

# NEW SOURCE CHEMICAL TESTING

## LOUISIANA DEPARTMENT OF HEALTH • OFFICE OF PUBLIC HEALTH

The goal of this requirement is to protect the consumer by ensuring the minimum quality standards of all potential new sources are met. To accomplish this goal, required chemical contaminant sampling must be analyzed from each new source by a LDH-certified Laboratory. Additionally, the results must be provided for review and approval to the Louisiana Department of Health (LDH) – Office of Public Health (OPH) – Engineering Services office prior to the new source being utilized to provide water to consumers.

### NEW SOURCE TESTING REQUIREMENTS

Any Plans and Specifications which include a new water source will be approved with the understanding that the quality of water from all finished wells or intakes shall comply with the National Primary Drinking Water Regulations promulgated by the U.S. Environmental Protection Agency. National Secondary Drinking Water Regulations should be complied with. **The tables below list the constituents that shall be tested for by a LDH-OPH certified laboratory for Drinking Water Analyses – Chemistry and results shall be submitted to our office for review and approval before the new water source is placed into service.** These testing requirements should be placed into all plans and specifications for new water wells and water intakes. Additional testing may be required based on the results of the initial tests. For a list of certified laboratories, please go to: <http://ldh.la.gov/index.cfm/page/490>

Plans and Specifications shall not preclude the necessity of appropriate treatment should the water not comply with these standards. And should any treatment be necessary, plans and specifications must be revised to include the appropriate treatment, and sent to the LDH-OPH – Engineering Services for review and approval.

TABLE 1. INORGANIC CONTAMINANTS (IOCs), NITRATES/NITRITES, AND CYANIDE

IOC CONTAMINANTS	ANALYTICAL CODE	MCL or AL (mg/L)
1 Antimony	1074	0.006
2 Asbestos	1094	7 MFL (> 10um)
3 Arsenic	1005	0.01 – as of Jan 23, 2006
4 Barium	1010	2
5 Beryllium	1075	0.004
6 Cadmium	1015	0.005
7 Chromium	1020	0.1
8 Lead	1030	AL = 0.015
9 Copper	1022	AL = 1.3
10 Cyanide	1024	0.2
11 Fluoride	1025	4.0
12 Mercury	1035	0.002
13 Nitrate	1040	10 (as Nitrogen)
14 Nitrite	1041	1 (as Nitrogen)
15 Selenium	1045	0.05
16 Thallium	1085	0.002

TABLE 2. SYNTHETIC ORGANIC CONTAMINANTS (SOCs)

SOC CONTAMINANTS	ANALYTICAL CODE	MCL (mg/L)
1 Alachlor	2051	0.002
2 Atrazine	2050	0.003
3 Benzo [a] pyrene (PAHs)	2306	0.0002
4 Carbofuran	2046	0.04
5 Chlordane	2959	0.002
6 Dalapon	2031	0.2
7 2, 4-D (2,4-Dichlorophenoxyacetic acid)	2105	0.07
8 Di [2-ethylhexyl] adipate	2035	0.4
9 Di [2-ethylhexyl] phthalate	2039	0.006
10 Dibromochloropropane [DBCP]	2931	0.0002

SOC CONTAMINANTS		ANALYTICAL CODE	MCL (mg/L)
11	Dinoseb	2041	0.007
12	Dioxin (2, 3, 7, 8-TCDD)	2063	0.00000003
13	Diquat	2032	0.02
14	Endothall	2033	0.1
15	Endrin	2005	0.002
16	Ethylene Dibromide [EDB]	2946	0.00005
17	Glyphosate	2034	0.7
18	Heptachlor	2065	0.0004
19	Heptachlor epoxide	2067	0.0002
20	Hexachlorobenzene	2274	0.001
21	Hexachlorocyclo-pentadiene	2042	0.05
22	Lindane	2010	0.0002
23	Methoxychlor	2015	0.04
24	Oxamyl [Vydate]	2036	0.2
25	Pentachlorophenol	2326	0.001
26	Picloram	2040	0.5
27	Polychlorinated biphenyls [PCBs]	2383	0.0005
28	Simazine	2037	0.004
29	Toxaphene	2020	0.003
30	2,4,5-TP [Silvex]	2110	0.05

**TABLE 3. VOLITILE ORGANIC CHEMICALS (VOCs)**

CONTAMINANTS		ANALYTICAL CODE	MCL (mg/L)
1	Benzene	2990	0.005
2	Carbon tetrachloride	2982	0.005
3	o-Dichlorobenzene	2968	0.6
4	para-Dichlorobenzene	2969	0.075
5	1,2-Dichloroethane	2980	0.005
6	1,1-Dichloroethylene	2977	0.007
7	cis-1,2-Dichloroethylene	2380	0.07
8	trans-1,2-Dichloroethylene	2979	0.1
9	Dichloromethane	2964	0.005
10	1,2-Dichloropropane	2983	0.005
11	Ethylbenzene	2992	0.7
12	[Mono]chlorobenzene	2989	0.1
13	Styrene	2996	0.1
14	Tetrachloroethylene	2987	0.005
15	Toluene	2991	1
16	1,2,4-Trichlorobenzene	2378	0.07
17	1,1,1-Trichloroethane	2981	0.2
18	1,1,2-Trichloroethane	2985	0.005
19	Trichloroethylene	2984	0.005
20	Vinyl chloride	2976	0.002
21	Xylenes [total]	2955	10

**TABLE 4. RADIONUCLIDES**

RADIONUCLIDE		ANALYTICAL CODE	MCLs
1	Gross Alpha particle	4109	15 pCi/L
2	Combined Radium 226/228	4010	5 pCi/L
3	Uranium [as of 12/08/03]	4006	30 ug/L
4	Beta particle and Photon emitters	4101	4 mrem/yr <sup>1</sup>
5	Gross Beta	4100	4 mrem/yr <sup>1</sup>

<sup>1</sup>Speciation for Strontium and Tritium is required when Gross Beta exceeds 8 pCi/L.

**TABLE 5. Disinfection By-Product Formation Potential**

Disinfection By Product Potential		ANALYTICAL CODE	Levels
1	Total Organic Carbon (TOC)	4109	
2	Dissolved Organic Carbon (DOC)	2919	
2	Color	1905	15 CU (Secondary MCL)
3	Chloroform	2941	
4	Bromoform	2942	
5	Bromodichloromethane	2943	
6	Dibromochloromethane	2944	
7	Trihalomethanes (THM)	2950	0.080 mg/L (MCL)
8	Monochloroacetic acid	2450	
9	Dichloroacetic acid	2451	
10	Trichloroacetic acid	2452	
11	Monobromoacetic acid	2453	
12	Dibromoacetic acid	2454	
13	Haloacetic Acids (HAA5)	2456	0.060 mg/L (MCL)
14	Bromide	1004	

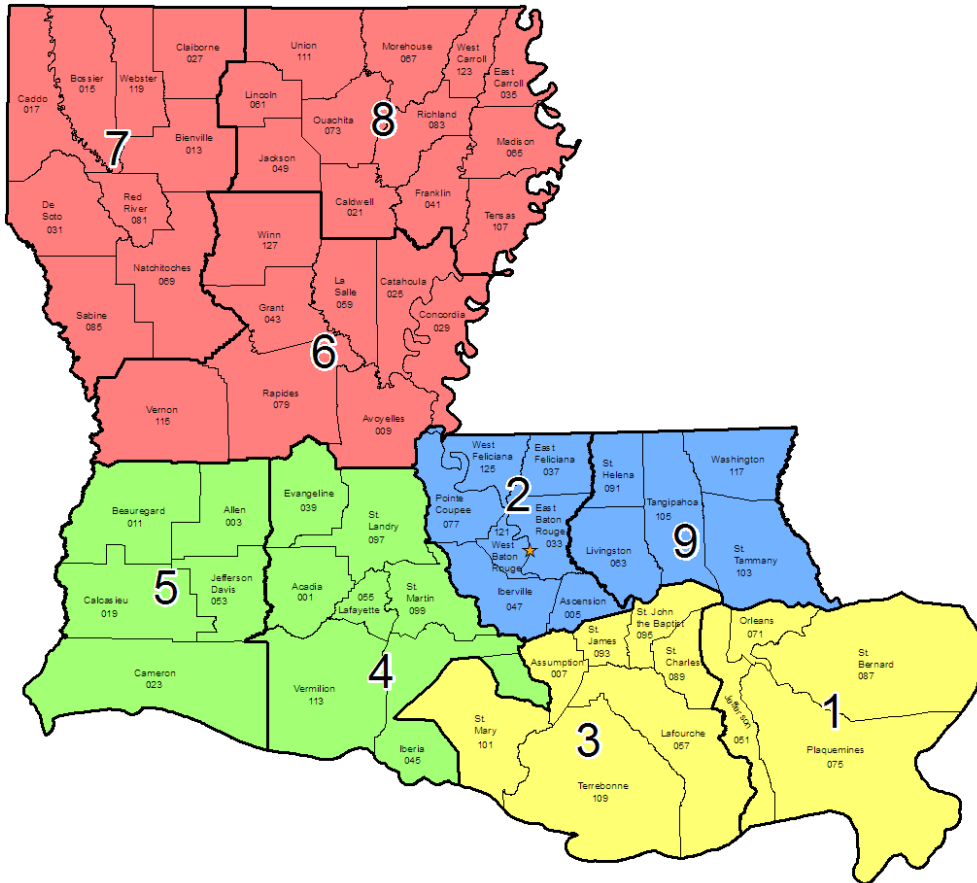
**Results must be submitted to the following Offices for review and approval:**

ATTN: SEAN NOLAN  
 LDH - OPH, ENGINEERING SERVICES  
 P.O. BOX 4489  
 BATON ROUGE, LA 70821

ATTN: REGIONAL OPH OFFICE  
 SEE REGIONAL MAP (NEXT PAGE) FOR ADDRESS

★ <b>Central Office</b>	LDH-OPH-Engineering Services PO Box 4489 Baton Rouge, LA 70821-4489 PHYS: 628 N 4 <sup>th</sup> St, 1 <sup>st</sup> Floor	(225) 342-7499 (Main line) (225) 342-7303 (Fax) <a href="mailto:Safe.Water@la.gov">Safe.Water@la.gov</a> (reporting emergencies after business hours)
<b>Amanda Ames, Chief Engineer</b> – <a href="mailto:Amanda.Ames@LA.GOV">Amanda.Ames@LA.GOV</a>		
<b>Caryn Benjamin, Deputy Chief Engineer</b> - Compliance/Enforcement <a href="mailto:Caryn.Benjamin@la.gov">Caryn.Benjamin@la.gov</a>		
<b>Dan MacDonald, Deputy Chief Engineer</b> - Financial (SRF)/Infrastructure <a href="mailto:Dan.MacDonald@la.gov">Dan.MacDonald@la.gov</a>		
<b>Johan Forsman – Program Manager</b> <a href="mailto:Johan.Forsman@la.gov">Johan.Forsman@la.gov</a>		
<b>Esteban Gonzalez – Operator Certification</b> <a href="mailto:Esteban.Gonzalez@la.gov">Esteban.Gonzalez@la.gov</a>		

<b>Deputy Chief Engineer of Field Operations District 1 and 2</b>			<b>Vacant</b>
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4	6, 7, 8	Barbara Featherston, PE <a href="mailto:Barbara.Featherston@la.gov">Barbara.Featherston@la.gov</a>	Danny Mortimer <a href="mailto:Danny.Mortimer@la.gov">Danny.Mortimer@la.gov</a>



Region	Mailing Address	Telephone Numbers
1	Metro Region 1 935 Gravier St, Ste 1420 New Orleans, LA 70160	(504) 599-1564 (504) 599-0200 (Fax)
2	Capitol Region 2 PO Box 4489 Baton Rouge, LA 70821-4489 PHYS: 628 N 4 <sup>th</sup> St, 1 <sup>st</sup> Floor	(225) 342-7499 (225) 342-7607 (Fax)
3	Teche Region 3 1434 Tiger Dr Thibodaux, LA 70301	(985) 449-5007x345 (985) 447-0920 (Fax)
4	Acadian Region 4 825 Kaliste Saloom Rd Brandywine # 3 Suite100 Lafayette, LA 70508	(337) 262-5316 (337) 262-5638 (Fax)
5	Southwest Region 5 2827 4 <sup>th</sup> Ave, Ste 100 Lake Charles, LA 70601	(337) 475-3200 (337) 475-3222 (Fax)
6	Central Region 6 5604-B Coliseum Blvd. Alexandria, LA 71303	(318) 487-5282 x242 (318) 487-5338 (Fax)
7	Northwest Region 7 1035 Creswell Ave, 3 <sup>rd</sup> Floor Shreveport, LA 71101	(318) 676-7477 (318) 676-7485 (Fax)
8	Northeast Region 8 PO Box 6118 Monroe, LA 71211-6118 PHYS: 1650 Desiard St, 2 <sup>nd</sup> Floor	(318) 361-7201 (318) 362-3163 (Fax)
9	Southeast Region 9 42354 Deluxe Plaza, Ste 12 Hammond, LA 70403	(985) 543-4958 (985) 5434951 (Fax)