



Invoice

Date	Invoice #
11/26/2024	40695
Report #001	

Bill To

GOLDEN PLAINS USD
LUIS GARCIA
22000 NEVADA STREET
SAN JOAQUIN, CA 93660

PROJECT

240610P
791 TRANQUILITY AQUATIC CENTER
6052 JUANCHE
TRANQUILITY, CA

P.O. No.	Terms
250414	Net 30

Description	Quantity	U/M	Rate	Amount
Bit Charge (per inch)	60	in	10.00	600.00
Core Compression ASTM C42	6	ea	100.00	600.00
Registered Civil Engineer	2	hr	199.00	398.00
Coring Onsite (2) Men	16	hr	275.00	4,400.00
Fuel Surcharge - Daily	2	trip	50.00	100.00
			Total	\$6,098.00



GEOTECHNICAL & ENVIRONMENTAL ENGINEERING — CONSTRUCTION TESTING & INSPECTION

November 7, 2024

TES No. 240610.001
Invoice No. 40695

Golden Plains Unified School District
22000 Nevada Street
San Joaquin, CA 93660

Project: 791 Tranquility Aquatic Center
Tranquility High School

Subject: Concrete Core Testing ASTM C-42

Dear Associate,

Per your request and authorization, this letter provides the results of compressive strength testing of concrete cores received by our laboratory. The purpose of this testing was to confirm the in-place strength of the concrete.

Seven cores were taken to be evaluated as required by the California Building Code (CBC), paragraph 1905A.6.4. Upon delivery to our laboratory, the cores were cut, measured, capped and tested.

The attached Concrete Core Compressive Strength Test Results provide detailed test information and results. I hope this report meets your needs. If you have any questions regarding this report, please call me at (559) 276-9311.

Sincerely,
TECHNICON Engineering Services, Inc.


Brian M. Hall
Operations Manager, Laboratory Services





Client Name:	Golden Plains Unified School District	Project No.:	240610P
Project Name:	791 Tranquility Aquatic Center Mod Tranquility HS	Permit No.:	
Project Address:	6052 Juancha Ave	Client Job No.:	
City and State:	Tranquility CA	County:	Fresno
Contractor:	Durham Construction		

Concrete Inspection <input type="checkbox"/>	Masonry Inspection <input type="checkbox"/>	Reinforcing Steel Inspection <input type="checkbox"/>	High-Strength Grout <input type="checkbox"/>
Grout Placement Inspection <input type="checkbox"/>	<input checked="" type="checkbox"/> Other: GPR Scanning		

Arrived at Tranquility HS to take core samples from the existing diving pool. A GPR devise was used to scan and identify the location of reinforcement, to avoid coring through it. There was a total of (4) Core Samples taken from the pool. The first core was located 3 feet from the top of the South-East wall. The horizontal rebar had 4" of concrete coverage at 18" OC and the vertical rebar had approximately 3.5" of concrete coverage at 12" OC. The second core was located 8' from the top of the South-West wall. The horizontal rebar had 6" of concrete coverage at 18" OC and the vertical rebar had approximately 5" of concrete coverage at 6" OC. The third core location was along the Curved section near the bottom of the pool. The horizontal rebar had 5.5" of concrete coverage at 18" OC and the vertical rebar had approximately 4" of concrete coverage at 12" OC. The fourth core location was located on the floor of the pool. The horizontal rebar had 6" of concrete coverage at 18" OC and the vertical rebar had approximately 7.5" of concrete coverage at 12" OC. The core samples were taken back to the lab for future compression strength testing.

Samples Taken:	Compressive Strength Cores <input checked="" type="checkbox"/>	Grout Cylinders <input type="checkbox"/>	Mortar Cylinders <input type="checkbox"/>	Other <input type="checkbox"/>
Work Inspected <input type="checkbox"/> met <input type="checkbox"/> did not meet the requirements of the		<input type="checkbox"/>	Approved Project Plans	
		<input type="checkbox"/>	Unapproved Project Plans	
		<input type="checkbox"/>	Shop Plans Provided	

Name:	Fred Mendoza	Certification No.:	10076943	Date:	10-23-24
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Client Name:	Golden Plains Unified School District	Project No.:	240610P
Project Name:	791 Tranquility Aquatic Center Mod Tranquility HS	Permit No.:	
Project Address:	6052 Juanche Ave	Client Job No.:	
City and State:	Tranquility CA	County:	Fresno
Contractor:	Durham Construction		

Concrete Inspection <input type="checkbox"/>	Masonry Inspection <input type="checkbox"/>	Reinforcing Steel Inspection <input type="checkbox"/>	High-Strength Grout <input type="checkbox"/>
Grout Placement Inspection <input type="checkbox"/>	<input checked="" type="checkbox"/> Other: GPR Scanning		

Arrived at Tranquility HS to take core samples from the existing diving pool. A GPR devise was used to scan and identify the location of reinforcement, to avoid coring through it. There was a total of (2) Core Samples taken from the pool. The first core was located 3 feet from the top of the North-West wall. The horizontal rebar had 4" of concrete coverage at 18" OC and the vertical rebar had approximately 3.5" of concrete coverage at 12" OC. The second core was located 8' from the top of the North-East wall. The horizontal rebar had 7" of concrete coverage at 18" OC and the vertical rebar had approximately 6" of concrete coverage at 6" OC. The core samples were taken back to the lab for future compression strength testing.

Samples Taken:	Compressive Strength Cores <input checked="" type="checkbox"/>	Grout Cylinders <input type="checkbox"/>	Mortar Cylinders <input type="checkbox"/>	Other <input type="checkbox"/>
Work Inspected <input type="checkbox"/> met <input type="checkbox"/> did not meet the requirements of the			<input type="checkbox"/>	Approved Project Plans
			<input type="checkbox"/>	Unapproved Project Plans
			<input type="checkbox"/>	Shop Plans Provided

Name:	Fred Mendoza	Certification No.:	10076943	Date:	10-30-24
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Core Data Sheet - Compressive Strength and Density of Concrete Cores
ASTM C-42, CBC 1905A.6.4

Project Name: Tranquility Aquatic Center
Project Number: 240610
Core Location: (1) 3" from top of wall (2) 8' top of wall
(3) curved surface near flr (4) pool floor

Date Cored: 10/23/24
Cored By: FM/WJ
Located By: Owner
Client:
Phone #:

Date Cast:
Date Tested: 11/5/24
Age of Cores:

Mix Data: Unknown
Supplier: Unknown
Design Strength, psi: Unknown
Cement Content: Unknown

Max. Agg. Size: Sand
Admixtures: Unknown

TES I.D. No.	1	2	3	4
Material				
Core Diameter (nominal, inches)	3 3/4	3 3/4	3 3/4	3 3/4
Core Length (to nearest 1/4")	7	4	3	3
Steel Present	No	No	No	No
Specific Location of Cores	See Inspection Report			
Test Date	11/5/24	11/5/24	11/5/24	11/5/24
Age, Days	N/A	N/A	N/A	N/A
Curing Condition	Equilibrium			
Length Before Capping (avg. of 9 measurements to nearest 0.01")	6.86	4.12	3.41	3.33
Diameter "d", (2 meas. at 90 deg. to 0.01")	3.70	3.69	3.69	3.70
Length "L" After Capping (2 meas. at 90 deg. to 0.01")	7.11	4.38	3.68	3.70
L/d Ratio (nearest 0.01)	1.92	1.19	1.00	1.00
Correction Factor, "C"	0.99	0.92	0.87	0.87
Area, "A" (nearest 0.01 in.2)	10.75	10.69	10.69	10.75
Load, "F" (lbs.)	34,546	56,398	93,808	102026
Type of Fracture	4	4	4	4
Compressive Strength (nearest 10 psi; F/A x C)	3,180	4,850	7,630	8,260
Average Strength, psi	5,980			
Weight of Core, g	2700.3	1608.6	1271.9	1265.9
Weight of Core, lb	5.953	3.546	2.804	2.791
Volume of Core, cu.ft.	0.0427	0.0255	0.0211	0.0207
Density of Core, pcf	139.5	139.1	132.9	134.7

Correction Factor

L/d	Factor
2.11+	trim core
2.10 - 1.94	1.00
1.93 - 1.82	0.99
1.81 - 1.69	0.98
1.68 - 1.57	0.97
1.56 - 1.46	0.96
1.45 - 1.38	0.95
1.37 - 1.30	0.94
1.29 - 1.23	0.93
1.22 - 1.19	0.92
1.18 - 1.15	0.91
1.14 - 1.11	0.90
1.10 - 1.07	0.89
1.06 - 1.03	0.88
1.02 - 0.95	0.87
< 0.94	too short



Core Data Sheet - Compressive Strength and Density of Concrete Cores
ASTM C-42, CBC 1905A.6.4

Project Name: Tranquility Aquatic Center
Project Number: 240610
Core Location: (5) 3" from top of NW wall
(6) 8' from top of NW wall

Date Cored: 10/30/24
Cored By: FM/WJD
Located By: Owner
Client:
Phone #:

Date Cast:
Date Tested: 11/5/24
Age of Cores:

Mix Data: Unknown
Supplier: Unknown
Design Strength, psi: Unknown
Cement Content: Unknown

Max. Agg. Size: Sand
Admixtures: Unknown

TES I.D. No.	5	6*		
Material				
Core Diameter (nominal, inches)	3 3/4	3 3/4		
Core Length (to nearest 1/4")	6 3/4	2 1/2		
Steel Present	No	No		
Specific Location of Cores	See	Above		
Test Date	11/5/24	11/5/24		
Age, Days	6	6		
Curing Condition	Equilibrium			
Length Before Capping (avg. of 9 measurements to nearest 0.01")	6.65	2.49		
Diameter "d", (2 meas. at 90 deg. to 0.01")	3.69	3.71		
Length "L" After Capping (2 meas. at 90 deg. to 0.01")	6.89	2.80		
L/d Ratio (nearest 0.01)	1.87	0.75		
Correction Factor, "C"	0.98	0.75		
Area, "A" (nearest 0.01 in.2)	10.69	10.81		
Load, "F" (lbs.)	38,170	76,992		
Type of Fracture	4	4		
Compressive Strength (nearest 10 psi; F/A x C)	3,500	5,340		
Average Strength, psi	NA			
Weight of Core, g	2637	982.5		
Weight of Core, lb	5.813	2.166		
Volume of Core, cu.ft.	0.0412	0.0156		
Density of Core, pcf	141.3	139.0		

Correction Factor

L/d	Factor
2.11+	trim core
2.10 - 1.94	1.00
1.93 - 1.82	0.99
1.81 - 1.69	0.98
1.68 - 1.57	0.97
1.56 - 1.46	0.96
1.45 - 1.38	0.95
1.37 - 1.30	0.94
1.29 - 1.23	0.93
1.22 - 1.19	0.92
1.18 - 1.15	0.91
1.14 - 1.11	0.90
1.10 - 1.07	0.89
1.06 - 1.03	0.88
1.02 - 0.95	0.87
< 0.94	too short

*Core was too short to conform to ASTM C42 and results should be considered informative and for approximations only

