THE CITY OF SAN FERNANDO

**Addendum No. 2** **June 30, 2025**

**Project: ENGINEERING SERVICES FOR WELL NO. 2A BLENDING PROJECT FOR NITRATE TREATMENT, Project No. 7630**

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The following change to the **Notice Inviting Proposals** shall apply for this project.

**1.**

**a. Previously stated as:**

Project: Engineering Services for Well No 2a Blending Project for Nitrate Treatment, Project No. 7630

**b. Change to:**

Engineering Services for Well No 2A Nitrate Treatment System, Project No. 7630

**2.**

**a. Previously stated as:**

Three original and one electronic copy of the proposal must be submitted to the CITY CLERK in a sealed envelope at CITY HALL, 117 Macneil Street, San Fernando, California, 91340, not later than **11:00** a.m. on **July 10th, 2025**.

**b. Changed to:**

Three original and one electronic copy of the proposal must be submitted to the CITY CLERK in a sealed envelope at CITY HALL, 117 Macneil Street, San Fernando, California, 91340, not later than **4:00 p.m.** on **July 24, 2025**

**3.**

**a. Previously stated as:**

**GENERAL. INFORMATION**

The City of San Fernando is requesting proposals from qualified, interested firms to provide professional Engineering Design Services for Well No. 2A Blending Project for Nitrate Treatment. The purpose of this Project is to blend, inline, Nitrate impacted Well

No. 2A source water with treated water from the City's Ion Exchange Nitrate Treatment Plants No. 1 and 2 to control Nitrate contaminant levels. The key elements of the project include the constructing new water ductile iron pipe (DIP) mains to route the groundwater supply of the Well No. 2A to blend with the treated plant effluent prior to the delivery to the onsite reservoirs.

Consultant shall prepare construction documents for the Project for bidding and provide technical support during construction. The design will also include the construction of the piping, flow control valves at the treatment plant site for blending and delivery to the Lower Reservoirs 2A and 5. As part of the Project, the existing Well No. 2A pumping equipment will be upgraded. The Consultant shall also assist in required permitting and environmental documents.

**b. Change to:**

**GENERAL. INFORMATION**

The City of San Fernando is requesting proposals from qualified, interested firms to provide professional Engineering Design Services for a new Well No. 2A Nitrate Treatment System. The purpose of this Project is to add an Envirogen SimPACK Ion Exchange Nitrate Treatment System at the well 2A site location. The New Treatment System is to remove Nitrate impacted water from Well No. 2A source water to control Nitrate contaminant level. The key elements of the project include the constructing and upgrading of well 2A and the addition of a new Envirogen SimPACK Ion Exchange Nitrate Removal System. The new system is to be housed in a newly designed building expanding the current building to incorporate and accommodate the new treatment system and its related appurtenances. The new treatment system effluent treated water will produce acceptable water quality to deliver directly into the distribution system.

Consultant shall prepare construction documents for the Project for bidding and provide technical support during construction. The design will also include the construction of the piping, flow control valves at the well 2a and treatment plant site for acceptable effluent water quality to be delivery directly into the distribution system. As part of the Project, the existing Well No. 2A pumping equipment, MCC Panels, tie into SCADA , Electrical Components and transfer switches will be upgraded. The Consultant shall also assist in required permitting and environmental documents.

**4.**

**a. Previously stated as:**

## SCOPE OF SERVICES

**I. PURPOSE**

The City of San Fernando (City) is soliciting proposals from qualified Consultants to provide Engineering Design Services for Well No. 2A Blending Project for Nitrate Treatment – City Project No. 7630 (Project).
The purpose of this Project is to blend, inline, Nitrate impacted Well No. 2A source water with treated water from the City's Ion Exchange Nitrate Treatment Plants No. 1 and 2 for the reduction of overall Nitrate levels delivered to the distribution system. Consultant shall prepare construction documents for the Project for bidding and provide technical support during construction.

## II. PROJECT SCHEDULE

The City plans to complete the design and prepare construction documents by August 2025. It is anticipated that the construction will be completed in the two phases for separate bidding, although the blended system shall be operational with the completion of Phase 1.

a. Phase 1: Construct transmission mains in the streets, including the main from Well No. 2A to the reservoir site and a new main segment in Dronfield Avenue dedicated for Well No. 7A.

b. Phase 2: Key upgrades to Well No. 2A pumping equipment, electrical upgrades, flow control piping, and necessary valving for blending.

**b. Changed to:**

# SCOPE OF SERVICES

## I. PURPOSE

The City of San Fernando (City) is soliciting proposals from qualified Consultants to provide Engineering Design Services for Well No. 2A Nitrate Treatment System– City Project No. 7630 (Project).

The purpose of this Project is to add a New Envirogen SimPACK Ion Exchange Treatment System inline at impacted Well No. 2A site for the reduction of overall Nitrate levels delivered to the distribution system. Consultant shall prepare construction documents for the Project for bidding and provide technical support during construction.

## II. PROJECT SCHEDULE

The City plans to complete the design and prepare construction documents as soon as possible or no later than Jan 2026. Construct and remodel existing with the addition of a new section of building to house the new 2000 gpm Envirogen SimPACK Ion Exchange Treatment System and its necessary related appurtenances at Well 2a Site along with all necessary pipe work to be able to run Well 2A into the new Nitrate Treatment System . To be include are necessary upgrades to Well No. 2A pumping equipment, electrical upgrades, flow control piping, and necessary valveing with water line extension or modification necessary to be able to incorporate the new Envirogen SimPACK Ion Exchange Treatment System to Well 2A and into the distribution system including necessary SCADA system upgrades to monitor and control the new system.

The City of San Fernando is requesting proposals from qualified, interested firms to provide professional Engineering Design Services for a new Well No. 2A Nitrate Treatment System. The purpose of this Project is to add a 2000 gpm Envirogen SimPACK Ion Exchange Nitrate Treatment System at the well 2A site location. The New Treatment System is to remove Nitrate impacted water from Well No. 2A source water

to control Nitrate contaminant levels. The key elements of the project include the constructing and implementation of a well 2A 2000 gpm Envirogen SimPACK Ion Exchange Nitrate Removal System. The new system is to be housed in a newly designed building expanding the current building to incorporate and accommodate the new treatment system and its related appurtenances. The new treatment system effluent treated water will produce acceptable water quality to deliver directly into the distribution system.

Consultant shall prepare construction documents for the Project for bidding and provide technical support during construction. The design will also include the construction of the piping, flow control valves at the well 2a and treatment plant site for acceptable effluent water quality to be delivery directly into the distribution system. As part of the Project, the existing Well No. 2A pumping equipment, MCC Panels,SCADA, Electrical Components and transfer switches including the expansion of the building to house the entire system within an air controlled building/facility will be upgraded and or added as needed to maximize efficiency. The Consultant shall also assist in required permitting and environmental documents. The project will be geared to fast track the operation of the well 2a water treatment use of water as soon as possible.

**5.**

**a. Previously stated as:**

**PROJECT GOALS AND BENEFITS**

In order to achieve Nitrate goals for Well No. 2A, the City considered two alternatives: 1) blending system and/or 2) constructing a new treatment plant. After taking into account overall technical, environmental, and budgetary aspects of the two alternatives, the City decided that the blending will be the most desirable option: Disadvantages of constructing a new Nitrate Treatment Plant

- There is no adequate space at Well 2A site for a new IX Treatment Plant
- Aesthetic/noise and environmental issues in the residential neighborhood
- No local sewer lines for waste discharge at Well No. 2A site
- Difficulty in maintaining and costs related to an additional operation unit General Benefits of a Blending System

**b. Change to**

In order to achieve Nitrate goals for Well No. 2A, the City has elected to go with the construction of a new 2000 gpm Envirogen SimPACK Ion Exchange Treatment System similar to Plant 1 and Plant 2 systems located at the lower reservoir site. The new treatment system will be housed in a newly remodeled and or expanded building to be constructed at Well 2a site to house the new 2000 gpm Envirogen SimPACK Ion Exchange Treatment System and its related appurtenances in an air controlled environment building/facility .

· There is adequate space at Well 2A site for a new 2000 Envirogen SimPACK Ion Exchange Treatment Plant

· Aesthetic/noise and environmental issues in the residential neighborhood will be mitigated by the construction of a new building to house the treatment system in an air controlled environment building/ facility to help mitigate noise levels for the surrounding neighborhood

· A local sewer lines for waste discharge at Well No. 2A site is within proximity

**6.**

**a. Previously stated as:**

## VI. SCOPE OF WORK

The key elements of the project scope include the design of new water ductile iron pipe (DIP) mains ranging from 12 inch to 18 inch to blend the ground water supply from the Well No. 2A with the Ion Exchange Treatment Plant effluent prior to the delivery to the reservoirs. The design will also include the construction of the piping, flow control valves at the treatment plant for blending and delivery to the Lower Reservoirs 2A and 5. A segment of pipeline The proposed 12-inch water main in Dronfield Avenue will run parallel and adjacent to the Wilson Canyon Drainage Channel that runs along the street center line. The new main is to be located adjacent to the existing 12-inch main in Dronfield Avenue and may require a short channel crossing. As part of the Project, Well No. 2A pumping equipment will be converted to variable frequency
drives. This may require upgrades existing electrical panels, pump motor units, SCADA, and HVAC at Well No. 2A site. Installing a second feed pump for brine tank salt delivery system of both treatment plants is also proposed to improve reliability of the treatment system.

### General Description of Components

· 18-Inch main will be constructed from Well No. 2A to connect to MWD feeder in Hubbard Street to deliver Well 2A supply to the IX plant site directly.

· IX plant effluents and Well No. 2A supply will be blended prior to delivery into Lower Reservoirs.

· The supplies from each well site to the plant site will be through independent mains to eliminate the issues such as Well No. 7A at a higher elevation forcing water towards Well No. 3. Also, there will be a better control of flow and pressure through control valves.

· Repiping and valving will be done at the reservoir site for blending and to control flow.

· A permanent waste line will be constructed to divert plant effluents to storm drains. Currently, this is done through temporary removable piping.

· The Nitrate and disinfectant levels will be monitored in blended water prior to delivery into the storage reservoirs. Installation of miscellaneous sampling points and continuous Nitrate/Chlorine analyzers will be necessary. The monitoring equipment will be integrated to the SCADA system.

· Control Cla Valves for well discharge lines at the reservoir site.

· Variable frequency drives will be installed at Well No. 2A for flow control.

· Install a second brine feed pump as backup for brine tank regeneration unit. In case one brine
pump fails operators can switch to the second unit.

· Improve Lower Reservoir site access road and security as part of the project (optional).

· Well No. 2A supply can be routed to the treatment units at the plant site through valve. operation if either one of the Wells, 3 or 7A is out of service or there is a surge of Nitrate Levels. If necessary, Well No. 2A still can feed directly into the distribution system through valve operation as it is being done now.

**b. change to:**

## VI. SCOPE OF WORK

The key elements of the project scope include the design and implementation of new 2000 gpm Envirogen SimPACK Ion Exchange water treatment system for Well 2a to help control Nitrate contamination levels . The new treatment system is to be placed at the Well 2A site with related pipe work utilizing ductile iron pipe (DIP) water lines and related appurtenances to control Nitrate contamination levels with the use of a Envirogen SimPACK Ion Exchange Treatment Plant. The new treatment system effluent treated water will produce acceptable water quality to deliver directly into the distribution system. The design will also include the construction of the piping, flow control valves at the treatment plant. An expansion of the existing building will be required to be able to house the treatment system to help with the noise control and aesthetics of the neighborhood. As part of the Project, Well No. 2A pumping equipment will be converted to variable frequency drives a standalone emergency generator will be required with a emergency transfer switch to run system during power outages. This may require upgrades to existing and or addition of new due to non existent but needed systems such as electrical panels, pump motor units, SCADA, and HVAC to help at Well No. 2A site.

### General Description of Components

· Well No. 2A supply will feed a new Envirogen SimPack Ion Exchange System directly with effluent water from Envirogen SimPACK Nitrate Treatment system effluent to be introduced into distribution system directly with acceptable Water Quality.

· Repiping and valveing will be done at the Well 2a site for the new Envirogen SimPACK Ion Exchange Treatment System to distribution system.

· A permanent waste line will be constructed to divert plant effluents to waste lines and sewer lines respectively.

· The Nitrate and disinfectant levels will be monitored in water prior to delivery into the distribution system. Installation of miscellaneous sampling points and continuous Nitrate/Chlorine analyzers will be necessary. The monitoring equipment will be integrated to the SCADA system.

· Control Cla Valves for well discharge lines at well site to feed Ion Exchange System.

· Variable frequency drives will be installed at Well No. 2A for flow control.

· Install a second brine feed pump as backup for brine tank regeneration unit. In case one brine pump fails operators can switch to the second unit.

· Improve Well 2 site access, layout and security including security lighting upgrades as part of the project..

· Well No. 2A should feed directly into the distribution system through valve operation as it is being done now but incorporating a SimPACK Ion Exchange System to control Nitrate contamination,
Incorporate a stand alone emergency generator with an automatic transfer switch to power up automatically when power outage occurs.

**7.**

**a. Previously stated as :**

The following streets are affected (Pipe Layout Map):

| Main | From | To | Length (feet 18" Día | 12" Día |
|---|---|---|---|---|
| Borden Avenue | Sayer Street | Aztec Street | 1,075 | |
| Aztec Street | Boden Avenue | Sproule Avenue | 1,050 | |
| Sproule Avenue | Aztec Street | Hubbard Street | 300 | |
| Dronfield Avenue | Sayre Street | Treatment Plant | | 1,500 |
| Treatment Plant - - | | | | 150 |
| | | **Total (Feet)** | **2,425** | **1,650** |

(Total length 4,075 feet or .75 miles)

Consultant shall prepare plans and specifications for the construction of the items described above. Consultant assist the City in securing permits with the City Departments and the Utilities described herein
PROPOSED PIPING PLAN

**b.Change to:**

OMIT THE SECTION and PROPOSED PIPING PLAN

Indicate the receipt of **Addendum 1 and 2** on your Proposal. **FAILURE TO DO SO WILL RENDER YOUR BID NON-RESPONSIVE**

Approved by:

06/30/25

Wendell Johnson, P.E.
Director of Public Works

Date