

**PLEASANT VALLEY RECREATION & PARK DISTRICT
CITY OF CAMARILLO, CITY HALL COUNCIL CHAMBERS
601 CARMEN DR., CAMARILLO, CALIFORNIA**

**BOARD OF DIRECTORS
SPECIAL MEETING AGENDA
July 1, 2020**

This meeting will be conducted pursuant to the provisions of the Governor's Executive Orders N-25-20 and N-29-20 and the order of the Ventura County Public Health Officer issued March 20, 2020 (Stay Well at Home)

In order to minimize the spread of COVID-19, the Council Chambers will not be open to the public. To observe and/or participate in the Board meeting from the comfort of your home or other Stay Well at Home-compliant location:

- 1. You may observe the PVPRD Board meeting via live broadcast on the Local Government Channels – Spectrum Channel 10 and Frontier Channel 29.**
- 2. Public Comment options:**
 - a. Email – If you wish to make a comment on a specific agenda item, please submit your comment via email by 4:00 pm on Wednesday, July 1, 2020 to the Recording Board Secretary at kroberts@pvrrpd.org. The Recording Board Secretary will print your email, distribute copies to all Board members prior to the meeting and the Chair will read the emailed comments aloud.**
 - b. Phone – You may call the PVRRPD office at 805-482-1996, ext. #101 by 4:00 pm on Wednesday, July 1, 2020 and provide your name, your phone number and your item of interest. Board staff will call you on July 1 during the time for general Public Comments which may be around 7:35 pm or at the appropriate time for a comment pertaining to a specific agenda item to allow you to state your comments.**

7:30 P.M.

SPECIAL MEETING

- 1. CALL TO ORDER**
- 2. PLEDGE OF ALLEGIANCE**
- 3. ROLL CALL**
- 4. ADOPTION OF AGENDA**
- 5. OPEN COMMUNICATIONS/PUBLIC FORUM**

In accordance with Government Code Section 54954.3, the Board reserves this time to hear from the public. Pursuant to Government Code Section 54956, no business other than what is set forth in this special meeting agenda may be considered by the Board. If you would like to speak about an item on the agenda, we would prefer you complete a Speaker Card and wait until it comes up. Speakers will be allowed three minutes to address the Board. **(Please note the options available to provide public comment listed above for this meeting.)**

6. NEW ITEMS – DISCUSSION/ACTION

A. Consideration and Approval of Request for Proposal for Fertilizer Injection System at Pleasant Valley Fields

The implementation of a fertilizer injection system will mitigate some of the challenges of recycled water.

Suggested Action: A MOTION to Approve and authorize the General Manager to enter into an agreement with Nutrien Ag Solutions for the purchase of an Ozawa Plug and Play fertilizer injection system for Pleasant Valley Fields.

7. ADJOURNMENT

Note: Written materials related to this agenda are available for public inspection in the Office of the Clerk of the Board located at 1605 E. Burnley Street, Camarillo during regular business hours two business days preceding the scheduled Special Board Meeting.

Announcement: Public Comment: Members of the public may address the Board on any agenda item before or during consideration of the item. [Government Code section 54954.3] Should you need special assistance (i.e. a disability-related modification or accommodations) to participate in the Board meeting or other District activities (including receipt of an agenda in an appropriate alternative format), as outlined in the Americans With Disabilities Act, or require further information, please contact the General Manager, at (805) 482-1996, extension 114. Please notify the General Manager 48 hours in advance to provide sufficient time to make a disability-related modification or reasonable accommodation.

**PLEASANT VALLEY RECREATION AND PARK DISTRICT
STAFF REPORT / AGENDA REPORT**

TO: BOARD OF DIRECTORS

FROM: MARY OTTEN, GENERAL MANAGER
By: Brandon Lopez, Park Supervisor

DATE: July 1, 2020

**SUBJECT: CONSIDERATION AND APPROVAL OF REQUEST FOR
PROPOSAL FOR FERTILIZER INJECTION SYSTEM
AT PLEASANT VALLEY FIELDS**

SUMMARY

The Board appropriated funds in the amount of \$60,000 to purchase and install a fertilizer injection system at Pleasant Valley Fields. An injection pump, controller, and variable frequency drive (VFD) will be installed for each irrigation controller (4). The injection system will proportionally inject fertilizer and chemicals into variable water flow. A fertigation system will allow the irrigation to automatically deliver nutrients to the turf daily which will improve the overall health and resilience of the turf.

BACKGROUND

At the FY 2019/2020 mid-year budget review, the Board of Directors approved the allocation of \$60,000 for a fertilizer injection system. Pleasant Valley Fields is a 55-acre sports park that was opened in 2010. It is primarily used for organized sports groups and endures more than 1300 hours of turf use per year. In January of 2013, the District entered into an agreement with the City of Camarillo to supply “recycled water” to irrigate Pleasant Valley Fields. Irrigating with non-potable water or “recycled water” is more cost effective than irrigating with potable water. The use of recycled water offers both benefits and challenges. As water is reclaimed, its salinity level increases. Higher salt content can harm not only the soil and the fauna, but also the irrigation equipment used to deliver this water. The implementation of a fertilizer injection system will mitigate some of the challenges of recycled water. It provides an efficient and accurate feeding method for grass, soil, and plants. A fertigation system will allow the irrigation to automatically deliver nutrients to the turf daily which will improve the overall health and resilience of the turf.

ANALYSIS

The main aim of turfgrass fertilization is to maintain high turf quality, obtain proper turf color and playing surface. Fertigation has been recognized as the best fertilization method for proper turfgrass nutrition and for minimizing nitrogen leaching.

Fertigation is the process of running fertilizer through irrigation water. The practice of running plant nutrients through irrigation systems has increased dramatically over the last 20 years as careful water management and sustainability become more common issues. Because of this, many agencies are exploring the advantages of combining their water and fertilizer applications.

The proposed fertilizer injection system, "fertigation" would include four (4) independently operated controllers, variable frequency drive (VFD), and pumps. Each pump would have the capability to inject up to two (2) different materials. Having four (4) independent controllers allows for optimal control of fertilizer and applications. Each system can be calibrated to inject the necessary amount of nutrients to the desired area.

Staff anticipates several benefits from the implementation of fertigation. Computer controls regulate the injection of fertilizer and water flow so precisely that application rates are lowered. Properly timed applications can also keep liquid in the top few inches of soil and lessen the chance of nutrients leaching into groundwater. With the addition of fertigation, staff has the ability to create a "spoon feeding" effect to the turf. Micro-feeding through fertigation tests have proven that nutrients in an aqueous solution introduced more frequently in smaller amounts can be utilized at efficiency rates upward of 90 percent. The idea is that smaller doses of nutrients that are immediately available are more efficient than larger doses of granular fertilizer that is required to be broken down. Fertigated nutrients penetrate directly into the soil and roots, meaning lower rates can still be effective in turf density, quality, and hardness.

Other benefits of fertigation are that it virtually eliminates the need to use vehicles to apply nutrients, mitigating compaction caused by equipment travel and lowering equipment operating expenses and reducing labor. Application at night eliminates interruption of other activity, whether it be play or work. Fertilizer will be delivered by a third party to the two storage sites. With the implementation of fertigation, staff anticipates labor savings as well as better quality turf.

After receiving approval of the fertilizer injection system specifications from the Board of Directors, staff solicited bids from five different vendors. Most vendors did not meet the approved specifications of the project. Staff recommends the selection of Nutrien Ag Solutions for the purchase of the Ozawa Plug and Play Injection System. There are a number of key factors that contributed to the selection of Nutrien Ag Solutions. They can provide the entire system compared to other vendors that would have to source parts of the system from a third party. Nutrien Ag Solutions is a local, reputable company that will continue to be a resource for the District for installation, calibration, and maintenance of the fertigation system. After implementation of the system, the District will continue to work with Nutrien Ag Solutions to analyze soil and turf conditions to ensure the proper mixture of fertilizer to promote healthy turf conditions. Nutrien Ag Solutions will provide fertilizer storage tanks with the ongoing purchase and delivery of material to the site.

Upon approval of the Board of Directors, it will take two (2) to four (4) weeks from the time of ordering to take delivery of the system and tanks. Once approved, staff will begin the construction of the concrete storage pad at the Village Commons Blvd. point of connection. Each injection site will be locked and enclosed by chain link fencing. Upon delivery of the injection system, staff will install injector ports and flow meters into each mainline. Once construction and installation are complete, the District should begin implementation almost immediately.

FISCAL IMPACT

Funding in the FY 2019-2020 Quimby budget in the amount of \$60,000 was allocated for this project. The Quimby budget currently has a balance of \$4,900,000. The bid from Nutrien Ag Solutions came in at \$42,445. The residual funds allocated for this project will be set aside for the construction of the concrete storage pad and fencing as well as additional wiring and installation parts. The equipment and labor will be completed by District staff with the assistance of a representative from Nutrien Ag Solutions.

RECOMMENDATION

It is recommended that the Board of Directors approve and authorize the General Manager to enter into an agreement with Nutrien Ag Solutions for the purchase of an Ozawa Plug and Play fertilizer injection system for Pleasant Valley Fields.

ATTACHMENTS

- 1) RFP (2 pages)

**Bid Specifications for
Fertilizer Injection
System at Pleasant
Valley Fields**

**Request for Proposal:
Due June 29th, 2020, 5:00 pm**



www.pvrpd.org • 805-482-1996

Brandon Lopez
Park Supervisor
Pleasant Valley Recreation &
Park District
1605 E. Burnley
Camarillo, Ca 93010
BLopez@pvrpd.org
(805)482-5396 ext. 302

Request for Proposal Due June 29th, 2020 by 5:00 pm

INVITATION TO BID

Pleasant Valley Recreation and Park District "District" is seeking bids for the purchase of the following Ozawa Metering Pump & Flow Pacer specifications or equivalent:

- A.C. Variable Frequency Drive
- Variable speed 60-watt motor
- Water flow rate and totalizer
- Automated pump speed control
- Model 410 Controller
- Model 420 V.F.D.
- Model 450 Flow Sensor
- Model 460 Surge Protector
- Model 404 Pump
- 2 – 500 gallon tanks
- Hose Kits

PROPOSAL DEADLINE

The deadline for bid submittal is **Monday, June 29th, 5:00 p.m.** Complete and sign the forms provided and submit with packet. Mark envelopes *Fertigation Bid* by the deadline to:

Brandon Lopez, Park Supervisor
Pleasant Valley Recreation and Park District
1605 E. Burnley Street
Camarillo, CA 93010

ADDITIONAL INFORMATION

For questions, contact: **Brandon Lopez**
(805) 482-5396 x302
blopez@pvrrpd.org