

## Allocation Study

Below is a listing of the exhibits for the many factors that were taken into consideration in this study.

- Exhibit 15 –provides an overview of all nearby allocations.
- Exhibit 15A – shows the relationship between the proposed facility and KFJC Los Altos, California (FIN 22012)
- Exhibit 15B – shows the relationship between the proposed facility and KFER Santa Cruz, California (FIN 59064)
- Exhibit 15C – shows the relationship between the proposed facility and KFRS Soledad, California (FIN 86669)
- Exhibit 15D – a request for a waiver of 47 C.F.R. 73.509 in regard to interference caused and received in respect to KAZU Pacific Grove, California (FIN 43591)

# Prunedale Educational Association

## Exhibit 15 Prunedale, CA

REFERENCE		CH# 209B1- 89.7 MHz, Pwr= 0.45 kW, HAAT=715.0M, COR= 1013 M								DISPLAY DATES	
36 45 22 N.		Average Protected F(50-50)= 41.0 km								DATA	03-25-06
121 30 06 W.		Ave. F(50-10) 40 dBu= 107.5 54 dBu= 61.7 80 dBu= 11.2 100 dBu= 1.5								SEARCH	03-27-06
CH CITY	CALL	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	COR(M) INT(km)	PRO(km) LICENSEE	*IN* (Overlap	*OUT* in km)	
209B1 Prunedale	KLVM.C	CP DCX CA	0.0 0.0	0.00 BPED20040525AHH	36 45 22 121 30 06	0.021 776	965 66.2	19.6 Prunedale	-85.87*	-86.54*	Educational Asso
209A Prunedale	KLVM	LIC CN CA	90.0 270.0	0.02 BLED19860224KB	36 45 22 121 30 05	0.021 802	965 67.3	19.9 Prunedale	-83.71*	-77.37*	Educational Asso
209B San Joaquin	970626	CP DVX CA	119.0 299.5	87.97 BPED19970626MF	36 22 11 120 38 37	0.053 558	1622 69.4	21.2 American	5.27	21.68	Educational Broad
209B1 Los Altos	KFJC	LIC C CA	318.1 137.7	84.64 BMLD19961105KB	37 19 14 122 08 29	0.110 297	820 58.1	18.3 Foothill-de	8.39	3.91	Anza Community
210A Santa Cruz	KFER	LIC CN CA	304.3 124.0	50.79 BLED19920212KB	37 00 45 121 58 25	0.200 113	174 19.4	12.9 Santa Cruz	9.87	4.46	Educational Bro
210A Soledad	KFRS	LIC VX CA	158.8 339.0	57.42 BLED20020408ABB	36 16 25 121 16 12	0.250 305	386 34.0	22.7 Family Stations,	4.66	6.24	Inc.
212B1 Pacific Grove	KAZU	LIC C CA	228.5 48.4	34.15 BLED20040105AAN	36 33 09 121 47 17	3.400 274	394 3.3	39.3 Foundation Of	-14.71*	-6.59*	California S
208A Ceres	KBES	LIC HN CA	27.4 207.7	104.37 BLED19920921KB	37 35 21 120 57 23	0.150 49	68 11.4	8.0 Bet Nahrain,	73.31	65.76	Inc.
209A Lodi	971113	APP VN CA	8.2 188.4	152.09 BPED19971113MD	38 06 43 121 15 07	0.690 49	58 41.3	11.7 Educational Media Foundati	90.96	72.75	
207A San Jose	KMTG	LIC DCX CA	327.3 147.1	58.93 BLED20040803ABX	37 12 06 121 51 42	0.069 -204	185 0.6	5.1 San Jose Unified School Di	39.96	53.50	
210B Le Grand	KEFR	LIC CN CA	56.0 236.9	156.61 BLED19910610KB	37 32 01 120 01 50	1.800 886	1330 87.6	59.0 Family Stations,	49.73	67.90	Inc.
207A Scotts Valley	AP207	APP DCN CA	301.2 120.8	66.68 BNPED20000214AAA	37 03 53 122 08 37	0.047 377	556 0.5	16.6 Csn International	44.13	49.70	
262B San Jose	KBRG	LIC C CA	322.6 142.4	49.76 BMLH19980504KC	37 06 40 121 50 34	14.500 676	1200 98.8	89.0 Univision Radio License Co	17.0R	32.8M	
209A Lodi	971113	APP VX CA	5.9 186.0	181.62 BPED19971113MD	38 23 01 121 17 15	6.800 129	143 93.2	32.6 Educational Media Foundati	68.71	81.70	
206B1 Livingston	KCJH	LIC DVX CA	47.8 228.3	93.10 BLED20050506AAZ	37 18 57 120 43 20	9.364 99	126 3.1	31.1 Your Christian Companion N	70.52	61.63	
207A Fremont	KOHL	LIC DEN CA	337.8 157.6	93.76 BLED19930503KA	37 32 14 121 54 14	0.013 11	329 0.3	3.4 Fremont-newark Community C	74.31	90.11	
06Z2E Sacramento	KVIE	LI HN CA	359.9 179.9	168.20 BLET20030328ANE	38 16 18 121 30 22	100.000 550	553 10.7	124.8 Kvie, Inc.	196.0R	-27.8M•	
06+2C San Louis Obispo	KSBY	LI N CA	153.6 334.1	172.65 BMLCT19860228KG	35 21 37 120 39 18	100.000 543	885 11.0	114.8 Ksby Communications, Inc.	196.0R	-23.4M•	

ERP and HAAT on direct-line with reference station.

• affixed to TV6 Margin= no direct-line contour overlap.

\*\*\*affixed to 'IN' or 'Out' values = site inside protected contour.

**Relationship between the proposed facility and KFJC**

The facilities of KLVM and KFJC (FIN 59064) are Grandfathered short-spaced stations according to the guidelines set forth in 47 C.F.R. 73.213(a). This proposal seeks to modify the facilities of KLVM.

The proposed KLVM facility does not change the amount of interference either caused to or received from, co-channel facility KFJC (see Exhibit 15-A1 and 15-A2).

Therefore the proposed facility complies with 47 C.F.R. 73.213(a).

# Exhibit 15-A1

## KLVM lic

BLED19860224KB  
 Latitude: 36-45-22 N  
 Longitude: 121-30-05 W  
 ERP: 0.021 kW  
 Channel: 209  
 Frequency: 89.7 MHz  
 AMSL Height: 965.0 m  
 Elevation: 935.0 m  
 Horiz. Pattern: Omni

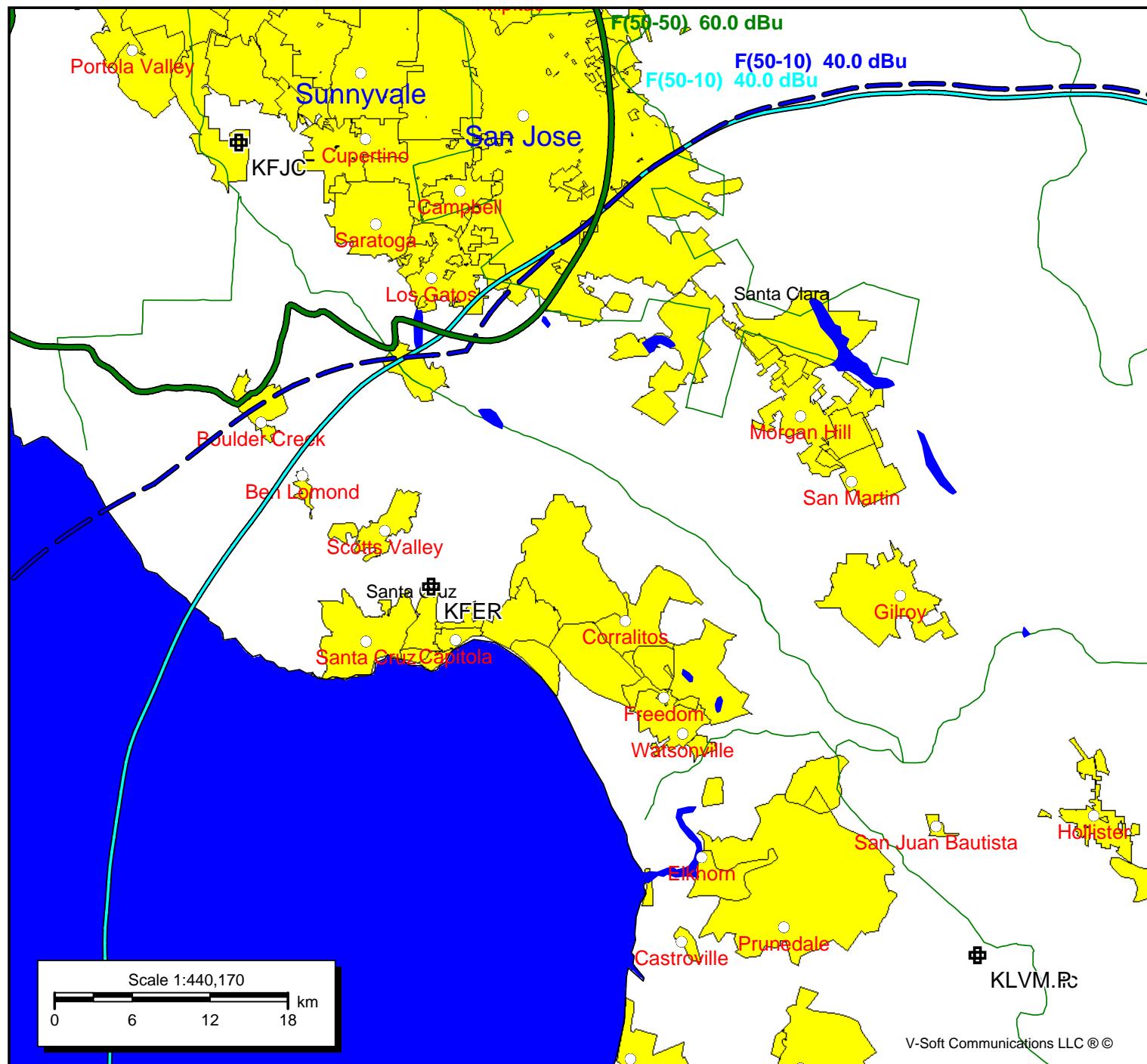
## KLVM.P

Latitude: 36-45-22 N  
 Longitude: 121-30-06 W  
 ERP: 0.45 kW  
 Channel: 209  
 Frequency: 89.7 MHz  
 AMSL Height: 1013.0 m  
 Elevation: 935.0 m  
 Horiz. Pattern: Directional

## KFJC

BMLED19961105KB  
 Latitude: 37-19-14 N  
 Longitude: 122-08-29 W  
 ERP: 0.11 kW  
 Channel: 209  
 Frequency: 89.7 MHz  
 AMSL Height: 820.0 m  
 Elevation: 805.0 m  
 Horiz. Pattern: Omni

- KLVM lic
- KLVM.P
- KFJC
- KFER
- KAZU
- KFRS



# Exhibit 15-A2

## KLVM lic

BLED19860224KB  
 Latitude: 36-45-22 N  
 Longitude: 121-30-05 W  
 ERP: 0.021 kW  
 Channel: 209  
 Frequency: 89.7 MHz  
 AMSL Height: 965.0 m  
 Elevation: 935.0 m  
 Horiz. Pattern: Omni

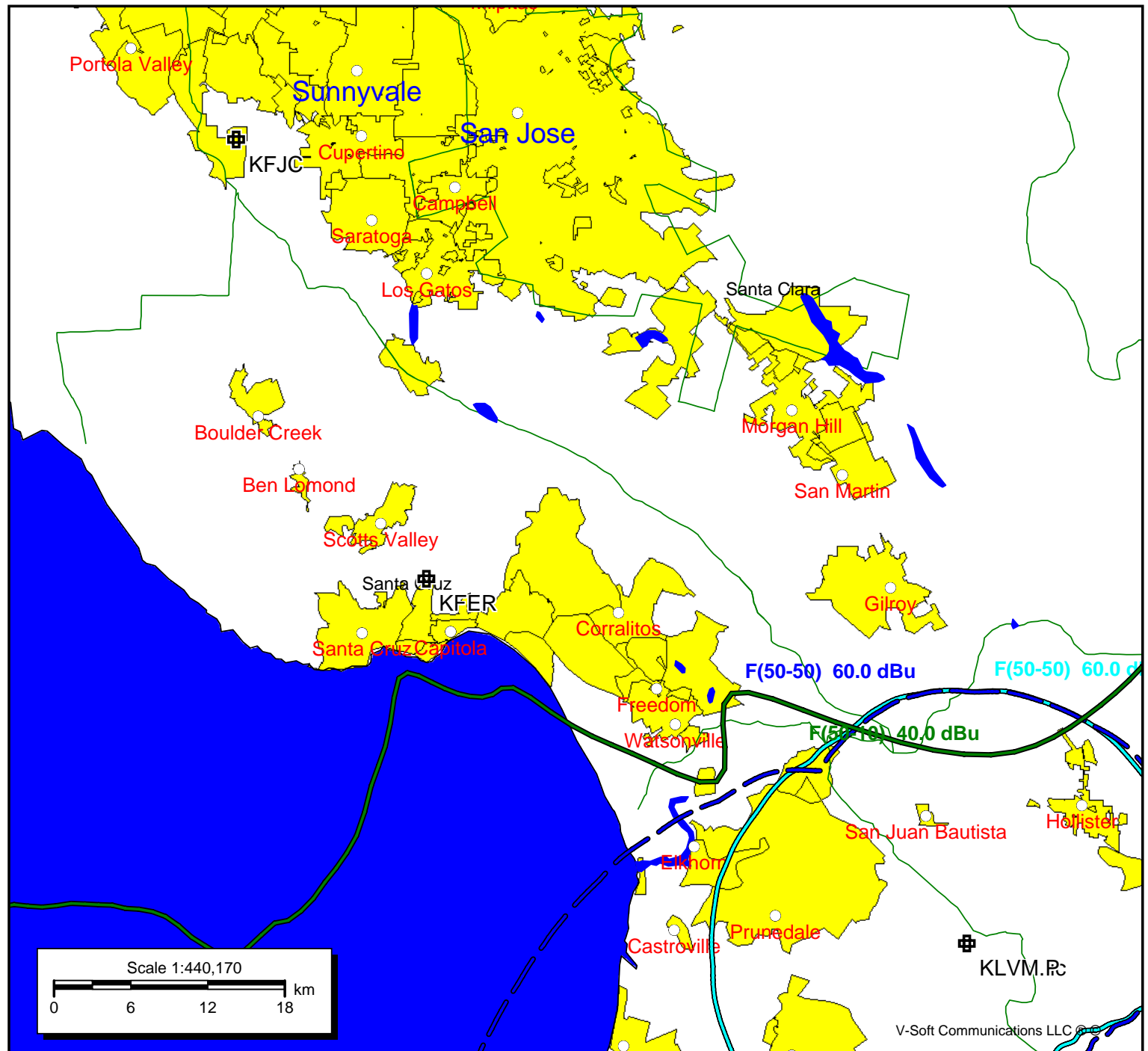
## KLVM.P

Latitude: 36-45-22 N  
 Longitude: 121-30-06 W  
 ERP: 0.45 kW  
 Channel: 209  
 Frequency: 89.7 MHz  
 AMSL Height: 1013.0 m  
 Elevation: 935.0 m  
 Horiz. Pattern: Directional

## KFJC

BMLED19961105KB  
 Latitude: 37-19-14 N  
 Longitude: 122-08-29 W  
 ERP: 0.11 kW  
 Channel: 209  
 Frequency: 89.7 MHz  
 AMSL Height: 820.0 m  
 Elevation: 805.0 m  
 Horiz. Pattern: Omni

- KLVM lic
- KLVM.P
- KFJC
- KFER
- KAZU
- KFRS



## **Relationship between the proposed facility and KFER**

The proposed KLVM facility's 54 dBu interfering contour overlaps the 60 dBu protected contour of KFER (FIN 59064). As can be seen in the attached map, Exhibit 15-B1, the area of overlap occurs entirely over water.

Thus, the proposed facility complies with 47 C.F.R. 73.509(e).

## Exhibit 15-B1

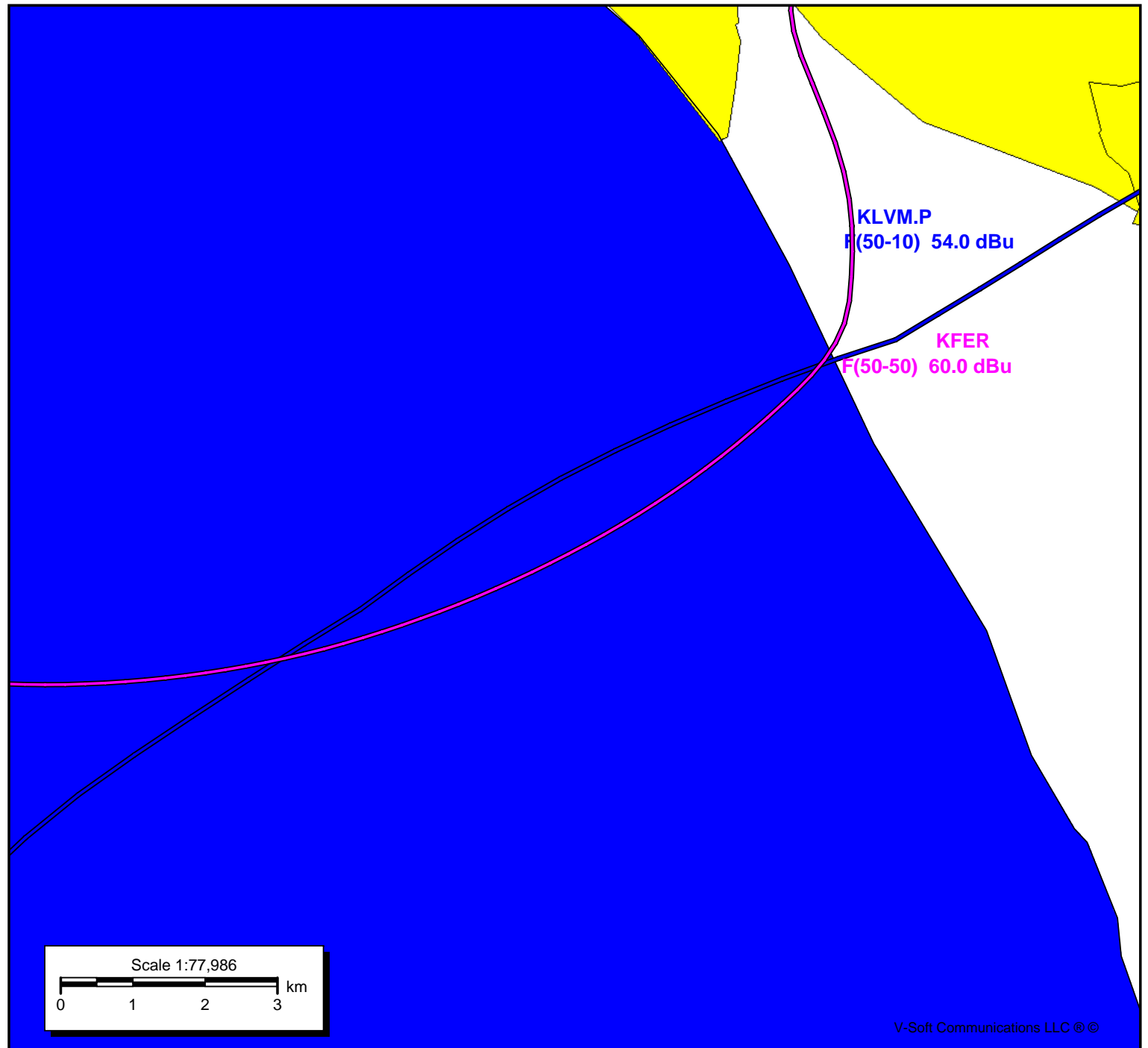
### KLVM.P

Latitude: 36-45-22 N  
Longitude: 121-30-06 W  
ERP: 0.45 kW  
Channel: 209  
Frequency: 89.7 MHz  
AMSL Height: 1013.0 m  
Elevation: 935.0 m  
Horiz. Pattern: Directional

### KFER

BLED19920212KB  
Latitude: 37-00-45 N  
Longitude: 121-58-25 W  
ERP: 0.20 kW  
Channel: 210  
Frequency: 89.9 MHz  
AMSL Height: 174.0 m  
Elevation: 159.0 m  
Horiz. Pattern: Omni

- KLVM lic
- KLVM.P
- KFJC
- KFER
- KAZU
- KFRS



## Exhibit 15-C

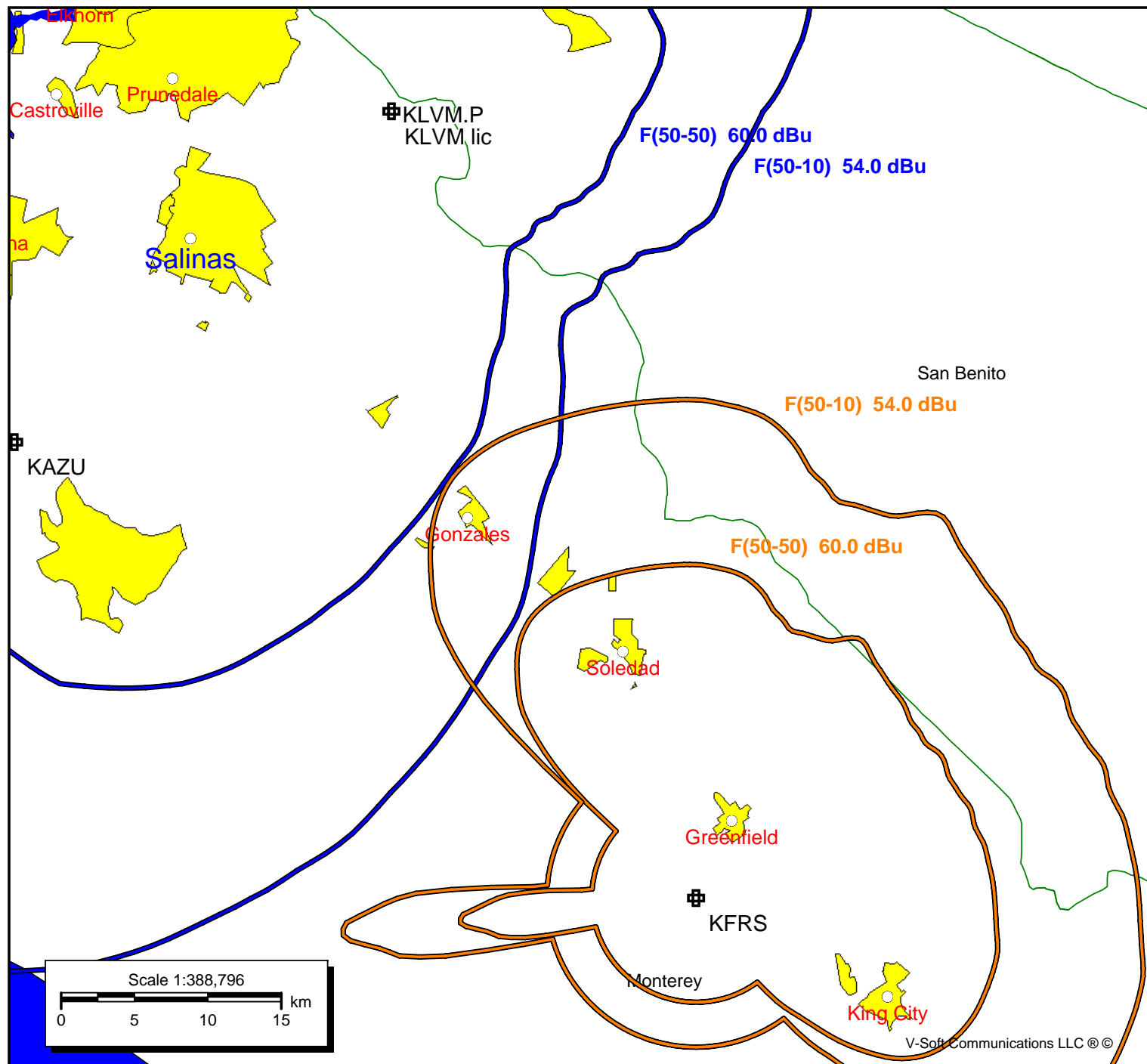
### KLVM.P

Latitude: 36-45-22 N  
Longitude: 121-30-06 W  
ERP: 0.45 kW  
Channel: 209  
Frequency: 89.7 MHz  
AMSL Height: 1013.0 m  
Elevation: 935.0 m  
Horiz. Pattern: Directional

### KFRS

BLED20020408ABB  
Latitude: 36-16-25 N  
Longitude: 121-16-12 W  
ERP: 0.25 kW  
Channel: 210  
Frequency: 89.9 MHz  
AMSL Height: 386.0 m  
Elevation: 366.0 m  
Horiz. Pattern: Omni

- KLVM lic
- KLVM.P
- KFJC
- KFER
- KAZU
- KFRS





## KFRS vs. KLVM.P

04-02-2006      30 Arc-Sec. Terrain Data      FMOver Analysis

KLVM. P  
Channel = 209B1  
Max ERP = 0.45 kW  
RCAMSL = 1013 M  
N. Lat = 36 45 22  
W. Lng = 121 30 06  
Protected  
60 dBu

KFRS      BLED20020408ABB  
Channel = 210A  
Max ERP = 0.25 kW  
RCAMSL = 386 M  
N. Lat = 36 16 25  
W. Lng = 121 16 12  
Interfering  
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
160.0	000.0523	0484.8	019.4	338.3	000.2500	0304.7	038.0	52.07
161.0	000.0551	0502.3	020.1	337.7	000.2500	0304.7	037.4	52.38
162.0	000.0579	0520.5	020.8	337.1	000.2500	0304.1	036.7	52.69
163.0	000.0608	0537.6	021.5	336.4	000.2500	0303.2	036.0	52.96
164.0	000.0637	0554.5	022.1	335.7	000.2500	0303.2	035.4	53.25
165.0	000.0668	0568.8	022.7	334.9	000.2500	0301.9	034.9	53.46
166.0	000.0698	0578.8	023.2	334.1	000.2500	0300.3	034.5	53.60
167.0	000.0730	0585.1	023.6	333.3	000.2500	0298.4	034.2	53.68
168.0	000.0762	0589.6	023.9	332.5	000.2500	0296.1	034.0	53.73
169.0	000.0796	0594.4	024.3	331.6	000.2500	0296.1	033.8	53.83
170.0	000.0829	0601.7	024.7	330.7	000.2500	0293.3	033.6	53.87
171.0	000.0873	0609.0	025.1	329.8	000.2500	0289.9	033.3	53.90
172.0	000.0917	0616.4	025.6	328.7	000.2500	0285.5	033.0	53.89
173.0	000.0963	0626.8	026.1	327.7	000.2500	0279.9	032.8	53.85
174.0	000.1010	0636.7	026.6	326.6	000.2500	0273.6	032.5	53.78
175.0	000.1058	0647.2	027.1	325.4	000.2500	0258.5	032.3	53.41
176.0	000.1107	0658.3	027.7	324.2	000.2500	0249.3	032.1	53.21
177.0	000.1157	0668.3	028.2	323.0	000.2500	0239.0	031.9	52.95
178.0	000.1208	0678.4	028.7	321.7	000.2500	0228.3	031.8	52.62
179.0	000.1261	0689.2	029.2	320.4	000.2500	0206.7	031.7	51.80
180.0	000.1314	0699.7	029.7	319.0	000.2500	0196.4	031.6	51.40

Exhibit 15-D1

Contour Parameters:

Type: FCC Contour

F(50-50) FS: 100.00 dBu [360 Radials]

Population Database: 2000 US Census (SF1)

Primary Terrain: V-Soft 30 Second US Database

Secondary Terrain: V-Soft 3 Second US Terrain

-----  
Transmitter Information:

Call Letters: KLVM lic

File Number: BLED19860224KB

Latitude: 36-45-22 N

Longitude: 121-30-05 W

ERP: 0.021 kW

Channel: 209

Frequency: 89.7 MHz

AMSL Height: 965.0 m

Elevation: 935.0 m

Horiz. Antenna Pattern: Omni

Vert. Elevation Pattern: No  
-----

Total Population Within Contour: 0

Total Housing Units Within Contour: 0

Total Area Within Contour: 0.32 sq. km  
  
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Exhibit 15-D2

Contour Parameters:

Type: FCC Contour

F(50-10) FS: 100.00 dBu [360 Radials]

Population Database: 2000 US Census (SF1)

Primary Terrain: V-Soft 30 Second US Database

Secondary Terrain: V-Soft 3 Second US Terrain

-----  
Transmitter Information:

Call Letters: KLVM.P

Latitude: 36-45-22 N

Longitude: 121-30-06 W

ERP: 0.45 kW

Channel: 209

Frequency: 89.7 MHz

AMSL Height: 1013.0 m

Elevation: 935.0 m

Horiz. Antenna Pattern: Directional

Vert. Elevation Pattern: No  
-----

Total Population Within Contour: 0

Total Housing Units Within Contour: 0

Total Area Within Contour: 1.64 sq. km  
  
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# Exhibit 15-D1&2

## KLVM.P

Latitude: 36-45-22 N  
Longitude: 121-30-06 W  
ERP: 0.45 kW  
Channel: 209  
Frequency: 89.7 MHz  
AMSL Height: 1013.0 m  
Elevation: 935.0 m  
Horiz. Pattern: Directional

## KAZU

BLED20040105AAN  
Latitude: 36-33-09 N  
Longitude: 121-47-17 W  
ERP: 3.40 kW  
Channel: 212  
Frequency: 90.3 MHz  
AMSL Height: 394.0 m  
Elevation: 363.0 m  
Horiz. Pattern: Omni

- KLVM lic
- KLVM.P
- KFJC
- KFER
- KAZU
- KFRS

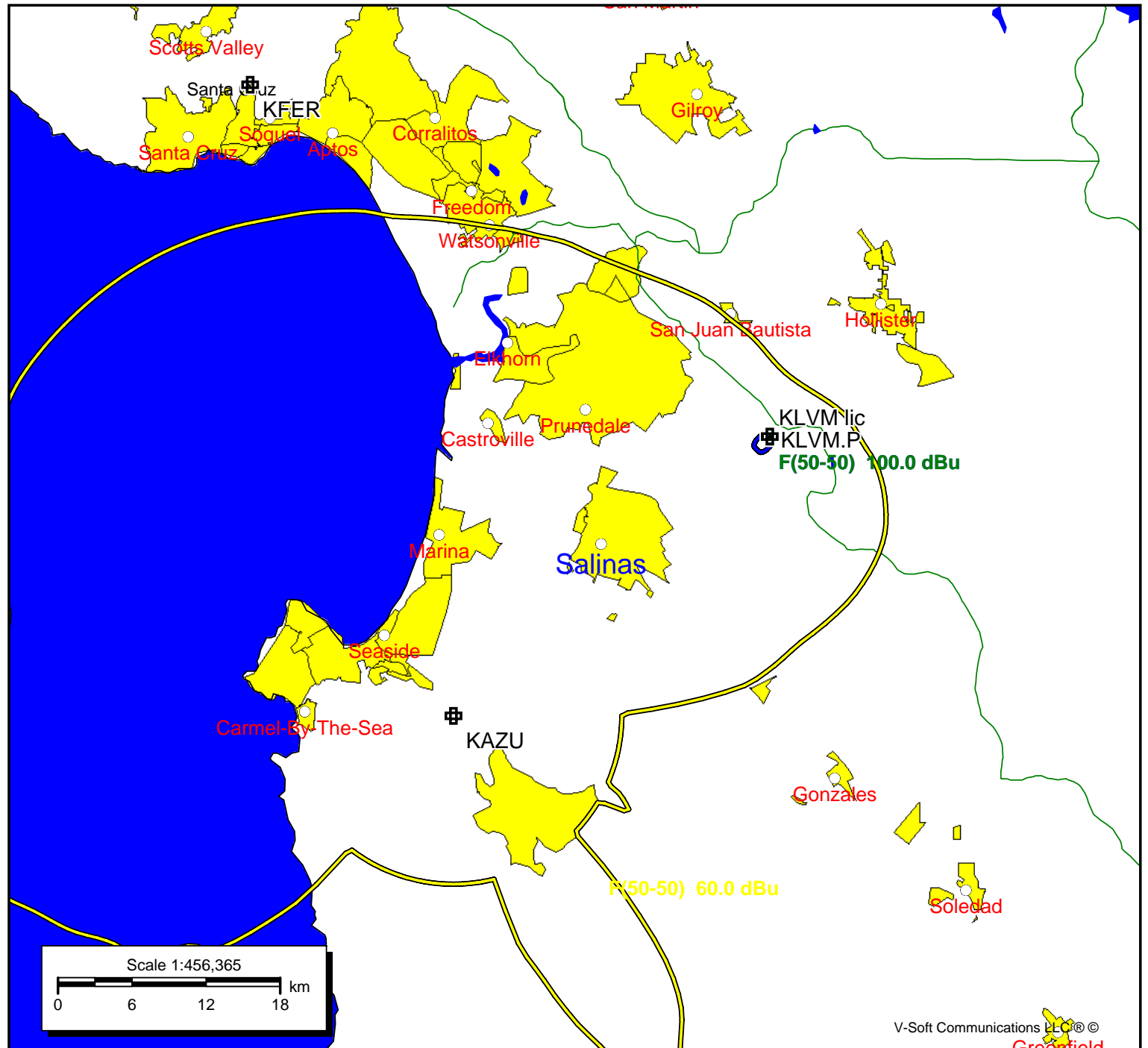


Exhibit 15-D3

Contour Parameters:

Type: FCC Contour

F(50-10) FS: 100.00 dBu [360 Radials]

Population Database: 2000 US Census (SF1)

Primary Terrain: V-Soft 30 Second US Database

Secondary Terrain: V-Soft 3 Second US Terrain

-----  
Transmitter Information:

Call Letters: KAZU

File Number: BLED20040105AAN

Latitude: 36-33-09 N

Longitude: 121-47-17 W

ERP: 3.40 kW

Channel: 212

Frequency: 90.3 MHz

AMSL Height: 394.0 m

Elevation: 363.0 m

Horiz. Antenna Pattern: Omni

Vert. Elevation Pattern: No  
-----

Total Population Within Contour: 907

Total Housing Units Within Contour: 352

Total Area Within Contour: 24.69 sq. km  
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# Exhibit 15-D3

## KLVM.P

Latitude: 36-45-22 N  
Longitude: 121-30-06 W  
ERP: 0.45 kW  
Channel: 209  
Frequency: 89.7 MHz  
AMSL Height: 1013.0 m  
Elevation: 935.0 m  
Horiz. Pattern: Directional

## KAZU

BLED20040105AAN  
Latitude: 36-33-09 N  
Longitude: 121-47-17 W  
ERP: 3.40 kW  
Channel: 212  
Frequency: 90.3 MHz  
AMSL Height: 394.0 m  
Elevation: 363.0 m  
Horiz. Pattern: Omni

- KLVM lic
- KLVM.P
- KFJC
- KFER
- KAZU
- KFRS

