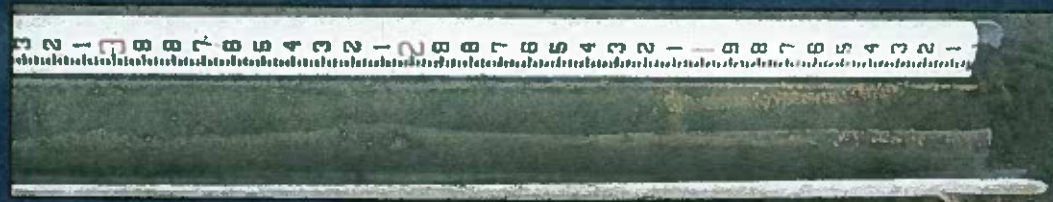


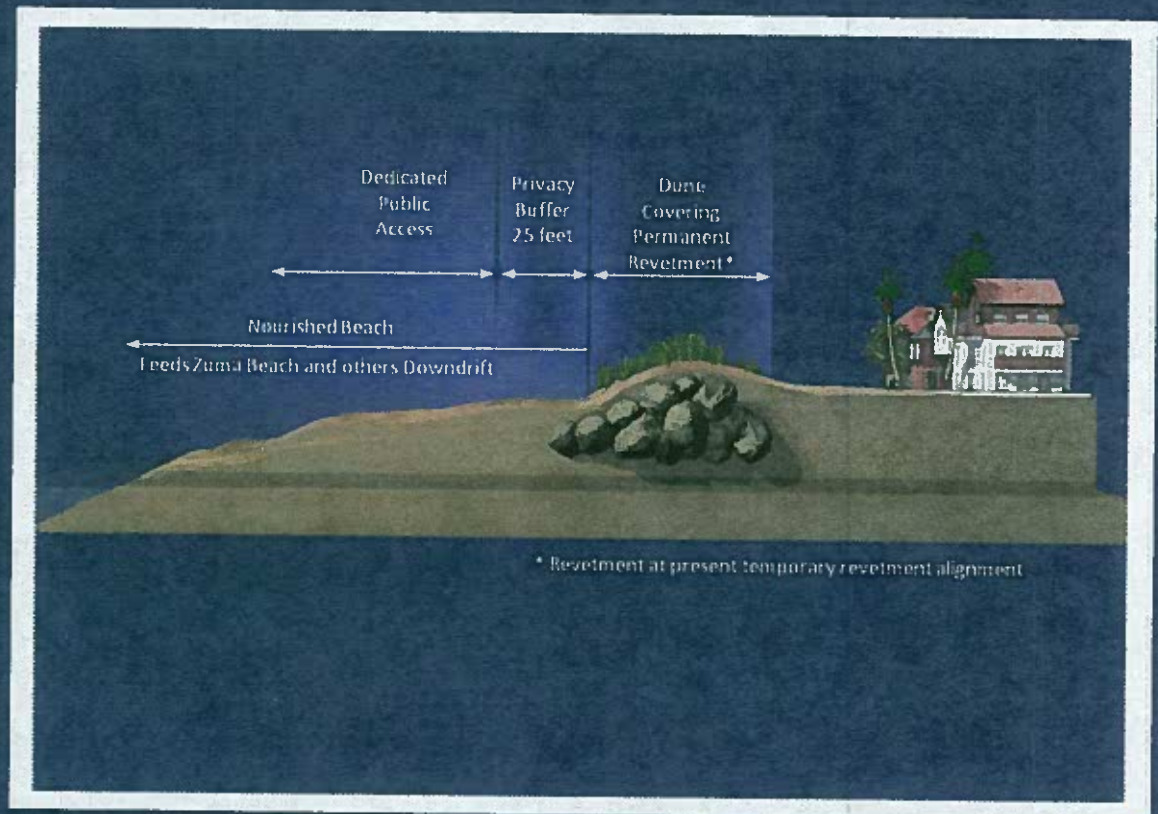
Broad Beach Restoration Project Second Addendum to the Final SAP



Dredged Material Management Team Meeting

Project Description

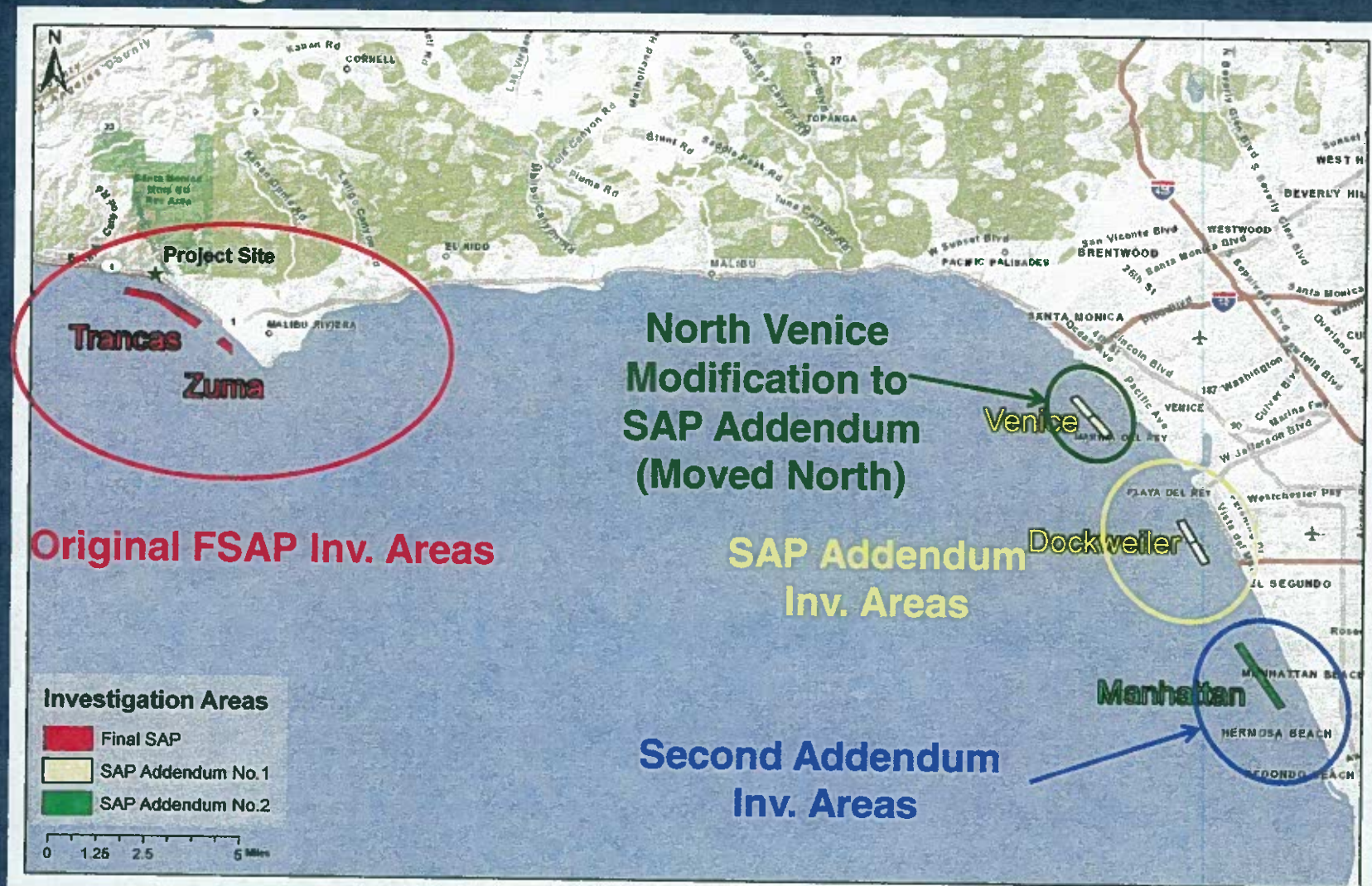
- Sand needed:
 - Beach nourishment
 - ~ 500,000 cy
 - Dune Restoration
 - ~ 100,000 cy



SAP Chronology

- Final SAP Report (April 2011)
- SAP Results Report (June 2011)
- Draft SAP Addendum Report (July 2011)
- SAP Addendum Results Report (November 2011)
- Modification to SAP Addendum (July 2012)
 - Relocation of North Venice (shift north)
- Draft SAP Addendum #2 Report (August 2012)

Draft SAP & SAP Addendum Investigation Areas



Offshore Borrow Areas (in consideration)

- Central Trancas – Dune Material – Already Characterized
- Dockweiler North – Already Characterized
 - Con: Within City of LA Offshore Grant Area
- Venice North – To Be Investigated Under SAP Addendum Modification
- Manhattan Beach – To Be Investigated Under this SAP
- Ventura Harbor – Already Characterized

Compability analysis to be provided in
Second Addendum Results Report

Venice - North (Modified)

BROAD BEACH

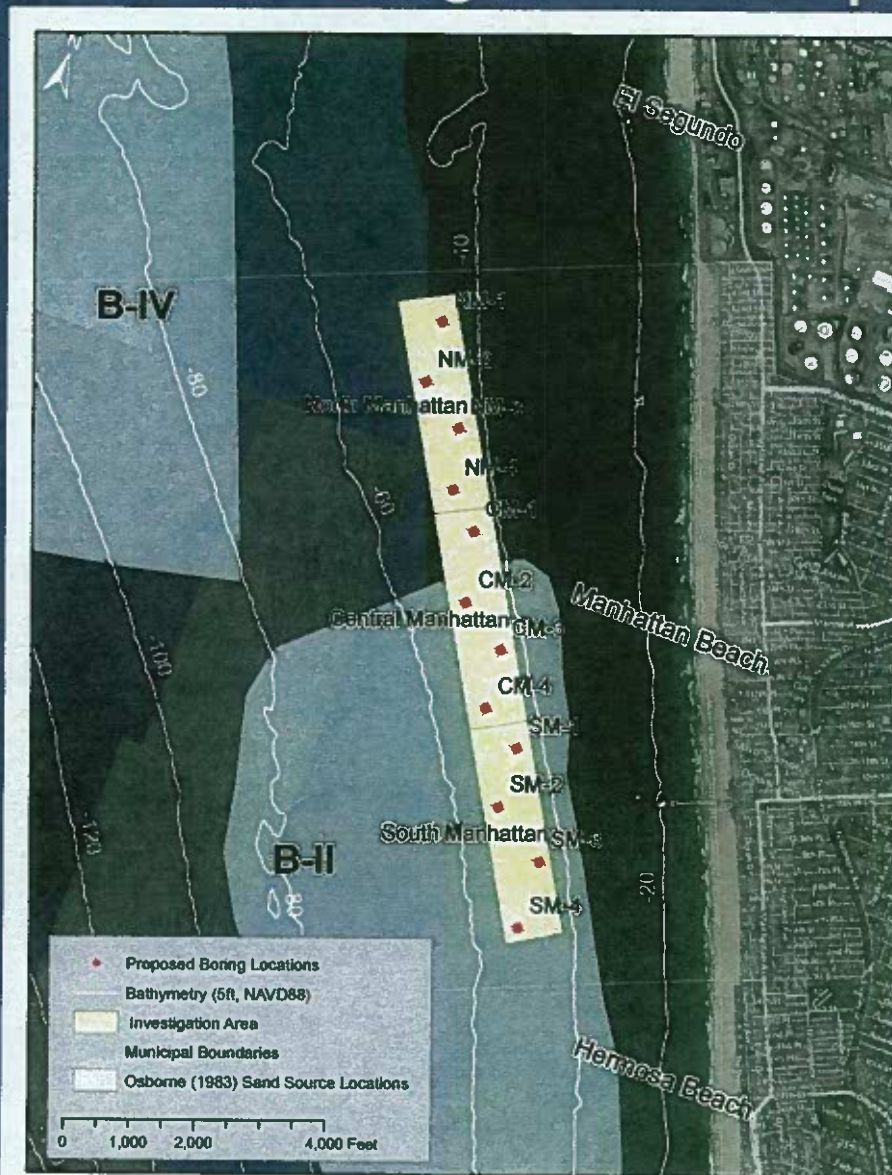
Approved Investigation Area per SAP Addend. Modification



Sample Type	Number
Vibracore Samples	4
Physical Samples	4
Bulk Chemistry Samples	1
Sample Depth	20' bgs (max)
Total Inv. Area (Acres)	69
Total Inv. Volume (MCY)	1.1

Manhattan Beach

Proposed Investigation Areas per Second Addendum



Sample Type	Number
Vibracore Samples	12
Physical Samples	12
Bulk Chemistry Samples	3
Sample Depth	20' bgs (max)
Total Inv. Area (Acres)	210
Total Inv. Volume (MCY)	3.3 (1.1 / area)

Schedule for Vibracoring at Manhattan and Venice Sites

- Work is tentatively scheduled to begin on August 20th, 2012.



BROAD BEACH

Thanks !



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