



**ENVIRONMENTAL  
RESOURCE ASSOCIATES®**  
The Industry Standard™

April 13, 2005

Josie Longoria  
Guadalupe Blanco River Auth  
933 E Court  
Seguin, TX 78155

Enclosed is your final report for ERA's WatR™ Pollution Proficiency Testing (PT) Study, WP-121. Your final report includes an evaluation of all results submitted by your laboratory to ERA. Attached is a table listing which regulatory agencies have been sent a copy of your final results and the report type received by those agencies.

#### Data Evaluation Protocols

ERA's WP-121 PT standards contain every analyte included in every state and national PT program. All analytes have been evaluated using the following tiered approach. If the analyte is listed in the USEPA's National Standards for Water Proficiency Testing Studies Criteria Document, December 1998, the evaluation was completed by comparing the reported result to the acceptance limits generated using the EPA's National Standards. If the analyte is not included in the EPA's National Standards, but is included in the National Environmental Laboratory Accreditation Conference (NELAC) PT Field of Testing list (June 2000), the evaluation has been completed by comparing the reported result to the acceptance limits generated using the evaluation criteria contained in the NELAC standards. If the analyte is not included in either national PT program, the reported result has been evaluated using the procedures outlined in ERA's Standard Operating Procedure for the Generation of Performance Acceptance Limits (SOP 0260).

#### Corrective Action Help

As part of your accreditation(s), you may be required to identify the root cause of any "Not Acceptable" results, implement the necessary corrective actions, and then satisfy your PT requirements by participating in a Supplemental (QuiK™ Response) or future ERA PT study. If you need help, ERA's technical staff is available to help your laboratory resolve any technical issues that may be impairing your PT performance and possibly affecting your routine data quality. Our laboratory and technical staff have well over three hundred years of collective experience in performing the full range of environmental analyses. As part of our technical support, ERA offers QC samples that can be helpful in helping you work through your technical issues.



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Thank you for your participation in ERA's WatR™ Pollution Proficiency Testing Study, WP-121. If you have any questions, please contact myself, or Curtis Wood, Quality Assurance Director, at 1-800-372-0122.

Sincerely,

A handwritten signature in black ink that reads "Shawn Kassner".

Shawn Kassner  
Proficiency Testing Manager

attachments  
smk



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<b>Regulatory Agency</b>	<b>Agency Requested Report Type</b>	<b>Agency Lab ID</b>	<b>Contact</b>
Texas	Complete Report	TX00010	Max Phillips



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In my role as ERA's Quality Assurance Director, I have independently reviewed all aspects of ERA's WatR™ Pollution Proficiency Testing Study, WP-121, for compliance with all USEPA, NELAC, NIST NVLAP, and all state technical and program requirements in effect during this study, as well as those of our ISO 9001 Registered Quality System.

All aspects of ERA's WP-121 Study, from standard manufacture to final report generation, were completed by ERA in accordance with the "National Standards for Water Proficiency Testing Studies Criteria Document", USEPA December 30, 1998. ERA has reviewed all of the data that is contained in this report and has made every possible effort to make it complete, accurate and compliant. However, if you find anything in your report that you feel is incomplete, inaccurate or have any quality-related issues, please call me directly at 1-800-372-0122. As required by ERA Standard Operating Procedure for Handling Product and Service Problems (SOP 0150, Rev. 7.0), we will initiate an internal investigation and take corrective action as appropriate.

On behalf of ERA, thank you again for your participation in WP-121.

Sincerely,

Curtis J. Wood  
Quality Assurance Director

ERA Laboratory Code: G7783-01 EPA ID: TX00010

Report Issued: 04/13/05  
Study Dates: 02/07/05 - 03/24/05**WP Study Definitions:**

The Reported Value is the value that the laboratory reported to ERA.

The ERA Assigned Values are established per the USEPA's guidelines contained in the National Standards for Water Proficiency Testing Studies Criteria Document, December 1998, and the National Environmental Laboratory Accreditation Conference (NELAC) program criteria as applicable. A parameter not added to the standard is given an Assigned Value of "0" per the guidelines contained in the USEPA's Criteria Document and NELAC standards.

The Acceptance Limits and Warning Limits are established per the USEPA's guidelines contained in the National Standards for Water Proficiency Testing Studies Criteria Document, December 1998, the NELAC PT program criteria, or ERA's SOP for the Generation of Performance Acceptance Limits™ as applicable. For a further discussion of how your results were evaluated, please see the cover letter that accompanied the enclosed report.

The Performance Evaluation:

- Acceptable = Reported Value falls within the Acceptance Limits.
- Not Acceptable = Reported Value falls outside of the Acceptance Limits.
- Check for Error = Reported Value falls within the Acceptance Limits and outside of the Warning Limits.
- No Evaluation = Reported Value cannot be evaluated.

The Method Description is the method the laboratory reported to ERA.

Any Performance Evaluation left blank indicates results were evaluated as 'Not Reported'.

**WP Study Discussion:**

ERA's WatR™ Pollution Proficiency Testing Study, WP-121, has been reviewed by ERA Senior Management and certified compliant with the requirements of the USEPA's National Standards for Water Proficiency Testing Studies Criteria Document (December 1998), the NELAC Standards Chapter 2 and Associated Appendices, applicable state PT programs, and those contained in the National Institute of Standards and Technology NVLAP Handbooks 150 and 150-19. ERA is a NIST NVLAP accredited PT Provider (Lab Code 200386-0).

This report contains data that are not covered by the NVLAP accreditation.

ERA's WatR™ Pollution Study, WP-121, standards were examined for any anomalies. A full review of all accuracy verification, homogeneity and stability data was completed. All analytical verification data for all analytes in the WP-121 standards met the acceptance criteria contained in the USEPA's National Criteria Document for Water Proficiency Testing Studies, December 1998, and the National Voluntary Laboratory Accreditation Program Handbook 150-19 for Chemical Calibration for Providers of Proficiency Testing.

The data submitted by participating laboratories was also examined for study anomalies. There were no anomalies observed during the statistical review of the WP-121 data.

WatR™ Pollution Study, WP-121, reports shall not be reproduced except in their entirety and not without the permission of the participating laboratories. The report must not be used by the participating laboratories to claim product endorsement by NVLAP or any agency of the U. S. government.

If you have any questions regarding ERA's WatR™ Pollution Proficiency Testing Study, WP-121, please contact Shawn Kassner, Proficiency Testing Manager, or Curtis Wood, Quality Assurance Director, at 1-800-372-0122.

Study: **WP-121**

ERA Laboratory Code: **G7783-01**

Laboratory Name: **Guadalupe Blanco River  
Auth**

Report Type: **Complete**

Report Method: **Method A**

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EPA ID: TX00010  
ERA Laboratory Code: G7783-01  
Report Issued: 04/13/05  
Study Dates: 02/07/05 - 03/24/05

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Warning Limits	Performance Evaluation	Method Description
<b>pH</b>								
0019	pH †	S.U.	6.73	6.70	6.53 - 6.87	6.59 - 6.81	Acceptable	SM 4500-H+
<b>Hardness</b>								
0072	Total Suspended Solids (TSS) †	mg/L	45.2	46.9	35.2 - 50.3	37.7 - 47.7	Acceptable	SM 2540 D.
0023	Calcium †	mg/L	67.0	50.7	45.3 - 57.5	47.3 - 55.5	Not Acceptable	SM 3111 B.
0024	Magnesium †	mg/L	22.1	22.9	20.0 - 25.7	21.0 - 24.7	Acceptable	SM 3111 B.
1550	Calcium Hardness (CaCO <sub>3</sub> )	mg/L	168	126	106 - 150		Not Acceptable	SM 3500-Ca
0022	Total Hardness (CaCO <sub>3</sub> ) †	mg/L	219	221	202 - 241	208 - 235	Acceptable	SM 2340 C. EDTA
<b>Demand</b>								
0038	BOD †	mg/L	138	138	70.1 - 207	92.9 - 184	Acceptable	SM 5210 B.
0102	CBOD †	mg/L	152	119	53.4 - 185	75.3 - 163	Acceptable	SM 5210 B.
0036	COD †	mg/L	227	224	175 - 253	188 - 240	Acceptable	SM 5220 D.
0037	TOC †	mg/L	86.4	88.5	74.0 - 102	78.6 - 97.0	Acceptable	SM 5310 C.
<b>Simple Nutrients</b>								
0031	Ammonia as N †	mg/L	10.5	10.2	7.90 - 12.4	8.65 - 11.7	Acceptable	SM 4500-NH3
0032	Nitrate as N †	mg/L	28.8	28.1	22.3 - 33.3	24.1 - 31.5	Acceptable	EPA 300.0
1820	Nitrate + Nitrite as N	mg/L		28.1	22.3 - 33.3			
0033	Ortho-phosphate as P †	mg/L	3.90	4.02	3.43 - 4.64	3.63 - 4.44	Acceptable	EPA 300.0
<b>Complex Nutrients</b>								
0034	Total Kjeldahl Nitrogen †	mg/L		21.8	15.9 - 26.9	17.8 - 25.1		
0035	Total phosphorus as P †	mg/L	0.84	0.818	0.618 - 0.999	0.681 - 0.935	Acceptable	SM4500PB.5
<b>Total Residual Chlorine</b>								
0098	Total Residual Chlorine †	mg/L	2.80	2.92	2.39 - 3.45	2.57 - 3.27	Acceptable	SM 4500-CI G.

All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

† Indicates analytes included in ERA's NIST/NVLAP accreditation. Lab Code 200386-0

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**EPA ID: TX00010**  
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**Report Issued: 04/13/05**  
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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Warning Limits	Performance Evaluation	Method Description
<b>Trace Metals</b>								
0001	Aluminum †	µg/L		1120	955 - 1280	1010 - 1220		
0016	Antimony †	µg/L		485	338 - 585	379 - 544		
0002	Arsenic †	µg/L	729	750	631 - 877	672 - 836	Acceptable	SM 3113 B.
1015	Barium	µg/L		619	532 - 705			
0003	Beryllium †	µg/L		405	344 - 457	363 - 439		
1025	Boron	µg/L		764	620 - 978			
0004	Cadmium †	µg/L	192	168	143 - 192	151 - 184	Check for Error	SM 3113 B.
0006	Chromium †	µg/L	499	552	481 - 625	505 - 601	Check for Error	SM 3113 B.
0005	Cobalt †	µg/L		830	730 - 930	763 - 896		
0007	Copper †	µg/L	618	607	551 - 666	570 - 647	Acceptable	SM 3111 B.
0008	Iron †	µg/L	442	432	379 - 492	398 - 473	Acceptable	SM 3111 B.
0012	Lead †	µg/L	328	326	281 - 370	296 - 355	Acceptable	SM 3113 B.
0010	Manganese †	µg/L	778	663	595 - 737	619 - 713	Not Acceptable	SM 3111 B.
0074	Molybdenum †	µg/L		537	462 - 614	487 - 589		
0011	Nickel †	µg/L	197	194	169 - 220	178 - 212	Acceptable	SM 3113 B.
0013	Selenium †	µg/L	501	551	436 - 639	470 - 605	Acceptable	SM 3113 B.
0017	Silver †	µg/L	150	150	128 - 172	136 - 165	Acceptable	SM 3113 B.
0075	Strontium †	µg/L		175	149 - 201	157 - 192		
0018	Thallium †	µg/L		646	521 - 750	559 - 711		
0014	Vanadium †	µg/L		458	411 - 502	426 - 487		
0015	Zinc †	µg/L	1100	1120	993 - 1260	1040 - 1210	Acceptable	SM 3111 B.
<b>Minerals</b>								
0027	Alkalinity as CaCO <sub>3</sub> †	mg/L	83.2	82.7	74.7 - 90.3	77.3 - 87.7	Acceptable	SM 2320 B.
0028	Chloride †	mg/L	85.0	87.8	79.5 - 95.9	82.2 - 93.2	Acceptable	EPA 300.0
0020	Conductivity at 25°C †	µmhos/cm	570	553	508 - 598	523 - 583	Acceptable	SM 2510
0029	Fluoride †	mg/L	3.38	3.45	3.02 - 3.84	3.15 - 3.70	Acceptable	EPA 300.0
0026	Potassium †	mg/L	35.0	36.3	31.4 - 41.3	33.1 - 39.7	Acceptable	SM 3111 B.
0025	Sodium †	mg/L	88.4	93.3	84.3 - 102	87.3 - 99.0	Acceptable	SM 3111 B.
0030	Sulfate †	mg/L	36.0	35.8	28.9 - 41.8	31.0 - 39.6	Acceptable	EPA 300.0
0021	Total Dissolved Solids at 180°C †	mg/L	396	389	296 - 482	327 - 451	Acceptable	SM 2540 C.
1950	Total Solids at 105°C	mg/L	546	406	361 - 445		Not Acceptable	SM 2540 G.

All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

† Indicates analytes included in ERA's NIST/NVLAP accreditation. Lab Code 200386-0