initiated legal action involving test results or the certification or registration status of the laboratory.

(g) The laboratory shall identify to ELAP a responsible party for retaining documents and records for the required period in the event the laboratory changes ownership or ceases to be accredited.

(h) Records and documents shall be handled and stored in a manner that ensures their permanence and security for the required retention period, and that facilitates their retrieval to demonstrate compliance with this chapter.

(i) Records and documents shall be legible and their entries shall be safeguarded against obliteration, erasures, overwriting, and corruption.

(1) Handwritten records shall be recorded in black or blue ink.

(2) Records and documents that are stored only on electronic media shall be supported by the hardware and software necessary for their retrieval and reproduction into hard copy.

(3) Corrections or other alterations made to entries in records or documents may not obscure the original entry, must be dated and initialed.

(4) The laboratory shall have procedures to prevent unauthorized access or amendments to records and documents.

(j) Administrative records that laboratories shall maintain include:

(1) Certificates of certification or registration issued by ELAP.

(2) Records of personnel qualifications, experience and training when personnel are required to possess or maintain specific Records of demonstration of capability for each analyst required to perform the demonstrations consistent with Article F

(3) Copies of or access to other standards and documents necessary for the laboratory to operate or to maintain compliance with this chapter.

Article M Standards

(k) The laboratory shall ensure that results of analyses can be linked to all the standards and reagents used to derive results. Standards and reagents used in analyses shall conform to the purity specifications contained in approved methods identified in the units of accreditation for which the laboratory is accredited. When approved methods do not specify the purity of the standards and reagents to be used, the laboratory shall choose standards and reagents of sufficient purity to ensure the results consistent with measurement quality objective identified in Article E.

(l) The laboratory shall certify the accuracy of all reference materials used to calibrate or verify the calibration of analytical support equipment. Reference materials shall be calibrated by a body independent of that in charge of analytical operations that can provide traceability to primary standards maintained by National Institute of Standards and Technology.

(m) When reference materials traceable to NIST are not produced, manufactured or commercially available, the laboratory shall use materials of a quality that will ensure the accuracy of the calibrated or verified support equipment for its intended use and consistent with the measurement quality objectives in Article E.

(n) The laboratory may not use standards and reagents beyond the expiration dates identified by the manufacturer, unless the laboratory can verify their reliability in a defensible manner.

(o) The laboratory shall document the identity, source and purity of all standards and reagents used in tests methods performed. The laboratory shall retain records of certificates of analysis or purity, when the records are provided by the supplier, and are necessary to establish the identity, source or purity of standards and reagents.

(p) Original containers of standards and reagents shall be labeled with a receipt and an expiration date.

(q) The laboratory shall document the lot number, manufacturer, date of receipt and the date of expiration of stock standards and reagents separately from their containers to ensure this information will be retained when the containers are discarded.

(r) The laboratory shall maintain records that detail the preparation of intermediate and working standards and reagents consistent with Article L. These records shall link the intermediate and working standards and reagents to their respective originating stocks or neat compounds and shall indicate their date of preparation, expiration and the identity of the preparer.

(s) The laboratory shall retain records and certificates that trace reference materials used to calibrate or verify analytical support equipment to the source of the corresponding reference materials.

(t) The laboratory shall retain records demonstrating that the accuracy of the reference materials has been certified or verified, at the required frequencies, by a body outside of that in charge of analytical operations.

Article N Sample Handling and Chain of Custody

(u) The laboratory shall have and follow a written policy that clearly outlines the conditions under which samples will be accepted or rejected for analysis, or under which associated reported results will be qualified. The policy shall be in the format of a standard operating procedure consistent with Article K and be part of the quality assurance manual as described in Article I. The policy will be provide procedures to ensure that the measurement quality objectives of the data user from a California state regulatory agency for which the samples are being analyzed are met or if no such MQOs exist, the measurement quality objectives of Article E are met.

(v) The policy shall describe how samples received by a laboratory for analysis shall:

(1) Be assigned a unique identification code. This code may be as simple as a location and a date or equivalent so long as it is unique.
(2) The unique identification code shall be placed on a sample container as a durable label.
(3) The unique identification code shall be used as a link to associate samples with their complete history, including treatment and analysis, while in the laboratory's possession.
(4) Chain-of-custody documentation shall be required for samples collected for compliance with this chapter.

(w) The policy shall include the sample preservation procedures and holding times required by state and federal regulations and the measurement quality objectives of the state regulatory agency. If the sample preservation procedures and holding times are not required by state or federal regulations, laboratories shall follow the sample preservation procedures and holding times established in the analytical method identified in the UOA that they are accredited for and are using for the samples being processed.
(1) Laboratories analyzing samples for UOAs found in FOA 101 – 106, 127, and 129 shall be compliant with requirements found in the Code of Federal Regulations Title 40 Section 141
(2) Laboratories analyzing samples for UOAs found in FOA 107 – 113 shall be compliant with requirements found in the Code of Federal Regulations Title 40 Section 136
(3) Laboratories analyzing samples for UOAs found in FOA 114 – 113 shall be compliant with requirements found in the California Code of Regulation Title 22 Division 4.5 Chapter 11
(4) Laboratories accredited in Fields of Accreditation 124 – 125 shall use measurement quality objective used by the Department of Food and Agriculture.

(x) The laboratory shall retain records supplied by the collector in a fashion consistent with Article L to allow the laboratory and ELAP on site assessors to evaluate collection procedures against the laboratory's sample acceptance policy.

(y) When the laboratory provides containers and preservatives for sample collection, including glass bottles, plastic bottles, and bulk sampling containers such as "carboys", the laboratory shall have standard operating procedures in place which address concerns that the containers are adequately

cleaned and not contributing to contamination of samples, do not contain analytes of interest at levels which will affect sample determinations and that the preservatives used are sufficiently pure to maintain the validity of reported results. Containers supplied by the laboratory for sample collection shall allow collecting a sufficient amount of sample to perform all required or requested determinations at the required or desired sensitivity.

(z) The laboratory shall document the receipt and condition of all samples in chronological hard copy or electronic records as well as the history of the sample from collection to analysis. Chain of custody records shall be part of the sample handling policy and practice. The records may be maintained in any format that retains the following information:

(1) The identity of the client or entity submitting samples, or the project associated with the received samples.
(2) The dates of sample collection and laboratory receipt.
(3) The unique sample identification code assigned by the laboratory.
(4) Documentation of sample preservation status and other sample conditions on receipt.
(5) An unequivocal link between the sample identification code assigned by the laboratory and the field collection identification code assigned by the collector.
(6) The reference to requested test methods, when the collector or sample originator specifies them.
(7) Any comments resulting from the inspection undertaken to determine whether samples meet the policy identified above.

(aa) The laboratory shall have procedures and appropriate facilities which will:

(1) Avoid deterioration, contamination, loss or damage of samples during storage.
(2) Samples shall be stored separately from all standards, reagents, food and other potentially contaminating sources.
(3) Samples shall be stored in areas that prevent or minimize cross-contamination.
(4) Sample extracts, digestates, leachates or concentrates, resulting from any initial preparatory step, shall be stored as specified in this subsection.

Article O Corrective Actions

(1) The laboratory shall take corrective action when:
(a) Departures from established policies and procedures in the quality management system consistent with Article D and codified in the Quality Assurance Manual in Article I are identified or become apparent.
(b) Measurement quality objectives consistent with Article E, including measurement quality objectives required by data users from California state regulatory agencies, the individual methods identified in the UoAs for which the laboratory is accredited, or the Article E itself.
(c) Quality control samples and procedures, including proficiency testing samples, fail established acceptance limits or evaluation criteria.
(2) The corrective action shall identify the source of the problem, correct the problem, and have a mechanism to verify the action has had the desired effect.
(3) The laboratory shall document corrective action taken to address the nonconformance and any other changes resulting from corrective action investigations. Changes taken to address failures of quality control samples to meet established acceptance criteria shall be those that resolve or address the failure in an expeditious manner before affected results are released or reported by a laboratory.
(4) The laboratory shall monitor the effectiveness of implemented corrective action changes and take additional corrective action when initial and or subsequent corrective action fails to resolve the nonconformance.

Article P Notification and Reporting

(bb) Laboratories certified for FoAs 101, 102, 103, 104, 105 and/or 106 shall conform to the following reporting and notification requirements.

(1) Laboratories reporting bacterial quality results as required by Title 22, California Code of Regulations, Section 64423.1 shall submit a bacterial monitoring report including information required in Title 22, California Code of Regulations, Sections 64423.1(c)(2) and (c)(3) directly to the Department.

(2) The laboratory shall notify a water supplier's designated contact person as soon as possible, but within 24 hours, and record the method and time of notification or attempted notification, whenever any of the following occur:
(A) The presence of total coliforms, fecal coliforms, or Escherichia coli (E. coli) is confirmed.

(B) A bacterial sample is invalidated due to an interference as defined in Title 22, California Code of Regulations, Section 64425(b).

(C) A nitrate sample exceeds the MCL.

(3) If the laboratory is unable to make direct contact with the supplier's designated contact person within 24 hours, pursuant to subparagraphs (2)(A) or (C), the laboratory shall immediately notify the Department and provide a written record of the time and method of attempted contacts.

(4) All analytical results conducted pursuant to Title 22, California Code of Regulations, Chapter 15, Domestic Water Quality and Monitoring, shall be reported directly to the Department electronically using the Electronic Deliverable Format as defined in The Electronic Deliverable Format [EDF] Version 1.2i Guidelines & Restrictions dated April 2001 and Data Dictionary dated April 2001, by the 10th day of the month following the month in which the analyses were completed.

(5) Whenever a laboratory is requested by a water supplier, pursuant to Title 22, California Code of Regulations, Section 64425(a)(2), to submit evidence invalidating a sample due to laboratory error, the laboratory shall provide the supplier with information which shall include:

(A) A letter from the Laboratory Director to the water supplier agreeing to the invalidation request by reason of laboratory accident or error;

(B) Complete sample identification, laboratory sample log number (if used), date and time of collection, date and time of receipt by the laboratory, date and time of analysis for the sample(s) in question;

(C) Complete description of the error alleged to have invalidated the result(s);

(D) Copies of all analytical, operating, and quality assurance records pertaining to the incident in question; and

(E) Any observations noted by laboratory personnel when receiving and analyzing the sample(s) in question.

(b) Laboratories certified for FoAs 122 and 123 shall verify the identity and quantity of a pesticide residue before reporting the results.

(c) In any arrangements between laboratories involving the transfer of samples, or portions of samples, the laboratory issuing the report of analyses shall include the original of any report(s) (or copy of the original) prepared by all other laboratories

Article Q On-Site Assessment

(a) Each laboratory shall be subject to an on-site assessment to obtain its initial certificate and every two years thereafter by ELAP to verify the information submitted with its ELAP certificate application pursuant to Article C, including compliance with requirements in:

(1) Methods used for each UoA for which the laboratory seeks accreditation consistent with Article H;

(2) Quality Management Systems consistent with Article D

(3) Measurement quality objectives consistent those listed in the application described in Article C and with Article E

(4) Personnel Requirements consistent with Article F

(5) Quality Assurance Manual consistent with Article I

(6) Standard Operating Procedures consistent with Article K

(7) Record keeping and retention consistent with Article L

(8) Standards and traceability consistent with Article M

(9) Sample handling procedures consistent with Article N

(10) Corrective action policy and practice consistent with Article O

(11) Notification and Reporting practice consistent with Article P

(b) Other on-site assessments.

(1) If ELAP identified a deficiency on a previous on-site assessment, the agency may conduct a follow-up on-site assessment.

(2) ELAP may conduct an on-site assessment when a laboratory applies to modify its scope of certification, when a transfer of owner occurs that affects personnel, equipment, or the laboratory facilities, or when a laboratory applies for an exemption or a variance. Any other change occurring in a laboratory's operations that might reasonably be expected to alter or impair analytical capability and quality may trigger an on-site assessment.

(c) ELAP may conduct, at its discretion, either announced or unannounced on-site assessments. Advance notice of an assessment shall not be necessary.

(d) On-site Assessment process

(1) On-site assessors shall arrive at the laboratory during established working hours. The laboratory manager (or, if unavailable, the laboratory manager's designee) shall be located as soon as possible after the assessment personnel arrive on the premises.

(2) A laboratory's refusal to admit the on-site assessors for an on-site assessment shall result in an automatic failure of the laboratory to receive certification or loss of an existing certification by the laboratory, unless there are extenuating circumstances that are accepted and documented by ELAP staff.

(3) An opening conference shall be conducted and shall outline to goals of the on-site assessment, the items to be assessed on-site, records, personnel, equipment, facilities, documents that need to be examined.

(4) On-site assessors may examine any records, equipment, facilities, documents that need to be examined that are part of the UOAs that the laboratory is seeking accreditation for and identified in the application submitted consistent with Article C.

(5) On-site assessors may interview any personnel working in the facility that is identified in the application submitted under Article C or the Quality Assurance Manual identified in Article I or who may have a significant role in the quality of laboratory results.

(6) On-site assessors may ask laboratory personnel to demonstrate how procedures and test methods are actually performed or examine procedures and test method in operation at the time of the on-site assessment. This may include conducting analytical tests, operating support equipment, sampling handling, record keeping, or any other activity described in this Chapter.

(7) A closing conference shall be conducted and shall outline the findings of the on-site assessment. Any deficiencies or deviations for the standards listed in this chapter shall be identified.

(8) The on-site assessors will prepare a letter following the closing conference summarizing the on-site assessment and all deficiencies and a schedule for rectification by the laboratory.

(9) The laboratory may appeal the decision of the on-site assessors to the program within 30 days of receiving the deficiency letter.

(e) Deficiencies deviations from specific requirements found in the methods listed in the UOAs that the laboratory is accredited for found in Article H, or any Article in this Chapter, California Health and Safety Code 100825 – 100920.

White Paper #5: Provisions of the TNI Documents which are Problematic

By David Kimbrough, Pasadena Water & Power

Numerous provisions of The NELAC Institutes (TNI) 2016 are very problematic for laboratories of all sizes but particularly for smaller laboratories. This paper attempts to present a small but representative sample of provision found in the 2016 TNI documents that are problematic.

Submitted to the California State Water Resources Control Board, October 6, 2016

1. Background

On September 6, 2016 the State Board gave notice that they would be holding a Workshop on proposed changes to the laboratory accreditation regulations. The focus of the proposed changes is the Environmental Laboratory Accreditation Program's (ELAP) proposal to use Volume 1 of The NELAC Institute's (TNI) 2016 documents as the basis for laboratory accreditation. The assumption that this proposal is based upon is that Current ELAP standards codified in regulations are inadequate. No one to date has disagreed with the general point, ELAP's Accreditation Standard, which is its regulations, is badly out of date. However, no one has actually identified exactly what are the deficiencies in current regulation and what regulatory authority does ELAP need that it currently lacks. Without a "*Gap Analysis*" to identify these shortcomings, there is no basis to assess any proposal for new regulations. More to the point at hand, there is no basis to say that the 2016 TNI document will actually fix the problems with ELAP's current regulations, whatever they may be, or indeed any problems at all. For example, if the only problem with ELAP's current regulations is that it cites out of date methods, adopting TNI as an accreditation requirement does not solve that problem. If the problem with ELAP's current regulation is that it has vague enforcement procedures, adopting TNI as an accreditation requirement does nothing to solve that problem either.

Quite beyond the question of whether requiring all laboratories to comply with the 2016 TNI documents solves any problems, there is also the matter of problem caused by adopting the TNI documents into regulation. The 2016 TNI document is very long (176 pages), there are well over 1,000 separate requirements in total, and the individual requirements are very broad, general, vague, and ambiguous. Further, the sheer number of requirements to produce written policies, procedures, and document compliance is overwhelming.

The purpose of this whitepaper is to provide a representative sample of the requirements found in 2016 TNI documents and show how they make laboratory accreditation more difficult for both the accredited laboratories and for ELAP.

2. Laboratory Director

Under current California regulation and TNI, every laboratory has to have someone in charge, a "laboratory director" in current regulations or "Technical Manager" in the TNI parlance. Both require that this individual possess a college degree in a laboratory science (e.g. chemistry, biology, microbiology, etc). California regulation however allows certain exceptions. Section 64817(2)(b) allows laboratory directors of drinking water or wastewater utilities to substitute a Cal-NV AWWA or CWEA Laboratory Analyst Certificate in lieu of possession of a college degree in a laboratory science. This exception is provided as it is often difficult for small facilities to get someone with the requisite degree to be a laboratory director.

TNI Volume 1 Module 2 Section 5.2.6.2 Technical Manager Qualification Exceptions also has an exception. It does not include the laboratory analyst certificate exception found in current ELAP regulation, but TNI does include possession of a treatment operators certificate as an exception to possessing of a college degree in a laboratory science. Having an operator certificate does not qualify someone to be a laboratory director. The TNI provision completely misses the point, small utilities need someone with some training to be a laboratory director even if they do not have a college degree. Further, current ELAP regulation requires increasing levels of certification. For example a Grade I Laboratory Analyst Certificate holder can be a laboratory director only for laboratories accredited in basic chemistry and microbiological Fields of Accreditation 101, 108, and some of 102 and 109. A Grade 2 certificate is required for more advanced chemistries and microbiological tests in FOT 109, and a Grade 3 Certificate is required for even more advanced testing in FOTs 102, 103, 104, 109, 110, and 111.

In contrast the TNI document would allow any operator without any laboratory training at all to be a laboratory director. Further, this individual can only be grandfathered in, i.e. he or she has to have been in the employ of the utility as the laboratory director when it became TNI compliant. Once that individual leaves, all future Technical Managers have meet the college degree. It is a one-time exception.

The TNI language is far weaker than current California regulations but then creates a very large problem a few years from adoption as existing certified laboratory directors retire.

3. Internal Audits

TNI Volume 1 Module 2 Section 4.14 requires all laboratories conduct an annual internal audit which contains all of the provisions of the TNI. It is useful at this point to note that about three quarters of all laboratories accredited by ELAP have five or fewer employees and approximately half of all laboratories have two or fewer full time equivalents (FTE) of staff resources. The requirement for a one or two person laboratory to conduct an internal audit annually covering the entire Volume 1 of the TNI documents is a tremendous effort and is mostly a waste of time and limited resources. Even the smallest laboratory is covered by TNI Modules 1, 2, and parts of 4 or 5, which is not less than 90 pages in length. This is tremendous amount of work for any laboratory but for a small laboratory, to do annually and then have an ELAP assessor show up every other year to do yet another assessment. It is not only a lot of work, it is largely pointless. If a small laboratory is not complying with a provision of the TNI document and does not know it, it is highly unlikely that an internal audit will find it. It is hard to see a laboratory with only one person working in it full time would achieve any sort of improvement by auditing him or herself every year.

4. Limit of Quantitation

The term and concept of the "Limit of Quantitation" (LOQ) is used numerous times in Modules 1, 2, and 4. In Module 2, Section 3.0 the LOQ is defined as: "*The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.*" This definition is extremely vague and ambiguous. What specified degree does it mean? What does confidence mean in this context, no definition is provided.

In Module 4 Section 1.5.2.2 there is more text broken down here by each sentence.

a) If a mandated test method or applicable regulation includes protocols for determining quantitation limits, they shall be followed.

b) The procedure used for determining the LOQ shall be documented by the laboratory.

c) The laboratory shall select an LOQ for each analyte, consistent with the needs of their clients, and at least three (3) times the MDL.

d) An LOQ is required for each quality system matrix of interest, technology, method, and analyte...

e) Each selected LOQ shall be verified through analysis of initial verification samples.

f) An initial verification sample consists of a spiked matrix blank at or below the selected LOQ.

g) All sample preservation, processing and analysis steps performed for routine sample analysis shall be included in the LOQ verification testing.

h) The LOQ must be at or above the lowest corresponding calibration standard concentration with the exception of methods using a single point calibration.

i) The laboratory shall establish acceptance criteria for accuracy for the LOQ verification spikes.

The LOQ under TNI can come from unspecified methods or unspecified regulations, if they exist, but if they do not exist, the laboratory has to have its own procedure for determining an LOQ with its own accuracy and precision specifications provided that they are consistent with "client needs".

This is extremely confusing for the laboratories but also for on-site assessors. For example if a laboratory had a large number of customers, each requiring different LOQs depending on determine methods, regulations, client needs, and "quality system matrix", then there could hundreds of different LOQs. How is an on-site assessor to check that all of these different LOQs have been properly determined, verified, and routinely confirmed? For laboratories working only in California, as is the case for the vast majority of ELAP's accredited laboratories, the problem with this section is that California regulatory agencies that use data generated by ELAP accredited laboratories do not use the term "LOQ". The Division of Drinking Water uses the terms Method Detection Limit (MDL), the Minimum Reporting Limit, the Practical Quantitation Limit but not LOQ. Data users do not want or need to know what the LOQ might be. So these laboratories would spend considerable effort to establish an LOQ procedure, determine actual LOQs, verify LOQs, and participate in LOQ on-site assessments but never actually use them.

5. Requests, Tenders and Contracts

Volume 1, Module 2 Section 4.4 requires that *"[t]he laboratory shall establish and maintain procedures for the review of requests, tenders and contracts"*. There are record keeping requirements for noting *"Any differences between the request or tender and the contract shall be resolved before any work commences. Each contract shall be acceptable both to the laboratory and the customer."* A laboratory that does not keep these record can be denied accreditation or have their accreditation revoked. There are also requirements that *"Records of reviews, including any significant changes, shall be maintained. Records shall a/so be maintained of pertinent discussions with a customer relating to the customer's requirements or theresults of the work during the period of execution of the contract."*

This is obviously a great deal of work for the laboratory to maintain all of these records. How this even applies to in-house and utility laboratories which only have one customer is entirely unclear. It is also a great deal of work for ELAP's staff to have to go through all of these records. However, far more importantly, what do these requirements have to with the competency of the laboratory. These sorts of things are completely immaterial to determining whether a laboratory is capable of producing accurate and precise results. This would consumer huge amounts of labor time from laboratories and ELAP personnel while producing no increased protection for public health or protection of the environment.

6. Conclusions

These examples are but a small fraction of the hundreds of requirements that can be found in the 2016 TNI documents. They are cumbersome, vague, ambiguous, complex, time consuming and serve no purpose. Individually, separate from the whole body, each is largely harmless, unnecessary but generating only a limited amount disruption. However when hundreds of such requirements are poured down upon hundreds of laboratories with limited staff and resources, TNI is fatal to many laboratories, especially smaller laboratories in more remote areas.