



KTCY

# Tracy Airport, Runway Taxiway Issues

David Anderson

VP Tracy Airport Association

A Chapter of California Pilots Association

Tracy TAC

September 20, 2010

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# Runway/Taxiway Issues

- Improper overlay is causing damage to aircraft !
  - Aggregate too large and doesn't meet FAA AC 150/5370-10E requirements.
  - Aggregate does not stay attached to underlying runway/taxiway structure and doesn't meet FAA AC 150/5370-10E requirements.
- Damage...
  - Causes damage to and destruction of Propellers.
  - Causes excessive wear and damage to tires
  - Causes damage to paint and wheel pants.
- KTCYs overlay does not meet requirements of:
  - FAA AC 150/5370-10E
  - Airport Deed
  - Airport Grant Assurances
- Repairs
  - Repairs to aircraft will cost thousands of dollars
  - For example a fix pitch propeller will cost \$3K-6K to repair. A adjustable pitch propeller will cost \$6K-20K to repair

# AC 150/5370-10E

## Introduction

- **ITEM P-626 EMULSIFIED ASPHALT SLURRY SEAL SURFACE TREATMENT**
  - **DESCRIPTION**
    - 626-1.1 This item shall consist of a mixture of emulsified asphalt, mineral aggregate, and water properly proportioned, mixed, and spread on an asphalt prepared underlying course or existing wearing course in accordance with these specifications and shall conform to the dimensions shown on the plans or as directed by the Engineer.
  - **MATERIALS**
    - 626-2.1 **AGGREGATE.** The aggregate shall consist of sound and durable manufactured sand, slag, crusher fines, crushed stone, or a combination thereof. The aggregate shall be clean and free from vegetable matter, dirt, and other deleterious substances. The aggregate shall have a sand equivalent of not less than [45] percent when tested in accordance with ASTM D 2419. The aggregate shall show a loss of not more than [35] percent when tested in accordance with ASTM C 131. The sodium sulfate soundness loss shall not exceed [12] percent, or the magnesium soundness loss shall not exceed [20] percent after 5 cycles when tested in accordance with ASTM C 88. Aggregate shall be 100 percent crushed.
  - For additional information and details see AC 150/5370-10E

# AC 150/5370-10E

## AGGREGATE

- The combined aggregate shall conform to the gradation shown in Table 1 when tested in accordance with ASTM C 136 and ASTM C 117.

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The combined aggregate shall conform to the gradation shown in Table 1 when tested in accordance with ASTM C 136 and ASTM C 117.

- #4= .19in
- #8= .09in
- #16= .05in
- #30= .02in
- #50= .01in

TABLE 1. GRADATION OF AGGREGATES

Sieve Size	Percent by Weight Passing Sieve		
	Type I	Type II	Type IA
3/8 in. (9.5 mm)	100	100	100
No. 4 (4.75 mm)	100	90 - 100	98 - 100
No. 8 (2.36 mm)	90 - 100	65 - 90	85 - 95
No. 16 (1.18 mm)	65 - 90	45 - 70	50 - 75
No. 30 (600 micro m)	40 - 65	30 - 50	30 - 50
No. 50 (300 micro m)	25 - 42	18 - 30	18 - 35
No. 100 (150 micro m)	15 - 30	10 - 21	10 - 21
No. 200 (75 micro m)	10 - 20	5 - 15	5 - 10
Residual asphalt content percent dry weight of aggregate	10% - 16%	7.5% - 13.5%	6.5% - 12% 9% - 13.5%

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# AC 150/5370-10E

## AGGREGATE - Notes

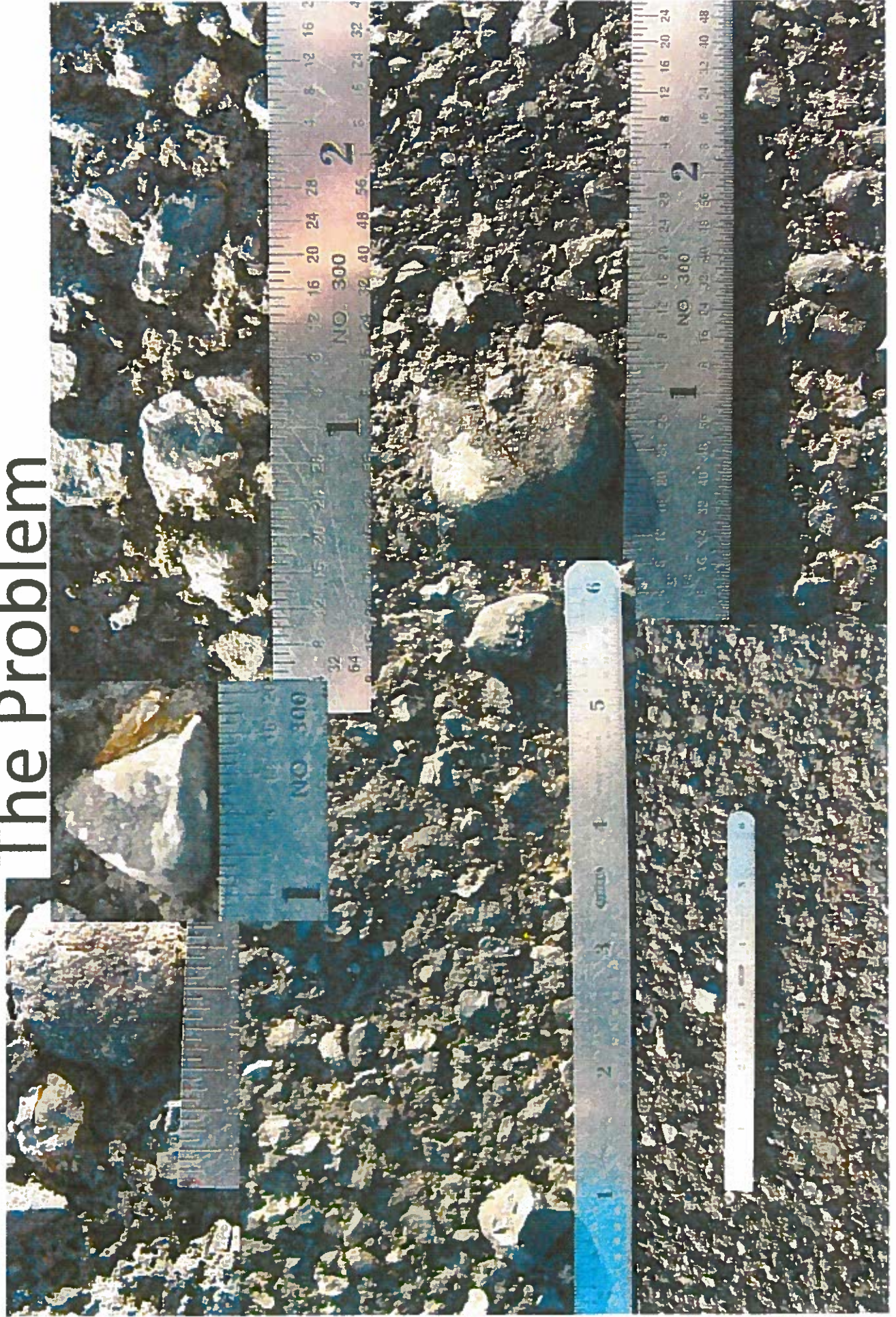
- Table 1 Notes
  - The sand equivalent should not be less than 45. The percent loss when tested under ASTM C 131 should not exceed 35. The sodium sulfate loss should not exceed 12 percent; the magnesium sulfate loss should not exceed 20 percent. In certain specific cases, where aggregates complying with these requirements cannot be economically obtained, aggregates with a higher percentage loss (15 percent using sodium sulfate and 25 percent using magnesium sulfate has been used) or wear may be specified, provided a satisfactory service record under similar conditions of service and exposure has been demonstrated.
  - Table 1 – Gradation of Aggregates. Projects that have specified coarser aggregate gradations have reported problems with excessive tire wear. A coarser Type I gradation will provide considerable skid resistance and may be considered for most projects. A finer Type II gradation will provide sufficient friction and will not cause excessive tire wear. Tire wear appears to be related to the amount of material passing the #4 and retained on the #8 sieve. We recommend that no more than 10-15% be retained on the #8 sieve.
  - The aggregate gradation band applicable to a project shall be specified by the Engineer from the gradations shown in Table 1. The appropriate gradation shall be shown on the plans. Type I gradation is used for maximum crack penetration and is usually used in low density traffic areas where the primary objective is sealing. Type II and Type III gradations are used to seal and improve skid resistance. Type III gradation is not recommended for runway use by the ISSA.

# AC 150/5370-10E

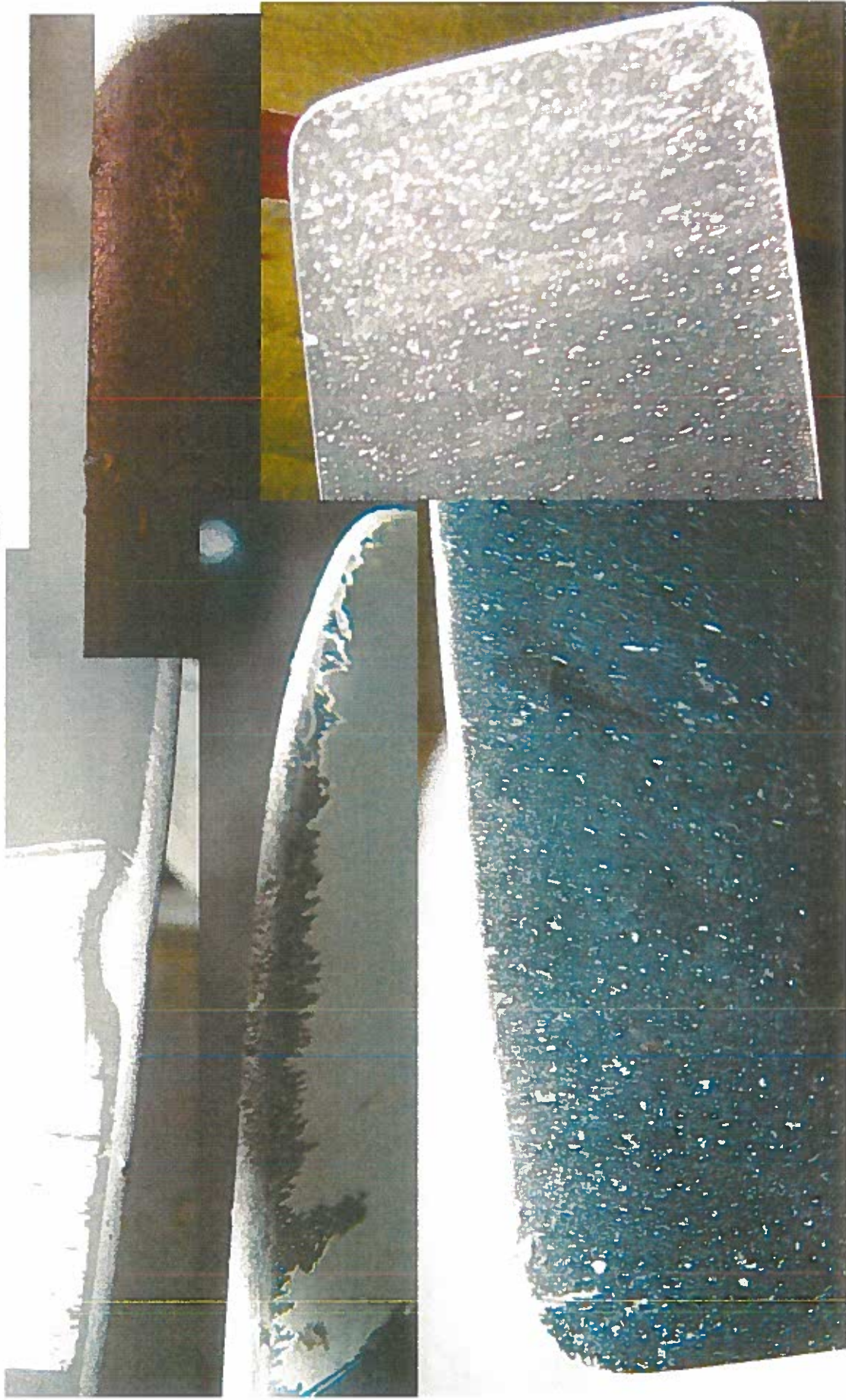
## AGGREGATE - Procedures

- The job mix formula (mix design) shall be run using aggregate within the gradation band for the desired type shown in Table 1. Once the mix design has been submitted and approved, the aggregate used on the project shall not vary by more than the tolerances shown in Table 2. At no time shall the aggregate used go out of the gradation bands in Table 1.
- The aggregate will be accepted at the job location or stockpile. The stockpile will be accepted based on five gradation tests samples in accordance with ASTM D 75. If the average of the five tests is within the gradation tolerances, then the materials will be accepted. If the tests show the material to be out of tolerance, the Contractor will be given the choice either to remove the material or blend other aggregates with the stockpile material to bring it into specification. Materials used in blending shall meet the quality tests before blending and shall be blended in a manner to produce a consistent gradation. This blending may require a new mix design.
- Screening shall be required at the project stockpile site if there are any problems created by having oversize materials in the mix.
- Precautions shall be taken to prevent segregation of the aggregate in storing and handling. The stockpile shall be kept in areas that drain readily.

# The Problem



# Prop Damage





## Tracy Water Conservation Mural

The students of Tracy High School have become aware, along with the rest of the community, that there is a large-scale drought in occurrence in the state of California. To remedy the loss of the usual amount of water that individuals use on a daily basis, the entire state has had to cut back on its usage. This loss has affected every person in this community. We, as students, have witnessed this loss in our own homes as well as all around the city.

This is a state of emergency for the state and many people have begun to feel the effects. However, others remain blissfully unaware of the repercussions of their continued overuse of water. This is a huge problem, as they choose to focus on the luxury of their individual lives without realizing how their actions could affect the community as a whole.

The proposal we wish to make is that a mural promoting water conservation be constructed at a central location in the city of Tracy. We hope that this will serve as a constant reminder of the situation that we are working through. Also, it might help to goad the few that do not take in the reality of the situation to see that this is really happening and that it will take the efforts of every individual to collectively alleviate some of the stress on the short water supply.

It is important for children to become involved in issues of higher importance and this is a way for us to bridge the gap between our sheltered lives and the living condition of the entire state. Tracy is the city in which we live and we would like the opportunity to promote its conservation and maintenance. Support from the City of Tracy would be extremely beneficial because it would ensure the success of the project as well as help promote the idea of water conservation by officials, rather than just the children of the community.

As students, we have come up with a proposal for this project. We have a potential artwork in hand and would like to receive thoughts and feedback as to this idea and its feasibility. We also have a list of potential locations for the mural and would like to know what opinions the city has on these. The students involved are Pallavi Adapa, Matthew Nguyen, Cameron Peterson, and Sammy Wong. For further information, please contact Ms. Adapa at (209) 914-6191 or Mr. Wong at (209) 408-8322. Thank you.



**Handout - Agenda Item 3  
June 16, 2015, Council Meeting**

City of Tracy  
333 Civic Center Plaza  
Tracy, CA 95376

Office of the City Clerk  
(209) 831-6105

## Memorandum

Date: June 15, 2015  
To: Honorable Mayor and City Council Members  
From: Nora Pimentel, City Clerk  
Subject: Replacement Pages for Proposed Budget

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Attached are two new pages C4 and C6 which are replacements for the pages contained in the "Proposed Program Budget" presented on June 2, 2015. The new pages reflect the effect of the General Fund changes outlined in the budget adoption staff report and will be included in the published "adopted" budget.

Also attached is a new page F73 of the proposed budget reflecting Capital Improvement project for expansion of the existing Senior Center. Any questions regarding these changed pages can be addressed at the Council Meeting of June 16, 2015.

Hard copies will be placed at the dais.

Nora Pimentel, CMC  
City Clerk

Composite Summary All Funds	FY12-13 Actual	FY13-14 Actual	% Change	FY14-15 Adopted	FY14-15 Estimated	% of Budget	% Change	FY15-16 Projected	% Change
<b>BEGINNING FUND BALANCES</b>	\$206,908,061	\$204,423,828	-1.2%	\$159,013,190	\$197,999,510	<<Actual	-3.1%	\$161,964,640	-18.2%
<b>REVENUES</b>									
Property Taxes	\$19,175,394	\$19,782,579	3.2%	\$20,259,400	\$21,582,000	106.5%	9.1%	\$22,539,650	4.4%
Sales Taxes	24,548,535	26,956,604	9.8%	27,137,560	27,166,640	100.1%	0.8%	27,858,870	2.5%
Other Taxes	1,753,019	1,860,580	6.1%	1,750,000	2,007,300	114.7%	7.9%	2,070,000	3.1%
Operating Assessments	3,114,448	3,142,120	0.9%	3,147,850	3,205,980	101.8%	2.0%	3,289,000	2.6%
Capital Development Fees	10,454,636	4,215,202	-59.7%	1,556,400	24,990,500	1605.7%	492.9%	37,378,660	49.6%
Debt Assessments	12,183,137	12,083,708	-0.8%	12,083,800	12,062,600	99.8%	-0.2%	12,152,700	0.7%
License & Permit Fees	877,637	1,275,695	45.4%	1,430,280	1,724,300	120.6%	35.2%	1,856,500	7.7%
Franchise Fees	2,687,839	2,787,481	3.7%	2,809,000	2,855,690	101.7%	2.4%	2,904,000	1.7%
State Shared Taxes	2,436,664	3,178,557	30.4%	2,664,380	3,006,290	112.8%	-5.4%	2,400,420	-20.2%
Other Grants	14,229,502	11,125,292	-21.8%	48,638,740	67,305,940	138.4%	505.0%	11,307,390	-83.2%
Current Charges	9,147,220	8,839,743	-3.4%	10,786,500	9,933,890	92.1%	12.4%	10,223,410	2.9%
Enterprise Charges	56,716,311	59,856,735	5.5%	58,720,540	61,697,770	105.1%	3.1%	57,093,550	-7.5%
Fines & Forfeitures	943,057	1,359,271	44.1%	1,314,200	932,000	70.9%	-31.4%	828,000	-11.2%
Interest Earnings	345,509	783,646	126.8%	532,500	792,550	148.8%	1.1%	813,800	2.7%
Other Revenues	1,346,629	2,154,461	60.0%	2,157,200	2,524,760	117.0%	17.2%	2,168,200	-14.1%
Other Financing Sources	1,640,658	26,895,582	1539.3%	26,325,000	25,097,900	95.3%	-6.7%	22,362,000	-10.9%
<b>Total Revenues</b>	<b>\$161,600,195</b>	<b>\$186,297,256</b>	<b>15.3%</b>	<b>\$221,313,350</b>	<b>\$266,886,110</b>	<b>120.6%</b>	<b>43.3%</b>	<b>\$217,246,150</b>	<b>-18.6%</b>
<b>EXPENDITURES</b>			<b>% Cost Change</b>			<b>% Cost Change</b>		<b>FY15-16 Proposed</b>	<b>% Budget Change</b>
<b>Operating Budget</b>									
Police	\$21,487,013	\$21,592,245	0.5%	\$23,883,090	\$22,616,680	94.7%	4.7%	\$24,148,870	1.1%
Fire	15,325,322	15,882,817	3.6%	16,456,970	16,003,150	97.2%	0.8%	15,083,290	-8.3%
Public Works	35,745,515	36,889,599	3.2%	41,252,840	39,332,220	95.3%	6.6%	40,782,500	-1.1%
Utilities	14,471,295	13,556,735	-6.3%	15,176,550	15,080,400	99.4%	11.2%	16,274,170	7.2%
Development Services	7,380,415	7,721,493	4.6%	9,732,900	8,982,640	92.3%	16.3%	10,364,610	6.5%
Gen Govt Agencies	2,697,448	2,677,896	-0.7%	2,997,190	2,997,790	100.0%	11.9%	2,889,820	-3.6%
Recreation & Cultural Arts	3,284,804	3,111,764	-5.3%	3,664,250	3,224,700	88.0%	3.6%	3,749,630	2.3%
Administrative Services	5,432,917	5,468,535	0.7%	6,611,690	5,950,560	90.0%	8.8%	6,750,730	2.1%
Non-Departmental	5,003,156	5,074,649	1.4%	5,840,080	6,424,180	110.0%	26.6%	7,433,800	27.3%
Budget Savings	0	0		0	0			(1,000,000)	
<b>Total</b>	<b>\$110,827,885</b>	<b>\$111,975,733</b>	<b>1.0%</b>	<b>\$125,615,560</b>	<b>\$120,612,320</b>	<b>96.0%</b>	<b>7.7%</b>	<b>\$126,477,420</b>	<b>0.7%</b>
<b>Capital Budget</b>									<b>% Cost Change</b>
Govt Bldgs & Pub Saf Fac	\$4,070,769	\$5,753,994	41.3%	\$482,200	\$9,374,734	1944.2%	62.9%	\$305,000	-96.7%
Traffic, Streets & Highways	10,658,009	13,585,681	27.5%	43,687,510	64,629,144	147.9%	375.7%	14,776,800	-77.1%
Water & Sewer Improvements	4,691,249	10,517,533	124.2%	25,621,800	42,071,447	164.2%	300.0%	15,513,840	-63.1%
Drainage Improvements	62,421	3,026,299	4748.2%	483,100	1,510,921	312.8%	-50.1%	1,171,000	-22.5%
Airport & Transit Improvements	1,942,333	731,468	-62.3%	100,000	9,185,163	9185.2%	1155.7%	1,535,000	-83.3%
Parks & Recreation Improvement	5,054,444	575,419	-88.6%	2,835,600	23,881,886	842.2%	4050.3%	75,000	-99.7%
Miscellaneous Projects	2,151,224	2,574,923	19.7%	1,520,000	5,921,470	389.6%	130.0%	1,812,500	-69.4%
<b>Total</b>	<b>\$28,630,449</b>	<b>\$36,765,317</b>	<b>28.4%</b>	<b>\$74,730,210</b>	<b>\$156,574,765</b>	<b>209.5%</b>	<b>325.9%</b>	<b>\$35,189,140</b>	<b>-77.5%</b>
<b>Debt Service</b>	<b>\$24,626,094</b>	<b>\$43,980,524</b>	<b>78.6%</b>	<b>\$27,592,630</b>	<b>\$25,733,900</b>	<b>93.3%</b>	<b>-41.5%</b>	<b>\$26,477,860</b>	<b>2.9%</b>
<b>Total Expenditures</b>	<b>\$164,084,428</b>	<b>\$192,721,574</b>	<b>17.5%</b>	<b>\$227,938,400</b>	<b>\$302,920,985</b>	<b>132.9%</b>	<b>57.2%</b>	<b>\$188,144,420</b>	<b>-37.9%</b>
<b>ENDING FUND BALANCES</b>	<b>\$204,423,828</b>	<b>\$197,999,510</b>	<b>-3.1%</b>	<b>\$152,388,140</b>	<b>\$161,964,635</b>	<b>106.3%</b>	<b>-18.2%</b>	<b>\$191,066,370</b>	<b>18.0%</b>

<b>CITY OF TRACY</b>	<b>FY2015-2016 Proposed Budget</b>	<b>General Fund Summary</b>				15-Jun-15
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General Fund Summary	FY12-13 Actual	FY13-14 Actual	% Change	FY14-15 Adopted	FY14-15 Estimated	% of Budget	% Change	FY15-16 Projected	% Change
<b>BEGINNING FUND BALANCE</b>	\$18,985,100	\$18,985,100	0.0%	\$18,985,100	\$10,671,340	<<Actual	-43.8%	\$5,735,520	
<b>REVENUES</b>									
Property Taxes	\$14,828,444	\$15,699,554	5.9%	\$16,259,400	\$17,482,000	107.5%	11.4%	\$18,239,650	4.3%
Sales Taxes - General	14,084,197	15,527,566	10.2%	16,078,080	16,189,000	100.7%	4.3%	17,282,600	6.8%
Temporary Taxes - Measure E	6,469,067	7,194,407	11.2%	7,012,480	7,466,200	106.5%	3.8%	6,314,900	-15.4%
Other Taxes	1,753,019	1,860,580	6.1%	1,750,000	2,007,300	114.7%	7.9%	2,070,000	3.1%
Operating Assessments	363,535	370,643	2.0%	380,000	381,000	100.3%	2.8%	385,000	1.0%
License & Permit Fees	876,038	1,220,420	39.3%	1,430,280	1,724,300	120.6%	41.3%	131,600	-92.4%
Franchise Fees	2,499,946	2,593,225	3.7%	2,616,000	2,658,690	101.6%	2.5%	2,704,000	1.7%
State Shared Taxes	549,539	564,403	2.7%	563,000	587,900	104.4%	4.2%	600,100	2.1%
Other Grants	1,652,834	968,653	-41.4%	607,250	708,300	116.6%	-26.9%	635,820	-10.2%
Current Charges	8,930,268	8,588,909	-3.8%	10,074,050	9,705,130	96.3%	13.0%	4,425,360	-54.4%
Fines & Forfeitures	566,473	790,326	39.5%	919,200	167,000	18.2%	-78.9%	178,000	6.6%
Interest Earnings	163,502	660,991	304.3%	239,000	669,200	280.0%	1.2%	679,800	1.6%
Other Revenues	401,397	327,888	-18.3%	372,000	336,000	90.3%	2.5%	342,000	1.8%
Other Financing Sources	0	0		0	0			0	
Sub-total	\$53,138,259	\$56,367,565	6.1%	\$58,300,740	\$60,082,020	103.1%	6.6%	\$53,988,830	-10.1%
Community Benefit Funding	0	0		0	0			1,250,000	
Trfs In from Measure E Reserves	0	0		0	0			0	
Total Revenues	\$53,138,259	\$56,367,565	6.1%	\$58,300,740	\$60,082,020	103.1%	6.6%	\$55,238,830	-8.1%
<b>EXPENDITURES</b>									
			% Cost Change				% Cost Change	FY15-16 Proposed	% Budget Change
<b>Operating Budget</b>									
Police	\$21,480,005	\$21,582,847	0.5%	\$23,866,190	\$22,600,680	94.7%	4.7%	\$24,131,970	1.1%
Fire	8,751,942	9,231,257	5.5%	9,897,450	9,642,100	97.4%	4.5%	9,461,780	-4.4%
Public Works	3,477,408	3,454,099	-0.7%	4,165,480	3,842,470	92.2%	11.2%	4,263,410	2.4%
Utilities	110,528	195,093	76.5%	268,730	266,250	99.1%	36.5%	154,510	-42.5%
Development Services	6,284,546	6,300,993	0.3%	8,131,270	7,389,910	90.9%	17.3%	678,200	-91.7%
<i>Economic Development</i>	293,450	436,893	48.9%	542,530	466,400	86.0%	6.8%	688,890	27.0%
Gen Govt Agencies	2,615,208	2,594,940	-0.8%	2,896,220	2,903,010	100.2%	11.9%	2,786,330	-3.8%
Recreation & Cultural Arts	3,284,804	3,111,764	-5.3%	3,664,250	3,224,700	88.0%	3.6%	3,749,630	2.3%
Administrative Services	2,617,218	2,673,418	2.1%	3,392,440	3,083,740	90.9%	15.3%	3,568,780	5.2%
Non-Departmental	502,916	427,280	-15.0%	737,160	1,028,780	139.6%	140.8%	1,127,180	52.9%
Indirect Cost Reimbursement	(977,020)	(1,027,490)	5.2%	(1,139,070)	(1,148,200)	100.8%	11.7%	(1,211,650)	6.4%
Budget Savings	0	0		0	0			(1,000,000)	
Sub-total	\$48,441,005	\$48,981,094	1.1%	\$56,422,650	\$53,299,840	94.5%	8.8%	\$48,399,030	-14.2%
Capital Projects	1,518,468	0		0	10,514,000			0	
Debt Service	1,175,000	1,204,000	2.5%	1,204,000	1,204,000	100.0%	0.0%	1,222,020	1.5%
Transfers to Community Developm	0	0		0	0			699,130	
Transfers to Reserves	2,003,786	14,496,231		0	0			0	
Total Expenditures	\$53,138,259	\$64,681,325	21.7%	\$57,626,650	\$65,017,840	112.8%	0.5%	\$50,320,180	-12.7%
<b>Excess Revenues/Expenditures</b>	0	(8,313,760)		674,090	(4,935,820)			4,918,650	
<b>ENDING FUND BALANCE</b>	\$18,985,100	\$10,671,340		\$18,985,100	\$5,735,520	30.2%	-46.3%	\$10,654,170	85.8%

Group 78 - Parks & Recreation Improvements

FY15-16 CIP Proposed

Project #	Project Title	Project \$ Total	Funding Sources	Prior Years Expenditures	FY14-15 Appropriations	Total	NEW APPROPRIATIONS REQUIRED				Anticipated Completion & Comments																	
							FY15-16	FY16-17	FY17-18	FY18-19		FY19-20																
<u>FUTURE PROJECTS (Continued)</u>																												
78PP- 159	Security Upgrades - Lammersville School	100,000	F301-General Projects	0	0	100,000	0	100,000	0	0	0	0	0	0	0	0	0	0	0	0	0	Jun 17	Priority A New Equipment					
78PP- 160	Roof Replacement - Tracy Public Library	232,000	F301-General Projects	0	0	232,000	0	232,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Jun 17	Priority A Rehabilitation			
78PP- 161a	Fountain Repairs - at 2 Locations	60,000	F301-General Projects	0	0	60,000	0	60,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Jun 17	Priority B Rehabilitation		
78PP- 162	Playground Renovation LMD parks	1,436,000	F271-Landscaping Dist	0	0	1,436,000	0	1,436,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Jun 17	Priority B Rehabilitation	
78PP- 163	Irrigation Controller Upgrades - LMD parks	330,000	F271-Landscaping Dist	0	0	330,000	0	330,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Jun 17	Priority B Rehabilitation	
78PP- 201	Neighborhood Parks Ellis Prgm Area	11,729,450	F358-Ellis Prgm Area	0	0	11,729,450	0	11,729,450	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Jun 19	Priority C New Facilities	
78PP- 202	Community Park Ellis Prgm Area	3,372,010	F358-Ellis Prgm Area	0	0	3,372,010	0	3,372,010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Jun 19	Priority C New Facilities	
78PP- 203	Community Center Ellis PA	1,206,810	F358-Ellis Prgm Area F301-General Projects	0	0	1,206,810	0	1,206,810	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Jun 19	Priority C New Facility
78PP- 204	South County Park - North Tracy	30,000	F301-General Projects	0	0	30,000	0	30,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Jun 17	Priority B New Facility	
78PP- 205	Upgrade/Expansion of Senior Center	824,100	F301-General Projects F366-TIMP Pub Fac	0	0	824,100	0	824,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Jun 21	Priority D Rehab & Expan
<u>Totals</u>		65,807,622		162,352	0	65,645,270	0	19,477,000	16,879,500	21,255,270	8,033,500																	
32	Future Projects																											