

Project Information Submittal Form

Project Submitter/Owner: Borrego Springs Unified School District; Mark Stevens, Ed.D.
Superintendent

Project Name: High School Football Field Synthetic Turf Conversion

Contact Information

Name: Mark Stevens
Phone: 760-767-5357
Email: mstevens@bsusd.net
Address: 2281 Diegueno Road, Borrego Springs, CA 92004

Project Summary

Please provide a summary of the Project description. Use as much space as you need.

Conversion of the Borrego High School football field from natural grass to synthetic turf. The high school football field is used by both students and community members year-round. Having a turf field would allow significantly greater use by the community of Borrego Springs. This grant application also includes additional pricing for the softball field conversion.

Describe the project location, current conditions, and the benefitting areas. Please attach, separately, a regional and Project map depicting the site(s) location, current conditions, and benefitting areas.

The project is located on the campus of the Borrego Springs High School at 2281 Diegueno Road. The football field's conditions vary, depending on the time of year, climate, and maintenance. Although considerable resources have been spent to properly maintain the fields, age, use and ground pests have severely impacted its surface and usability.

The beneficiaries of such a project would extend to the entire community of Borrego Springs, with a smaller benefit to all school athletes within the high school's league. The fields located at the elementary school and high school are currently the only usable athletic fields in the Borrego area. These fields benefit all of the students in the Borrego Springs area. Community members often use the fields for events and recreational play. Fields are also used by community organizations, such as AYSO and Little League.

See attached map for a photograph of current conditions.

What is the nexus of the Project to the Sustainability Goal of the Borrego Springs Subbasin Groundwater Management Plan (GMP)? Is the Project listed in the GMP? How does the Project help achieve the goals of the GMP?

The GMP's sustainability strategy is a water conservation program specifically aimed to address agriculture, municipal and recreation pumpers. The GMP has established minimum thresholds and measurable objectives for sustainability. Aggressive pumping cutbacks must be established to reduce

water demand within the sub basin. The turf conversion has a direct impact on water conservation. The football field project has an estimated groundwater savings of 20 acre/ft. annually. Adding the softball field would add an additional 8 acre/ft per year of water savings.

What are the specific goals and needs for the Project, and how will the project achieve the goals and meet the needs?

The specific goals of the projects are twofold: 1. Lower water usage by converting grass turf to synthetic. 2. Increase access and use of the fields for the public.

What are the quantifiable benefits of the Project (e.g., protect or enhance water quality, water conservation, enhanced understanding of the groundwater basin, etc.)? How will those benefits be quantified and evaluated?

The football field project has an estimated groundwater savings of 20 acre/ft. annually. Adding the softball field would add an additional 8 acre/ft per year of water savings. BSUSD is currently monitoring its water usage. Water use is measured and reported to BWD quarterly. Savings from the turf conversion would be easily measurable.

Please describe the communities served by the Project. Will the Project benefit an Underrepresented Community, a Disadvantaged Community (DAC), and/or a Severely Disadvantaged Community (SDAC)? If so, please provide a map.

Borrego Springs is a Severely Disadvantaged Community. Our year round community (pop.3,500) is largely Latinx and they are the working backbone of our town. Their jobs are in agriculture, golf course maintenance, restaurants, hotels and in cleaning businesses and homes. All 3 schools are Title 1 with all students receiving free breakfasts and lunches. A majority of our students enter Kindergarten speaking only Spanish. The community only has a single public high school. This project serves the entire community by providing the only usable athletic fields.

Will the Project or Component positively impact issues associated with small water systems or private shallow domestic wells (e.g., groundwater contamination vulnerability, drawdown, etc.)? If so, please provide justification such as water system maps or domestic well census results.

This project does not impact the small water systems or domestic wells.

Does the Project address the needs of the State Water Board's SAFER Program, designed to ensure Californians who lack safe, adequate, and affordable drinking water receive it as quickly as possible, and that the water systems serving them establish sustainable solutions?

The school district currently leases water rights from the Borrego Water District. Savings in water use would directly impact the amounts usable to the general public.

How does the Project address the Human Right to Water (AB 685 Section 106.3) which states that every human being has the right to safe, clean, affordable, and accessible water adequate for human consumption, cooking, and sanitary purposes?

The school district currently leases water rights from the Borrego Water District. Savings in water use would directly impact the amounts usable to the general public.

Please describe how the project contributes to addressing the risks in the region to water supply and water infrastructure arising from climate change. If possible, please provide the amount of greenhouse gas emissions reduced and carbon sequestered resulting from the project.

Estimates of athletic field turf conversion provide the following benefits:

- Reduction in carbon emission and pollutants from mowing/other field equipment.
 - Synthetic turf helps reduce noxious emissions. According to the EPA, “lawn mowers emit high levels of carbon monoxide, a poisonous gas, as well as hydrocarbons and nitrogen oxides that contribute to the formation of ground level ozone, a noxious pollutant that impairs lung function, inhibits plant growth and is a key ingredient of smog.”⁵ The EPA also reports that a push mower emits as much pollution in one hour as 11 cars and a riding mower emits as much as 34 cars.
- Reduction of pesticide and fertilizer use.
 - According to the North Carolina Department of Environment and Natural Resources polluted storm water run-off is the No. 1 cause of water pollution in their state, with common examples including over-fertilizing lawns and excessive pesticide use.³ The EPA has identified run-off of toxic pesticides and fertilizers as a principal cause of water pollution.
- Reduction in the accidental spilling of gas and oil while maintaining mowing equipment
 - It is estimated that over 17 million gallons of gas and oil are spilled annually from refilling equipment. The district mows its field at least two times a month for 9 months out of the year, and about 1 per month at a minimum during the low growth months (November, December, January). That means that it is mowed approximately 21 times per year. Although unintentional, gas and oil spills while refueling and maintaining equipment does happen.
- Reduction of water use.
 - 55 gallons of water per year is saved for every square foot of natural grass replaced with synthetic turf. The football field is estimated to be 90,000 square feet in size.

Work Plan

The Work Plan must contain descriptions of the anticipated tasks necessary to complete the project. Tasks should be organized by the five budget categories, as applicable: (a) Project Administration, (b) Planning/Design/Environmental, (c) Construction/Implementation, (d) Monitoring/Assessment, and (e) Interested Parties Outreach/Education. The Work Plan should also identify the anticipated deliverables for each task.

Add additional tasks and subtasks as needed to provide a detailed work plan. Some examples and suggested language have been provided.

Budget Category (a): Project Administration

Task 1.0- Project Management

Management of the grant

Borrego Unified School District will engage the services of a project manager to manage the project in accordance with the Grant Agreement between the District and the State of California Department of Water Resources (DWR). Said compliance will include preparing support documentation relative to the procurement of materials and services necessary to implement the installation of the synthetic turf field, or fields, at the high school site. The project manager will also provide evidentiary material, or materials, to demonstrate compliance with the Public Contract Code, and any related requirements that DWR may have. The project manager will also be responsible for the District's construction administration of the public works contract. As such, the project manager will work closely with the architectural and engineering team, the general contractor, the Division of State Architect, and any specialty testing and inspection requirements to complete the project. The District reserves the right to have the project architect assigned to the role of Project Manager, or to retain the services of a qualified independent consultant to provide the tasks and responsibilities.

Deliverables: Deliverables will include but not be limited to invoices, Notice of Determination as it relates to compliance with the California Environmental Quality Act (CEQA). School District Governing Board approvals and documentation and documentation specifically required in the Grant Agreement or adopted processes and guidelines the DWR may have.

Budget Category (b): Planning/Design/Environmental

Task B 1. - Planning

Planning will include project programming and conceptual designs necessary to ensure that the architectural and engineering documents necessary to bid the project meet school district curriculum needs, the State of California Department of Education Facilities Guidelines, and CIF requirements as they relate to Track & Field, Football, and any other competitive sport which may be played on the field(s).

Deliverables: It is anticipated that the Deliverables will include

- the final programming document, sometimes referred to as the educational specifications,

- the bid documents: the plans, specifications and front end bid documents to ensure compliance with the Public Contract Code and the Director of Industrial Relations requirements for payment of Prevailing Wages and applicable record keeping,
- The Notice of Completion approved by the School Board at the end of work and acceptance of the project,
- The Division of State Architect certification that the project is certified to have been constructed in accordance with the DSA approved plans and specifications.
- If required, a deliverable may include a Financial Summary, or Fiscal Report of expenditures, including any school board approved change orders.

Task B 2. - CEQA

The construction of the conversion of an existing football field, or other athletic field, does constitute a project within the definitions of the California Environmental Quality Act (CEQA). If there is no statutory or categorical exemption which applies to the specific project, then the District will comply with CEQA by completing and processing an Initial Study. At this time, it is anticipated that Negative Declaration of Environmental Impact may be appropriate, but a more comprehensive analysis will be done to determine if an Environmental Impact Report (EIR) is required.

Deliverables: It is anticipated that the Deliverables for Task B 2 will include but not be limited to:

- The Initial Study
- A Notice of Exemption, if applicable
- A Draft Negative Declaration, if applicable
 - A Draft Mitigated Negative Declaration, if applicable
- An E.I.R if it is determined that the Negative Declaration process is inappropriate for the project. If an EIR is required, the district anticipate that it's cost may be in excess of \$150,000. Due to the very specific issues which require analysis and determination of mitigation measures.

Budget Category (c): Construction/Implementation

Task B 3. - Construction Management

In K-12 public school construction the project architect is required to develop the bid documents. The documents include the aforementioned front end bid documents such as the bid form, the Performance Bond and Payment Bond requirements, documentation demonstrating that the contractor has Workman's Compensation coverage, project insurance coverage in accordance with the District's standards. The general conditions section of the front end bid documents will also be prepared by the project architect. The technical specifications and blueprints will also be provided by the Project Architect. The Project Manager, or Construction Manager should the District decide to retain one for this project, will provide the day to day construction administration including but not limited to contractor performance, represent the District in weekly construction meetings, act as the liaison between the District and local and state agencies if required, review progress reports and monthly payment applications, provide oversight with the on-site DSA inspector retained by the District, and coordinate with the local Division of State Architect field office. The project manager will

also assist the District with the close out of the project through DSA and any specific requirements of DWR. **Deliverables:** Deliverables for B 3 may include but not be limited to:

- Evidence of Public Notice of Opportunity to Bid
- The Bid Set and Bid Results Sheet
- The Schedule of Values from the contractor awarded the public works contract
- The Critical Path Method (CPM) Construction Schedule required in the Bid Documents
- Copies of School Board Agenda Items that pertain to the project, if required by DWR.

Task B 4. – Project Close Out

Project Close-Out will include the tasks necessary to demonstrate the contractor's completion of Punch List Items, the collection of manuals and training documentation that are required in the specifications, processing and assuring the recordation of the Notice of Completion with the School Board, the submission of documentation to the Division of State Architect for the processing of the Certification of Completion in compliance with the plans and specifications. Project close out will also include any documentation and processing required by DWR.

Deliverables: It is anticipated that the Deliverables for Task B 4 will include but not be limited to:

- The DSA Certification Letter
- Any relevant Close Out Documentation by DWR, if applicable
- Documentation certifying compliance with the Storm Water Compliance Permit
- A set of project manuals and As-Built drawings for the School District's project files

Budget Category (d): Monitoring/Assessment

Task B 5. – Although Monitoring and Assessment is not anticipated to be a requirement of the synthetic field project; there will be assistance with the contractor's 1-year guarantee for labor, and applicable term for specific product warranties that exceed the 1-year minimum. The project manager will be available to represent the District in the enforcement of the guarantees and warranties.

Deliverables: Deliverables for B 5 will include a Product Warranty matrix which identifies the duration of the guarantee and warranty, and which identifies the responsible sub-contractor that provided the labor and materials for the specific scope, or scopes, of work. **Budget Category (e): Interested Parties**

Outreach/Education

Task B-6. – Should, through the CEQA process for this project, there be a required outreach or follow-up with interested parties, the Project manager may be tasked to provide that service. It may also be completed by District staff.

Deliverables: Deliverables for B 6 are yet to be identified, as it is not yet known if outreach or education is applicable.

[Description]

Budget

DWR required budget categories have been included below. Add tasks as applicable; additional rows must be added under the applicable categories to present the cost of each task described in the Work Plan.

		(a)	(b)	(c)	(d)
Category		Requested Grant Amount	Local Cost Share: Non-State Fund Source*	Total Cost	% Local Cost Share (Col(b))/(Col(c))
(a)	Project Administration		\$20,000	\$20,000	100.00%
	Task 1.0				
(b)	Planning/Design/Environmental	\$204,927	\$0.00	\$204,927	0.00%
	Tasks B 1 and B 2				
(c)	Construction/Implementation	\$2,081,625	100,000 (contingency)	\$2,181,625	4.80%
	Task B 3 and B 4				
(d)	Monitoring/Assessment	\$0.00	\$1,500	\$1,500	100.00%
	Task B 5				
(e)	Interested Parties Outreach/Public Education	\$0.00	\$0.00	\$0.00	\$0.00
	Task B 6				
(f)	Grand Total (Sum rows (a) through (d) for each column)	\$2,286,552	\$121,500	\$2,408,052	5.31%

* List sources of Local Cost Share funding: The source of local funding may be from local bond proceeds, or local developer fees.

*Local sources of revenue come from the BSUSD general fund.

Schedule

The Schedule must be organized in a manner that is consistent with the Work Plan and Budget that will be contained in the Grant Agreement. The Schedule Table presented below is a template that must be completed for each project in the proposal. The required budget categories have been included below. Add additional rows for each task as described in the Work Plan and Budget.

Categories		Start Date (Earliest Start Date)	End Date (Latest End Date)
(a)	Project Administration	03/01/2022	04/30/2023
	Task 1		
(b)	Planning/Design/Environmental	04/01/2022	03/31/2022
	Task B 1& B 2		
(c)	Construction/Implementation	03/01/2022	04/30/2023
	Task B 3 and B 4		
(d)	Monitoring/Assessment (Monitoring of the 1-year warrantee period)	03/01/2023	02/28/2024
	Task B 5		
(e)	Interested Parties Outreach/Public Education: As-Needed	TBD MM/DD/YYYY	TBD MM/DD/YYYY
	Task B 6	As Needed	As-Needed

Alternate Budget with Softball Field

DWR required budget categories have been included below. Add tasks as applicable; additional rows must be added under the applicable categories to present the cost of each task described in the Work Plan.

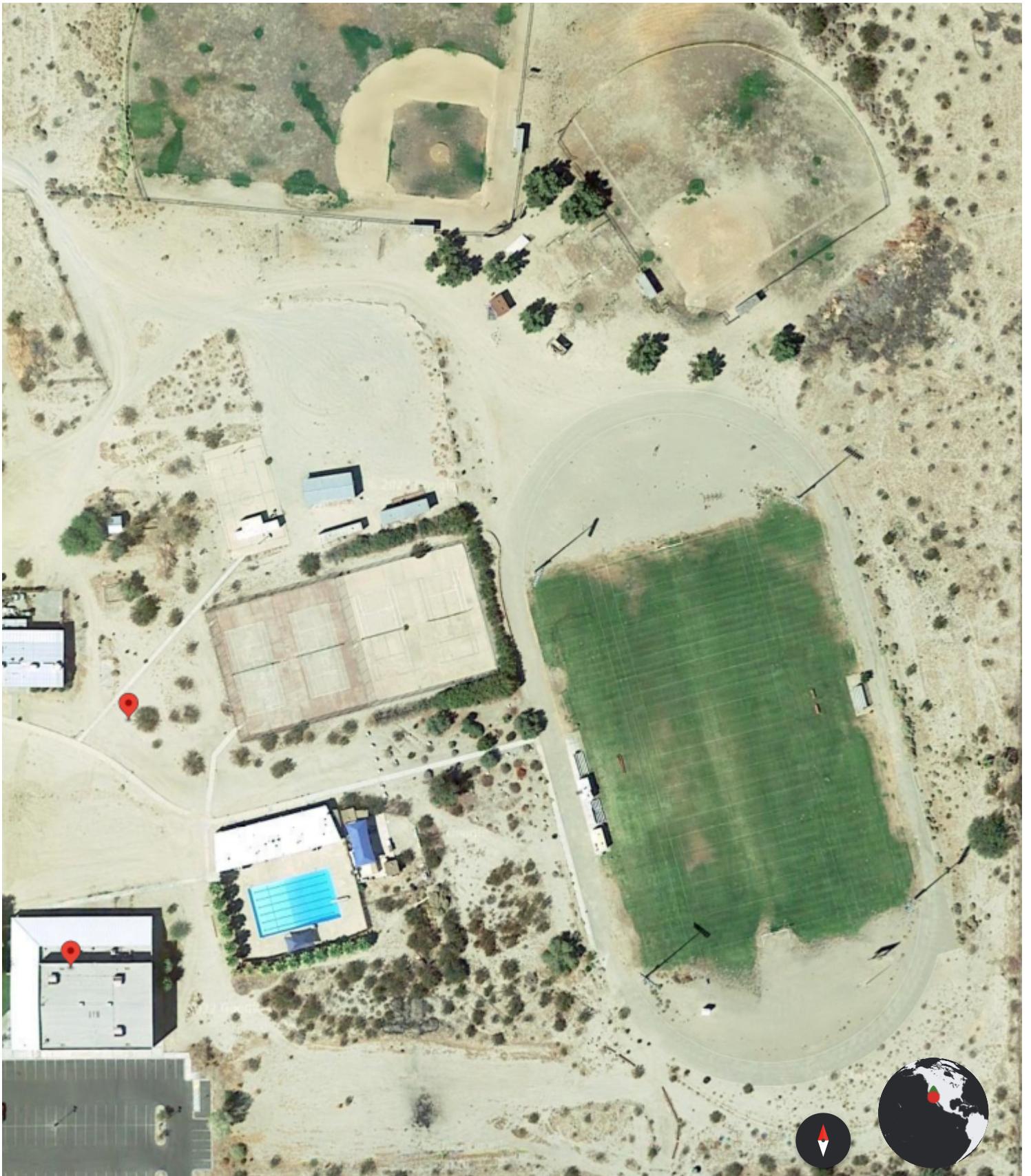
		(a)	(b)	(c)	(d)
Category		Requested Grant Amount	Local Cost Share: Non-State Fund Source*	Total Cost	% Local Cost Share (Col(b))/(Col(c))
(a)	Project Administration				
	Task 1.0	\$20,000		\$20,000	0.00%
(b)	Planning/Design/Environmental	\$83,000		\$83,000	0.0%
	Tasks B 1 and B 2				
©	Construction/Implementation	807,000	\$80,000 (contingency)	\$887,000	9.02%
	Task B 3 and B 4				
(d)	Monitoring/Assessment	\$0.00	\$1,500	\$1,500	100.00%
	Task B 5				
(e)	Interested Parties Outreach/Public Education	\$0.00	\$0.00	\$0.00	0.00%
	Task B 6				
(f)	Grand Total (Sum rows (a) through (d) for each column)	\$910,000	\$81,500	\$991,500	8.22%

* List sources of Local Cost Share funding: The source of local funding may be from local bond proceeds, or local developer fees.

Borrego High School & Middle School

2281 Diegueno Road, Borrego Springs, CA





Google Earth

Imagery date: 9/10/...

70 m

Camera: 722 m 33°15'54"N 116°22'...



Carlee's

Carlee's
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PO Box 839
Borrego Springs, CA 92004
(760) 767-3262
Macuga1360@gamil.com
Carleesplace.com

January 20, 2022

To Whom It May Concern:

I am writing this letter in regard to Borrego Springs Unified School District's attempt to acquire a grant for their sports fields improvement in the attempt to conserve water.

There is a need for sports both for our high school students and the entire community. Without a lot of entertainment options locally for residents, sports provide a past time as well as physical activity. Regular involvement in sports helps improve physical health as well as mental health.

There have been several studies recently by the University of Kansas, University of Pennsylvania, and the University of Rochester, just to name a few that show that high school student athletes are at least 28% more likely to attend college verse nonstudent athletes. These same studies have shown that their success once attending college is equally as advantageous in acquiring degrees and success moving forward into the business world.

Of course, providing the fields for these sports is always the greatest economic issue for school districts and communities alike. Providing an artificial turf field that can require less water to maintain would not only be helpful financially in the long run but would also help our local water table. It would be a win-win for our community on many levels.

Please consider our school district's need for this grant and the good that you can provide our students and community.

If you have any concerns or questions, please contact me at 760-767-3262.
Thank you,



Andrew R. Macuga
Owner/Operator
Carlee's
760-767-3262



Borrego Springs Middle/High School

1315 Palm Canyon Drive • 2281 Diegueno Road Borrego Springs, CA 92004
(760) 767-5335 • Fax (760) 767-5999



January 18, 2022

To Whom it May Concern:

I am writing this letter in support of the grant proposal for a turf-conversion of our football/soccer field located at Borrego Springs High School. I speak on behalf of the students who attend our schools, as a parent, and community member.

Living in a small, economically disadvantaged, isolated rural town, the schools are a center of activity for the community. Our fields and track are open for use by everyone. Many afternoons you will see families or groups of friends playing soccer, football, or just hanging out on our fields. Keeping our field in safe condition for student and community use is a strain on our resources; water and man power.

Currently, to keep our field in playable condition our maintenance staff has to water the field for hours, multiple times a day. Many times we can't water it enough to keep it green. We have been working as a community for years to reduce the amount of water consumption to keep our aquifer healthy and plentiful for future generations to continue to thrive here. Already our school site has switched to xeriscape in many areas to help conserve water; by having a turf conversion, the amount of water that could be saved would be astonishing and only benefit our community's future to stay viable.

Thank you,

A handwritten signature in blue ink, appearing to read "Victoria Baay".

Victoria Baay, M. Ed.
Principal
Borrego Springs Middle/High School
(760) 767-5335

January 18, 2022

To Whom it May Concern:

We are two athlete-students at Borrego Springs High School. Currently our football field is in poor condition with a combination of live grass, dead grass, dirt, and holes. As athletes and community members that use the field, it is not always the safest conditions. To fix the dead patches and to keep the field green and in playable condition, copious amounts of water has to be used daily. With an unstable field, due to watering issues, and the environment, athletes and community members have been hurt multiple times in the past.

With a turf conversion of the field our school and community would benefit from having an always ready surface to use. A new field would attract more community members without having the risk of injuries. Living in our desert community we know how important water conservation water is; the turf conversion would drastically decrease our water usage from our aquifer and help protect our community for future generations to come.

Thank you,



Miriam Hernandez, 10th Grade Student



Yair Fuentes, 10th Grade Student