

APPENDIX D-8:
GROUP DELTA CONSULTANTS, INC. RESPONSE TO
CITY OF LOS ANGELES REVIEW COMMENTS,
SUBSIDENCE EVALUATION REVIEW, PLAYA VISTA
DEVELOPMENT, CALIFORNIA, AUGUST 29, 2000



Certified MBE

Geotechnical Engineering

Topology

Hydrogeology

Coastal Engineering

Hydrology

Hydraulics

Environmental Engineering

August 29, 2000

Playa Capital LLC
12555 W. Jefferson Blvd., Suite 300
Los Angeles, California 90066

Attention: Mr. David Nelson

Subject: Response to City of Los Angeles Review Comments
Subsidence Evaluation Review
Playa Vista Development, California
City of Los Angeles Log No. 31309
GDC Project No. L-232

Dear Mr. Nelson:

GDC submitted a letter dated July 12, 2000, to provide our assessment of historical subsidence in the Playa Vista area. On July 20, 2000, the City of Los Angeles Department of Building and Safety provided comments and requested clarifications on our subsidence report. A copy of the City of Los Angeles comments is presented in Appendix A. This letter provides our response to the City of Los Angeles comments.

Additional Data on Subsidence

Psomas and Associates performed additional survey of bench marks as required in the City of Los Angeles comments at the request of Playa Vista. The results of this survey are shown in Table 1 and the locations of the bench marks are shown in Figure 1. This survey is referenced to a Bench Mark located outside the area of potential subsidence at the intersection of Sepulveda Blvd. and Berryman Avenue located east of 405 freeway (BM 17-0565, Figure 1). This table provides all available data in the project area as requested in the City's comments.

Based on the new data reference to a bench mark outside the area of potential subsidence, we have replotted the settlement of six points in the project area: Bench Marks C, H, I, J, PSO-1, and PSO-2 in Figures 3 through 8. These bench mark locations are shown in Figure 2.

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The data shown in Table 1 and Figures 3-8 indicates the following:

- For the six bench marks in the project area, the settlement (subsidence) during the 15 year period from 1985 to 2000, ranges between 0.72 inch and 1.4 inches with an average of 1.02 inches. The corresponding average settlement since 1974, a 26 year period, has been 1.67 inches. ^{0.66 ft} ^{0.12 feet}
- For the additional eight bench marks east of 405 freeway along Jefferson Blvd. near the project area, the settlement (subsidence) during the 15-year period from 1985 to 2000, ranges between 0.2 inch and 1.2 inches with an average of 0.72 inch. Note that the 9th point (the only other point on the East side of the freeway than the bench mark) has the maximum settlement of 2.06 inches. ^{0.14 ft}

Conclusions

Based on the survey data referenced to B.M. 17-05650 outside the area of potential subsidence, the project area has minor settlement about 1 inch during the past 15 years and 1.67 inches during the past 26 years. This settlement is general settlement over a distance of several miles and has had no adverse effect on individual structures. This confirms our conclusions in the previous letter that based on the minor changes in elevation (subsidence or heave) that might be occurring, we believe that the current recommendations for foundation systems and structural systems are appropriate and we do not recommend any changes to these recommendations.

The following Table, Figures, and Appendix are attached and complete this response to comments.

Table 1 Bench Mark Survey Data

Figure 1 Bench Mark Location Plan
Figure 2 Location of City of Los Angeles Bench Marks
Figure 3 Settlement Data Between 1970 and 2000, Location C
Figure 4 Settlement Data Between 1970 and 2000, Location H
Figure 5 Settlement Data Between 1970 and 2000, Location I
Figure 6 Settlement Data Between 1970 and 2000, Location J
Figure 7 Settlement Data Between 1970 and 2000, Location Pso-1
Figure 8 Settlement Data Between 1970 and 2000, Location Pso-2

Appendix A City of Los Angeles Review Comments Letter dated, July 20, 2000, Log No. 31309.



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If you have any questions pertaining to this response, please do not hesitate to contact Group Delta Consultants, Inc. at (310) 320-5100.

Yours truly,

GROUP DELTA CONSULTANTS, INC.

DRAFT

Kul Bhushan, Ph. D., G.E.
President



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