

SAN ANTONIO RIVER AUTHORITY
Environmental Regional Laboratory
ANALYTICAL SERVICES FEE SCHEDULE
Effective July 1, 2009
(Subject to revision June 2010)



MICROBIOLOGY

PARAMETER	METHOD	NELAP Accredited Matrices ³	HOLD TIME ¹	Minimum SAMPLE VOLUME	PRESERVATION	FEE
Coliform – Total Colilert, Present/Absent	SM 9223 20 th Ed.	DW	30hr	100 mL	Cool to ≤ 6°C	\$20.00
Coliform - Total MF Presumptive & Confirm.	SM 9222B/C 20 th Ed.	DW	30hr	100 mL	Cool to ≤ 6°C	\$25.00
E. coli Colilert, MPN, Quanti-Tray	SM 9223B 20 th Ed.	DW & NPW	8hr ²	300 mL	Cool to ≤ 6°C	\$25.00
E. coli Membrane Filter	SM 9222D/G 20 th Ed	NPW	8hr ²	300 mL	Cool to ≤ 6°C	\$25.00
Fecal Coliform Membrane Filter	SM 9222D 20 th Ed	NPW	8hr ²	300 mL	Cool to ≤ 6°C	\$22.00
Fecal Streptococcus	SM 9230C 20 th Ed.	NPW	8hr ²	300 mL	Cool to ≤ 6°C	\$30.00
Heterotrophic Plate Count	SM 9215B 20 th Ed.	DW	24hr	100 mL	Cool to ≤ 6°C	\$30.00

CHEMISTRY

PARAMETER	METHOD	NELAP Accredited Matrices ³	HOLD TIME ¹	Minimum SAMPLE VOLUME	PRESERVATION	FEE
Alkalinity Total	SM 2320B 20 th Ed.	NPW	14d	300 mL	Cool to ≤ 6°C	\$22.00
Ammonia Non-Distilled Potentiometric	SM 4500D 20 th Ed.	NPW	28d	100 mL	Cool to ≤ 6°C H ₂ SO ₄ to pH < 2	\$22.00
Ammonia Distilled Potentiometric	SM 4500B/D 20 th Ed.	NPW	28d	100 mL	Cool to ≤ 6°C H ₂ SO ₄ to pH < 2	\$35.00
Biochemical Oxygen Demand (BOD) Five Day	SM 5210B 21 st Ed.	NPW	48hr	1 L	Cool to ≤ 6°C	\$32.00
Carbonaceous Biochemical Oxygen Demand (CBOD) Five Day	SM 5210B 21 st Ed.	NPW	48hr	1 L	Cool to ≤ 6°C	\$32.00
Chemical Oxygen Demand (COD)	SM 5220D 20 th Ed.	NPW	28d	100 mL	Cool to ≤ 6°C H ₂ SO ₄ to pH < 2	\$35.00
Chlorine Residual - Total	SM 4500CL F 20 th Ed.	NPW	Analyze Immediately 15 min	300 mL	Cool to ≤ 6°C (no air space and limited light exposure)	\$10.00
Chlorophyll-a and pheophytin-a spectrophotometric	SM 10200 H 18 th Ed.	NA	48hr unfiltered 21d filtered	2 L	unfiltered in the dark 0 ≤ 6°C; filtered frozen	\$50.00
Conductance, Specific (lab)	EPA 120.1	DW & NPW	24hr or 28d if samples are filtered w/in 24 hours of collection	100 mL	Cool to ≤ 6°C	\$10.00
Dissolved Oxygen Winkler Method	SM 4500OC 21 th Ed.	NA	8hr	1 L	Cool to ≤ 6°C	\$25.00
Hardness, Total Titrimetric	SM 2340C 20 th Ed.	DW & NPW	6 months	200 mL	Cool to ≤ 6°C HNO ₃ or H ₂ SO ₄ to pH < 2	\$23.00
Total Hardness Calculation (calcium+magnesium)	SM 2340B 20 th Ed.	NPW	6 months	250 mL	1+1 HNO ₃ to pH < 2	\$40.00

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Nitrogen – Total/Calculated	Nitrate-N, Nitrite-N, TKN	NA	NA	NA	NA	\$95.00
Nitrogen - Total Kjeldahl	Automated Method based on EPA 351.2, Rev. 2	NPW	28d	100 mL	Cool to ≤ 6°C H ₂ SO ₄ to pH < 2	\$45.00
Orthophosphate - Dissolved	EPA 365.3	NPW	48hr	250 mL	Cool to ≤ 6°C, filter immediately	\$30.00
pH (lab)	SM 4500H ⁺ B 20 th	NPW	15min	100 mL	Analyze Immediately	\$7.00
Phosphorus - Dissolved	EPA 365.3	NA	24hr	250 mL	Cool to ≤ 6°C, filter immediately H ₂ SO ₄ to pH < 2	\$35.00
Phosphorus - Total	EPA 365.3	NPW	28d	250 mL	Cool to ≤ 6°C H ₂ SO ₄ to pH < 2	\$35.00
Total Organic Carbon (TOC)	SM 5310C 20 th Ed.	NPW	28d	250 mL	Cool to ≤ 6°C H ₂ SO ₄ to pH < 2 (no air space, limited light exposure)	\$40.00
Total Solids (TS)	SM 2540B 20 th Ed.	NPW	7d	500 mL	Cool to ≤ 6°C	\$20.00
Total Suspended Solid (TSS)	SM 2540D 20 th Ed.	DW & NPW	7d	1 L	Cool to ≤ 6°C	\$20.00
Total Dissolved Solid (TDS)	SM 2540C 20 th Ed.	DW & NPW	7d	500 mL	Cool to ≤ 6°C	\$30.00
Turbidity	EPA 180.1	NPW	48hr	100 mL	Cool to ≤ 6°C	\$20.00

ANIONS

PARAMETER	METHOD	NELAP Accredited Matrices	HOLD TIME ¹	Minimum SAMPLE VOLUME	PRESERVATION	FEE
Bromide	EPA 300.0	DW & NPW	28d	100 mL	None Required	\$25.00
Chloride	EPA 300.0	DW & NPW	28d	100 mL	None Required	\$25.00
Fluoride	EPA 300.0	DW & NPW	28d	100 mL	None Required	\$25.00
Nitrate as N	EPA 300.0	DW & NPW	48hr	100 mL	Cool to ≤ 6°C	\$25.00
Nitrite as N	EPA 300.0	DW & NPW	48hr	100 mL	Cool to ≤ 6°C	\$25.00
Sulfate	EPA 300.0	DW & NPW	28d	100 mL	Cool to ≤ 6°C	\$25.00

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METALS

PARAMETER	METHOD	NELAP Accredited Matrices ³	HOLD TIME ¹	Minimum SAMPLE VOLUME	PRESERVATION	FEE
Metals	EPA 200.8 Rev. 5.4	NPW	6 months	250 mL	1+1 HNO ₃ to pH < 2	\$20.00/each
Aluminum (Al), Arsenic (As), Antimony (Sb), Barium (Ba), Beryllium (Be), Cadmium (Cd), Calcium (Ca), Chromium (Cr), Cobalt (Co), Copper (Cu), Iron (Fe), Lead (Pb), Magnesium (Mg), Manganese (Mn), Molybdenum (Mo), Nickel (Ni), Potassium (K), Selenium (Se), Silver (Ag), Sodium (Na), Thallium (Tl), Uranium (U), Zinc (Zn)						
Metals	EPA 200.8 Rev. 5.4	DW	6 months Hg-28days	250 mL	1+1 HNO ₃ to pH < 2	\$20.00/each
Aluminum (Al), Arsenic (As), Antimony (Sb), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Copper (Cu), Lead (Pb), Manganese (Mn), Mercury (Hg), Nickel (Ni), Selenium (Se), Silver (Ag), Thallium (Tl), Uranium (U), Zinc (Zn)						
<u>NELAP Accreditation not applicable</u> - Iron (Fe), Magnesium (Mg), Molybdenum (Mo), Potassium (K), Calcium (Ca), Sodium (Na)						

FIELD

PARAMETER	METHOD	NELAP Accredited	FEE
Conductance, Specific	SWQM Procedures	NA	\$10.00
Dissolve Oxygen, Membrane Electrode	SWQM Procedures	NA	\$10.00
pH	SWQM Procedures	NA	\$7.00
Chlorine Residual Total	SWQM Procedures	NA	\$10.00
Temperature	SWQM Procedures	NA	\$5.00
Field Sampling Labor: \$65.00/hr and \$0.55/mile			

¹ Hold Time - the maximum time samples may be held prior to analysis and still be considered valid or not compromised

² 6 hour transit, 2 hour preparation time

³ DW – Drinking water. NPW – Non-potable water.

Refer to the following link for current accreditation status:

http://www.sara-tx.org/site/water_quality/laboratory_services/index.php

Sample Containers

Samples are to be submitted to the laboratory in approved sample containers. Approved sample containers are provided by the laboratory at no additional charge.

Other Parameters

With advanced notice and prior arrangements, the SARA Environmental Sciences Department may develop and implement other Chemistry and Microbiology parameters upon request. For parameters that the SARA Environmental Sciences Department does not specialize in, we maintain arrangements with other NELAP accredited laboratories for analytical testing.

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Sample Submittal

All samples should be submitted by 3:00 p.m. Monday-Friday. Samples are not accepted on holidays, after hours, or weekends unless arranged with the Laboratory Services Coordinator (210-302-3649).

Sample Turn-Around-Time

The SARA Environmental Regional Laboratory turn-around-time for in-house analyses is 10 to 14 business days for chemistry parameters and 3 to 5 business days for microbiology parameters.

Sample turn-around-time for subcontracted analyses is normally between 20 to 40 business days.

An expedited turn-around-time may be arranged depending on parameters tested, hold times, and laboratory workload. A "Rush Fee" is assessed accordingly per sample:

Same day to 3 days	3x Normal Fee
3 to 6 days	2x Normal Fee

Shipping Fees

The client is invoiced for all shipping fees and a \$15 handling fee when outsourcing samples to another laboratory for analytical testing. If the client provides SARA Environmental Regional Laboratory with a shipping service account number, only a \$15 handling fee will be invoiced.

Pricing – Arrangements

The SARA Environmental Regional Laboratory reserves the right to correct misprints or change the prices in this fee schedule. Prices may vary for high volume clients or special projects. Testing services are paid by cash or check upon sample receipt – credit cards are not accepted. Clients submitting four or more samples per month may setup a SARA account and will be invoiced monthly. Other invoicing and payment requests may be accommodated if accompanied by a purchase order or memorandum describing the terms of payment and invoicing.

References

1. Standard Methods For the Examination of Water and Wastewater, 18th Edition, 1992
2. Standard Methods For the Examination of Water and Wastewater, 20th Edition, 1998
3. Standard Methods For the Examination of Water and Wastewater, 21st Edition, 1998
4. TCEQ, Surface Water Quality Monitoring Procedures, Volume 1 & 2
5. EPA Analytical Methods may be viewed at National Environmental Method Index located at <http://www.nemi.gov>