

March 9, 2014

Honorable Norma Santiago Chairman of the Board of Supervisors El Dorado County, Ca

RE: EDC traffic model and impact fees

A traffic model requires a base year several years back so that it can forecast to the conditions of now and thus test the model. Our base yeas was 2010 and now we have good datasets to forecast for 2011,2012, and 2013 to calibrate the model. If the model calibrates for backcasts and forecasts then it can be validated to reflect reality (at a certain time).

So, we have some results from the model forecast (attached) and they indicate the number of SFD category permits thru 2015 will be 3,135 (page 8 of 23, Table 3). We know from the building department the actual number of permits to current 2014. There are two years left to complete the model's forecast so we know subtraction will tell us how many permits must be pulled to meet the model's prediction. It is important to use our judgment coupled with the statistics to evaluate the last two years. We have 480 SFD permits thru 2012 from the census. That's 124, 143, and 223 actual permits for 2010 – 2012. If we assume 636 permits for 2013 our new total to 2014 is 1,106 permits'. This leaves us needing 3,135 – 1,106 = 2029 permits in 2 years. Is this likely? We wish the 2013 actual permit history to be included in the validation process.

We should hit 3,135 if our model is correct. It becomes a statistical problem forecasting 2014 and 2015 with the model's elevated projections. These projections carry forward in time driving up the CIP and impact fees.

A yearly review of the program is required and these projections become relevant very quickly as the projections fail. We have enough data now to challenge the model's forecast.

We can look at other variables to if they are responding differently to the permit trend line – say jobs and school populations (big trip generators) to see if permit forecasts are in accord.

School CBED"S show student population levels declined below 2001 population levels. Model employment projections are showing more job growth by 2015 than we have had in the entire time since 2001. We have 5 consecutive years of job losses (-5,700) and we forecast a turnaround in 2 years? We have also forecasted inflated trip counts from these skewed data. We use old studies and skew impact higher through the use of bad data.

Attached are support documents for jobs, school populations in EDC, and parcel inventory data. The model can easily be changed to reflect accurate data and cure the model assumptions. Current data from 1013 needs to be released (building permits, etc.) and included in the model to accomplish this. Our choices going forward are all affected by the forecast.

What if our permits went down to 150 for 2013? Or up to 2,400? We would be under collecting fees if this 2,400 figure were used. With public support for the model at question isn't it prudent to repair the model and use up to date and valid information.

Respectfully

Link to FHA Model Validation Guidelines https://connect.ncdot.gov/projects/planning/tpb%20training%20presentations/fhwa%20model%2 0validation%20handbook.pdf

LIDE CURRENT DATA Source August 2013

									Changes			
County		2001	2003	2005	2007	2009	2011	2012	'01 to '07 ('0	07 to '11) '1	1 to '12	
Jobs)								Ì	· · · · · · · · · · · · · · · · · · ·	K TRENC	·
	El Dorado	45,234	47,745	51,079	53,303	49,040	47,517	n/a	+8,069	-5,786		NET OYR
	Placer	119,531	129,289	135,945	139,928	126,151	128,189	n/a	+20,397	-11,739	1	+2300 3065
	Sacramento	574,454	583,581	608,602	623,764	583,320	558,640	n/a	+49,310	-65,124		
	Sutter	25,458	26,591	26,894	28,943	27,297	26,765	n/a	+3,485	-2,178		
	Yolo	93,838	95,300	99,853	103,269	97,937	94,970	n/a	+9,431	-8,299		
	Yuba	17,480	16,471	17,515	17,667	15,868	14,973	n/a	+187	-2,694	in der E Konstant	
	Total	875,995	898,977	939,888	966,874	899,613	871,054	n/a	+90,879	-95,820		
Employe	d Residents*)					1	LYRS=	+600 0	nplayed Ross	1 to '12	
	El Dorado	80,500	83,200	86,800	85,800	81,600	79,500	81,100	+5,300	-6,300	+1,600	
	Placer	133,500	146,000	157,400	164,500	161,100	158,800	162,000	+31,000	-5,700	+3,200	
	Sacramento	596,400	618,300	632,500	640,000	604,900	596,500	608,400	+43,600	-43,500	+11,900	
	Sutter	34,700	35,300	36,200	37,100	34,900	34,700	35,300	+2,400	-2,400	+600	
	Yolo	83,800	86,100	87,400	92,100	87,700	85,500	87,200	+8,300	-6,600	+1,700	
	Yuba	22,700	22,700	23,400	24,800	23,500	22,700	23,100	+2,100	-2,100	+400	
	Total	951,600	991,600	1,023,700	1,044,300	993,700	977,700	997,100	+92,700	-66,600	+19,400	

Table 1. Jobs and Employed Residents by County, 2000-2011

Source: SACOG, August 2013, based on data from California Employment Development Department.

[†] These estimates of jobs are based on unemployment insurance records submitted by employers, and omits some types of employment sites, such as homebased businesses. Location is based on the recorded location of the employer.

^{*} These estimates of employed workers area based on surveys of residents in each county, and their employment status in the survey year. Location is based on the residence location of the respondent

El Dorado County School Districts CBEDS Retrospect October 3, 2012

		% of		% of		% of		% of	100-000-00-00-00-00-00-00-00-00-00-00-00	% of		% of	enrollment	
DISTRICT	2007	change	2008	change	2009	change	2010	change	2011	change	2012	change	change	2001
		from PY		from PY		from PY		from PY		from PY		from PY	from PY	
Black Oak Mine	1,847	-3.9%	1,743	-5.6%	1,650	-5.3%	1,636	-0.8%	1,570	-4.0%	1,420	-9.6%		2012
Buckeye Union	4,794	1.0%	4,792	0.0%	4,744	-1.0%	4,721	-0.5%	4,636	-1.8%	2006			
CA Montessori Project	307	0.7%	308	0.3%	331	7.5%	352	6.3%	361	2.6%		420 2001	5	
Camino Union	450	0.9%	438	-2.7%	426	-2.7%	449	5.4%	473	5.3%	513	8.5%	40	592
El Dorado HS	7,284	-0.8%	7,259	-0.3%	7,061	-2.7%	6,966	-1.3%	6,908	-0.8%	2003	-0.5%		6612
Gold Oak	692	-0.4%	633	-8.5%	589	-7.0%	550	-6.6%	493	-10.4%	2001445	-9.7%		756
Gold Trail	552	0.5%	552	0.0%	542	-1.8%	541	-0.2%	543	0.4%	2001	4.6%	25	645
Indian Diggings	31	-8.8%	26	-16.1%	23	-11.5%	18	-21.7%	22	22.2%	2001 18	-18.2%		38
Lake Tahoe	4,182	-2.5%	4,077	-2.5%	3,965	-2.7%	3,878	-2.2%	3,856	-0.6%	2001	-1.6%		5489
Latrobe	197	-2.5%	181	-8.1%	178	-1.7%	171	-3.9%	170	-0.6%	-2001	-11.8%		192
Mother Lode	1,450	-1.8%	1,386	-4.4%	1,356	-2.2%	1,225	-9.7%	1,196	-2.4%	-1,141	-4.6%		1663
Pioneer	440	-2.2%	428	-2.7%	403	-5.8%	397	-1.5%	342	-13.9%		-8.8%		599
Placerville	1,140	-3.5%	1,169	2.5%	1,211	3.6%	1,258	3.9%	1,278	1.6%		-0.8%		1345
Pollock Pines	768	-1.5%	745	-3.0%	720	-3.4%	699	-2.9%	704	0.7%	200 694	-1.4%		935
Rescue	4,089	3.9%	4,108	0.5%	4,116	0.2%	4,065	-1.2%	3,994	-1.7%	2006	-2.4%		3346
Silver Fork	19	5.6%	18	-5.3%	16	-11.1%	12	-25.0%	14	16.7%	20010	-28.6%		17
EDCOE	1,078	3.0%	1,041	-3.4%	1,077	3.5%	1,122	4.2%	1,079	-3.8%	2006	-4.6%		77
TOTAL	29,320	-0.4%	28,904	-1.4%	28,408	-1.2%	28,060	-1.2%	27,639	-1.5%	27,232	-1.5%		
Change from PY POWAY TRELLO I UP POP. 3 below 2006														
total student populatione Down FROM 2001 total 17 DOWN POP. 1 below 2003														
2001 -	29,10	04									1.5	t belo	w 200	1

2012 - 27,232

CBEDS 2012 FINAL (2).xlsx,Retrospect,5/3/2013

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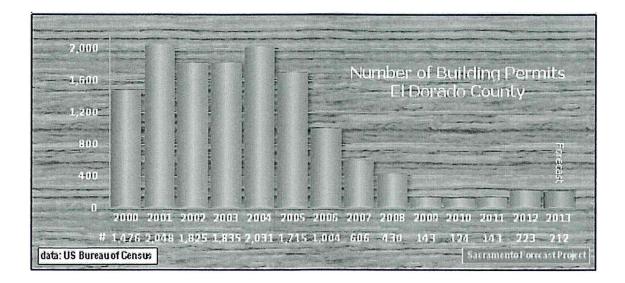
El Dorado County School Districts CBEDS Retrospect October 2008

	% of		% of				% of	enrollment										
DISTRICT	change	2001	change	2002	change	2003	change	2004	change	2005	change	2006	change	2007	change	2008	change	change
	from PY	State of the	from PY	d an an an an Anna Anna Anna Anna Anna A	from PY		from PY	from PY										
Black Oak Mine	1.1%	2,012	0.5%	2,022	0.5%	2,016	-0.3%	1,943	-3.6%	1,979	-3.6%	1,922	-2.9%	1,847	-3.9%	1,743	-5.6%	(104)
Buckeye Union	3.6%	4,100	3.4%	4,213	2.8%	4,279	1.6%	4,527	5.8%	4,623	5.8%	4,748	2.7%	4,794	1.0%	4,792	0.0%	(2)
CA Montessori Project												305	0.0%	307	0.0%	308	0.3%	. 1
Camino Union	3.8%	592	3.0%	555	-6.3%	521	-6.1%	507	-2.7%	492	-2.7%	446	-9.3%	450	0.9%	438	-2.7%	(12)
El Dorado HS	0.7%	6,612	2.9%	6,858	3.7%	6,981	1.8%	7,248	3.8%	7,411	3.8%	7,344	-0.9%	7,284	-0.8%	7,259	-0.3%	(25)
Gold Oak	-6.2%	756	-0.4%	756	0.0%	727	-3.8%	747	2.8%	716	2.8%	695	-2.9%	692	-0.4%	633	-8.5%	(59)
Gold Trail	0.9%	645	-2.3%	645	0.0%	610	-5.4%	553	-9.3%	543	-9.3%	549	1.1%	552	0.5%	552	0.0%	-
Indian Diggings	44.0%	38	5.6%	36	-5.3%	40	11.1%	40	0.0%	39	0.0%	34	-12.8%	31	-8.8%	26	-16.1%	(5)
Lake Tahoe	-1.2%	5,489	-3.9%	5,238	-4.6%	5,094	-2.7%	4,771	-6.3%	4,520	-6.3%	4,291	-5.1%	4,182	-2.5%	4,077	-2.5%	(105)
Latrobe	-2.8%	192	9.7%	203	5.7%	196	-3.4%	215	9.7%	210	9.7%	202	-3.8%	197	-2.5%	181	-8.1%	(16)
Mother Lode	-3.0%	1,663	1.5%	1,611	-3.1%	1,629	1.1%	1,574	-3.4%	1,550	-3.4%	1,477	-4.7%	1,450	-1.8%	1,386	-4.4%	(64)
Pioneer	4.0%	589	-0.3%	556	-5.6%	554	-0.4%	539	-2.7%	492	-2.7%	450	-8.5%	440	-2.2%	428	-2.7%	(12)
Placerville	-0.2%	1,345	2.9%	1,304	-3.0%	1,290	-1.1%	1,294	0.3%	1,210	0.3%	1,181	-2.4%	1,140	-3.5%	1,169	2.5%	29
Pollock Pines	-0.5%	935	-6.6%	851	-9.0%	804	-5.5%	799	-0.6%	797	-0.6%	780	-2.1%	768	-1.5%	745	-3.0%	(23)
Rescue	5.1%	3,346	4.0%	3,529	5.5%	3,624	2.7%	3,695	2.0%	3,811	2.0%	3,936	3.3%	4,089	3.9%	4,108	0.5%	19
Silver Fork	-41.2%	17	70.0%	17	0.0%	10	-41.2%	17	70.0%	16	70.0%	18	12.5%	19	5.6%	18	-5.3%	(1)
EDCOE	-5.4%	773	7.8%	754	-2.5%	708	-6.1%	899	27.0%	927	27.0%	1,047	12.9%	1,078	3.0%	1,041	-3.4%	(37)
TOTAL	0.7%	29,104	1.1%	29,148	0.2%	29,083	-0.2%	29,368	1.0%	29,336	-0.1%	29,425	0.3%	29,320	-0.4%	28,904	-1.4%	(416)

- 2001 total statement population

O: Joni Campos Web Page Links CBEDS Copy of CBEDS 2008 041509.xlsx

Sacramento Forecast Project



Building Permits

Residential Building Permits (total units) in El Dorado County have declined 93.9% from the high of 2,031 residential permits in 2004, down to the recent low of 124 permits issued in 2010. The result for 2011 was for a 15.3% **increase** to 143 permits and 2012 did even better, adding 80 permits (a 55.9% **increase**) for a total of 223 permits issued. The forecast for 2013 *using actual data through December, 2012*, is for a 5.1% (11 permit) decrease to 212 permits issued.

http://sacramentoforecastproject.org/

Arthur N. Jensen, Emeritus Professor of Marketing e-mail to: a.jensen@comcast.net

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otal Housing Units	2010 59,668	<u>2015</u> 62,803	<u>2020</u> 66,102	<u>2025</u> 69,575	<u>2030</u> 73,230	<u>2035</u> 77,077	
aw Housing Units <u>Each Period</u>							
			cremental Gr	owth from Pri	or 5 Years		
arket Area (a)		(2015)	2020	2025	2030	2035	Total
- El Dorado Hills		861	906	954	1,004	1,057	4,781
Single-family Units		772	812	855	973	1,057	4,469
Aultifamily Units		89	94	99	31	0	312
- Cameron Park/Shingle Springs		755	795	837	881	927	4,195
Single-family Units		677	713	750	717	702	3,560
Aultifamily Units		78	82	86	164	225	635
- Diamond Springs		164	172	181	191	201	909
Single-family Units		147	155	163	171	180	815
Aultifamily Units		17	18	19	20	21	94
- Unincorporated Placerville Area		82	86	90	95	100	454
Single-family Units		73	77	81	85	70	387
Aultifamily Units		8	9	9	10	30	67
- Coloma/Gold Hill		166	175	184	193	204	921
Single-family Units		166	175	184	193	204	921
Aultifamily Units		0	0	0	0	0	0
- Pollock Pines		203	214	225	237	250	1,129
Single-family Units		182	172	178	188	218	938
Aultifamily Units		21	42	47	50	32	191
- Pleasant Valley		208	219	230	243	255	1,155
Single-family Units		186	216	230	243	255	1,131
Aultifamily Units		21	3	0	0	0	24
- Latrobe		17	18	19	20	21	94
Single-family Units		17	18	19	20	21	94
Aultifamily Units		0	0	0	0	0	0
- Somerset		125	131	138	145	153	692
Single-family Units		125	131	138	145	153	692
Aultifamily Units		0	0	0	0	0	0
0 - Cool/Pilot Hill		166	175	184	194	204	924
Single-family Units		166	175	184	194	204	924
Aultifamily Units		0	0	0	0	0	0
1 - Georgetown/Garden Valley		245	. 258	271	286	301	1,361
Single-family Units		245	258	271	286	301	1,361
Aultifamily Units		0	0	0	0	0	0
2 - Tahoe Basin		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Single-family Units		n.a.	n.a.	n.a.	n.a.	n.a.	n.a .
Aultifamily Units		n.a.	п.а.	n.a.	n.a.	n.a.	n.a.
3 - American River		91	95	100	106	111	503
Single-family Units		91	95	100	106	111	503
Aultifamily Units		0	0	0	0	0	0
4 - Mosquito		52	55	58	61	64	291
Single-family Units	. 1-	52	55	58	61	64	291
Aultifamily Units	Penizztel	-	0	0	0	0	0
otal	ZOIS	(3,135)	3,299	3,473	3,655	3,847 -y PERM	17,409

For the geographic boundaries of the various Market Areas, please refer to Figure 1 on page 9. (a) Projected overall growth is allocated to Market Areas based on each Market Area's proportionate share of West Slope, less City of Placerville growth from 2000 to 2011. See Appendix A.

Towarters Remaining Thru 2005 - CAN ASSUME 1100 pERMits for 2 yrs

(2014,2015) to be A

14-0245 | 8 of 23 LEGITIMATE FERECAST. AUG. 1957 7 YES = 260 14-0245 Public Comment BOS Rovd 3-11-14 Page 6.01.8

Sources: El Dorado County, BAE, 2013.

Appendix B: Maximum Residential Capacity on Currently Vacant Parcels

Market Area	Outstanding SFR Capacity	Outstanding Muitifamily Capacity	Total Outstanding Residential Capacity	
#1 - El Dorado Hilla	8,033	312	8,345	- 1
#2 - Cameron Park/ Shingle Springs	4,660	2,201	6.8612	C.P. C.
#3 - Diamond Springs	3,870	2,401	G211	Siamono Spanys
#4 - Unincorporated Placerville Area	941	83	1,024	
#5 - Coloma/Gold Hill	925	0	925	
#8 - Pollock Pines	1,197	191	1,388	
#7 • Pleasant Valley	1,238	24	1,260	\ \
#8 - Latrobe	1,275	0	1,275	\mathbf{N}
#9 - Somerset	853	0	853	×
#10 - CocVPilot Hill	2,345	0	2,345	
#11 - Georgetown/Garden Valley	2,748	0	2,748	
#12 - Tahoe Basin	n.a.	n.e.	n.a.	D'CC
#13 - American River	1,198	0	1,198	Vitt-
#14 - Mosquito	318	0	318	120
Total	29,589	5,212	34,811	1100

Notes and exclusions:

Figures in columns may not sum to totals due to rounding.

For the geographic boundaries of the various Market Areas, please refer to Figure 1 on page 9.

1. Excludes Mixed Use residential capacity on commercial lands.

2. Rural Regions analyses is based on vacant residential lands capacities only, additional underutilized capacity exists but is not analyzed.

3. Community Regions analyses is based on draft land use capacity dated 12/1/12, minor adjustments may be expected prior to completion.

4. Camino/Pollock Pines Community Region analysis is based on underlying land uses only, with no parcel specific analyses (performed for Market Area 6).

5. Vacant Rural Region analyses is based on underlying residential land uses on vacant lands without parcel specific constraints analysis. It does not include vacant agricultural lands.

Underdeveloped Rural Region analyses is based on underlying land uses without parcel specific constraints analysis and includes partially developed residential lands and vacant agricultural lands.

Scurce: Kimley-Horn and Associates, Inc., 2012.

1.06 Actual Court (Staff & MERS Y gou INUENTORY Constraints Remover ! Skews

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LUPPU/2004 GP Proposed New Homes Acould In Dire Dire Directer (Not yet approved) LUPPU/GP Currently Additional % New "Achievable Approved LUPPU / 2004 Housing " Units¹ **GP Units** Lots Increase 53% El Dorado 7,872 7,290 582 = Hills -341 59% 116 4462 341 4121 Cameron = TIO9 TIO9 HAPPEODED Lots laFt Diamond Sp, Cam Park, 652 Park 124% 116 Shingle 2,018 1902 = Springs 101% 652 Diamond 4,960 4308 = Springs /

10,916

¹ CEDAC/LUPPU 2013: Potential units from sub-dividing "Currently Approved Lots"

08/23/2013

El Dorado

Total

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