

SCHOOLS

Broadous Elementary School, Pacoima, California

Students at Broadous Elementary School may not realize it, but CULTEC, Inc. is helping to make their recess periods possible. Beneath the students' feet, 220 Recharger® chambers, covering 7,600 square feet, are working to keep their play area flood- and debris-free.

The school, located in Pacoima, California, faced major attendance and public health concerns due to extensive flooding even during moderate weather events, because it is located in a sub-watershed of the Los Angeles River. The result was a school left with a virtually barren, paved parcel of land for the school's play area.

It was evident that something needed to be done to create a flood-free and child-friendly environment for the students and residents of the community. CULTEC and a multi-stakeholder group joined forces to solve the school's flooding problem by combining CULTEC Recharger chambers with the efforts of local environmental groups.

At Broadous Elementary School, the once-vacant lot is now flourishing as a landscaped, grassy play area for the students. The resulting decrease in flooding, made possible by CULTEC chambers, has caused a corresponding increase in attendance and has created a more comfortable, productive and safe learning environment.



Broadous Elementary School



Recharger® Chambers

Recharger chambers act as part of a best management practice (BMP) to help combat flooding. The chambers have been designed to be able to hold up to 95,200 gallons of water until it can be absorbed naturally back into the soil. The Recharger's sub-surface installation and high profile allow it to retain large amounts of water, even in small areas. The chambers are compliant with Clean Water Act guidelines, and utilize strong, polyethylene material, patented, interlocking ribs and fully-formed endwalls to achieve long life and durability.

Features:

- Chambers are lightweight for easy installation with only one or two workers resulting in reduced time and labor costs.
- Utilizes CULTEC's patented, interlocking rib connection for a stronger connection without screws. Also promotes fast connection and installation.
- Utilizes distinctive fully-formed endwalls for strength throughout the entire chamber...no weak spots in the middle or on the sides.
- A variety of models are available for installations in both traffic and non-traffic applications
- Products are used extensively in Clean Water Act Phase II applications.

Specifications:

		Recharger® Model 150	Recharger® Model 180	Recharger® Model 280	Recharger® Model 330	Recharger® Model V8 I
Length	<i>feet</i>	8.50	7.33	8.00	7.50	8.00
	<i>meters</i>	2.59	2.23	2.44	2.29	2.44
Installed Length	<i>feet</i>	7.50	6.33	7.00	6.25	7.50
	<i>meters</i>	2.29	1.93	2.13	1.90	2.29
Length Adjustment	<i>feet</i>	1.00	1.00	1.00	1.25	0.50
	<i>meters</i>	0.30	0.30	0.30	0.38	0.15
Width	<i>inches</i>	33	36	47	52	54
	<i>mm</i>	838	914	1194	1321	1372
Height	<i>Inches</i>	18.50	20.50	26.50	30.50	34
	<i>mm</i>	470	521	673	775	864
Storage Capacity of Model R	<i>gallons</i>	168.50	188.90	363.81	418.50	N/A
	<i>liters</i>	637.80	715.10	1377.21	154.21	N/A
Storage Capacity	<i>ft³ / ft</i>	2.650	3.445	6.079	7.459	8.933
	<i>m³/m</i>	0.250	0.320	0.560	0.690	0.830
Chamber Storage Capacity	<i>ft³ / unit</i>	19.87	21.80	42.55	46.61	66.99
	<i>m³/unit</i>	0.56	0.62	1.20	1.32	1.90
Min. Storage Capacity Surrounded in Stone ¹	<i>ft³ / unit</i>	36.71	35.37	64.46	70.77	97.72
	<i>m³/unit</i>	1.04	1.00	1.83	2.00	2.77
Max. Inlet Opening ²	<i>Inches</i>	12	15	18	24	24
	<i>mm</i>	300	375	450	600	600

¹ Based on installed length. Stone void is calculated at 40%. Includes 6" stone base, 6" above chamber crown and stone around units based on typical minimum center to center spacing.
² Based on HDPE pipe.

