

Poway Unified School District Budget Review & RBHS Chiller System Update



Presented to the PFT Rep Council
September 21, 2022

Ron Little, Associate Superintendent of Business Support Services

The background features a large, light blue circular seal of the Poway Unified School District. The seal contains a central illustration of a school building with a bell tower. The text around the seal reads "CREATING CULTURE AND CONDITIONS TO EMPOWER WORLD-CLASS LEARNERS" and "PUSD" at the bottom. Several white diagonal lines cross the right side of the image.

Poway Unified School District BUDGET REVIEW

2021-22 Unaudited Actuals General Fund

- **Key Financial Highlights as we ‘close the books’ on last year**
- **As of June 30, 2022**
 - General Fund Revenues outpaced Expenditures by **\$12,281,813**
 - General Fund Net Activity - **\$14,600,260**
 - Unexpended Budget in **2021-22** and carried over into 2022-23 - **\$35,383,353**
 - General Fund Ending Balance - **\$87,166,948**
 - Restricted and Committed Fund Balance - **\$41,252,902**
 - Reserve Level – **10.0%**

2021-22

Estimated Actuals vs Unaudited Actuals

General Fund Combined	Estimated Actuals (in Aug 2022)	Unaudited <u>Actuals</u>	Δ
Revenues	\$477,243,894	\$466,756,307	(\$10,487,587)
Expenditures	\$468,321,524	\$454,474,494	(\$13,847,029)
Revenues less Expenditures	\$8,922,371	\$12,281,813	(\$3,359,442)
Other Sources & Uses	\$2,466,248	\$2,318,446	(\$147,802)
Net Activity	\$11,388,618	\$14,600,260	\$3,211,640

2021-22
Unaudited Actuals
Ending Fund Balance and Reserves

General Fund Combined	Unaudited <u>Actuals</u>
Beginning Balance	\$72,566,687
Net Activity	\$14,600,260
Ending Balance	\$87,166,948
Restricted & Committed Balance	\$41,252,902
Reserve Level	10.0%

2021-22 Unaudited Actuals

COMPONENTS OF GENERAL FUND ENDING BALANCE		
Ending Balance		\$87,166,948
Reserve for Budget Stabilization		\$31,624,954
Restricted Carryover		\$30,242,654
Committed Ending Balance		\$10,200,000
Assigned for STRS and PERS Increases	\$3,500,000	
Step, Column & Longevity	\$3,700,000	
H&W Premium Increases	\$3,000,000	
Economic Uncertainties		\$9,148,393
Unrestricted Carryover		\$5,140,699
Stores		\$511,258
Revolving Cash		\$298,990

2021-22 General Fund Ending Balance

Unrestricted Carryover	
Total	\$5,140,699
Donations	\$2,851,722
Program Carryover	\$510,979
Budget Standards & Other Miscellaneous Site Carryover	\$482,307
Committed Purchase Orders	\$686,985
Supplemental Grant (school sites)	\$263,036
PSEA Professional Development	\$34,883
PFT Elementary Leader Stipends	\$152,944
PSS Local Grants	\$113,737
PSEA Incentive	\$44,106

2021-22

General Fund Ending Balance

Restricted Carryover	
Total	\$30,242,654
Educator Effectiveness Block Grant	\$11,130,837
Restricted Lottery	\$4,971,419
Expanded Learning Opportunities (ELO)	\$3,704,662
Routine Restricted Maintenance Account	\$3,633,249
Expanded Learning Opportunities Program	\$2,677,202
A-G Completion Improvement Grant	\$1,593,714
Special Ed: Learning Recovery Support	\$1,384,438
Mental Health - Related Services	\$485,258
Classified School Employee Professional Development Block Grant	\$225,896
Special Ed: Dispute Prevention and Dispute Resolution	\$219,525
Kitchen Infrastructure and Training Funds	\$147,285
SB 117 COVID-19	\$69,168

State and Federal Grants

One-time Grants			
Program Name	Funding Allocation	Expenses as of June 30, 2022	Remaining Balance
CARES Act	\$18,829,451	\$ 18,829,451	\$ -
ESSER I	\$ 1,543,396	\$ 1,543,396	\$ -
ESSER II	\$ 7,590,206	\$ 4,228,727	\$ 3,361,479
ESSER III	\$17,058,754	\$ -	\$17,058,754
Expanded Learning Opportunities	\$23,108,780	\$ 19,404,118	\$ 3,704,662
In-Person Learning Grant	\$12,342,816	\$ 9,180,257	\$ 3,162,559
Senate Bill 117	\$ 617,824	\$ 548,656	\$ 69,168
A-G Completion Improvement Grant	\$ 1,593,714	\$ -	\$ 1,593,714
Educator Effectiveness Block Grant	\$11,150,840	\$ 20,003	\$11,130,837
Total	\$93,835,781	\$ 53,754,607	\$40,081,174

State and Federal Grants

One-time Grant - Remaining Balance						
	2022-23 Budget	2023-24 Budget Plan	2024-25 Budget Plan	2025-26 Budget Plan	Total	Comment
ESSER II	\$ 3,361,479	\$ -	\$ -	\$ -	\$ 3,361,479	WIFI Project, Chromebooks , Covid testing
ESSER III	\$ 8,473,068	\$ 8,585,686	\$ -	\$ -	\$17,058,754	Counselors, Psychologists, Nurses, Technology Trainer, IT Program Manager, Behavioral Intervention, Social Workers, Xploration Teachers, Subs/Hourly
Expanded Learning Opportunities	\$ 3,704,662	\$ -	\$ -	\$ -	\$ 3,704,662	Director of Global Languages, Middle College, K-8 & High School Summer School, Youth Enrichment Program, Elementary Impact Teachers, Middle School Intervention, AVID Excel, Student Support Specialists
In-Person Learning Grant	\$ 3,162,559	\$ -	\$ -	\$ -	\$ 3,162,559	Health Attendants, Campus Supervisors, Chromebook repairs
Senate Bill 117	\$ 69,168	\$ -	\$ -	\$ -	\$ 69,168	PPE
A-G Completion Improvement Grant	\$ 825,325	\$ 768,389	\$ -	\$ -	\$ 1,593,714	Professional Learning, Expanded Math Accel, College Bound Tutoring, AVID Excel, Summer Bridge Program, Mental Health Systems
Educator Effectiveness Block Grant	\$ 3,299,532	\$ 2,994,780	\$2,562,435	\$2,274,090	\$11,130,837	Professional Assistance Program, Intern Program, Professional Learning for multiple subjects & areas
Total	\$22,895,794	\$12,348,855	\$2,562,435	\$2,274,090	\$40,081,174	

2022-23

Ongoing LCFF Base Increase

approximately \$40 million of new, ongoing General Fund resources

EXPENDITURES:

Funding for Supplemental, DM and TK Programs:

Supplemental (EDY and EL Programs)	\$1,279,968
TK Adds-on (UTK Program)	\$1,924,092
Increase to Deferred Maintenance	\$ <u>500,000</u>
Total:	\$3,704,060

Salary Increases (ongoing):

PFT- 5%	\$9,561,435
APSM- 5%	\$2,231,537
PSEA- 5%	\$3,870,288
Cabinet & Supt- 5%	\$ 88,999
APSM- Step 6 & AP work-year	\$1,233,813
PSEA- Step 6	\$2,510,522
PFT- Nurses salary schedule	\$ 162,515
PSEA- Classification Studies	<u>\$2,300,000</u>
Total:	\$21,959,110

Estimated Cost of Positions added to Support Sites:

Additional Campus Supervisor at each middle school	\$453,634
Additional Noon Duty support at elementary schools	\$ 11,297
Additional Assistant Principals	\$338,279
Additional TOSAs	\$516,682
Additional Counselors	\$ 1,788,391
Additional Librarians	\$448,179
Additional Custodians	\$596,696
New Student Services Assistant II	\$261,152
Assistant Athletic Trainers	\$272,775
Additional Instructional Aide- New Directions	\$ 23,417
Crossing Guard at MCMS/DCES	<u>\$ 12,000</u>
Total:	\$4,830,502

New Programs and Other Operational Cost Increases: **\$6,985,643**

Total Expenditures * **\$37,479,315**

Estimated Available Balance **\$2,493,521**

* Not including ongoing increase in H&W, Step & Column and STRS/PERS increase

Current General Fund Budget and MYPs as of September 12, 2022

DESCRIPTION	2022-23 Revised	2023-24 Projected	2024-25 Projected
Total GF Revenues	\$ 537,599,956	\$ 503,552,576	\$ 513,229,306
Total GF Expenditures	\$ 557,875,251	\$ 504,017,441	\$ 513,817,386
Other Financing Sources/Uses	\$ 1,456,414	\$ 2,956,415	\$ 2,956,415
Net Activity - Combined	\$ (18,818,881)	\$ 2,491,549	\$ 2,368,334
Net Activity - Restricted	\$ (17,442,960)	\$ (6,236,311)	\$ (4,699,533)
Net Activity - Unrestricted	\$ (1,375,921)	\$ 8,727,859	7,067,867
Beginning Fund Balance	\$ 87,166,948	\$ 68,348,067	\$ 70,839,615
Ending Fund Balance	\$ 68,348,067	\$ 70,839,615	\$ 73,207,950
Reserve Amount	\$ 54,973,375	\$ 63,701,234	\$ 70,769,101
Reserve %	9.8%	12.6%	13.7%

The background of the slide features a large, light blue circular seal of the Poway Unified School District. The seal contains a central illustration of a school building with a bell tower. The text around the seal reads "AND CONDITIONS TO EMPOWER WORLD CLASS LEARNERS" at the top and "CREATING CULTURE" on the left. The acronym "PUSD" is at the bottom. Several white diagonal lines cross the right side of the slide.

Poway Unified School District FACILITIES UPDATE

A BRIEF HISTORY OF THE WATER-COOLED CHILLER SYSTEM

- The original Water-Cooled Chiller System was commissioned in 1988-89
- In 2010-11, during the last general obligation bond program, a major retrofit was performed
- In 2013, 138 air handlers were installed at RBHS to increase air flow into the classrooms
- In 2017, Chiller #1 experienced a major electrical failure. The compressor and internal motor were replaced
- 2017-2022, Ongoing, regular annual maintenance
- August 2022, major – if not intermittent– operational and mechanical failures



CLIMATEC
BUILDING TECHNOLOGIES GROUP
Poway Unified School District

Rancho Bernardo High School

09/01/2022 07:35:06 AM 83.7 °F

Home N/A N/A N/A N/A Help Previous

CDWR **CDWS** **CDWR** **CDWS**

TT-12 78 °F TT-6 50.4 °F TT-11 81 °F TT-7 48.2 °F TT-2 26.7 °F TT-1 49.2 °F

CV-5 CV-3 CV-1A CV-1B

Chiller 2 260 Tons Switch OFF 0 %

Chiller 1 350 Tons 53 %

Service Mode

Tank Capacity 2,850 Ton-Hrs Remaining Capacity 2,355 Ton-Hrs

Remaining Capacity 83 %

Energy Rate 391 Tons

Each Pump: 1027 GPM Nominal Flow at 100 %

Ice Storage Tank

Last Tank Charge 2,500 Ton-hrs

FM 448 GPM

Flow to Tank 35 %

Swap Pumps Now Reset Pump Alarm

Primary Pump 3

Command ON Status ON Speed 37.4 Hz Alarm Normal Service Mode

Primary Pump 4

Command OFF Status OFF Speed <NR> Alarm Normal Service Mode

Primary Pump 5

Command ON Status ON Speed 37.4 Hz Alarm Normal Service Mode

Secondary Pump 6

Command ON Status ON Speed <NR> Alarm Normal Service Mode

Swap Pumps Now Reset Pump Alarm

Secondary Pump 7

Command OFF Status OFF Speed 0.0 Hz Alarm Normal Service Mode

Swap Pumps Now Reset Pump Alarm

41.9 °F Current CHW SP

41 Chiller ONLY Mode 3,4,5 SP

400 Discharge Rate Limit

DRL

49.6 °F TT-5 CV2B TT-4 100 % Flow to HX 45.7 °F TT-14 Freeze Alarm

CH-1 Pressure 15.0 psi CH-2 Pressure 20.0 psi CH Current SP 15.0 psi

Mode-1 Chiller Pressure SP 16 psi Chiller Running Pressure SP 15 psi

Emergency Plant Shutdown

44.5 °F TT-15 HX-1

59.7 °F TT-16

60.4 °F TT-8

RBHS CHWR Temp 64.6 ° BHMS CHWR Temp 61.8 °

Plant DP 10.5 psid

900 GPM FM

Current Secondary Pump 32.4 %

Each Pump: 1460 GPM Nominal Flow at 100 %

Plant DP

BHMS DP Alarm

RBHS DP Alarm

RBHS DP 10.0 psid 76.6 °F

BHMS DP 9.3 psid 73.8 °F

Sensor on AHU 5-1 Force valve open for accurate reading

20 % Return to Null when done

Typical Valves

Sequence PDA BCM2508 VLX Properties

CENTRAL PLANTS/CHILLERS ACROSS THE DISTRICT

Elementary Schools

Chaparral Elementary School
Del Sur Elementary School
Los Penasquitos Elementary School
Midland Elementary School
Monterey Ridge Elementary School
Painted Rock Elementary School
Park Village Elementary School
Rolling Hills Elementary School
Sunset Hills Elementary School
Tierra Bonita Elementary School
Westwood Elementary School
Willow Grove Elementary

Middle Schools

Black Mountain Middle School
Meadowbrook Middle School
Mesa Verde Middle School
Twin Peaks Middle School

High Schools

Del Norte High School
Mt. Carmel High School
Poway High School
Rancho Bernardo High School

RECENT MAINTENANCE & MITIGATION EFFORTS

- Fans and Portable Cooling Units were provided for each classroom at each school
- Staff have been on site working continuously on various repairs and monitoring the Chiller system
- An outside contractor is performing service on both chillers
- Continuous monitoring and adjustment of chiller parameters has been an hourly effort
- Over Labor Day Weekend, added a *rental* chiller unit to supplement existing chillers
- A second *rental* chiller unit was secured and will be installed tomorrow





IMMEDIATE NEXT STEPS

- Select Design Professional and Mechanical Engineering partners via a Request for Proposal
- Explore *efficient, feasible and reliable* redesign options
- Go out to Bid and Award Contract(s)
- Develop project/construction timeline

BOARD ACTION

- Our current Fiscal Reality – no available Capital Funds for this replacement project
- Initial estimates for the Central Plant/Chiller Replacement Project range from \$8 to \$10 million, depending on the solution
- Staff has begun exploring funding options including grants
- The Board of Education approved setting aside \$10 million of PUSD General Fund Reserves for this project on September 8, 2022

THANK YOU

QUESTIONS?