



MF0826-51

**Annual Contract for Wastewater and Water Laboratory
Services**

Issue Date: 8/27/2026

Questions Deadline: 9/10/2026 02:00 PM (CT)

Response Deadline: 9/17/2026 02:00 PM (CT)

Contact Information

Contact: Christy Williams, Buyer III

Address: 801 Main St

Suite 315

Beaumont, TX 77701

Phone: (409) 880-3758

Email: christy.williams@beaumonttexas.gov

Event Information

Number: MF0826-51
Title: Annual Contract for Wastewater and Water Laboratory Services
Type: Invitation to Bid
Issue Date: 8/27/2026
Question Deadline: 9/10/2026 02:00 PM (CT)
Response Deadline: 9/17/2026 02:00 PM (CT)

Notes:
It is the intention of the City of Beaumont, Texas to **secure a commercial analytical testing laboratory to perform all of the analytical testing described in these specifications for the Water Utilities Department.**

Bid Attachments

MF0826-51_specs.pdf

[Download](#)

Bid Specifications

Requested Attachments

Bid Sheet Continued

(Attachment required)

Upload the completed Bid Sheet Continued Form with your bid submittal. The form is located in the Bid Specifications located under the Attachments Tab.

HB1295 Form

(Attachment required)

Upload the completed and notarized HB1295 Form with your bid submittal. The form is located in the Bid Specifications located under the Attachments Tab.

HB89 Form

(Attachment required)

Upload the completed and notarized HB89 Form with your bid submittal. The form is located in the Bid Specifications located under the Attachments Tab.

Local Bidder Preference

IF APPLICABLE, upload the completed and notarized Local Bidder Preference Form with your bid submittal. The forms are located in the Bid Specifications located under the Attachments Tab.

Statement of City Charter

(Attachment required)

Upload the completed Statement of City Charter Form with your bid submittal. The form is located in the Bid Specifications located under the Attachments Tab.

Bid Attributes

1 Kind of Company (check one)

☐ Corporation

☐ Partnership

☐ Sole Proprietor

(Required: Check all that apply)

2 Corporation Officers or Partners

If corporation, please list names and addresses of three (3) top corporation officers.
If partnership, please list names and addresses of partners.
If sole proprietor, please list as N/A.

(Required: Maximum 4000 characters allowed)

3 Number of years in operation.

(Bidding company must have been in verifiable business under current company name for a minimum of eighteen (18) months.)

(Required: Maximum 1000 characters allowed)

4 Gross Revenues of past two (2) years

\$

(Required: Numbers only)

5 Current number of employees

(Required: Numbers only)

6 Largest dollar amount of contract currently in effect with a business

\$

(Required: Numbers only)

7 Has your organization ever failed to complete any work that it was awarded?

☐ Yes

☐ No

(Required: Check all that apply)

8 If Yes, please provide explanation.

(Optional: Maximum 4000 characters allowed)

MF0826-51

1
4

Reference 2

- Facility
- Address
- City, State, Zip Code
- Telephone Number
- Contact Person
- Email Address
- Dates of Service

(Required: Maximum 4000 characters allowed)

1
5

Reference 3

- Facility
- Address
- City, State, Zip Code
- Telephone Number
- Contact Person
- Email Address
- Dates of Service

(Required: Maximum 4000 characters allowed)

1
6

Telephone number answered Monday – Friday, 8:00 A.M. – 5:00 P.M.

(____) ____ - ____ ext: _____

(Required)

1
7

In Case of Emergency

Contact Name(s) and Phone Number(s)

(Required: Maximum 4000 characters allowed)

1
8**CONFLICT OF INTEREST QUESTIONNAIRE****For vendor doing business with local governmental entity .****This questionnaire reflects changes made to the law by H.B. 23, 84th Leg., Regular Session.**

This questionnaire is being filed in accordance with Chapter 176, Local Government Code, by a vendor who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the vendor meets requirements under Section 176.006(a).

By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the vendor becomes aware of facts that require the statement to be filed. See Section 176.006(a-1), Local Government Code.

A vendor commits an offense if the vendor knowingly violates Section 176.006, Local Government Code. An offense under this section is a misdemeanor.

1
9**Name of vendor who has a business relationship with local governmental entity.**

*(Required: Maximum 1000 characters allowed)*2
0**Check this box if you are filing an update to a previously filed questionnaire.**

(The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than the 7th business day after the date on which you became aware that the originally filed questionnaire was incomplete or inaccurate.)

☐ Yes*(Optional: Check if applicable)*2
1**Name of local government officer about whom the information is being disclosed.**

Name of Officer

*(Required: Maximum 1000 characters allowed)*2
2**Subparts A and B**

Describe each employment or other business relationship with the local government officer, or a family member of the officer, as described by Section 176.003(a)(2)(A). Also describe any family relationship with the local government officer. Complete subparts A and B for each employment or business relationship described. Attach additional pages as necessary.

(Required: Maximum 4000 characters allowed)

2
3

A.

Is the local government officer or a family member of the officer receiving or likely to receive taxable income, other than investment income, from the vendor?

☐ Yes

☐ No

(Required: Check all that apply)

2
4

B.

Is the vendor receiving or likely to receive taxable income, other than investment income, from or at the direction of the local government officer or a family member of the officer AND the taxable income is not received from the local governmental entity?

☐ Yes

☐ No

(Required: Check all that apply)

2
5

Employment or Business Relationship Named in Section 1

Describe each employment or business relationship that the vendor named in Section 1 maintains with a corporation or other business entity with respect to which the local government officer serves as an officer or director, or holds an ownership interest of one percent or more.

(Required: Maximum 4000 characters allowed)

2
6

Gift

Check this box if the vendor has given the local government officer or a family member of the officer one or more gifts as described in Section 176.003(a)(2)(B), excluding gifts described in Section 176.003(a-1).

☐ Yes

☐ No

(Required: Check all that apply)

2
7

Signature of vendor doing business with the government entity

Enter Name and Date

Form Provided by Texas Ethics Commission

www.ethics.state.tx.us

Revised 1/1/2021

(Required: Maximum 1000 characters allowed)

CONFLICT OF INTEREST QUESTIONNAIRE**For vendor doing business with local governmental entity.**

A complete copy of Chapter 176 of the Local Government Code may be found at <https://statutes.capitol.texas.gov/?tab=1&code=LG&chapter=LG.176&artSec=>. For easy reference, below are some of the sections cited on this form.

Local Government Code § 176.001(1-a): "Business relationship" means a connection between two or more parties based on commercial activity of one of the parties. The term does not include a connection based on:

- (A) a transaction that is subject to rate or fee regulation by a federal, state, or local governmental entity or an agency of a federal, state, or local governmental entity;
- (B) a transaction conducted at a price and subject to terms available to the public; or
- (C) a purchase or lease of goods or services from a person that is chartered by a state or federal agency and that is subject to regular examination by, and reporting to, that agency.

Local Government Code § 176.003(a)(2)(A) and (B):

(a) A local government officer shall file a conflicts disclosure statement with respect to a vendor if: ***

(2) the vendor:

(A) has an employment or other business relationship with the local government officer or a family member of the officer that results in the officer or family member receiving taxable income, other than investment income, that exceeds \$2,500 during the 12-month period preceding the date that the officer becomes aware that

(i) a contract between the local governmental entity and vendor has been executed; or

(ii) the local governmental entity is considering entering into a contract with the vendor;

(B) has given to the local government officer or a family member of the officer one or more gifts that have an aggregate value of more than \$100 in the 12-month period preceding the date the officer becomes aware that:

(i) a contract between the local governmental entity and vendor has been executed; or

(ii) the local governmental entity is considering entering into a contract with the vendor.

Local Government Code § 176.006(a) and (a-1)

(a) A vendor shall file a completed conflict of interest questionnaire if the vendor has a business relationship with a local governmental entity and:

(1) has an employment or other business relationship with a local government officer of that local governmental entity, or a family member of the officer, described by Section 176.003(a)(2)(A);

(2) has given a local government officer of that local governmental entity, or a family member of the officer, one or more gifts with the aggregate value specified by Section 176.003(a)(2)(B), excluding any gift described by Section 176.003(a-1); or

(3) has a family relationship with a local government officer of that local governmental entity. (a-1) The completed conflict of interest questionnaire must be filed with the appropriate records administrator not later than the seventh business day after the later of:

(1) the date that the vendor:

(A) begins discussions or negotiations to enter into a contract with the local governmental entity; or

(B) submits to the local governmental entity an application, response to a request for proposals or bids, correspondence, or another writing related to a potential contract with the local governmental entity; or

(2) the date the vendor becomes aware:(A)

(A) of an employment or other business relationship with a local government officer, or a family member of the officer, described by Subsection (a);

(B) that the vendor has given one or more gifts described by Subsection (a); or

(C) of a family relationship with a local government officer.

29

Wage Rate Requirements

Attention is called to the fact that there must be paid, on this project, not less than the prevailing Highway-Heavy, Municipal and Utilities wage rates for Jefferson County or, as applicable, wage rates for Federally Funded Construction Projects. It shall be the duty of the Contractor to keep posted on all the latest revisions. Also, qualifications being equal, citizens of the City of Beaumont shall be given preference in employment by any Contractor doing work for the City under contract. This is in accordance with Article XVII, Section 7, Page 39 of the Charter of the City of Beaumont, Texas, as adopted on December 6, 1947, which is as follows:

"Section 7 – Citizens Given Preference in Employment: Except as herein otherwise provided, qualifications being equal, citizens of Beaumont shall be given preference in employment by the City as well as by any contractor doing work for the City under contract, and such contractors shall pay the prevailing rate of wages paid for the class of work done; and qualifications, prices and quality of material being equal, citizens of Beaumont shall be given preference in awarding of all contracts over which the City has jurisdiction, provided that this section shall not interfere with the system of purchasing supplies for the various departments by competitive bidding."

State law states a prevailing wage which can be determined by the local Government or use the Department of Labor statistics. Federal Law states that you must follow Davis Bacon requirements which also utilizes the Department of Labor statistics.

Prevailing Wage and Inflation Reduction Act information can be found at: <https://www.dol.gov/agencies/whd/IRA>
Wage Determinations can be found at: <https://sam.gov/wage-determinations>

☐ I have read and acknowledge Wage Rate Requirements

(Required: Check if applicable)

Bid Lines

1

Package Header

Significant Industrial User (SIU) Monitoring of Conventional Parameters - Data Outline

Total: \$

Package Attributes

1. Is your laboratory NELAP accredited with the State of Texas?

☐ Yes

☐ No

(Required: Check all that apply)

2. Do you have an approved written QA/QC Standard Operating Procedures Manual in Place?

☐ Yes

☐ No

(Required: Check all that apply)

3. Can you provide LEVEL 4 reporting?

☐ Yes

☐ No

(Required: Check all that apply)

4. Does your laboratory utilize the a fully functional LIMS system and is it capable of providing real-time online access by customer for monitoring?

☐ Yes

☐ No

(Required: Check all that apply)

5. Does your laboratory have a fully traceable set of calibration standards for your instrumentation?

☐ Yes

☐ No

(Required: Check all that apply)

6. Can you provide, on demand, historical records of instrumentation calibration?

☐ Yes

☐ No

(Required: Check all that apply)

7. Can your laboratory perform each and every contemplated test in-house?

☐ Yes

☐ No

(Required: Check all that apply)

8. Do you propose to sub-contract any of the contemplated testing?

☐ Yes

☐ No

(Required: Check all that apply)

9. Has your laboratory ever been cited, violated, fined or reprimanded, for any cause, by any governmental agency either state or federal?

☐ Yes

☐ No

(Required: Check all that apply)

10. Number of years as an analytical testing lab for water and domestic and industrial wastewater analysis.

(Required: Numbers only)

11. Findings of most recent laboratory inspection:

(Required: Maximum 1000 characters allowed)

Package Items

1.1 Biochemical Oxygen Demand - 5 Day

(Response required)

Quantity: 28 UOM: EA Price: \$ Total: \$

Supplier Notes:

☐ No bid

☐ Additional notes
(Attach separate sheet)

1.2 Chemical Oxygen Demand*(Response required)*Quantity: 28 UOM: EA Price: \$ Total: \$Supplier Notes: _____

- ☐
- No bid
-
- ☐
- Additional notes
-
- (Attach separate sheet)

1.3 Total Suspended Solids*(Response required)*Quantity: 28 UOM: EA Price: \$ Total: \$Supplier Notes: _____

- ☐
- No bid
-
- ☐
- Additional notes
-
- (Attach separate sheet)

1.4 Oil & Grease*(Response required)*Quantity: 28 UOM: EA Price: \$ Total: \$Supplier Notes: _____

- ☐
- No bid
-
- ☐
- Additional notes
-
- (Attach separate sheet)

1.5 Total Cyanide*(Response required)*Quantity: 28 UOM: EA Price: \$ Total: \$Supplier Notes: _____

- ☐
- No bid
-
- ☐
- Additional notes
-
- (Attach separate sheet)

1.6 Total Phenol*(Response required)*Quantity: 28 UOM: EA Price: \$ Total: \$Supplier Notes: _____

- ☐
- No bid
-
- ☐
- Additional notes
-
- (Attach separate sheet)

1.7 Total Metals

(Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Silver, and Zinc)

*(Response required)*Quantity: 28 UOM: EA Price: \$ Total: \$Supplier Notes: _____

- ☐
- No bid
-
- ☐
- Additional notes
-
- (Attach separate sheet)

1.8 Nonlyphenol
(Response required)

Quantity: 28 UOM: EA Price: \$ Total: \$

Supplier Notes: _____

☐ No bid
☐ Additional notes
(Attach separate sheet)

2 Package Header

Significant Industrial User (SIU) Monitoring of Survey Parameters

Total: \$

Package Items

2.1 Ammonia as Nitrogen
(Response required)

Quantity: 19 UOM: EA Price: \$ Total: \$

Supplier Notes: _____

☐ No bid
☐ Additional notes
(Attach separate sheet)

2.2 Total Kjeldahl Nitrogen
(Response required)

Quantity: 19 UOM: EA Price: \$ Total: \$

Supplier Notes: _____

☐ No bid
☐ Additional notes
(Attach separate sheet)

2.3 Total Phosphate
(Response required)

Quantity: 19 UOM: EA Price: \$ Total: \$

Supplier Notes: _____

☐ No bid
☐ Additional notes
(Attach separate sheet)

2.4 SGT-HEM
(Response required)

Quantity: 5 UOM: EA Price: \$ Total: \$

Supplier Notes: _____

☐ No bid
☐ Additional notes
(Attach separate sheet)

2.5 Hexavalent Chromium*(Response required)*Quantity: 5 UOM: EA Price: \$ Total: \$ Supplier Notes: _____
_____☐ No bid
☐ Additional notes
(Attach separate sheet)**2.6 Toxic Pollutants 30TAC 307 Attachment I***(Response required)*Quantity: 5 UOM: EA Price: \$ Total: \$ Supplier Notes: _____
_____☐ No bid
☐ Additional notes
(Attach separate sheet)**2.7 GC/MS scans for the following pollutants listed in 40 CFR, PT. 122, Appendix D, Table V: Dimethyl Amine, Epichlorohydrin, Formaldehyde, and Xylene.***(Response required)*Quantity: 1 UOM: EA Price: \$ Total: \$ Supplier Notes: _____
_____☐ No bid
☐ Additional notes
(Attach separate sheet)**2.8 GC/MS scan for Xylene, Acetone, and Dioxane***(Response required)*Quantity: 1 UOM: EA Price: \$ Total: \$ Supplier Notes: _____
_____☐ No bid
☐ Additional notes
(Attach separate sheet)**3 Package Header****Significant Industrial User (SIU) Monitoring of "Specific" Pollutants of Concern**Total: \$ **Package Items****3.1 1,2-Benzisothiazolin-3-one***(Response required)*Quantity: 6 UOM: EA Price: \$ Total: \$ Supplier Notes: _____
_____☐ No bid
☐ Additional notes
(Attach separate sheet)

3.2 GC analysis for total Petroleum Hydrocarbons (TPH) and total BTEX (Benzene, Toluene, Ethylbenzene, and Xylene)

(Response required)

Quantity: 22 UOM: EA Price: \$ Total: \$

Supplier Notes: _____

☐ No bid
☐ Additional notes
(Attach separate sheet)

3.3 GC/MS scan for priority pollutants listed in 40 CFR, Part 122, Appendix D, Table II

(Response required)

Quantity: 5 UOM: EA Price: \$ Total: \$

Supplier Notes: _____

☐ No bid
☐ Additional notes
(Attach separate sheet)

3.4 Total Phosphate

(Response required)

Quantity: 5 UOM: EA Price: \$ Total: \$

Supplier Notes: _____

☐ No bid
☐ Additional notes
(Attach separate sheet)

3.5 Formaldehyde

(Response required)

Quantity: 4 UOM: EA Price: \$ Total: \$

Supplier Notes: _____

☐ No bid
☐ Additional notes
(Attach separate sheet)

4 Package Header

Categorical Industrial User Monitoring Centralized Waste Treatment, CWT

Total: \$

Package Items

4.1 Cobalt, Tin, Bis (2-ethylhexyl) phthalate, Carbozole, n-Decane, Fluoranthene, n-Octadecane

(Response required)

Quantity: 2 UOM: EA Price: \$ Total: \$

Supplier Notes: _____

☐ No bid
☐ Additional notes
(Attach separate sheet)

5 Package Header

Categorical Industrial User Monitoring Metal Finishing

(The Total Toxic Organic, TTO, shall include the list below which is the summation of all the quantifiable values greater than 0.01 mg/L.)

Total: \$

Package Items

5.1 Total Toxic Organic List

(See Technical Specifications, page 18, Section 1.1.4)

(Response required)

Quantity: 1 UOM: EA Price: \$ Total: \$

Supplier Notes: _____

☐ No bid
☐ Additional notes
(Attach separate sheet)

6 Package Header

Commercial Wastewater Discharges – Data Outline

Total: \$

Package Items

6.1 Oil & Grease

(Response required)

Quantity: 60 UOM: EA Price: \$ Total: \$

Supplier Notes: _____

☐ No bid
☐ Additional notes
(Attach separate sheet)

7 Package Header

Raw Wastewater Influent

Total: \$

Package Items

7.1 Table II

(40 CFR, Part 122, Appendix D), Toxic Pollutants (30TAC 307) see Attachment I, and Cyanide Amenable to Chlorination, Hexavalent Chromium, and Molybdenum

(Response required)

Quantity: 2 UOM: EA Price: \$ Total: \$

Supplier Notes: _____

☐ No bid
☐ Additional notes
(Attach separate sheet)

7.2 Table III

(40 CFR, Part 122, Appendix D), and Cyanide Amenable to Chlorination, Hexavalent Chromium, and Molybdenum

(Response required)

Quantity: 4 UOM: EA

Price: \$

Total: \$

Supplier Notes:

☐ No bid

☐ Additional notes
(Attach separate sheet)

8 Package Header**Constructed Wetland Effluent**

Total: \$

Package Items**8.1 Table II**

(40 CFR, Part 122, Appendix D), Toxic Pollutants (30TAC 307) see Attachment I, and Cyanide Amenable to Chlorination, Hexavalent Chromium, and Molybdenum

(Response required)

Quantity: 2 UOM: EA

Price: \$

Total: \$

Supplier Notes:

☐ No bid

☐ Additional notes
(Attach separate sheet)

8.2 Table III

(40 CFR, Part 122, Appendix D), and Cyanide Amenable to Chlorination, Hexavalent Chromium, and Molybdenum

(Response required)

Quantity: 4 UOM: EA

Price: \$

Total: \$

Supplier Notes:

☐ No bid

☐ Additional notes
(Attach separate sheet)

8.3 Glyphosate

(Response required)

Quantity: 4 UOM: EA

Price: \$

Total: \$

Supplier Notes:

☐ No bid

☐ Additional notes
(Attach separate sheet)

9 Package Header**Dewatered Bio-Solids**

Total: \$

Package Items

9.1 40 CFR, Part 122, Appendix D, Table II

(Response required)

Quantity: 1 UOM: EA Price: \$ Total: \$

Supplier Notes: _____

☐ No bid
☐ Additional notes
(Attach separate sheet)

9.2 40 CFR, Part 122, Appendix D, Table III

(Response required)

Quantity: 1 UOM: EA Price: \$ Total: \$

Supplier Notes: _____

☐ No bid
☐ Additional notes
(Attach separate sheet)

9.3 Molybdenum

(Response required)

Quantity: 1 UOM: EA Price: \$ Total: \$

Supplier Notes: _____

☐ No bid
☐ Additional notes
(Attach separate sheet)

9.4 Complete TCLP

(Toxicity Characteristic Leachate Procedure) including pesticides/herbicides

(Response required)

Quantity: 1 UOM: EA Price: \$ Total: \$

Supplier Notes: _____

☐ No bid
☐ Additional notes
(Attach separate sheet)

1
0

Package Header

Drinking Water

Total: \$

Package Items

10.1 Bromide

(Response required)

Quantity: 12 UOM: EA Price: \$ Total: \$

Supplier Notes: _____

☐ No bid
☐ Additional notes
(Attach separate sheet)

10.2 Sulfide, Sulfur, Sulfate*(Response required)*Quantity: 12 UOM: EA Price: \$ Total: \$Supplier Notes: _____

- ☐
- No bid
-
- ☐
- Additional notes
-
- (Attach separate sheet)

10.3 Manganese*(Response required)*Quantity: 12 UOM: EA Price: \$ Total: \$Supplier Notes: _____

- ☐
- No bid
-
- ☐
- Additional notes
-
- (Attach separate sheet)

10.4 Iron*(Response required)*Quantity: 12 UOM: EA Price: \$ Total: \$Supplier Notes: _____

- ☐
- No bid
-
- ☐
- Additional notes
-
- (Attach separate sheet)

10.5 Ammonia as Nitrogen*(Response required)*Quantity: 12 UOM: EA Price: \$ Total: \$Supplier Notes: _____

- ☐
- No bid
-
- ☐
- Additional notes
-
- (Attach separate sheet)

10.6 Nitrate/Nitrite*(Response required)*Quantity: 12 UOM: EA Price: \$ Total: \$Supplier Notes: _____

- ☐
- No bid
-
- ☐
- Additional notes
-
- (Attach separate sheet)

10.7 Fluoride*(Response required)*Quantity: 12 UOM: EA Price: \$ Total: \$Supplier Notes: _____

- ☐
- No bid
-
- ☐
- Additional notes
-
- (Attach separate sheet)

10.8 Total Phosphate*(Response required)*Quantity: 12 UOM: EA Price: \$ Total: \$Supplier Notes: _____

- ☐
- No bid
-
- ☐
- Additional notes
-
- (Attach separate sheet)

10.9 Orthophosphate*(Response required)*Quantity: 12 UOM: EA Price: \$ Total: \$Supplier Notes: _____

- ☐
- No bid
-
- ☐
- Additional notes
-
- (Attach separate sheet)

10.10 Total Copper*(Response required)*Quantity: 12 UOM: EA Price: \$ Total: \$Supplier Notes: _____

- ☐
- No bid
-
- ☐
- Additional notes
-
- (Attach separate sheet)

10.11 Dissolved Copper*(Response required)*Quantity: 12 UOM: EA Price: \$ Total: \$Supplier Notes: _____

- ☐
- No bid
-
- ☐
- Additional notes
-
- (Attach separate sheet)

10.12 Lead*(Response required)*Quantity: 12 UOM: EA Price: \$ Total: \$Supplier Notes: _____

- ☐
- No bid
-
- ☐
- Additional notes
-
- (Attach separate sheet)

10.13 Alkalinity*(Response required)*Quantity: 12 UOM: EA Price: \$ Total: \$Supplier Notes: _____

- ☐
- No bid
-
- ☐
- Additional notes
-
- (Attach separate sheet)

10.14 Calcium*(Response required)*Quantity: 12 UOM: EA Price: \$ Total: \$ Supplier Notes: _____
_____☐ No bid
☐ Additional notes
(Attach separate sheet)**10.15 Silica***(Response required)*Quantity: 12 UOM: EA Price: \$ Total: \$ Supplier Notes: _____
_____☐ No bid
☐ Additional notes
(Attach separate sheet)**10.16 Total Aluminum***(Response required)*Quantity: 12 UOM: EA Price: \$ Total: \$ Supplier Notes: _____
_____☐ No bid
☐ Additional notes
(Attach separate sheet)

Supplier Information

Company Name:

Contact Name:

Address:

Phone:

Fax:

Email:

Supplier Notes

By submitting your response, you certify that you are authorized to represent and bind your company.

Print Name

Signature