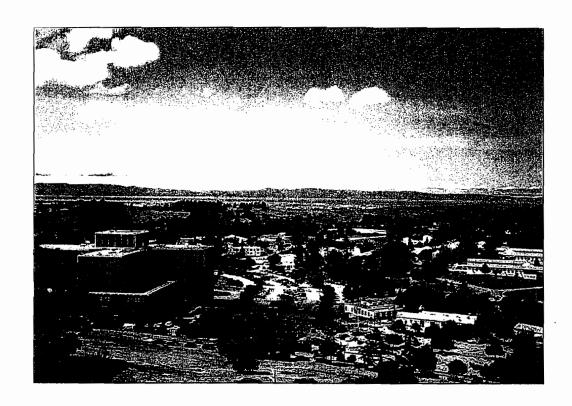
Final

Environmental Impact Statement/ Environmental Impact Report

for the Disposal and Reuse of Naval Medical Center Oakland

SCH #95103035



Volume I

April 1998

ENGINEERING FIELD ACTIVITY, WEST NAVAL FACILITIES ENGINEERING COMMAND and CITY OF OAKLAND, CALIFORNIA

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FINAL

ENVIRONMENTAL IMPACT STATEMENT (EIS)/ ENVIRONMENTAL IMPACT REPORT (EIR) FOR THE DISPOSAL AND REUSE OF NAVAL MEDICAL CENTER OAKLAND, CALIFORNIA

Lead Agency for the EIS:

U.S. Department of the Navy

Lead Agency for the EIR:

City of Oakland, California

Title of Proposed Action:

Disposal and Reuse of Naval Medical Center, Oakland, California

Affected Jurisdictions:

City of Oakland and Alameda County, California

Designation:

Final Environmental Impact Statement (EIS)/Environmental Impact Report (EIR)

State Clearinghouse #:

SCH# 95103035

ABSTRACT - This Final EIS/EIR includes the information and analysis contained in the Draft EIS/EIR circulated for public review and comment. It also includes responses to those comments and revisions made in response to those comments.

Pursuant to the Defense Base Closure and Realignment Act of 1990, (Part A of Title XXIX of Public Law 101-510) and the specific base closure decisions approved by President Clinton and accepted by Congress in September 1993, Naval Medical Center Oakland (NMCO) was closed on September 30, 1996. This joint EIS/EIR has been prepared in accordance with National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA) statutes and guidelines to analyze the potential environmental consequences from the proposed Navy disposal and local community reuse of NMCO. The NEPA federal action evaluated in this EIS/EIR is the disposal of federal surplus property, while the local CEQA project evaluated is the proposed reuse of the NMCO site, in accordance with the reuse alternatives described in the NMCO Final Reuse Plan, adopted by the Oakland Base Reuse Authority on June 10, 1996 and published in August 1996. The EIS/EIR evaluates four reuse alternatives: Maximum Capacity, Mixed Use Village, Single Use Campus, and Residential. In addition, the No Action Alternative is evaluated, which is the closure of NMCO with the property remaining in federal ownership. The NMCO Final Reuse Plan is evaluated as part of the Maximum Capacity Alternative, which is the preferred alternative. The EIS/EIR includes analyses of potential environmental impacts relating to land use, socioeconomics, public services, cultural resources, aesthetics and scenic resources, biological resources, water resources, geology and soils, traffic and circulation, air quality, noise, utilities, and hazardous materials and wastes.

CEQA project analysis also includes anticipated discretionary permits that may be required to implement the reuse plan. Such discretionary permits may include a general plan amendment, a specific plan, redevelopment plan, development agreements, a rezoning to either existing zones contained in the City of Oakland's Zoning Regulations or the creation of new zones(s) and/or conditional use permits, or other zoning permit approvals as may be required. Further discretionary permits may include but are not necessarily limited to subdivision applications, tree removal permits, and grading permits.

Potential beneficial impacts associated with implementation of reuse compared to the No Action Alternative include sustained employment opportunities, and the creation of additional recreational facilities and open space areas. The only significant and not mitigable impacts are due to traffic-related ozone precursor and PM₁₀ emissions generated in all of the reuse alternatives. Potentially significant and mitigable adverse environmental impacts include impacts to land use, schools, police services, aesthetics and scenic resources, sensitive riparian habitat, public exposure to earthquakes and slope stability, traffic and circulation, air quality, other than traffic-related air emissions, noise, potable water supply, and cumulative impacts to schools, traffic and circulation, and landfill capacity. Mitigation measures identified in the EIS/EIR reduce all of these environmental impacts to acceptable levels. Remediation of contaminated areas will continue to be the responsibility of the Navy.

For Further Information:

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DEPARTMENT OF THE NAVY

ENGINEERING FIELD ACTIVITY, WEST
NAVAL FACILITIES ENGINEERING COMMAND
900 COMMODORE DRIVE
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IN REPLY REFER TO:

5090.1B 7032GM/EP8-1464 27 April 1998

SUBJECT:

NOTICE OF AVAILABILITY OF THE JOINT FINAL ENVRONMENTAL IMPACT STATEMENT/ENVIRONMENTAL IMPACT REPORT (EIS/EIR) FOR THE DISPOSAL AND REUSE OF NAVAL MEDICAL CENTER OAKLAND, CALIFORNIA

Naval Medical Center Oakland (NMCO) closed on September 30, 1996 pursuant to the Defense Base Closure and Realignment Act of 1990, Pub. L. 101-510, Title XXIX, 10 U.S.C. Sec. 2687 note, and specific base closure decisions approved by President Clinton and accepted by the 103rd Congress in October 1993.

As part of this process, the Department of the Navy and the City of Oakland prepared a joint Environmental Impact Statement/Environmental Impact Report (EIS/EIR) to evaluate the potential for significant environmental effects of Navy disposal and community reuse of the Naval Medical Center property located in Oakland, California. The Final EIS/EIR has been prepared in accordance with Section 102 (2)(c) of the National Environmental Policy Act (NEPA) of 1969, as implemented by the Council on Environmental Quality regulations, 40 C.F.R. Parts 1500-1508, and the California Environmental Quality Act (CEQA), Cal. Pub. Res. Code Sec. 21000, et seq., as amended.

The Navy's NEPA action evaluated in the Final EIS/EIR is the disposal of surplus Federal property at NMCO. The local CEQA project evaluated is the reuse of the property in accordance with the Oakland Base Reuse Authority's Final Reuse Plan for NMCO, published in August 1996. The Final Reuse Plan is evaluated as part of the Maximum Capacity Alternative, which is the preferred alternative. The Maximum Capacity Alternative proposes development of residential mix of single-family and multi-family uses, an executive 9-hole golf course with driving range, and mixed uses such as businesses, community and commercial retail. Active recreation and open space are also included.

The Final EIS/EIR also evaluates three additional reuse scenarios and a No Action alternative. The Mixed Use Village Alternative includes residences, businesses, research and development and office facilities, community retail and cultural facilities, and active recreation and open space. Under the Single Use Alternative, NMCO would be occupied by one educational institution or corporate user, neighborhood retail uses, and active recreation and open space. The primary use under the Residential Alternative would be single family residences having a character and identity similar to the surrounding residential development, with some neighborhood retail, active recreation areas, and open space. Under the No Action alternative, the property would remain in Federal ownership in a caretaker status.

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1330 BROADWAY, 2ND FLOOR • OAKLAND, CALIFORNIA 94612

Community and Economic Development Agency Zoning

(510) 238-3912 FAX (510) 238-4730 TDD (510) 839-6451

NOTICE OF MEETING

Notice is hereby given that the Oakland City Planning Commission will consider certification of the Final Environmental Impact Statement and Environmental Impact Report for the disposal and reuse of the former Naval Medical Center Oakland (Oak Knoll Medical Facility) located on a 183 acre site south of Keller Avenue and east of Mountain Boulevard in the R-30 One Family Residential Zone. (Planning Area: South Hills) The applicants are the U.S. Navy and the City of Oakland. (Case File No. ERS96-32)

The item will be considered on Wednesday, June 17, 1998, at a meeting beginning at 6:30 p.m., Hearing Room 1, City Hall, One City Hall Plaza, Oakland, California. All interested parties are invited to attend.

For further information, contact Anu Raud, Zoning Division, Community and Economic Development Agency at (510) 238-6346.

Charles S. Bryant

Secretary

Charles S. B.

City Planning Commission



TABLE OF CONTENTS

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TABLE OF CONTENTS

			Page No.
EX	ECU	TIVE SUMMARY	ES-1
1.	PUF	RPOSE OF AND NEED FOR ACTION	1-1
	1.1	PURPOSE AND NEED	1-1
	1.2	LOCATION AND HISTORY	1-2
		1.2.1 Location	1-2
		1.2.2 History	1-5
	1.3	DISPOSAL OF NAVAL MEDICAL CENTER OAKLAND	1-5
		1.3.1 Predisposal Actions	1-7
		1.3.2 Disposal Process	1-8
	1.4	USE OF AN INTEGRATED DOCUMENT	1-11
		1.4.1 Document Purpose	1-11
		1.4.2 Document Organization	1-13
	1.5	RELATED STUDIES	1-14
		1.5.1 Related NEPA/CEQA Documentation	1-14
		1.5.2 Environmental Restoration Studies	1-15
	1.6	PUBLIC INVOLVEMENT PROCESS	1-15
		1.6.1 Scoping Process	1-16
		1.6.2 Summary of Scoping Issues	1-17
		1.6.3 Public Review	1-20
2.	ALT	TERNATIVES, INCLUDING THE PROPOSED ACTION	2-1
	2.1	DEVELOPMENT OF ALTERNATIVES	2-1
	2.1	2.1.1 OBRA Reuse Planning Process	2-1
		2.1.2 Selection of Alternatives for Environmental Analysis	2-3
	2.2	COMMON ELEMENTS OF ALTERNATIVES	2-5
	2.3	DESCRIPTION OF ALTERNATIVES	2-9
	2.5	2.3.1 Navy Disposal	2-9
		2.3.2 Maximum Capacity Alternative—Preferred Alternative (includes NMCO	
		Reuse Plan)	2-12
		2.3.3 Mixed Use Village Alternative	2-16
		2.3.4 Single Use Campus Alternative	2-20
		2.3.5 Residential Alternative	2-23
		2.3.6 No Action Alternative	
	2.4	COMPARISON OF ALTERNATIVES	2-27
	2.5		,
		ALTERNATIVE	2-56
		2.5.1 Identification Process	2-56
		2.5.2 Determination of Environmentally Preferable and Environmentally	. 2 30
		Superior Alternative	2-57
	2.6	ALTERNATIVES ELIMINATED FROM DETAILED REVIEW	2-60
3.	-	FECTED ENVIRONMENT	3-1
٥.			J-1
	3.1	LAND USE	3-1
		3.1.1 Naval Medical Center Land Uses	3-2
		3.1.2 Surrounding Land Uses	3-4
		3.1.3 Regulatory Considerations	3-6
	3.2	SOCIOECONOMICS	3-12
		3.2.1 Regional Employment	3-12

			Page No
	3.2.2	Population and Housing	3-17
	3.2.3	Schools	3-19
	3.2.4	Recreation	3-20
	3.2.5	Environmental Justice	3-21
3.3		IC SERVICES	3-24
J.J	3.3.1	Police Services	3-24
	3.3.2	Fire Services	3-27
	3.3.3	Emergency Ambulance Services	3-29
	3.3.4	Regulatory Considerations	3-29
3.4		URAL RESOURCES	3-30
J.4	3.4.1	Previous Cultural Resources Studies	3-30
	3.4.2	Prehistoric Resources	3-30
	3.4.3	Native American Resources	3-31
	3.4.4	Historic Resources	3-32
	3.4.5	World War II and Cold War Era Resources	3-35
	3.4.6	Regulatory Considerations	3-35
3.5		HETICS AND SCENIC RESOURCES	3-37
3.5	3.5.1	Visual Character of the Project Area	3-37
	3.5.2	Views and Visibility of the Project Area	3-41
	3.5.3	Regulatory Considerations	3-43
3.6		OGICAL RESOURCES	3-46
5.0	3.6.1	Methods	3-46
	3.6.2	Vegetation Communities	3-47
	3.6.3	Wildlife	3-50
	3.6.4	Sensitive Species	3-50
	3.6.5	Sensitive Habitats	3-55
	3.6.6	Applicable Regulations	3-55
3.7		ER RESOURCES	3-58
J.,	3.7.1	Surface Water	3-58
	3.7.2	Ground Water	3-60
	3.7.3	Water Supply and Demand	3-61
	3.7.4	Flood Hazards	3-61
	3.7.5	Regulatory Considerations	3-62
3.8		LOGY AND SOILS	3-64
• • •	3.8.1	Regional and Site Geology	.3-64
	3.8.2		
	3.8.3	Local Seismicity	3-69
	3.8.4	Soils	3-72
	3.8.5	Slope Stability	3-72
	3.8.6	Mineral Resources	3-76
	3.8.7	Regulatory Considerations	3-76
3.9		FFIC AND CIRCULATION	3-78
J.,	3.9.1	Regional and Local Access Routes	3-78
	3.9.2	Preclosure Traffic Conditions	3-83
	3.9.3	Naval Medical Center Circulation System	3-88
	3.9.4	Naval Medical Center Trip Generation	3-90
	3.9.5	Existing Parking Facilities	3-90
	3.9.6	Transit System	3-90
	2.7.0		



			. •
		3.9.7	Bicycle and Pedestrian System
		3.9.8	Aviation System
		3.9.9	Transportation Plans and Regulations
	3.10	AIR OU	JALITY
		3.10.1	Climate and Meteorology
		3.10.2	Ambient Air Quality Standards
		3.10.3	Existing Air Quality Conditions
		3.10.4	Air Quality Planning.
		3.10.5	Regulatory Considerations
	3 11		Toguttor) Considerations
	J.11	3.11.1	Existing Noise Conditions
		3.11.2	Noise Level Guidelines
	3 12		TES
	J.12	3.12.1	Water Distribution System
		3.12.2	Sanitary Sewer System
		3.12.2	Storm Drainage
		3.12.3	Electrical System
		3.12.4	Natural Gas
		3.12.5	Telephone System
		3.12.7	Solid Waste Management
		3.12.7	Potable Water Supply
		3.12.8	
	2 12		Regulatory Considerations
	3.13		
		3.13.1 3.13.2	Hazardous Materials Management
			Hazardous Waste Management
		3.13.3	Installation Restoration Program
		3.13.4	Asbestos
		3.13.5	Polychlorinated Biphenyls
		3.13.6	Storage Tanks and Oil/Water Separators
		3.13.7	Pesticides
		3.13.8	Lead Based Paint
,		3.13.9	Medical Materials and Waste
			Radon
		3.13.11	Regulatory Considerations
	EN	VIRON	MENTAL CONSEQUENCES
	4.1	LAND	USE
		4.1.1	Significance Criteria
		4.1.2	Navy Disposal
		4.1.3	Maximum Capacity Alternative
		4.1.4	Mixed Use Village Alternative
		4.1.5	Single Use Campus Alternative
		4.1.6	Residential Alternative
		4.1.7	No Action Alternative
	4.2		ECONOMICS
	4.2	4.2.1	
			Significance Criteria
		4.2.2	Navy Disposal
		4.2.3	Maximum Capacity Alternative

			Page No.
	4.2.4	Mixed Use Village Alternative	4-18
	4.2.5	Single Use Campus Alternative	4-21
	4.2.6	Residential Alternative	4-24
	4.2.7	No Action Alternative	4-26
4.3	PUBL!	IC SERVICES	4-28
	4.3.1	Significance Criteria	4-28
	4.3.2	Navy Disposal	4-28
	4.3.3	Maximum Capacity Alternative	4-29
	4.3.4	Mixed Use Village Alternative	4-30
	4.3.5	Single Use Campus Alternative	4-32
	4.3.6	Residential Alternative	4-34
	4.3.7	No Action Alternative	4-35
4.4		URAL RESOURCES	4-37
	4.4.1	Significance Criteria	4-37
	4.4.2	Navy Disposal	4-39
	4.4.3	Maximum Capacity Alternative	4-39
	4.4.4	Mixed Use Village Alternative	4-39
	4.4.5	Single Use Campus Alternative	4-39
	4.4.6	Residential Alternative	4-40
	4.4.7	No Action Alternative	4-40
4.5		HETICS AND SCENIC RESOURCES	4-41
7.5	4.5.1	Significance Criteria	4-41
	4.5.2	Navy Disposal	
	4.5.3	Maximum Capacity Alternative	4-42
	4.5.4	Mixed Use Village Alternative	4-46
	4.5.5	Single Use Campus Alternative	4-49
	4.5.6	Residential Alternative	4-51
	4.5.7	No Action Alternative	4-55
4.6		OGICAL RESOURCES	4-56
1.0	4.6.1	Significance Criteria	4-56
	4.6.2	Navy Disposal	4-57
	4.6.3	Maximum Capacity Alternative	4-58
	4.6.4	Mixed Use Village Alternative	4-59
	4.6.5	Single Use Campus Alternative	4-61
	4.6.6	Residential Alternative	4-62
	4.6.7	No Action Alternative	4-64
	4.6.8	Applicable Laws, Regulations, and Standards	4-64
4.7		ER RESOURCES	4-67
4./	4.7.1	Significance Criteria	4-67
			4-68
	4.7.2	Navy Disposal	
	4.7.3	Maximum Capacity Alternative	4-68
	4.7.4	Mixed Use Village Alternative	4-70
	4.7.5	Single Use Campus Alternative	4-72
	4.7.6	Residential Alternative	4-73
	4.7.7	No Action Alternative	4-75
4.8		LOGY AND SOILS	4-76
	4.8.1	Significance Criteria	4-76
	4.8.2	Navy Disposal	4-77



			rage No.
	4.8.3	Maximum Capacity Alternative	4-77
	4.8.4	Mixed Use Village Alternative	4-79
	4.8.5	Single Use Campus Alternative	4-80
	4.8.6	Residential Alternative	4-82
	4.8.7	No Action Alternative	4-83
4.9	TRAFF	TIC AND CIRCULATION	4-84
***	4.9.1	Significance Criteria	4-84
	4.9.2	Assumptions and Methodology	4-84
	4.9.3	Navy Disposal	4-89
	4.9.4	Impacts Resulting from the Reuse Alternatives and from the No Action	, 0,
		Alternative	4-89
	4.9.5	Maximum Capacity Alternative	4-90
	4.9.6	Mixed Use Village Alternative	
	4.9.7	Single Use Campus Alternative	4-98
	4.9.8	Residential Alternative	4-101
	4.9.9	No Action Alternative	4-108
4.10		UALITY	4-110
4.10	4.10.1	Significance Criteria	4-110
	4.10.1	Navy Disposal	4-110
	4.10.2	Maximum Capacity Alternative	4-111
	4.10.3	Mixed Use Village Alternative	4-116
	4.10.4	Single Use Campus Alternative	4-118
	4.10.5	Residential Alternative Significant Impacts	4-120
	4.10.7	No Action Alternative	4-122
1 11		No Action Attendative	4-124
4.11	4.11.1	Significance Criteria	4-124
	4.11.2	Navy Disposal	4-125
	4.11.3	Maximum Capacity Alternative	4-126
	4.11.3 4.11.4	Mixed Use Village Alternative	
1	4.11.5	Single Use Campus Alternative	4-129
	4.11.6	Residential Alternative	4-130
	4.11.7	No Action Alternative	4-131
A 12		TIES	4-132
4.12	4.12.1	Significance Criteria	4-132
	4.12.1		4-133
	4.12.3	Navy Disposal	4-133
	4.12.3	Mixed Use Village Alternative	4-137
			4-139
	4.12.5	Single Use Campus Alternative	4-139
	4.12.6		
4 1 7	4.12.7	No Action Alternative	4-145 4-146
4.13		RDOUS MATERIALS AND WASTE	
	4.13.1	Significance Criteria	4-147
	4.13.2	Navy Disposal	4-148
	4.13.3	Maximum Capacity Alternative	4-148
	4.13.4	Mixed Use Village Alternative	4-151
	4.13.5	Single Use Campus Alternative	4-152
	4.13.6	Residential Alternative	4-154
	4.13.7	No Action Alternative	4-155

		Page No.				
5.	OTHER CONSIDERATIONS REQUIRED BY NEPA AND CEQA	5-1				
	5.1 SIGNIFICANT UNAVOIDABLE ADVERSE IMPACTS	5-1				
	5.2 SHORT-TERM USES AND LONG-TERM PRODUCTIVITY	5-1				
	5.3 IRREVERSIBLE/IRRETRIEVABLE COMMITMENT OF RESOURCES	. 5-2				
	5.4 GROWTH- INDUCING IMPACTS	5-2				
	5.5 CUMULATIVE IMPACTS	5-3				
	5.5.1 Assumptions and Methodology	5-9				
	5.5.2 Navy Disposal	5-10				
	5.5.3 No Action Alternative	5-10				
	5.5.4 Maximum Capacity Alternative	5-10				
	5.5.5 Mixed Use Village Alternative	5-13				
	5.5.6 Single Use Campus Alternative	5-15				
	5.5.7 Residential Alternative (Option 1)	5-17				
	5.5.8 Residential Alternative (Option 2)	5-19				
	5.6 ENVIRONMENTAL JUSTICE	5-26 5-28				
	5.6.1 City of Oakland Minority and Low-Income Characteristics	5-28				
٠.	Communities And Low-Income Communities	5-29				
	5,7 EFFECTS FOUND NOT TO BE SIGNIFICANT	5-30				
		6-1				
6.	CONSULTATION AND COORDINATION	6-1				
	6.1 AGENCY AND REPRESENTATIVES CONTACTED	6-1				
	6.2 SCOPING	6-3				
7.	REFERENCES	7-1				
7.1 BIBLIOGRAPHY						
	7.2 PERSONAL COMMUNICATIONS	7-14				
^	•					
8.	LIST OF PREPARERS	8-1				
9.	GLOSSARY AND INDEX	9-1				
	9.1 GLOSSARY OF TERMS	9-1				
	9.2 INDEX	9-10				
10	DISTRIBUTION LIST	10-1				
10.	DISTRIBUTION LIST	10-1				
	•					
Res	ponse to Comments					
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—₽	-Response to Comments on the Draft Environmental Impact Statement/Environmental Impact Report					

- -Response to Comments on California Environmental Quality Act Recirculation of Significant Information for Fine Particulate Matter (PM₁₀)
- —Response to Comments on California Environmental Quality Act Recirculation of Significant Information for Fine Particulate Matter (PM_{10}) and Ozone Precursors



VOLUME II

Appendix B Public Involvement
Appendix B Sensitive Species Survey

Appendix C Photographs
Appendix D Utility Figures
Appendix E Tree Study

Appendix F Alameda Whipsnake Survey Report

Appendix G Alameda County CMA Countywide Transportation Demand Model Traffic Volume Analysis

LIST OF FIGURES

	·	Page No.
Figure ES-1	Regional Location	ES-1
Figure ES-2	Primary Elements of the Military Base Disposal Process	ES-5
Figure 1-1	Regional Site Location Map	1-3
Figure 1-2	Site Location	1-4
Figure 1-3	Elements of Typical Military Base Closure & Disposal Process	1-6
Figure 2-1	Neighborhoods Near the NMCO	2-4
Figure 2-2	Development Areas	2-7
Figure 2-3	Reuse of Existing Buildings	2-8
Figure 2-4	Comparison of Reuse Alternatives	2-11
Figure 2-5	Maximum Capacity Alternative	2-14
Figure 2-6	Mixed Use Village Alternative	. 2-17
Figure 2-7	Single Use Campus Alternative	2-21
Figure 2-8	Residential-Alternative	2-25
Figure 3-1	Existing Buildings.	3-3
Figure 3-2	Recreation and Open Space	3-5
Figure 3-3	Open Space and Parks Near the Medical Center	3-7
Figure 3-4	Zoning	3-9
Figure 3-5	Census Tracts within the Oak Knoll Study Area	3-13
Figure 3-6	Job Composition in Alameda County (ROI) (1980 & 1995)	3-15
Figure 3-7	ROI Employment Growth (1990-2020)	3-16
Figure 3-8	Public Services Serving the Project Area	3-26
Figure 3-9	Aesthetic Features in and around the NMCO Site	3-39
Figure 3-10	Vegetation Communities	3-48
Figure 3-11	Area Surveyed for the Alameda Whipsnake	3-54
Figure 3-12	Surface Water	3-59
Figure 3-13	Site Geology	3-66
Figure 3-14	Major Regional Faults	3-68
Figure 3-15	Buildings Evaluated for Seismic Upgrade to Meet Life/Safety Requirements	3-71
Figure 3-16	Site Soil Types	3-73
Figure 3-17	Hillslopes and Existing Landslide Deposits	3-75
Figure 3-18	Regional Access	3-80
Figure 3-19	Local Access	3-81
Figure 3-20	Preclosure AM Peak Hour Traffic Volumes	3-84
Figure 3-21	Preclosure PM Peak Hour Traffic Volumes	3-85
Figure 3-22	Existing Roads	3-89
Figure 3-23	Underground and Aboveground Storage Tanks	3-121
Eiguro 5 1	Sites Paguiring Cumulative Impact Analysis	5.4



LIST OF TABLES

Table ES-1 Summary of Impacts and Significance FS-12 Table 2-1 Summary of Community Reuse Alternatives 2-10 Table 2-2 Maximum Capacity Alternative Land Use 2-15 Table 2-2 Mixed Use Village Alternative Land Use 2-18 Table 2-4 Single Use Campus Alternative Land Use 2-22 Table 2-5 Residential Alternative Land Use 2-22 Table 2-5 Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives 2-28 Table 3-7 Identification of CEQA Environmentally Preferable and Superior Alternative 2-28 Table 3-1 1980 and 1995 Labor Force and Employment Data for the ROI. 3-14 Table 3-3 Table 3-1 Table 3-3 Table 3-1 T			Page No.
Table 2-1 Summary of Community Reuse Alternatives	Table FS-1	Summary of Impacts and Significance	ES-12
Table 2-2Maximum Capacity Alternative Land Use		Summary of Community Reuse Alternatives	
Table 2-3 Mixed Use Village Alternative Land Use 2-18 Table 2-4 Single Use Campus Alternative Land Use 2-22 Table 2-5 Residential Alternative Land Use 2-24 Table 2-6 Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives 2-28 Table 2-7 Identification of CEQA Environmentally Preferable and Superior Alternative 2-58 Table 3-1 1980 and 1995 Labor Force and Employment Data for the ROI 3-14 Table 3-2 Historical Employment Composition for the ROI 3-14 Table 3-3 ROI Employment Projections, 1990-2020 3-16 Table 3-4 Historical and Projected Population, 1980-2020 3-18 Table 3-5 Housing Totals in Oakland and Oak Knoll Area 3-18 Table 3-6 Characteristics of Households, 1980-2020 3-19 Table 3-7 1994 Oakland Unified School District Enrollment 3-20 Table 3-8 Oak Knoll Study Area Neighborhood School 1994 Enrollment 3-22 Table 3-10 Oak Knoll Study Area Poverty Status, By Census Tract 3-23 Table 3-11 Emergency Call Priority System and Average Dispatch Times for Oakland Police			
Table 2-4 Single Use Campus Alternative Land Use 2-22 Table 2-5 Residential Alternative Land Use 2-24 Table 2-5 Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives 2-28 Table 2-7 Identification of CEQA Environmentally Preferable and Superior Alternative 2-28 Table 3-1 If 1980 and 1995 Labor Force and Employment Data for the ROI 3-14 Table 3-2 Historical Employment Composition for the ROI 3-14 Table 3-3 ROI Employment Projections, 1990-2020 3-16 Table 3-4 Historical and Projected Population, 1980-2020 3-18 Table 3-5 Housing Totals in Oakland and Oak Knoll Area 3-18 Table 3-6 Characteristics of Households, 1980-2020 3-19 Table 3-7 1994 Oakland Unified School District Enrollment 3-20 Table 3-9 1990 Ethnic Composition and Poverty Status 3-22 Table 3-9 1990 Ethnic Composition and Poverty Status 3-22 Table 3-10 Cak Knoll Study Area Neighborhood School 1994 Enrollment 3-22 Table 3-10 Finergency Call Priority System and Average Dispatch Times for Oakland Police Department 3-25 Table 3-11 Emergency Call Priority System and Average Dispatch Times for Oakland Police Department 3-25 Table 3-12 Police Beat Statistics for Area Surrounding NMCO 3-27 Table 3-13 Endangered, Threatened, and Candidate Species in the Vicinity of NMCO 3-27 Table 3-15 Properties of Soils at NMCO 3-27 Table 3-17 Prefeosure Naval Medical Center Daily Traffic Counts 3-28 Table 3-19 Preclosure Intersection Operations 3-29 Table 3-29 Existing Transit Ridership During Peak Periods 3-29 Table 3-21 Total Existing Transit Ridership and Route Capacity 3-29 Table 3-21 Summary of Recent Air Quality Monitoring Data for the Oakland Area 3-98 Table 3-24 Underground Storage Tank (UST) Inventory 3-12 Table 4-1 Summary of Land Uses and Employment Generation by Alternative 4-12 Table 4-2 Summary of Land Uses and Employment Generation by Alternative 4-14 Table 4-4 Summary of Land Uses and Employment Generation by Alternative 4-14		• •	
Table 2-5 Table 2-6 Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives			
Table 2-6 Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives			
Proposed Action and Reuse Alternatives 2-28 Table 2-7 Identification of CEQA Environmentally Preferable and Superior Alternative 2-58 Table 3-1 1980 and 1995 Labor Force and Employment Data for the ROI 3-14 Table 3-2 Historical Employment Composition for the ROI 3-14 Table 3-3 ROI Employment Projections, 1990-2020 3-16 Table 3-4 Historical and Projected Population, 1980-2020 3-16 Table 3-5 Housing Totals in Oakland and Oak Knoll Area 3-18 Table 3-6 Characteristics of Households, 1980-2020 3-19 Table 3-7 1994 Oakland Unified School District Enrollment 3-20 Table 3-8 Oak Knoll Study Area Neighborhood School 1994 Enrollment 3-20 Table 3-9 1990 Ethnic Composition and Poverty Status 3-22 Table 3-10 Oak Knoll Study Area Poverty Status, By Census Tract. 3-23 Table 3-11 Emergency Call Priority System and Average Dispatch Times for Oakland Police Department 3-25 Table 3-12 Police Beat Statistics for Area Surrounding NMCO 3-27 Table 3-13 Endangered, Threatened, and Candidate Species in the Vicinity of NMCO 3-27 Table 3-16 Traffic Level of Service Definitions for Signalized and Unsignalized Intersections 3-79 Table 3-16 Traffic Level of Service Definitions for Signalized and Unsignalized Intersections 3-79 Table 3-19 Inventory of Existing On-site Parking, NMCO 3-91 Table 3-19 Inventory of Existing On-site Parking, NMCO 3-91 Table 3-20 Existing Transit Ridership During Peak Periods 3-92 Table 3-23 Summary of Recent Air Quality Monitoring Data for the Oakland Area 3-98 Table 3-24 Underground Storage Tank (UST) Inventory 3-120 Table 4-1 Summary of Land Uses and Employment Generation by Alternative 4-12 Table 4-2 Summary of Land Uses and Employment Generation by Alternative 4-12 Table 4-3 Summary of Focioeconomic Impact Determinations 4-16 Table 4-4 Hugact on School District Enrollments 4-16			
Table 2-7 Identification of CEQA Environmentally Preferable and Superior Alternative 2-58 Table 3-1 1980 and 1995 Labor Force and Employment Data for the ROI. 3-14 Table 3-2 Historical Employment Composition for the ROI. 3-14 Table 3-3 ROI Employment Projections, 1990-2020. 3-16 Table 3-4 Historical and Projected Population, 1980-2020. 3-18 Table 3-5 Housing Totals in Oakland and Oak Knoll Area. 3-18 Table 3-6 Characteristics of Households, 1980-2020. 3-19 Table 3-7 1994 Oakland Unified School District Enrollment 3-20 Table 3-8 Oak Knoll Study Area Neighborhood School 1994 Enrollment 3-20 Table 3-9 1990 Ethnic Composition and Poverty Status. 3-22 Table 3-10 Oak Knoll Study Area Poverty Status, By Census Tract. 3-23 Table 3-11 Emergency Call Priority System and Average Dispatch Times for Oakland Police Department 3-25 Table 3-12 Police Beat Statistics for Area Surrounding NMCO 3-27 Table 3-13 Endangered, Threatened, and Candidate Species in the Vicinity of NMCO¹ 3-51 Table 3-16 Other Sensitive Species in the Vicinity of NMCO¹ 3-52 Table 3-16 Traffic Level of Service Definitions for Signalized and Unsignalized Intersections 3-79 Table 3-19 Processure Intersection Operations 3-87 Table 3-19 Inventory of Existing On-site Parking, NMCO 3-91 Table 3-10 Total Existing Transit Ridership During Peak Periods 3-92 Table 3-20 Existing Transit Ridership During Peak Periods 3-92 Table 3-23 Summary of Recent Air Quality Monitoring Data for the Oakland Area 3-98 Table 3-24 Underground Storage Tank (UST) Inventory 3-120 Table 4-1 Summary of Land Uses and Employment Generation by Alternative 4-12 Table 4-3 Summary of Land Uses and Employment Generation by Alternative 4-12 Table 4-3 Summary of Land Uses and Employment Generation by Alternative 4-14 Table 4-5 Analysis of Population Impact Determinations 4-16	Table, 2 c		2-28
Table 3-1 1980 and 1995 Labor Force and Employment Data for the ROI 3-14 Table 3-2 Historical Employment Composition for the ROI 3-14 Table 3-3 ROI Employment Projections, 1990-2020 3-16 Table 3-4 Historical and Projected Population, 1980-2020 3-18 Table 3-5 Housing Totals in Oakland and Oak Knoll Area 3-18 Table 3-5 Characteristics of Households, 1980-2020 3-18 Table 3-6 Characteristics of Households, 1980-2020 3-19 Table 3-7 1994 Oakland Unified School District Enrollment 3-20 Table 3-8 Oak Knoll Study Area Neighborhood School 1994 Enrollment 3-20 Table 3-9 1990 Ethnic Composition and Poverty Status 3-22 Table 3-10 Oak Knoll Study Area Poverty Status, By Census Tract. 3-23 Table 3-11 Emergency Call Priority System and Average Dispatch Times for Oakland Police Department 3-25 Table 3-12 Police Beat Statistics for Area Surrounding NMCO 3-27 Table 3-13 Endangered, Threatened, and Candidate Species in the Vicinity of NMCO 3-27 Table 3-15 Properties of Soils at NMCO 3-25 Table 3-16 Traffic Level of Service Definitions for Signalized and Unsignalized Intersections 3-79 Trable 3-17 Preclosure Intersection Operations 3-79 Trable 3-19 Inventory of Existing On-site Parking, NMCO 3-91 Table 3-10 Existing Transit Ridership During Peak Periods 3-90 Table 3-20 Existing Transit Ridership and Route Capacity 3-92 Table 3-23 Summary of Recent Air Quality Monitoring Data for the Oakland Area 3-98 Table 3-24 Underground Storage Tank (UST) Inventory 3-120 Table 4-1 Summary of Land Uses and Employment Generation by Alternative 4-12 Table 4-2 Summary of Land Uses and Employment Generation by Alternative 4-12 Table 4-3 Hunpact on School District Enrollments 4-16 Table 4-5 Analysis of Population Impacts in Oakland and the ROI 4-16	Table 2-7		
Table 3-2 Historical Employment Composition for the ROI			
Table 3-3 ROI Employment Projections, 1990-2020. 3-16 Table 3-4 Historical and Projected Population, 1980-2020. 3-18 Table 3-5 Housing Totals in Oakland and Oak Knoll Area. 3-18 Table 3-6 Characteristics of Households, 1980-2020. 3-19 Table 3-7 1994 Oakland Unified School District Enrollment. 3-20 Table 3-8 Oak Knoll Study Area Neighborhood School 1994 Enrollment. 3-20 Table 3-9 1990 Ethnic Composition and Poverty Status. 3-22 Table 3-10 Oak Knoll Study Area Poverty Status, By Census Tract. 3-23 Table 3-11 Emergency Call Priority System and Average Dispatch Times for Oakland Police Department. 3-25 Table 3-12 Police Beat Statistics for Area Surrounding NMCO 3-27 Table 3-13 Endangered, Threatened, and Candidate Species in the Vicinity of NMCO 3-27 Table 3-14 Other Sensitive Species in the Vicinity of NMCO 3-25 Table 3-15 Properties of Soils at NMCO 3-25 Table 3-16 Traffic Level of Service Definitions for Signalized and Unsignalized Intersections 3-79 Table 3-19 Preclosure Intersection Operations 3-79 Table 3-19 Preclosure Naval Medical Center Daily Traffic Counts 3-90 Table 3-20 Existing Transit Ridership During Peak Periods 3-92 Table 3-21 Total Existing Transit Ridership and Route Capacity 3-92 Table 3-23 Summary of Recent Air Quality Monitoring Data for the Oakland Area 3-98 Table 3-24 Underground Storage Tank (UST) Inventory 3-120 Table 4-1 Summary of Land Use Impact Determinations 4-6 Table 4-2 Summary of Land Use Impact Determinations 4-13 Table 4-3 Summary of Socioeconomic Impact Determinations 4-16 Table 4-4 Analysis of Population Impacts in Oakland and the ROI 4-16			
Table 3-4 Historical and Projected Population, 1980-2020			
Table 3-5 Housing Totals in Oakland and Oak Knoll Area			
Table 3-6 Characteristics of Households, 1980-2020 3-19 Table 3-7 1994 Oakland Unified School District Enrollment 3-20 Table 3-8 Oak Knoll Study Area Neighborhood School 1994 Enrollment 3-20 Table 3-9 1990 Ethnic Composition and Poverty Status 3-22 Table 3-10 Oak Knoll Study Area Poverty Status, By Census Tract. 3-23 Table 3-11 Emergency Call Priority System and Average Dispatch Times for Oakland Police Department 3-25 Table 3-12 Police Beat Statistics for Area Surrounding NMCO 3-27 Table 3-13 Endangered, Threatened, and Candidate Species in the Vicinity of NMCO 3-27 Table 3-15 Other Sensitive Species in the Vicinity of NMCO 3-51 Table 3-16 Traffic Level of Service Definitions for Signalized and Unsignalized Intersections 3-79 Table 3-17 Preclosure Intersection Operations 3-87 Table 3-18 Preclosure Naval Medical Center Daily Traffic Counts 3-90 Table 3-19 Inventory of Existing On-site Parking, NMCO 3-91 Table 3-20 Existing Transit Ridership During Peak Periods 3-92 Table 3-21 Total Existing Transit Ridership and Route Capacity 3-92 Table 3-22 Ambient Air Quality Standards Applicable in California 3-97 Table 3-23 Summary of Recent Air Quality Monitoring Data for the Oakland Area 3-98 Table 3-24 Underground Storage Tank (UST) Inventory 3-120 Table 4-1 Summary of Land Uses and Employment Generation by Alternative 4-12 Table 4-2 Summary of Land Uses and Employment Generation by Alternative 4-13 Table 4-3 Analysis of Population Impacts in Oakland and the ROI 4-16			
Table 3-7 1994 Oakland Unified School District Enrollment			
Table 3-8 Oak Knoll Study Area Neighborhood School 1994 Enrollment 3-20 Table 3-9 1990 Ethnic Composition and Poverty Status 3-22 Table 3-10 Oak Knoll Study Area Poverty Status, By Census Tract. 3-23 Table 3-11 Emergency Call Priority System and Average Dispatch Times for Oakland Police Department 3-25 Table 3-12 Police Beat Statistics for Area Surrounding NMCO 3-27 Table 3-13 Endangered, Threatened, and Candidate Species in the Vicinity of NMCO 3-51 Table 3-14 Other Sensitive Species in the Vicinity of NMCO 3-51 Table 3-15 Properties of Soils at NMCO 3-74 Table 3-16 Traffic Level of Service Definitions for Signalized and Unsignalized Intersections 3-79 Table 3-17 Preclosure Intersection Operations 3-87 Table 3-18 Preclosure Naval Medical Center Daily Traffic Counts 3-90 Table 3-19 Inventory of Existing On-site Parking, NMCO 3-91 Table 3-20 Existing Transit Ridership During Peak Periods 3-92 Table 3-21 Total Existing Transit Ridership and Route Capacity 3-92 Table 3-22 Ambient Air Quality Standards Applicable in California 3-97 Table 3-23 Summary of Recent Air Quality Monitoring Data for the Oakland Area 3-98 Table 3-24 Underground Storage Tank (UST) Inventory 3-120 Table 4-1 Summary of Land Uses and Employment Generation by Alternative 4-12 Table 4-2 Summary Of Socioeconomic Impact Determinations 4-13 Table 4-4 Analysis of Population Impacts in Oakland and the ROI 4-16		·	
Table 3-9 1990 Ethnic Composition and Poverty Status			
Table 3-10 Oak Knoll Study Area Poverty Status, By Census Tract			
Table 3-11 Emergency Call Priority System and Average Dispatch Times for Oakland Police Department		•	3-23
Police Department			
Table 3-12 Police Beat Statistics for Area Surrounding NMCO Table 3-13 Endangered, Threatened, and Candidate Species in the Vicinity of NMCO¹ 3-51 Table 3-14 Other Sensitive Species in the Vicinity of NMCO¹ 3-52 Table 3-15 Properties of Soils at NMCO Traffic Level of Service Definitions for Signalized and Unsignalized Intersections 3-74 Table 3-16 Traffic Level of Service Definitions for Signalized and Unsignalized Intersections 3-79 Table 3-17 Preclosure Intersection Operations 3-87 Table 3-18 Preclosure Naval Medical Center Daily Traffic Counts 3-90 Table 3-19 Inventory of Existing On-site Parking, NMCO 3-91 Table 3-20 Existing Transit Ridership During Peak Periods 3-92 Table 3-21 Total Existing Transit Ridership and Route Capacity 3-92 Table 3-22 Ambient Air Quality Standards Applicable in California 3-97 Table 3-23 Summary of Recent Air Quality Monitoring Data for the Oakland Area 3-98 Table 3-24 Underground Storage Tank (UST) Inventory 3-117 Table 3-25 Aboveground Storage Tank (AST) Inventory 3-117 Table 4-1 Summary of Land Use Impact Determinations 4-6 Table 4-2 Summary of Socioeconomic Impact Determinations 4-10 Table 4-3 Impact on School District Enrollments 4-11 Table 4-5 Analysis of Population Impacts in Oakland and the ROI 4-16		Police Department	3-25
Table 3-13 Endangered, Threatened, and Candidate Species in the Vicinity of NMCO¹ 3-51 Table 3-14 Other Sensitive Species in the Vicinity of NMCO¹ 3-52 Table 3-15 Properties of Soils at NMCO 3-74 Table 3-16 Traffic Level of Service Definitions for Signalized and Unsignalized Intersections 3-79 Table 3-17 Preclosure Intersection Operations 3-87 Table 3-18 Preclosure Naval Medical Center Daily Traffic Counts 3-90 Table 3-19 Inventory of Existing On-site Parking, NMCO 3-91 Table 3-20 Existing Transit Ridership During Peak Periods 3-92 Table 3-21 Total Existing Transit Ridership and Route Capacity 3-92 Table 3-22 Ambient Air Quality Standards Applicable in California 3-97 Table 3-23 Summary of Recent Air Quality Monitoring Data for the Oakland Area 3-98 Table 3-24 Underground Storage Tank (UST) Inventory 3-117 Table 3-25 Aboveground Storage Tank (AST) Inventory 3-120 Table 4-1 Summary of Land Use Impact Determinations 4-6 Table 4-2 Summary of Socioeconomic Impact Determinations 4-13 Table 4-4 Impact on School District Enrollments 4-14 Table 4-5 Analysis of Population Impacts in Oakland and the ROI 4-16	Table 3-12	Police Beat Statistics for Area Surrounding NMCO	3-27
Table 3-15Properties of Soils at NMCO3-74Table 3-16Traffic Level of Service Definitions for Signalized and Unsignalized Intersections3-79Table 3-17Preclosure Intersection Operations3-87Table 3-18Preclosure Naval Medical Center Daily Traffic Counts3-90Table 3-19Inventory of Existing On-site Parking, NMCO3-91Table 3-20Existing Transit Ridership During Peak Periods3-92Table 3-21Total Existing Transit Ridership and Route Capacity3-92Table 3-22Ambient Air Quality Standards Applicable in California3-97Table 3-23Summary of Recent Air Quality Monitoring Data for the Oakland Area3-98Table 3-24Underground Storage Tank (UST) Inventory3-117Table 3-25Aboveground Storage Tank (AST) Inventory3-120Table 4-1Summary of Land Use Impact Determinations4-6Table 4-2Summary Of Socioeconomic Impact Determinations4-13Table 4-3Impact on School District Enrollments4-14Table 4-5Analysis of Population Impacts in Oakland and the ROI4-16	Table 3-13	Endangered, Threatened, and Candidate Species in the Vicinity of NMCO1	3-51
Table 3-16Traffic Level of Service Definitions for Signalized and Unsignalized Intersections.3-79Table 3-17Preclosure Intersection Operations.3-87Table 3-18Preclosure Naval Medical Center Daily Traffic Counts.3-90Table 3-19Inventory of Existing On-site Parking, NMCO.3-91Table 3-20Existing Transit Ridership During Peak Periods.3-92Table 3-21Total Existing Transit Ridership and Route Capacity.3-92Table 3-22Ambient Air Quality Standards Applicable in California.3-97Table 3-23Summary of Recent Air Quality Monitoring Data for the Oakland Area.3-98Table 3-24Underground Storage Tank (UST) Inventory.3-117Table 3-25Aboveground Storage Tank (AST) Inventory.3-120Table 4-1Summary of Land Use Impact Determinations.4-6Table 4-2Summary of Land Uses and Employment Generation by Alternative.4-12Table 4-3Summary Of Socioeconomic Impact Determinations.4-13Table 4-4Impact on School District Enrollments.4-14Table 4-5Analysis of Population Impacts in Oakland and the ROI.4-16	Table 3-14	Other Sensitive Species in the Vicinity of NMCO ¹	3-52
Table 3-17Preclosure Intersection Operations3-87Table 3-18Preclosure Naval Medical Center Daily Traffic Counts3-90Table 3-19Inventory of Existing On-site Parking, NMCO3-91Table 3-20Existing Transit Ridership During Peak Periods3-92Table 3-21Total Existing Transit Ridership and Route Capacity3-92Table 3-22Ambient Air Quality Standards Applicable in California3-97Table 3-23Summary of Recent Air Quality Monitoring Data for the Oakland Area3-98Table 3-24Underground Storage Tank (UST) Inventory3-117Table 3-25Aboveground Storage Tank (AST) Inventory3-120Table 4-1Summary of Land Use Impact Determinations4-6Table 4-2Summary of Land Uses and Employment Generation by Alternative4-12Table 4-3Summary Of Socioeconomic Impact Determinations4-13Table 4-4Impact on School District Enrollments4-14Table 4-5Analysis of Population Impacts in Oakland and the ROI4-16	Table 3-15	Properties of Soils at NMCO	3-74
Table 3-18Preclosure Naval Medical Center Daily Traffic Counts3-90Table 3-19Inventory of Existing On-site Parking, NMCO3-91Table 3-20Existing Transit Ridership During Peak Periods3-92Table 3-21Total Existing Transit Ridership and Route Capacity3-92Table 3-22Ambient Air Quality Standards Applicable in California3-97Table 3-23Summary of Recent Air Quality Monitoring Data for the Oakland Area3-98Table 3-24Underground Storage Tank (UST) Inventory3-117Table 3-25Aboveground Storage Tank (AST) Inventory3-120Table 4-1Summary of Land Use Impact Determinations4-6Table 4-2Summary of Socioeconomic Impact Determinations4-12Table 4-3Summary Of Socioeconomic Impact Determinations4-13Table 4-4Impact on School District Enrollments4-14Table 4-5Analysis of Population Impacts in Oakland and the ROI4-16	Table 3-16		3-79
Table 3-19Inventory of Existing On-site Parking, NMCO3-91Table 3-20Existing Transit Ridership During Peak Periods3-92Table 3-21Total Existing Transit Ridership and Route Capacity3-92Table 3-22Ambient Air Quality Standards Applicable in California3-97Table 3-23Summary of Recent Air Quality Monitoring Data for the Oakland Area3-98Table 3-24Underground Storage Tank (UST) Inventory3-117Table 3-25Aboveground Storage Tank (AST) Inventory3-120Table 4-1Summary of Land Use Impact Determinations4-6Table 4-2Summary of Land Uses and Employment Generation by Alternative4-12Table 4-3Summary Of Socioeconomic Impact Determinations4-13Table 4-4Impact on School District Enrollments4-14Table 4-5Analysis of Population Impacts in Oakland and the ROI4-16	Table 3-17		
Table 3-20Existing Transit Ridership During Peak Periods3-92Table 3-21Total Existing Transit Ridership and Route Capacity3-92Table 3-22Ambient Air Quality Standards Applicable in California3-97Table 3-23Summary of Recent Air Quality Monitoring Data for the Oakland Area3-98Table 3-24Underground Storage Tank (UST) Inventory3-117Table 3-25Aboveground Storage Tank (AST) Inventory3-120Table 4-1Summary of Land Use Impact Determinations4-6Table 4-2Summary of Socioeconomic Impact Determinations4-12Table 4-3Summary Of Socioeconomic Impact Determinations4-13Table 4-4Impact on School District Enrollments4-14Table 4-5Analysis of Population Impacts in Oakland and the ROI4-16	Table 3-18		
Table 3-21Total Existing Transit Ridership and Route Capacity3-92Table 3-22Ambient Air Quality Standards Applicable in California3-97Table 3-23Summary of Recent Air Quality Monitoring Data for the Oakland Area3-98Table 3-24Underground Storage Tank (UST) Inventory3-117Table 3-25Aboveground Storage Tank (AST) Inventory3-120Table 4-1Summary of Land Use Impact Determinations4-6Table 4-2Summary of Land Uses and Employment Generation by Alternative4-12Table 4-3Summary Of Socioeconomic Impact Determinations4-13Table 4-4Impact on School District Enrollments4-14Table 4-5Analysis of Population Impacts in Oakland and the ROI4-16	Table 3-19		
Table 3-22Ambient Air Quality Standards Applicable in California3-97Table 3-23Summary of Recent Air Quality Monitoring Data for the Oakland Area3-98Table 3-24Underground Storage Tank (UST) Inventory3-117Table 3-25Aboveground Storage Tank (AST) Inventory3-120Table 4-1Summary of Land Use Impact Determinations4-6Table 4-2Summary of Land Uses and Employment Generation by Alternative4-12Table 4-3Summary Of Socioeconomic Impact Determinations4-13Table 4-4Impact on School District Enrollments4-14Table 4-5Analysis of Population Impacts in Oakland and the ROI4-16	Table 3-20		
Table 3-23Summary of Recent Air Quality Monitoring Data for the Oakland Area.3-98Table 3-24Underground Storage Tank (UST) Inventory.3-117Table 3-25Aboveground Storage Tank (AST) Inventory.3-120Table 4-1Summary of Land Use Impact Determinations.4-6Table 4-2Summary of Land Uses and Employment Generation by Alternative.4-12Table 4-3Summary Of Socioeconomic Impact Determinations.4-13Table 4-4Impact on School District Enrollments.4-14Table 4-5Analysis of Population Impacts in Oakland and the ROI.4-16	Table 3-21		
Table 3-24Underground Storage Tank (UST) Inventory3-117Table 3-25Aboveground Storage Tank (AST) Inventory3-120Table 4-1Summary of Land Use Impact Determinations4-6Table 4-2Summary of Land Uses and Employment Generation by Alternative4-12Table 4-3Summary Of Socioeconomic Impact Determinations4-13Table 4-4Impact on School District Enrollments4-14Table 4-5Analysis of Population Impacts in Oakland and the ROI4-16			
Table 3-25Aboveground Storage Tank (AST) Inventory3-120Table 4-1Summary of Land Use Impact Determinations4-6Table 4-2Summary of Land Uses and Employment Generation by Alternative4-12Table 4-3Summary Of Socioeconomic Impact Determinations4-13Table 4-4Impact on School District Enrollments4-14Table 4-5Analysis of Population Impacts in Oakland and the ROI4-16			
Table 4-1Summary of Land Use Impact Determinations4-6Table 4-2Summary of Land Uses and Employment Generation by Alternative4-12Table 4-3Summary Of Socioeconomic Impact Determinations4-13Table 4-4Impact on School District Enrollments4-14Table 4-5Analysis of Population Impacts in Oakland and the ROI4-16			
Table 4-2Summary of Land Uses and Employment Generation by Alternative4-12Table 4-3Summary Of Socioeconomic Impact Determinations4-13Table 4-4Impact on School District Enrollments4-14Table 4-5Analysis of Population Impacts in Oakland and the ROI4-16	Table 3-25		
Table 4-3 Summary Of Socioeconomic Impact Determinations 4-13 Table 4-4 Impact on School District Enrollments 4-14 Table 4-5 Analysis of Population Impacts in Oakland and the ROI 4-16		,	
Table 4-4 Impact on School District Enrollments 4-14 Table 4-5 Analysis of Population Impacts in Oakland and the ROI 4-16			
Table 4-5 Analysis of Population Impacts in Oakland and the ROI		Summary Of Socioeconomic Impact Determinations	
, .			
Table 4-6 Analysis of Job Impacts in Oakland and the ROI			
Table 4-7 Summary of Public Services Impacts and Significance			
Table 4-8 Summary of Cultural Resources Impact Determinations 4-37		•	
Table 4-9 Summary of Aesthetics and Scenic Resources Impact Determinations 4-42		·	
Table 4-10 Summary of Biological Resources Impact Determinations 4-58			
Table 4-11 Summary of Water Resources Impact Determinations 4-67			
Table 4-12 Summary of Geologic and Soils Impact Determinations 4-76	Table 4-12	Summary of Geologic and Soils Impact Determinations	4 -76

LIST OF TABLES

		Page No.
Table 4-13	Summary of Traffic and Circulation Impacts and Significance	4-85
Table 4-14	Total Trip Generation	4-86
Table 4-15	Trip Distribution	4-86
Table 4-1 6	Parking Demand	4-87
Table 4-17	Peak Hour Transit Ridership for Project Alternatives	4-88
Table 4-18	Total Peak Hour Ridership for Project Alternatives	4-89
Table 4-19	Maximum Capacity Alternative Intersection Operations	4-91
Table 4-20	Maximum Capacity Alternative Intersection Operations - Mitigated	4-93
Table 4-21	Mixed Use Village Alternative Intersection Operations	4-95
Table 4-22	Mixed Use Village Alternative Intersection Operations - Mitigated	4-97
Table 4-23	Single Use Campus Alternative Intersection Operations	4-99
Table 4-24	Single Use Campus Alternative Intersection Operations - Mitigated	4-100
Table 4-25	Residential Alternative (Option 1) Intersection Operations	4-102
Table 4-26	Residential Alternative (Option 1) Intersection Operations - Mitigated	4-103
Table 4-27	Residential Alternative (Option 2) Intersection Operations	4-105
Table 4-28	Residential Alternative (Option 2) Intersection Operations - Mitigated	4-107
Table 4-29	No Action Alternative Intersection Operations	4-109
Table 4-30	Summary of Air Quality Impact Determinations	4-111
Table 4-31	Estimated Air Emissions	4-112
Table 4-32	Summary of Carbon Monoxide Dispersion Modeling Results	4-115
Table 4-33	Summary of Noise Impact Determinations	4-126
Table 4-34	Typical Noise Levels During Building Demolition and Roadway Construction	4-127
Table 4-35	Summary of Utilities Impact Determinations	4-132
Table 4-36	Summary of Hazardous Material and Waste Impact Determinations	4-147
Table 4-37	Hazardous Material Usage by Land Use Category	4-149
Table 5-1	Summary of Cumulative Traffic and Circulation Impacts and Significance	5-8
Table 5-2	Leona Quarry Trip Generation	5-9
Table 5-3	Leona Quarry Trip Distribution	5-10
Table 5-4	Cumulative No Action Alternative Intersection Operations	5-11
Table 5-5	Cumulative Maximum Capacity Alternative Intersection Operations	5-12
Table 5-6	Cumulative Maximum Capacity Alternative Intersection Operations - Mitigated	5-13
Table 5-7	Cumulative Mixed Use Village Alternative Intersection Operations	5-14
Table 5-8	Cumulative Mixed Use Village Alternative Intersection Operations - Mitigated	5-15
Table 5-9	Cumulative Single Use Campus Alternative Intersection Operations	5-16
Table 5-10	Cumulative Single Use Campus Alternative Intersection Operations - Mitigated	5-17
Table 5-11	Cumulative Residential Alternative (Option 1) Intersection Operations	5-18
Table 5-12	Cumulative Residential Alternative (Option 1) Intersection Operations - Mitigated	5-19
Table 5-13	Cumulative Residential Alternative (Option 2) Intersection Operations	5-20
Table 5-14	Cumulative Residential Alternative (Option 2) Intersection Operations - Mitigated.	5-21
Table 5-1 5	Percentage of NMCO Traffic Added to I-580 by Alternative	5-22
Table 5-16	Demolition Waste Generation	5.24

NAVAL MEDICAL CENTER OAKLAND ACRONYMS AND ABBREVIATIONS

AB Assembly Bill

ABAG Association of Bay Area Governments

AC Transit Alameda County Transit
ACM asbestos-containing material

AHERA Asbestos Hazardous Emergency Response Act

AM morning

ARB Air Resources Board
AST aboveground storage tank
ATC Authority to Construct

BAAQMD Bay Area Air Quality Management District

BART Bay Area Rapid Transit

BCP Base Realignment and Closure Cleanup Plan

BEAP Base Exterior Architecture Plan

bgs below ground surface
BMP Best Management Practice
BRAC Base Realignment and Closure

Cal/EPA California Environmental Protection Agency

CBC California Building Code
CCR California Code of Regulations
C&D Construction & Demolition

CDFG California Department of Fish and Game

CDHA Community Development and Homeless Assistance Act

CEQ Council on Environmental Quality
CEQA California Environmental Quality Act

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

CERFA Community Environmental Response Facilitation Act

CFR Code of Federal Regulations

CIWMB California Integrated Waste Management Board

CMP Congestion Management Plan

CNEL Community Noise Equivalent Level
CNPS California Native Plant Society

CO carbon monoxide

CSC California Species of Special Concern

CTA Census Tract Area

dB decibel

dBA A-weighted decibel
dbh diameter at breast height

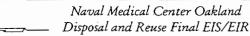
DBCRA Defense Base Closure and Realignment Act

DOD Department of Defense

DTSC Department of Toxic Substance Control

DWR California Department of Water Resources

EBMUD East Bay Municipal Utility District
EBS environmental baseline survey



NAVAL MEDICAL CENTER OAKLAND ACRONYMS AND ABBREVIATIONS (continued)

EFA Engineering Field Activity
EIR environmental impact report
EIS environmental impact statement

EPA U.S. Environmental Protection Agency

ESA Endangered Species Act

FEMA Federal Emergency Management Agency
FFSRA Federal Facility Site Remediation Agreement
FIFRA Federal Insecticide Fungicide and Rodenticide Act

FOSL Finding of Suitability to Lease
FOST Finding of Suitability to Transfer

FPMR Federal Property Management Regulations

gpm gallons per minute

HWCL - Hazardous Waste Control Law (California)

HWMP Hazardous Waste Management Plan

I-580 Interstate Route 580

IRP Installation Restoration Program

ISTEA Intermodal Surface Transportation Efficiency Act

kV kilovolt

kVA kilovolt amperes

Leq equivalent noise levels

LOS Level of Service

LRA Local Redevelopment Authority
MCE Maximum Credible Earthquake

MCM thousand circular mils

MMRP Mitigation Monitoring and Reporting Program

mm/yr millimeters per year mph miles per hour

MTC Metropolitan Transportation Commission

NCP National Contingency Plan NCSO Navy Caretaker Site Office

NEPA National Environmental Policy Act

NESHAP National Emissions Standards for Hazardous Air Pollutants

NMCO Naval Medical Center Oakland

NO₂ nitrogen dioxide
NOA notice of availability
NOC notice of completion
NOI notice of intent
NOP notice of preparation

NPDES National Pollutant Discharge Elimination System

NPL National Priorities List

NRHP National Register of Historic Places NWI National Wetlands Inventory

OBC/CTF Oakland Base Closure/Conversion Task Force

OBRA Oakland Base Reuse Authority
OEA Office of Economic Adjustment

OPR Office of Parks and Recreation (Oakland)



NAVAL MEDICAL CENTER OAKLAND ACRONYMS AND ABBREVIATIONS (continued)

OSHA Occupational Safety and Health Administration

OUSD Oakland Unified School District
PCB polychlorinated biphenyl
PG&E Pacific Gas & Electric Company

PL Public Law PM evening

PM₁₀ Particulate Matter (inhalable component)

PRC Public Resources Code
psig pounds per square inch gauge

PTO Permit to Operate
PVC polyvinyl chloride

PWCSFB Public Works Center San Francisco Bay RCRA Resource Conservation and Recovery Act

ROD record of decision
ROI Region of Influence

RWQCB Regional Water Quality Control Board

SARA Superfund Amendments and Reauthorization Act

SF square feet

SHPO State Historic Preservation Office SIP State Implementation Plan

SO₂ sulfur dioxide

SWPPP storm water pollution prevention plan

TSCA Toxic Substances Control Act
UBC Uniform Building Code
USDA US Department of Agriculture

USFWS United States Fish and Wildlife Service

UST underground storage tank V/C volume to capacity (ratio)

WGCEP Working Group on California Earthquake Probabilities

WSE water service estimate
WWII World War Two

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EXECUTIVE SUMMARY

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EXECUTIVE SUMMARY

INTRODUCTION

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This joint environmental impact statement/environmental impact report (EIS/EIR) evaluates the potential impacts to the environment that may result from the Navy disposal and implementation of land use alternatives proposed by the Oakland Base Reuse Authority (OBRA) for the reuse of Naval Medical Center, Oakland, California (NMCO). NMCO was closed on September 30, 1996, pursuant to the Defense Base Closure and Realignment Act (DBCRA) of 1990 (Part A of Title XXIX of Public Law [PL] 101-510) referred to in this document as BRAC. This EIS/EIR has been prepared in accordance with:

- The National Environmental Policy Act (42 U.S.C., §§ 4321-4370a) (NEPA) of 1969, as amended;
- The California Environmental Quality Act (CEQA) (California Public Resources [Cal. Pub. Res.] Code §§ 21000-21178.1) of 1970, as amended;
- The Council on Environmental Quality (CEQ) regulations on implementing NEPA (40 C.F.R. Parts 1500-1508);

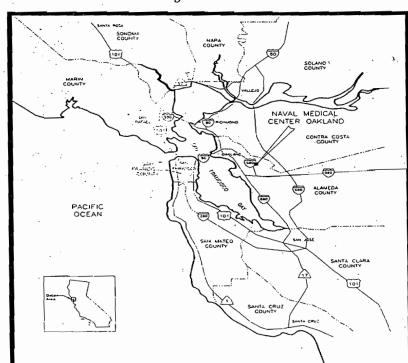


Figure ES-1 Regional Location

- Navy guidelines; and
- The Defense Base Closure and Realignment Act of 1990 (Part A of Title XXIX of PL 101-510) (DBCRA), as amended by the 1993 Base Realignment and Closure process.

This Final EIS/EIR includes all of the information and analysis contained in the Draft EIS/EIR circulated for public review and comment. It also includes responses to those comments and revisions made in response to those comments.

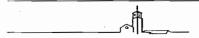
The NEPA federal action evaluated in this EIS/EIR is the disposal of federal surplus property at the NMCO site, while the local CEQA project evaluated is the proposed reuse of the NMCO site, presented as four reuse alternatives.

The 183-acre NMCO site varies from gently to steeply sloping topography, and includes both developed and wooded lands. The area is generally bounded on the south and east by residential development, on the north by Keller Avenue and residential development, and on the west by Mountain Boulevard. Immediately to the west of Mountain Boulevard lies Interstate Route 580 (I-580), the MacArthur Freeway.

The facility is developed with approximately 89 structures. Club Knoll, built in 1927, was the original clubhouse for the golf and country club that occupied much of the site prior to its acquisition by the Navy. The main hospital, five modern buildings, 20 "vintage" wooden buildings, 24 miscellaneous other structures, and 38 family housing structures comprise the remaining buildings.

Before 1942, the NMCO site was used as a golf course and country club. At the climax of the war in the Pacific, the hospital was caring for over 8,000 inpatients with a military and civilian staff of approximately 3,000. After World War II, the activity and population of the hospital declined. Activity increased again during the Korean conflict when the daily population averaged 2,500. This figure subsequently fell to a peacetime low of about 600. Patient care activities increased once again due to casualties from the Vietnam conflict, beginning in 1965.

After the Vietnam conflict, activity decreased, and many of the older medical buildings were demolished and their sites used for parking. Many of the buildings constructed quickly during wartime still remain in use. Most recently, the hospital provided medical support during the Gulf War.



PURPOSE OF AND NEED FOR ACTION

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The Department of Defense (DOD) has been directed by Congress to realign and reduce certain military operations, pursuant to the closure process. NMCO was one of the bases directed for closure by the 1993 Defense Base Closure and Realignment Commission. Closure of the facility occurred on September 30, 1996.

Disposal of federal surplus property on the site will occur in compliance with Federal Property Management Regulations (FPMR), the DBCRA, as amended, the Base Closure Community Redevelopment and Homeless Assistance Act, (the "Redevelopment Act," PL 103-421) and the National Defense Authorization Act (PL 101-510, § 2906).

As part of the disposal process, the City of Oakland was recognized by the Secretary of Defense as the local redevelopment authority (LRA). The City of Oakland, in turn, designated OBRA as the LRA for all base conversions in the City. This authority came through the Oakland Base Reuse Authority Joint Powers Agreement of March 1995, an agreement among the City of Oakland, the Oakland Redevelopment Agency, and the County of Alameda. In this role as LRA, OBRA developed a set of reuse plan alternatives for consideration at NMCO.

Pursuant to the Joint Powers Agreement, the City of Oakland reserves and retains its land use, zoning, and building authority. Therefore, the City is the lead agency for CEQA purposes and the decision making body with respect to any land use approvals (general plan amendments, rezoning, etc.) that the reuse plan may require.

Document Purpose

This joint, or integrated, EIS/EIR has been prepared to assess the potential environmental impacts of NMCO disposal and reuse and thereby to fulfill the requirements of NEPA and CEQA. The Navy is required to complete NEPA documentation to evaluate the environmental effects of the disposal of federal surplus property and structures at NMCO. The City of Oakland is required by CEQA to evaluate the environmental effects of implementing a reuse plan.

This EIS/EIR is intended to provide information on the potential environmental impacts of disposal of the NMCO, the impacts of four reuse alternatives that could be implemented on the NMCO site, and a No-Action Alternative. The terms "environmental effects" and "environmental impacts" are used interchangeably in this report. The Navy will use the EIS



in its consideration of disposal. The Record of Decision (ROD) will consider significant impacts that could result, and identify potential mitigation measures recommended to avoid or reduce those significant impacts (i.e. effects, or consequences) as a result of disposal. Following disposal, no additional NEPA review by the Navy will be required.

The City of Oakland will use this document in its consideration of discretionary reuse permits which may include, but are not limited to general plan amendments, rezoning, zoning permits, specific plans or other specific area plans, development agreements, subdivision applications, tree removal permits and grading permits. Should any approvals by the City of Oakland include significant unavoidable environmental impacts, the city would adopt a statement of overriding considerations as required by CEQA. Subsequent project-level environmental review may be required under CEQA for unforeseen developments and impacts that may not have been adequately covered by this document.

Reuse impacts are projected to 2020. Projected year 2020 impacts are compared to existing environmental and socioeconomic conditions. Complete implementation of each reuse alternative is assumed to be achieved by the year 2020 in the determination of impacts. Impacts are differentiated as resulting from disposal or reuse.

Related Studies

The hazardous materials and waste cleanup of NMCO was conducted in accordance with the Base Realignment and Closure program requirements, and the Comprehensive Environmental Response, Compensation, and Liability Act (42 U.S.C. § 9601 et seq.) (CERCLA). DOD policy requires preparation of an environmental baseline survey (EBS) prior to selling, leasing, or transferring real property. The Final EBS for NMCO was completed in June 1995 (US Navy 1995b) and documented the known environmental conditions at NMCO. The BRAC Cleanup Plan (BCP) provides the status of ongoing environmental restoration and associated compliance programs. The most recent BCP for NMCO (US Navy 1995a) was completed in March 1995, and has been updated with an Environmental Business Plan in March 1996 (US Navy 1996). It evaluated the status of the cleanup program and summarized compliance items requiring further evaluation and implementation. Documentation of the site's contamination and remediation will be prepared in conjunction with the disposal process.

Disposal Process

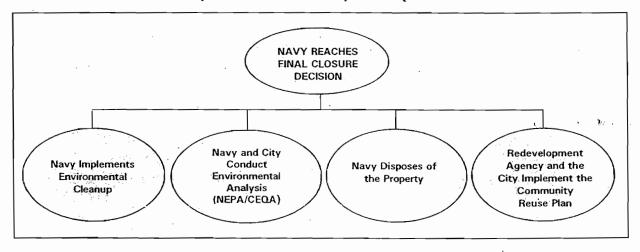
The federal action considered in this EIS/EIR is the disposal of federal surplus property and structures at NMCO. Approximately 183 acres of



federal surplus property at NMCO have been identified by the Navy for disposal. Predisposal actions include placing the site in caretaker status, site cleanup operations, and, possibly, limited interim use leasing. Following closure on September 30, 1996, the site was placed in caretaker status under Navy control. On-site Navy activity is limited to security, maintenance and environmental cleanup. The property was reassigned to the custody of the Navy's Engineering Field Activity West (EFA West) in San Bruno, California.

The disposal process encompasses several actions (Figure ES-2) with differing jurisdictional responsibilities and schedules. It contains many steps, including DOD and federal agency screening, consideration to local homeless providers, and most likely, eventual transfer of title to state, local, and private entities. No federal agencies indicated a continuing interest in NMCO properties during the DOD and federal screening process. At NMCO, the Navy is responsible for environmental cleanup and disposal of the property.

Figure ES-2
Primary Elements of the Military Base Disposal Process



Limited interim use leasing of NMCO facilities, the purposes of which are to generate employment, continue the use of infrastructure, and better facilitate reuse, may occur prior to property transfer.

Public Involvement Process

The EIS/EIR process is designed to involve the public in federal and local decision making. Opportunities to comment on and participate in the process are provided during preparation of the EIS/EIR. Comments from

agencies and the public are solicited throughout the process to help identify the primary issues associated with the site's disposal and proposed reuse. Efforts have been made during the public notification process to include all interested regulatory agencies, Oakland area residents, and community organizations. In accordance with Executive Order 12898 on Environmental Justice, particular attention has been paid to assure participation by minority and low-income populations in the area potentially affected by disposal and reuse.

Community Reuse Planning

The reuse planning process for the NMCO began with formation of the Oakland Base Closure/Conversion Task Force (OBC/CTF) in November 1993 by the Oakland City Council immediately after the 1993 BRAC closure list was accepted by President Clinton. The City of Oakland ("Citv") was recognized by the Secretary of Defense as the local redevelopment authority (LRA). The City, in turn, designated the Oakland Base Reuse Authority (OBRA) as the LRA for all base conversions in the City. The subcommittees of OBRA are entitled "Housing and Homeless," "Employment and Social Impacts," "Land Reuse," and "Legislation and Finance."

The Base Closure Community Redevelopment and Homeless Assistance Act of 1994 ("the Redevelopment Act" PL 103-421) requires that consideration of the needs of the homeless be included in reuse plans. OBRA plans to accommodate homeless assistance offsite. In September 1997, the US Department of Housing and Urban Development (HUD) approved OBRA's homeless assistance plan.

The NMCO Final Reuse Plan was adopted by OBRA on June 10, 1996 and published in August 1996 (OBRA 1996). The final plan resulted from the combined efforts of community working groups, OBRA, the Citizen Advisory Committee, City of Oakland staff, and a consultant team of land use and environmental planners, economists, and transportation experts.

ALTERNATIVES

The alternatives evaluated in this EIS/EIR are described below. Disposal will happen prior to the implementation of the reuse plan. The No-Action Alternative retains the site in caretaker status.

During preparation of the reuse alternatives, all meetings of the OBRA and its subcommittees were open to the public and were advertised on local television and in the local newspaper. These meetings were broadcast on the

local television channel. All materials, including reports, videos, and other informational items were made available to the public.

Alternatives analyzed in this EIS/EIR include the Maximum Capacity Alternative, Mixed Use Village Alternative, Single Use Campus Alternative, Residential Alternative, and the No Action Alternative.

Although the Maximum Capacity, Mixed Use Village, Single Use Campus, and Residential alternatives differ in the ways they address the needs and goals of the community and the City of Oakland, they have common elements focused on recognizing constraints of topography, preserving active recreation areas and preserving the riparian corridor. Each reuse alternative also includes the necessary discretionary permits to implement the reuse plan, such as a general plan amendment, a rezoning, a specific plan, if necessary, zoning permits, subdivision applications, tree removal permits, grading permits and any other discretionary permits that might by required.

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Maximum Capacity Alternative - Preferred Alternative (includes NMCO Reuse Plan)

The Maximum Capacity Alternative was initially provided to the Navy by OBRA in December 1995 for use in the EIS/EIR as OBRA's estimate of likely site development (Theresa Hughes & Associates 1996a). For the EIS/EIR analysis, the Maximum Capacity Alternative was adjusted to incorporate modifications OBRA made when it adopted its reuse plan for NMCO on June 10, 1996 and published in August 1996 (OBRA 1996).

The Maximum Capacity Alternative is characterized by 86 acres that combine an executive nine-hole golf course with 250 units of single- and multi-family housing. Forty (40) acres of mixed use development is planned to include commercial and corporate campus (i.e. offices), a credit union, museum, parks and recreation uses, the United Indian Nations facility, Seneca Center, and 300 multi-family residential units. United Indian Nations, Inc. (UIN), has proposed the establishment of an American Indian Cultural and Education Center at the site, with a focus on educating Native Americans and all other cultures and ethnic groups on the history, culture, arts, crafts, and contributions of Native Americans locally, regionally, and nationally. UIN is requesting a parcel which includes Building #101 within the mixed use area. This proposal represents approximately .75 acres. Seneca Residential and Day Treatment Center for Children proposes a school and multi-service campus to provide special education, mental health, and support services for emotionally disabled children. Seneca is requesting a parcel which includes Building #69, the Helipad, and limited adjoining acreage for new construction. This proposal represents approximately 6



acres. An additional 10 acres with 34 single-family residential units, 15 acres of active recreation (e.g. Club Knoll, swimming pool, tennis courts, baseball and soccer fields, picnic area, driving range, and clubhouse), and 32 acres of open space uses (e.g. recreation trails, creek restoration, conserved woodlands, wildlife habitat, parkland, and United Indian Nations ceremonial grounds) comprise the remaining land uses proposed for the 183-acre site. It is assumed that about 39 acres of the 183 planned acres would be set aside for unbuildable slopes and roads. It is estimated that this alternative would employ approximately 717 people.

Mixed Use Village Alternative

The Mixed Use Village Alternative is characterized by 23 acres of mixed use development, with an unspecified number of medium density townhouses and/or live-work space units. This mixed use zone also would include a health and social services facility and small professional offices. The exact square footages dedicated to each of these uses, and the number of housing units has not been determined by the OBRA. Twelve (12) acres of research and development is planned to include offices, laboratories, seminar/meeting areas, and storage space. The exact square footages dedicated to each of these research and development uses has not been determined by the OBRA. Five (5) acres would be used for a cultural/meeting facility (e.g. library/museum building, multipurpose/performance area, and community assembly and conference hall). Another five (5) acres of community retail uses (e.g. supermarket, specialty stores, restaurants, personal services, business services [e.g. copy shop, travel agency], and bank) is also proposed. Eight (8) acres of active recreation (e.g. Club Knoll, swimming pool, tennis courts, baseball and playfields, and picnic area), and 86 acres of open space (e.g. recreation trails, creek restoration, conserved woodlands, wildlife habitat, and parkland) comprise the remaining land uses proposed for 139 acres of the 183-acre site. It is assumed that an additional 44 acres on the site, but not included in these 139 acres of planned land uses, would be set aside for unbuildable slopes and roads. It is estimated that this alternative would employ approximately 1,140 people.

Single Use Campus Alternative

The Single Use Campus Alternative is characterized by 35 acres proposed for use as either an educational campus, conference/hotel facility, or an administrative/research headquarters complex. As an educational campus, it could include classrooms, a library, cafeteria, laboratories, multipurpose spaces, offices, student/guest facilities, vocational training center, and a machine wood shop. If used as a conference/hotel facility or administrative/research headquarters complex, the uses would be of a similar

character. One (1) acre would be planned for neighborhood retail use (e.g. convenience shops, restaurants, personal services [beauty shop], business services [copy service], and bank). Twelve (12) acres of active recreation (e.g. Club Knoll, swimming pool, tennis courts, baseball and playfields, and picnic area), and 101 acres of open space (e.g. recreation trails, creek restoration, conserved woodlands, wildlife habitat, and parkland) comprise the remaining land used proposed for 149 acres of the 183-acre site. It is assumed that an additional 34 acres on the site, not included in these 149 acres of planned land uses, would be set aside for unbuildable slopes and roads. It is estimated that this alternative would employ approximately 1,150 people.

Residential Alternative

The Residential Alternative is characterized by single-family residential development that is similar to the surrounding residential community and zoning. It is this "single-family unit" character that differentiates this alternative from the Maximum Capacity Alternative. The Residential Alternative includes two options (Options 1 and 2). Option 1 is the low density option, and Option 2 is the high density option. Option 1 is characterized by 82 acres that would include 357 housing units. Option 2 is characterized by 82 acres that would include 600 housing units. remaining acreages and land uses are the same for either Option 1 or Option 2. Neighborhood retail development is planned for approximately two acres, and would include convenience shops, restaurants, personal services [beauty shop], business services [copy service], and a bank. Fourteen (14) acres of active recreation (e.g. Club Knoll, swimming pool, tennis courts, baseball and playfields, and picnic area), and 46 acres of open space (e.g. recreation trails, creek restoration, conserved woodlands, wildlife habitat, and parkland) comprise the remaining land uses proposed for 144 acres of the 183-acre site. It is assumed that an additional 39 acres on the site, but not included in these 144 acres of planned land uses, would be set aside for unbuildable slopes and roads. It is estimated that this alternative would employ approximately 170 (Option 1) to 190 (Option 2) people.

No Action Alternative

Inclusion of the No Action Alternative in the environmental analysis and documentation is required by the Council on Environmental Quality regulations, which implement NEPA. The No Action Alternative generally provides a benchmark against which federal actions are evaluated unless such benchmark conditions exceed a regulatory standard. It also fulfills the requirement of CEQA that a "no project" alternative be evaluated.

For this EIS/EIR, the No Action Alternative would retain NMCO in a "caretaker" or inactive status under Navy control, under the custody of the Navy Engineering Field Activity West. The No Action Alternative is defined as the installation being closed, as mandated by law, with on-site activity limited to landscape, structures, and utilities maintenance; fire prevention and protection; security; environmental restoration; and those activities associated with caretaker status of surplus properties.

Environmentally Preferable/Environmentally Superior Alternative

NEPA requires that an environmentally preferable alternative be identified and CEQA requires that an environmental superior alternative be identified. The No Action Alternative is the NEPA environmentally preferable alternative and CEQA environmentally superior alternative. However, consistent only with CEQA requirements, one of the reuse alternatives must further be identified as an environmentally superior alternative.

The Residential Alternative (Option 1 = 357 dwelling units) is the CEQA environmentally superior reuse alternative, as described in sections 2.5.1 and 2.5.2.

AFFECTED ENVIRONMENT

This EIS/EIR provides a description of the existing environmental and socioeconomic conditions at NMCO and of surrounding properties. The setting discussion for each resource area identifies the region of influence (ROI) applicable to the specific resource area. An ROI is a geographic area in which impacts for a particular resource would likely occur. Existing conditions are described for the following resource categories: land use, socioeconomics, public services, cultural, aesthetics, biology, water, geology and soils, traffic and circulation, air quality, noise, utilities, and hazardous materials. NMCO is located entirely in the City of Oakland. The Illustrative Future Land Use Map of the land use element dated 1980 of the Oakland Comprehensive Plan shows NMCO to be "Institutional or Governmental - Medical". The zoning of the site is the R-30 zone (One Family Residential Zone). This zoning allows one unit per lot. The R-30 zone has a minimum lot size of 5,000 square feet.

ENVIRONMENTAL CONSEQUENCES

The EIS/EIR evaluates the potential environmental consequences associated with the disposal of federal surplus land, and with the reuse of NMCO. For every resource area evaluated in the EIS/EIR, reuse consequences, also referred to as impacts, are projected to the year 2020. Complete



implementation of each reuse alternative is assumed in the determination of impacts. Impacts are specified as resulting from disposal or reuse.

For purposes of the Navy NEPA analysis, direct environmental consequences or impacts are those associated with Navy disposal of surplus property and the No Action Alternative. Indirect impacts are associated with community reuse of Navy surplus property. The Navy's roles and responsibilities for disclosing indirect reuse-related environmental impacts is to address reasonably foreseeable impacts. However, property reuse will occur after it is conveyed from federal ownership and in support of local reuse actions. Implementation of mitigation measures for reuse environmental impacts is a local responsibility and not the responsibility of the Navy.

Table ES-1 indicates the most adverse type of impact (either significant and not mitigable, significant or mitigable, not significant, or none) for each issue area and alternative.

Examination of Table ES-1 indicates three important considerations. First, the consequences (impacts) of Navy disposal and of the No Action Alternative will not have environmental impacts as evaluated against NEPA significance thresholds. This is to be expected, since Navy property disposal is basically a transfer of title and not an environmentally disruptive action. Second, impacts from reuse alternatives to the physical environment are primarily either significant and mitigable, not significant, or do not occur as evaluated against CEQA significance thresholds. The only significant and unmitigable impacts are associated with air quality ozone precursor and PM₁₀ emissions resulting from all of the reuse alternatives and in combination with cumulative development due to traffic. Some identified socioeconomic and aesthetic/scenic resource impacts would be beneficial when compared to existing conditions. This is also to be expected, given the site constraints criteria used during the OBRA reuse planning process. Third, the impacts of the reuse alternatives are generally similar across all alternatives for any particular resource category. Because the physical development constraints of the site (steep slopes, drainage, erosion, and roads and infrastructure) and the knowledge that each alternative has been formulated to meet common housing, economic, and related planning goals, this similarity is to be expected.

Land Use

Disposal would not impact land use because it would not result in any changes to the physical environment (it is a transfer of title). No significant land use impacts would result from implementation of the Maximum



Table ES-1 Summary of Impacts and Significance

	Navy Action		Community Reuse Alternatives					
Impact Issues	Navy Disposal	No Action Alternative	Maximum Capacity Alternative	Mixed Use Village Alternative	Single Use Campus Alternative	Residential Alternative		
Land Use	0	0	0	. •	\oplus	0		
Socioeconomics				• •	. 0	•		
Public Services	0	0		•	•	• •		
Cultural Resources	0	0		0	0	0		
Aesthetics and Scenic Resources	0	0	•	Ф	. ①	0		
Biological Resources	0	0	•	•	0	•		
Water Resources	0	0	0	Ф	Ф	Φ		
Geology and Soils	0	0	•	<u>.</u>	0	•		
Traffic and Circulation	0	0	•	•	•	•		
Air Quality	0	0 .	•	•	•	•		
Noise	0	0	• 🕦		0	. ①		
Utilities	0	10	(0	Ф	0		
Hazardous Materials and Waste	0	0	Ф	. Ф	Ф	Ф		
Growth-Inducing Impacts	0	0	0	0	0	0		
Cumulative School Capacity	0	0	•	3 .	•	•		
Cumulative Traffic and Circulation	0	0	0	. •	•	. •		
Cumulative ozone precursor and PM ₁₀ emissions	0	0	•	•	•	•		
Cumulative Landfill Capacity	0	0	•	•	•	•		
Environmental Justice	0	0	0		0	0		

LEGEND:

Level of Impact

Significant and not mitigable
 Significant and mitigable

Nonsignificant

O = None

Capacity, Single Use Campus, or Residential (Options 1 or 2) alternatives, because no disruption of existing surrounding land uses would occur. No substantially incompatible land uses would be introduced, and proposed land uses would not have the potential to disrupt or divide the established physical land use configurations. Significant and mitigable land use impacts would result from implementation of the Mixed Use Village Alternative, due to the presence of a research and development facility. Those impacts could be mitigated by restricting uses that conflict with surrounding neighborhoods. The Illustrative Future Land Uses Map of the land use element dated 1980 of the Oakland Comprehensive Plan show this site to be "Institutional or Governmental – Medical." None of the reuse alternatives would fit this designation. Therefore, all of the reuse alternatives would require a general plan amendment. The site is zoned R-30 (One Family Residential Zone). All of the alternatives would also require some type of

rezoning to include the "new" land within the City's planning jurisdiction (i.e. the 183 acre NMCO site), and to permit the uses proposed. However, if only single family residential homes were to be built, the property may not have to be rezoned. The site is one parcel. To implement any of the reuse alternatives, it is presumed that the site would also have to be subdivided.

Socioeconomics

Disposal would not impact local or regional employment or income, population and housing, schools (K-12), or recreation. Each of the four reuse alternatives would beneficially impact employment, income and recreation. There would be no impacts to population and housing. CEQA reuse impacts to schools would be significant and mitigable.

Employment generated as a result of reuse would range from about 170 jobs (Residential Alternative; Option 1) to approximately 1,150 jobs (Single Use Campus Alternative). The Mixed Use Village Alternative would result in an estimated 1,140 jobs, and the Maximum Capacity Alternative would lead to about 717 jobs.

The increase in the population of the City of Oakland and Alameda County due to the number of people previously living elsewhere that move in to the city or county as a result of reuse is estimated to range from about 1,299 (Residential Alternative, Option 1) to about 3,006 (Maximum Capacity Alternative), which represents about six to 14 percent of the City's projected population growth from 1995 to the year 2020, and from about one to two percent of Alameda County's projected population growth over the same period.

Public Services

Disposal would generally have no impact on public services provided at the site because disposal would occur to a jurisdiction capable of providing adequate services. Implementation of the Maximum Capacity, Mixed Use Village, Single Use Campus, and Residential alternatives could result in significant public service impacts due to slight increases in demand for City of Oakland police services. This impact can be mitigated for each alternative by adding one additional police officer to adequately serve the increased demand.

Impacts of disposal and reuse alternatives on Oakland fire protection services and emergency ambulance services would not be significant because current service levels could adequately serve the developments proposed for the site.



Cultural Resources

There would be no impact on cultural resources listed or eligible for inclusion in the National Register of Historic Places as a result of the reuse or any of the proposed alternatives. Previous cultural surveys failed to identify any properties of prehistoric or historic archeological, architectural, or traditional cultural value that would qualify for inclusion in the National Register. Each reuse alternative includes the public use of Club Knoll while protecting its architectural integrity. Club Knoll is the only remaining original building on the site. It has recently been used for community and city sponsored functions, and was formerly used as the original club house for the golf and country club. There would be no impact to Club Knoll.

Aesthetics and Scenic Resources

Disposal would have no impact on aesthetics and scenic resources because there would be no change to the physical environment. The Maximum Capacity Alternative would have significant and mitigable adverse effects due to housing construction on Admiral's Hill. Although housing construction on Admiral's Hill is very doubtful, this impact is mitigable through careful design to reduce visual contrast. The other three reuse alternatives would have no significant adverse effects to aesthetic and scenic resources. All reuse alternatives would have the same nonsignificant adverse effects through minimal loss of mature trees in areas to be redeveloped. They would also introduce beneficial effects through enhancement of the Rifle Range Creek corridor, demolition of NMCO hospital and paved areas, and increase in public viewing opportunities. The visual qualities of Club Knoll would be preserved in all alternatives. There are no impacts anticipated from light and glare.

Biological Resources

The disposal of the NMCO property would not result in any impact to biological resources. Under the reuse alternatives, the removal of native vegetation surrounding Rifle Range Creek and its tributaries, including oaks, other native trees, and shrub and ground cover could cause significant and mitigable impacts. Those impacts could be mitigated by avoiding removal of such vegetation during construction and by restoring the riparian corridor surrounding the creek. In addition, care should be taken in locating staging areas for construction. Responsible habitat restoration planning, in coordination with the City of Oakland and other restoration specialists is recommended. To meet the requirements of Executive Order 11990 (Protection of Wetlands) the Navy will include a notification in the property deed that wetlands occur on the property in the riparian



(streamside) area. Rifle Range Creek restoration activities planned as a part of reuse would require compliance with Sections 1601 and/or 1603 of the California Fish and Game Code relating to streambed alteration, and to applicable provisions of Section 404 of the Clean Water Act (33 U.S.C. 1251-1387) relating to wetland habitats. Minor reuse impacts to nonsensitive vegetation (including minor losses of mature trees) and wildlife species and vegetation at NMCO would not be considered significant unless a project could disrupt the normal variability of the species or the entire community. Removal of more than minimal numbers of nonsensitive tree species protected under the City of Oakland tree ordinance could be significant and mitigable. Mitigation planning requires more specific site grading and development plans in order to account for the number of trees that could be affected.

No significant impacts are expected to occur from the potential removal of nonnative habitat on the facility because nonnative habitats do not provide habitat for native plant and wildlife species.

Water Resources

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Disposal would have no impact to water resources. No significant impacts to water resources would occur under any of the reuse alternatives. Site developers would be required to comply with all applicable laws, regulations, and standards protecting the quality of surface and ground water resources.

All reuse alternatives would result in a reduction in the paved area within the riparian corridor and in several other areas of the site. Less paved areas effectively increase infiltration, and beneficially decrease the volume of discharged storm water. Assuming continued storm water drainage to creek channels, a reduction in peak storm flows to the creek would have a beneficial impact downstream. However, the beneficial impact would not be enough to reduce the need for flood control improvements downstream.

Geology and Soils

Disposal would have no impact on geology and soils. For CEQA purposes only, significant and mitigable impacts associated with increased exposure of people and structures to earthquakes from the nearby Hayward Earthquake Fault could occur under any of the reuse alternatives. Mitigation for increased public exposure to earthquakes includes compliance with the Uniform Building Code, conduct of required geotechnical studies, and other site specific investigations to determine the extent of seismic upgrades needed for existing buildings to be reused, or to determine the seismic stability needed for new buildings to be constructed. Physical construction activities



associated with any of the reuse alternatives would not increase the likelihood of an earthquake.

Significant and mitigable impacts associated with slope stability could result from construction of any of the reuse alternatives. Mitigation is possible by 1) limiting development to slopes of 30 percent or flatter; 2) obtaining required grading permits and complying with their terms and conditions; and 3) reducing slope failure risk during construction by using accepted professional standards for construction activities.

Traffic and Circulation

Disposal would have no impact on traffic and circulation. alternatives would add traffic to area roadways. The impacts are generally expected not to be significant except at certain intersections near the project All significant impacts can be mitigated without acquisition of additional right of way. Twelve nearby intersections were analyzed for their potential to increase traffic delays (in seconds). Implementation of the Maximum Capacity Alternative would result in significant and mitigable delays at five intersections. Implementation of the Mixed Use Village Alternative would also result in significant and mitigable delays at five intersections. Implementation of the Single Use Campus Alternative would result in significant and mitigable delays at four intersections. Implementation of the Residential Alternative (Option 1) would result in significant and mitigable delays at two intersections, and implementation of the Residential Alternative (Option 2) would result in significant and mitigable delays at four intersections. Impacts at all of these intersections could be mitigated by installing traffic signals and restriping some lanes."

The Single Use Campus Alternative would generate the most estimated morning (AM) peak hour trips (1,679 trips), followed by the Maximum Capacity Alternative (1,043 trips), the Mixed Use village Alternative (676 trips), and the Residential Alternative (476 trips for Option 1, or 637 trips for the more dense Option 2). Both the Mixed Use Village and Residential (both options) alternatives would result in a lower number of estimated AM peak hour trips than occur under existing conditions (733 trips) because there are fewer morning commuters under both of these alternatives.

The Maximum Capacity Alternative would generate the most estimated evening (PM) peak hour trips (1,575 trips), followed by the Mixed Use Village (1,338 trips), the Residential Alternative (Option 2 – 1,109 trips), the Single Use Campus Alternative (1,089 trips), and the Residential Alternative (Option 1 – 887 trips).

The Single Use Campus Alternative would generate the greatest number of average daily trips (13,840 trips), followed by the Maximum Capacity Alternative (13,090 trips), the Mixed Use Village Alternative (10,070 trips) and the Residential Alternative, Option 2 (8,730 trips) and Option 1 (6,815 trips).

None of the reuse alternatives would result in significant impacts to public transit service. Additional transit service would not be needed because demand would not exceed seat capacity.

Maximum Capacity Alternative - Peak hour traffic for the Maximum Capacity Alternative is expected to increase traffic congestion at the Keller/I-580 southbound off-ramp, the Keller/Mountain Boulevard, Mountain Boulevard/I-580 northbound off-ramp, the Mountain Boulevard/Main Entrance, and the Mountain Boulevard/Golf Links Road intersections. Addition of traffic signals at these five locations and minor lane changes would improve the traffic operations and would mitigate significant impacts.

Mixed Use Village Alternative - Peak hour traffic for the Mixed Use Village Alternative is expected to increase traffic congestion at the Keller/I-580 southbound off-ramp, Keller/Mountain Boulevard, Mountain Boulevard/I-580 northbound off-ramp, Mountain Boulevard/Main entrance, and Mountain Boulevard/Golf Links intersections. Addition of traffic signals at five locations and minor lane changes would improve traffic operations and would mitigate significant impacts.

Single Use Campus Alternative - Peak hour traffic for the Single Use Campus Alternative is expected to increase traffic congestion at the Keller/I-580 southbound off-ramp, Keller/Mountain Boulevard, Mountain Boulevard/I-580 northbound off-ramp, and Mountain Boulevard/Main entrance intersections. Addition of traffic signals at four locations and minor lane changes will improve traffic operations and would mitigate significant impacts.

Residential Alternative - Peak hour traffic for the Residential Alternative (Option 1) is expected to increase traffic congestion at the Keller/I-580 southbound off-ramp and Keller/Mountain Boulevard intersections. Peak hour traffic for the Residential Alternative (Option 2) is expected to increase traffic congestion at the Keller/I-580 southbound off-ramp, the Keller/Mountain Boulevard, Mountain Boulevard/I-580 northbound off-ramp, and the Mountain Boulevard/Main Entrance intersections. Addition of traffic signals at four locations and minor lane changes would improve traffic operations and would mitigate significant impacts.



Air Quality

Disposal would have no impact on air quality. Traffic-related ozone precursor and PM₁₀ emissions would be significant and unmitigable under all reuse alternatives. Existing air quality planning programs would lead to regional air quality plans being modified to account for the adopted reuse. Building demolition/renovation and construction activities could generate substantial levels of dust. Construction-generated dust would be a significant and mitigable impact that can be reduced to less than significant levels by implementation of dust control measures identified in this EIS/EIR. Carbon monoxide levels at congested intersections would remain within state and federal standards for all reuse alternatives. Existing regulatory programs would adequately control asbestos and lead dust during building renovations for all reuse alternatives. Property disposal actions are exempt from Clear Air Act conformity requirements. Reuse plans are not federal agency actions, and thus are not subject to conformity requirements.

Noise

Disposal would not result in any noise impacts. Building demolition, new building construction, and roadway reconstruction will be the most significant and mitigable noise sources. Any occupied residential locations within 400 feet of construction sites may experience significant and mitigable impacts as temporary disturbance from construction noise. Construction noise impacts can be reduced by restricting most construction activity to normal daytime (7 AM to 7 PM) periods. Careful phasing of demolition, construction, and remodeling activities can also minimize the extent to which occupied areas are exposed to construction noise. Under all reuse alternatives, noise-sensitive land uses (e.g. housing) planned for the western side of the NMCO site would experience significant and mitigable noise levels from I-580 traffic. This impact could be reduced to less than significant levels through the use of berms/soundwalls, vegetation buffer areas, building configurations, or by placing sensitive land uses out of high noise areas.

Utilities

Disposal would have no impact on utilities. Significant and mitigable potable water supply impacts could result under the Maximum Capacity Alternative because projected use exceeds estimated historic annual potable water use. Mitigation to less than significant levels can be achieved by coordination between the City of Oakland and identified water supplier(s) and implementation of best management practices for water conservation. Impacts to potable water use under the Mixed Use Village, Single Use Campus, and Residential alternatives would be nonsignificant because they



would use less water than under preclosure conditions. No significant impacts are expected to landfill capacity, water distribution, sanitary sewer, stormwater drainage, electrical, natural gas, or telephone systems serving the NMCO site. Construction and demolition debris associated with reuse will not affect the Alameda County landfill over the short-term. Its long-term effects to landfill capacity are discussed under "Cumulative Impacts," below.

Hazardous Material and Waste

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Disposal would have no impact on hazardous material and waste. Negligible quantities of hazardous materials and waste are expected to be generated, handled or disposed due to operations after base closure. In addition, maintenance operations associated with caretaker status are not expected to generate, handle, or dispose of significant quantities of such materials. As reuse of NMCO is implemented, hazardous waste management would be controlled by the property recipients. Once the responsibilities of hazardous waste management are allocated to individual organizations, proficiency with those materials and spill response plans may be required by Resource Conservation and Recovery Act regulations (42 U.S.C. § 6901 et seq.). Business plans and risk management programs also may be required under state Health and Safety Code requirements. The presence of numerous independent operators/owners at NMCO would change the existing regulatory requirements and may increase the regulatory burden relative to hazardous waste management.

The Navy/Marine Installation Restoration Manual defines an Installation Restoration Program as an evaluation of health and environmental hazards at those naval activities associated with past hazardous materials, operations and waste disposal activities. However, no Installation Restoration Program sites exist at NMCO. No potential for adverse impacts from past hazardous spills or materials operations or activities is expected as no such sites have been found. No PCB-containing equipment or PCB release sites have been identified at NMCO. Minimal use of pesticides is expected at NMCO following closure. The types of pesticides are likely to be consistent with those currently in use. This would not be a significant impact.

It is likely that some of the buildings at the facility built before 1980 have some amount of lead-based paint. Housing constructed prior to 1978 will be inspected for lead-based paint hazards. Lead-based paint hazards in housing constructed prior to 1960 will be abated prior to transfer of the housing if it is to be reused. Results of lead-based paint surveys and lead warning statements will be included in any contract for transfer or lease. No mitigation is required.

Asbestos surveys have been performed at NMCO and friable asbestos has been removed or encapsulated. Additional removal of nonfriable asbestos may be required prior to building demolition. No mitigation is required.

All nuclear medical materials and wastes located at NMCO were removed prior to facility closure. The hospital complex and the former drug screening laboratory were the only generators of medical and biohazardous waste at NMCO. Following base closure, the medical clinic was closed and no wastes are being generated, stored or disposed. No ordnance is known to have been used, stored, or disposed at NMCO.

OTHER NEPA/CEQA CONSIDERATIONS

Certain additional topics are required to be included in an EIS/EIR by NEPA or CEQA. These include the identification of any unavoidable adverse impacts to the environment, the identification of any irreversible and irretrievable commitment of resources, an analysis of cumulative impacts, and an analysis of growth-inducing impacts. Cumulative impacts result from the incremental impact of an action (or project) when added to other past, present, and reasonably foreseeable future actions (or projects). Growth-inducing impacts are the ways in which the proposed action could foster economic or population growth.

Unavoidable Adverse Impacts of the Proposed Action

Significant unavoidable impacts associated with reuse of NMCO are the production of ozone precursor and PM₁₀ emissions associated with automobile emissions under all of the reuse alternatives, which exceed the Bay Area Air Quality Management District thresholds.

Short-Term Uses and Long-Term Productivity

The environmental productivity of NMCO historically has been related to its operation as a naval hospital, and the resulting physical conditions maintained. Proposed reuse could enhance long-term site environmental productivity through benefits achieved through disposal and reuse, including provision of jobs, housing and opportunities for various socioeconomic uses, maintenance of open space and biological resources, and maintenance of various infrastructure on the site.

Irreversible and Irretrievable Commitment of Resources

Implementation of the reuse plan would require considerable, but less than significant commitments of site resources for rehabilitation, demolition, and construction of proposed facilities. These commitments, however, would



not irreversibly commit the City of Oakland or any other entity to the land uses or physical changes made.

Growth-Inducing Impacts

Disposal of NMCO and subsequent implementation of a reuse plan could result in secondary growth in jobs, population, and housing, but would not result in significant growth-inducing impacts. Future growth and development both on and off site would be subject to subsequent development and permit applications and their required environmental review and disclosures.

Cumulative Impacts

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Disposal would not result in any direct cumulative impacts. Reuse and future private development projects in the region would result in cumulative impacts to several resources.

When considered in combination with projected traffic generated by the Leona Quarry project, cumulative peak hour traffic generation for each of the reuse alternatives is expected to result in three area intersections experiencing significant and mitigable level of service/delay impacts, including the Keller/I-580 southbound off-ramp, Keller/Mountain Boulevard, and Mountain Boulevard/I-580 northbound off-ramp. The installation of traffic signals at the affected locations along with minor lane changes (e.g., restriping) would mitigate the impacts to a nonsignificant level.

The combined effects of the reuse and the Leona Quarry project would result in small cumulative increases in traffic congestion at intersections near the NMCO site, but would not lead to significant carbon monoxide concentrations.

Reuse of NMCO plus other major developments in the region will result in a cumulative contribution to ozone precursor and PM₁₀ emissions in the Bay Area. Cumulative air quality issues in the San Francisco Bay Area are addressed through regional air quality plans that are expected to achieve and maintain the federal ozone, carbon monoxide, and PM₁₀ standards in the Bay Area. Because the more stringent state standards for ozone and PM₁₀ have not yet been achieved, these cumulative impacts have not been fully mitigated.

The generation of an estimated 71,346 tons of demolition waste represents a significant and mitigable impact to Alameda County landfill capacity. Over



the long-term, this volume of waste, in combination with waste from other sources, could reduce the County's ability to meet their integrated waste management plan waste diversion (e.g., source reduction, recycling, composting, etc.) goals designed to reduce the amount of waste that is placed at landfills. Implementation, over the long-term, of a construction demolition waste and debris diversion program, in coordination with implementation of County-planned diversion programs and landfill capacity expansion and/or acquisition, would mitigate this impact to a nonsignificant level.

Environmental Justice

The Executive Order on Federal Actions to Address Environmental Justice in Minority and Low-income Populations requires that "Each Federal agency shall analyze the environmental effects, including human health, economic and social effects, of Federal actions including effects on minority communities and low-income communities, when such analysis is required by the National Environmental Policy Act of 1969 (NEPA), 42 U.S.C. § 4321 et seq. Mitigation measures outlined or analyzed in an environmental assessment, environmental impact statement, or record of decision, whenever feasible, should address significant and adverse environmental effects of proposed Federal actions on minority communities and low-income communities."

If the mitigation measures associated with the community reuse alternatives are implemented as described in the EIS/EIR, no significant and adverse environmental impacts would disproportionately affect minority communities or low-income communities.



1.0 PURPOSE OF AND NEED FOR ACTION

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1.4	USE OF A	N INTEGE	RATED D	OCUM	ENT				1-11
1.5	RELATED	STUDIES					. · · .		 1-14
1.6	PUBLIC II	NVOI VEM	IENIT DR	CESS			 	-	1-1

PURPOSE OF AND NEED FOR ACTION

This environmental impact statement/environmental impact report (EIS/EIR) evaluates the potential impacts to the environment that may result from the Navy disposal and community reuse of the Naval Medical Center Oakland (NMCO) in Oakland, California. NMCO closed on September 30, 1996, pursuant to the Defense Base Closure and Realignment Act of 1990 (Part A of Title XXIX of PL 101-510 [DBCRA]), as amended. This document has been prepared in accordance with the National Environmental Policy Act (NEPA) of 1969, current California Environmental Quality Act (CEQA) statutes (California Public Resources Code [PRC] sec. 21000 et seq.) and implementing guidelines (California Code of Regulations [CCR] sec. 15000 et seq.), the Council on Environmental Quality (CEQ) regulations on implementing NEPA, Navy guidelines (OPNAVINST 5090.1B), and the 1990 Defense Base Closure and Realignment Act (Part A of Title XXIX of PL 101-510), as amended by the 1993 BRAC closure process (U.S. Navy 1994d). The federal action evaluated in this EIS/EIR is the disposal of federal surplus property and structures, while the local project evaluated is the proposed reuse plan for the NMCO site.

This Final EIS/EIR includes the information and analysis contained in the Draft EIS/EIR circulated for public review and comment. It also includes responses to those comments and revisions made in response to those comments.

1.1 PURPOSE AND NEED

The Department of Defense (DOD) has for the past several years been reducing its basing and staffing requirements to match current force structure plans. The identification of NMCO for closure is a result of that process.

Congressional action, under the provisions of the Defense Authorization Amendments and the Base Closure and Realignment Act of 1990 (Part A of Title XXIX of PL 101-510 [DBCRA]), established a process to close and realign military bases, including NMCO. The Base Closure Community Redevelopment and Homeless Assistance Act of 1994 ("the Redevelopment Act" PL 103-421) also addresses disposal methods associated with base closure. As part of this process, the Secretary of Defense submitted a consolidated list of recommended closure and realignment actions to a bipartisan commission appointed by the President and confirmed by the Senate. The Defense Base Realignment and Closure Commission (BRAC)

Commission) evaluated the recommendations and sent the findings to the President. The BRAC Commission recommended the closure of NMCO in its June 1993 report to President Clinton, who approved the recommendation in July 1993. The 103rd Congress accepted the closure decision in October 1993. This confirmation mandated Navy closure of the NMCO property and facilities. NMCO was closed on September 30, 1996.

Requirements of BRAC relating to the disposal of DOD property slated for closure include the following:

- Compliance with NEPA and related laws;
- Environmental restoration of the property as soon as possible with funds made available for such restoration;
- Consideration of the local community's reuse plan prior to disposal of the property; and
- Compliance with specific federal property disposal laws and regulations.

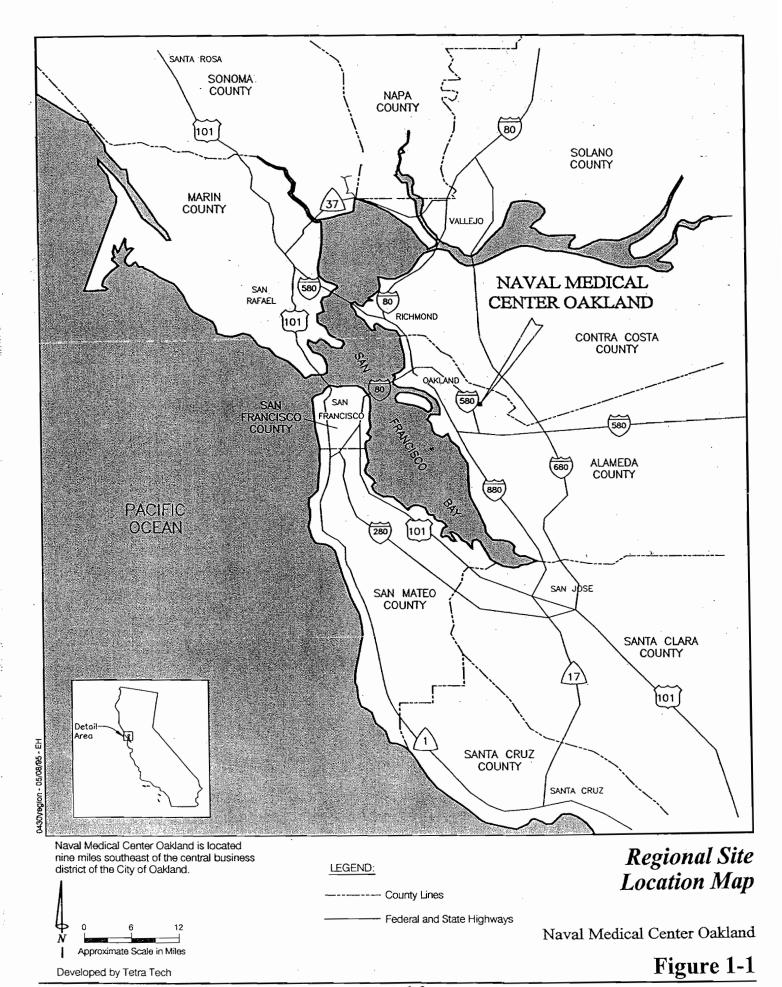
1.2 LOCATION AND HISTORY

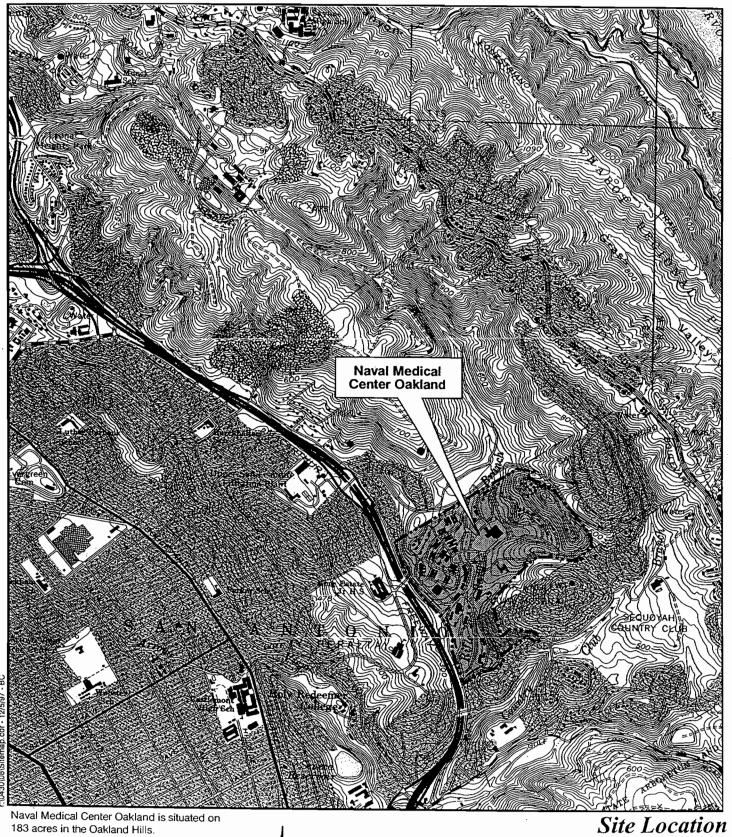
1.2.1 Location

NMCO is located in the East Bay Hills in central east Oakland (Figure 1-1). It is approximately nine miles southeast of the City of Oakland central business district and 17 miles east of San Francisco. It lies within the municipal limits of the City of Oakland in Alameda County (Figure 1-2).

The NMCO site is approximately 183 acres of gently to steeply sloping land. It is bounded on the south and east by residential development, on the north by Keller Avenue and residential development, and on the west by Mountain Boulevard. Immediately to the west of Mountain Boulevard lies US Interstate 580 (I-580), also known as the MacArthur Freeway.

NMCO is developed with approximately 89 structures. Club Knoll was built in 1927 as the clubhouse for a golf and country club. The main hospital, five modern buildings, 20 "vintage" wooden buildings, 24 miscellaneous structures, and 38 family housing structures make up the remainder of the buildings. Building use includes medical care, light industrial, residential, commercial, office, recreational, and educational.





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Source: USGS 7.5' quadrangle, Oakland East, California (1980)

Naval Medical Center Oakland

Figure 1-2

Approximate Scale in Feet

The Illustrative Future Land Use Map of the Oakland Comprehensive Plan land use element dated 1980 shows this area to be "Institutional or Governmental - Medical". The site is zoned as a R-30 One Family Residential Zone. The site is located entirely within the City of Oakland.

1.2.2 History

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Before 1942, the NMCO site was a golf course and country club. However, with the influx of casualties in 1941 from the war in the Pacific, additional medical facilities were required along the West Coast. The Oak Knoll Golf and Country Club site was chosen for the new hospital because of its accessibility to the Bay Area. The site was acquired through eminent domain in 1942. The "temporary" hospital was commissioned on July 1, 1942, as the "Oak Knoll Naval Hospital" with 25 redwood barracks and six ward buildings housing 204 beds. Construction kept pace with increasing casualties in the Pacific. In 1945, at the climax of the war, the hospital was caring for over 8,000 patients with a military and civilian staff of approximately 3,000.

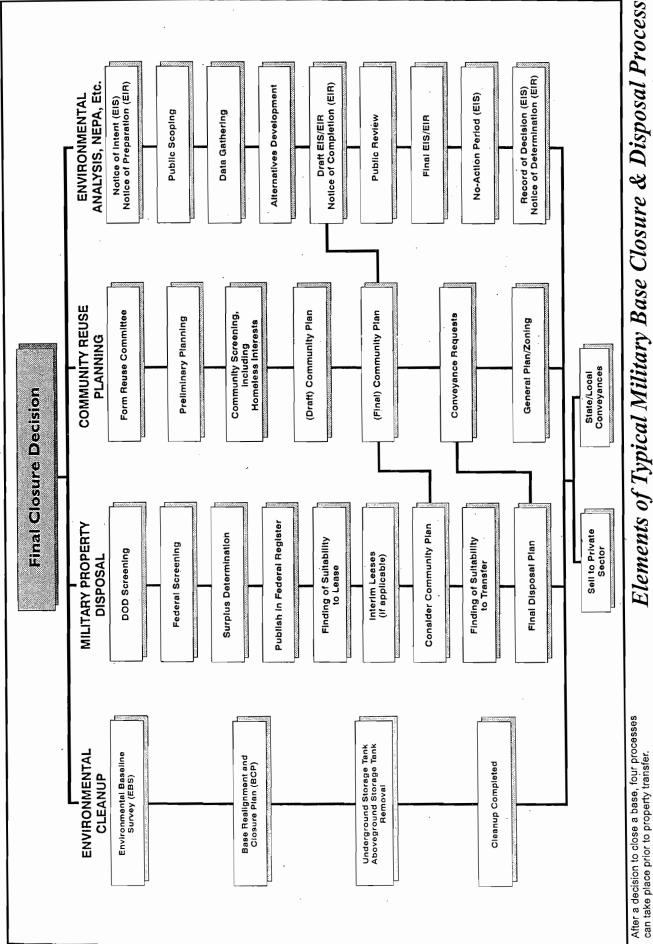
In 1950, the Navy's West Coast centers for care of amputees and neuropsychiatric patients were transferred from the 100-year-old naval hospital at the Mare Island Naval Shipyard facility to NMCO.

With demobilization of forces after World War II, both the activity and the population of the hospital declined, only to increase again during the Korean Conflict when the daily patient population averaged 2,500. This figure subsequently fell to a peacetime low of about 600 a day. The influx of casualties from the Vietnam Conflict began in 1965, and patient care activities increased once again. Most recently the NMCO provided medical support during the Gulf War and to the United Nations/U.S. forces implementing the peace in Bosnia (U.S. Navy 1984; Theresa Hughes & Associates 1994).

1.3 DISPOSAL OF NAVAL MEDICAL CENTER OAKLAND

The disposal of the federal surplus property at NMCO is the federal action considered in this EIS/EIR. The disposal process encompasses several actions, as outlined in Figure 1-3. The federal government is responsible for environmental cleanup (now completed) and disposal of the property, while the local community is responsible for preparing and implementing a reuse plan for the property. The following narrative describes the actions associated with disposal of the property. Predisposal and disposal actions are described separately. The description of predisposal actions includes

Naval Medical Center Oakland, California



After a decision to close a base, four processes can take place prior to property transfer.

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Source: Developed by Tetra Tech, 1995

potential caretaker activities, site cleanup operations, and interim leasing activities. The description of the disposal process includes a summary of the required federal and local screening processes established for determining future uses of the NMCO property.

1.3.1 Predisposal Actions

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Caretaker Activities

NMCO is in a temporary caretaker or inactive status under Navy control. The Navy property has been reassigned to the custody of the Navy's Engineering Field Activity West (EFA West) in San Bruno, California. The installation is closed, as mandated by law, with on-site Navy activity limited to security, maintenance, environmental restoration activities, and those actions associated with caretaker status of surplus properties. EFA West has established a Navy Caretaker Site Office at NMCO and is responsible for caretaker services until the property is transferred out of Navy ownership.

Remaining workers oversee security, maintenance, fire prevention and protection services, and environmental work, and include an administrative staff, a fire/security staff, and an environmental management staff. Caretaker employees would be affiliated with the Navy Caretaker Site Office or its contractors, and can be supported using a combination of Navy, contractor, and non-Navy staffing and funding.

Specific caretaker actions performed by on-site employees include the following:

- Inspection and maintenance of utility systems essential to security and telecommunications and of roads to avoid irreparable deterioration. Nonessential elements of utility systems and some entire systems, such as alternate systems, could be abandoned while still meeting caretaker requirements;
- Periodic landscape maintenance around unoccupied structures, as necessary, to protect the structures from fires and prevent nuisance conditions;
- Maintenance of property access to permit the service and maintenance of utility or infrastructure systems;
- Continuation of security patrols and maintenance of security systems, maintenance of perimeter fences, addition of interior fencing, if any, around hazardous waste sites, depending on the length of time the areas may remain in caretaker status;

- Maintenance of fire prevention and protection services;
- Continuation of land management programs, such as natural resource management, pest control, erosion control, and tree removal; and
- Minimal maintenance of structures and other facilities in a manner that facilitates interim use leasing or economical resumption of use.

Characterization and remediation of contaminated sites is the responsibility of the Navy and is completed. This EIS/EIR addresses the areas within NMCO that require characterization or remediation by describing the nature and extent of the contamination in an overall environmental context and by referring to the remedial status.

Interim Use Leasing

Interim use leasing of facilities at NMCO may occur prior to property transfer. The intent of interim use leasing is to create jobs, increase income, and continue the use of infrastructure. Interim use of facilities by a non-Navy entity prior to property transfer can be accomplished through leases, licenses, or permits.

The Military Leasing Act of 1956 (10 USC 2667), as amended, permits the Navy to implement interim leasing. Interim leases may be instituted if the proposed use would promote national defense or be in the public interest. Interim uses cannot preclude any future Navy options or irrevocably commit resources. Prior to any leasing or permitting, the Navy must complete a Finding of Suitability to Lease, which consists of an Environmental Baseline Survey describing the condition of the property and an appropriate NEPA document describing the potential impact on the environment of the leasing activity.

1.3.2 Disposal Process

The disposal process for NMCO is regulated by the Base Closure Community Assistance Act of 1993 (Subtitle A of Title XXIX of PL 103-160), as amended by the 1993 BRAC closure process; the Federal Property and Administrative Services Act of 1949, as amended; the Surplus Property Act of 1944; and the Federal Property Management Regulations. The recent Base Closure Community Redevelopment and Homeless Assistance Act of 1994 ("the Redevelopment Act" PL 103-421) also addresses disposal methods associated with base closure. The Navy must also comply with the 1994 Defense Authorization Act and other laws and regulations, including USC Title 10 and Navy regulations, affecting the disposition of real property.

Property Screening Process

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The Navy is responsible for the screening and disposal of real and personal property that has been declared excess to the needs of the Department of the Navy as a result of the closure. The disposal process contains several steps, beginning with DOD and federal agency screening whereby the excess property is offered to other DOD and federal agencies. Following completion of this initial screening, if no DOD or federal agency officially expresses an interest in the property (all or portion), it is then declared "surplus" to the federal government. Consideration is then given to local homeless providers for use of federal surplus property on NMCO, in accordance with PL 103-421. Following completion of the federal and homeless screening, the remaining federal surplus property is available for transfer to state, local, and private entities. The screening process for NMCO is described below.

<u>DOD Screening and Federal Agency Screening</u>. The first step in the real estate screening process is to offer excess property to other DOD agencies and then to other federal agencies. Under the 1994 Defense Authorization Act, DOD and federal screening should be completed within six months after the installation's closure date is approved.

The Navy has completed the DOD and federal screening process for NMCO. Two federal agencies within the U.S. Department of Justice, the Federal Bureau of Prisons and the Immigration and Naturalization Service, expressed interest in property at NMCO. These agencies subsequently withdrew their request.

Homeless Assistance Screening. The Base Closure Community Redevelopment and Homeless Assistance Act of 1994 (PL 103-421) (Redevelopment Act) established revised procedures for addressing the needs of the homeless as an alternative to the McKinney Act (42 U.S.C. § 11411 as implemented by PL 101-510, PL 100-526, and PL 103-160). The revised procedures require that the needs of the homeless be balanced with the economic development and other development of the base in the community's reuse planning process. The City of Oakland ("City") was recognized by the Secretary of Defense as the local redevelopment authority (LRA). The City, in turn, designated the Oakland Base Reuse Authority (OBRA) as the LRA for all base conversions in the City.

In March 1995, OBRA recognized the Alameda County Base Conversion Homeless Collaborative (ACBCHC) as the sole representative for all homeless assistance providers in the county under the Redevelopment Act. The ACBCHC (ACBCHC 1995) submitted a notice of interest to OBRA listing properties at NMCO for homeless assistance. OBRA and the



ACBCHC and community representatives subsequently negotiated a homeless assistance submission (plan) for approval by the US Department of Housing and Urban Development (HUD) and the ACBCHC agreed to the terms of the plan in lieu of obtaining real property at NMCO. The OBRA reuse plan, including the homeless assistance plan, was submitted to HUD in August 1996. The OBRA plan proposed to provide \$2,000,000 to ACBCHC for use in the provision of new homeless services in Alameda County. The OBRA plan also proposed providing NMCO personal property such as furniture and equipment to support homeless services, and proposed a goal of hiring homeless persons to fill 15 percent of the future positions hired in support of the use or development of NMCO.

HUD (HUD 1996) advised OBRA in September 1996 of recommended modification to OBRA's homeless assistance plan. OBRA (OBRA 1997) submitted a revised homeless assistance plan on 17 July 1997. On 24 September 1997, HUD approved OBRA's revised homeless assistance plan (HUD 1997b).

Methods of Conveyance

Following base closure, environmental remediation, and completion of NEPA requirements, the Navy may transfer property to other federal agencies or convey property to state, local, or private entities. Federal law provides for a variety of conveyance methods to implement Navy property disposal decisions after completion of the NEPA process.

Transfer to Another Federal Agency. The Navy could transfer the real property to another federal agency.

<u>Public Benefit Discount Conveyance</u>. State or local government agencies or other qualified entities may obtain property at less than fair market value when sponsored by a federal agency for uses that would benefit the public. Public benefit conveyances typically restrict uses to airports, ports, prisons, educational facilities, recreational facilities, public health, wildlife conservation, and historic monuments and memorials.

<u>Negotiated Sale</u>. State and local government agencies or other qualified entities may request a sale at fair market value with negotiation of the payment terms.

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Economic Development Conveyance. Economic development conveyances are mechanisms to convey property to an LRA at or below fair market value using flexible payment terms for the purpose of economic development and job creation. To qualify for this conveyance, the LRA must submit a request to the Department of the Navy describing its proposed economic

development and job creation program. The conveyance mechanism further requires that the Navy prepare a statement to explain why fair market value was not received.

As part of the disposal process, the City of Oakland was recognized by the Secretary of Defense as the LRA. The City, in turn, designated the OBRA as the LRA for all base conversions in the City. This authority came through the Oakland Base Reuse Authority Joint Powers Agreement of March 1995, an agreement between the City of Oakland, the Oakland Redevelopment Agency, and the County of Alameda. In this role as LRA, OBRA has developed a reuse plan for NMCO.

Pursuant to the Joint Powers Agreement, the City of Oakland reserves and retains its land use, zoning, and building authority. Therefore, the City is the lead agency for CEQA purposes and the decision making body with respect to any land use approvals (general plan amendments, rezoning, etc.) that the reuse plan may require.

<u>Competitive Sale</u>. Sale to the public would occur through either an invitation for bids or an auction.

1.4 USE OF AN INTEGRATED DOCUMENT

Use of an integrated EIS/EIR is encouraged by both NEPA and CEQA. CEQA and its guidelines have numerous provisions allowing state and local agencies to use an EIS/EIR as a substitute for an EIR. These provisions were reinforced in 1994 by the adoption of California legislation (Assembly Bill [AB] 3774) that specifically authorizes a lead agency to use an EIS/EIR as the EIR for a federal base reuse plan, provided public involvement is at least as substantial as that required by CEQA.

1.4.1 Document Purpose

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This integrated EIS/EIR has been prepared to assess the potential environmental impacts of NMCO property disposal and reuse, and thereby to fulfill requirements of NEPA and CEQA. Decisions regarding which bases to close, relocate, or realign were exempted by Congress from NEPA documentation requirements under DBCRA (PL 101-510, Section 2905). However, under NEPA, the Navy must consider the direct environmental effects of reasonable alternatives for the disposal, and indirect impacts from the reuse of surplus property at closing bases.

For purposes of the Navy NEPA analysis, direct environmental consequences or impacts are those associated with Navy disposal of surplus property. The No Action Alternative and indirect impacts are associated



with community reuse of Navy surplus property. The Navy's roles and responsibilities for disclosing indirect reuse-related environmental impacts is to address reasonably foreseeable impacts. However, property reuse will occur after it is conveyed from federal ownership and in support of local reuse actions. Implementation of mitigation measures for reuse environmental impacts is a local responsibility and not the responsibility of the Navy. The City of Oakland is required by CEQA to evaluate the environmental effects of implementing a reuse plan.

This EIS/EIR meets both NEPA and CEQA content requirements. As required under NEPA, the disposal action has been identified, the potential impacts of each alternative have been analyzed at equal levels of detail, and socioeconomic impacts have been identified.

The Navy will use the EIS/EIR in its consideration of disposal options for surplus property and structures at NMCO. The Navy will issue a Record of Decision (ROD) describing the final disposal plan after consideration of the environmental impacts identified in this EIS/EIR. Following disposal, no additional NEPA review by the Navy will be required.

The City of Oakland would certify the EIS/EIR and use the document in its consideration of any necessary amendments to its general plan, rezoning, adoption of a specific plan, other specific area plan, development agreements, or any other discretionary approvals. Should any approvals by the City of Oakland include significant unavoidable environmental impacts, the City of Oakland would be required to adopt a statement of overriding considerations as required by CEQA. As required under CEQA, an environmentally superior reuse alternative is identified in Chapter 2.

For purposes of CEQA, this joint EIS/EIR document is a program EIR. A program EIR is prepared for an agency program or series of actions that can be characterized as one large project. Typically, this includes actions that are closely related either geographically or temporally. Use of a program EIR allows a public agency to characterize the overall program as the "project" being approved at that time. The agency may dispense with further environmental evaluation for later approvals or activities as long as the analysis adequately discloses potential impacts in the program EIR. The EIS/EIR is intended to provide decision makers, responsible agencies, and the public with adequate information on the potential range of environmental impacts to make decisions on reuse alternatives at a level of detail consistent with reuse planning efforts to date.

1.4.2 Document Organization

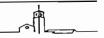
Contents of an EIS under NEPA and an EIR under CEQA are similar and generally parallel one another. NEPA and CEQA differ in their level of description and evaluation of alternatives. NEPA requires a consistent level of detail for a federally proposed action and each alternative. CEQA allows a less detailed description and analysis of alternatives than that conducted for the proposed project. Under NEPA, socioeconomic impacts may be considered potentially significant. The identification of significant socioeconomic impacts are not strictly required under CEQA. CEQA contains some mitigation monitoring requirements not included under NEPA. This EIS/EIR is organized as follows.

Chapter 1, Purpose of and Need for Action, provides an overview of the reasons for Navy disposal and community reuse of NMCO. It includes a description of the EIS/EIR content and approach, a description of the decision process for disposal of NMCO, and a description of the disposal process and of the public agency involvement process used to solicit input on the potentially significant environmental impacts.

Chapter 2, Alternatives, Including the Proposed Action, provides a description of the proposed Navy disposal action and a summary of the community planning process leading to formation of the community reuse alternatives. In addition to Navy disposal, this EIS/EIR analyzes four community reuse alternatives: 1) The NMCO Reuse Plan, or preferred alternative, described as the Maximum Capacity Alternative containing an executive (9-hole) golf course and driving range, a range of housing units, active recreation, public benefit conveyances as health and social services and cultural facilities, and professional offices; 2) a Mixed Use Village Alternative, with retail, community facilities, recreation facilities, and an office, live-work, and residential mixed-use zone; 3) a Single Use Campus Alternative for occupancy by either an educational institution, a research and development facility, or similar-sized campus; and 4) a Residential Alternative. In addition, a No Action Alternative is described.

Chapter 3, Affected Environment, presents a description of the existing environmental and socioeconomic conditions that may be affected by the proposed action at NMCO. The setting discussion also includes identifications of the regions of influence (ROI) applicable to each resource area.

Chapter 4, Environmental Consequences, describes the potential environmental consequences, or impacts, of the disposal and reuse of NMCO. Impacts are described at a level of detail consistent with the level of detail provided in the reuse plan. For each impact a determination is



made as to whether it would constitute a significant impact, a less than significant impact, or beneficial impact. Direct and indirect impacts are identified. Mitigation measures are identified for any impact determined to be significant and mitigable. The purpose of this chapter is to provide the public, interested agencies, and decision makers with a clear understanding of the environmental ramifications of disposal, and of adopting (or not adopting) the reuse plan or any of its alternatives.

Chapter 5, Other Considerations Required by NEPA/CEQA, addresses seven other topics required by state or federal regulations. These include identification of any unavoidable adverse impacts to the environment (NEPA/CEQA), short-term uses and long term (NEPA/CEQA) identification of irreversible and irretrievable commitments resources (NEPA/CEQA), analysis of cumulative (NEPA/CEQA), and analysis of growth-inducing impacts (CEQA). Any potential disproportionate impacts on low-income or minority populations are also described, in accordance with Executive Order 12898 on Environmental Justice (NEPA). Effects found not to be significant are identified (CEQA).

Chapters 6 through 10 provide the reader with background information on consultation with interested and responsible agencies, a list of references, a list of preparers, an index/glossary, and distribution list.

Technical appendices are presented under separate cover as Volume II. They include supporting information for the public involvement process, the sensitive species survey, site photographs supporting the aesthetics and scenic resources analysis, site utilities diagrams, the site tree study, the Alameda whipsnake survey, and Alameda County Congestion Management Agency countywide transportation demand model traffic volume analysis.

1.5 RELATED STUDIES

The reuse planning process for NMCO will occur over several years. During this process, additional environmental and planning studies might be required for property leases and other land use proposals. These related studies are discussed below.

1.5.1 Related NEPA/CEQA Documentation

For purposes of CEQA, this EIS/EIR is intended to address the potential impacts of reuse of NMCO at a programmatic level. The City of Oakland intends to use this program EIS/EIR for all project approvals required to implement the reuse plan. Such approvals may include, but are not limited to subsequent project-level environmental review that may be required

under the California Environmental Quality Act for as yet unforeseen developments and impacts that may not have been adequately covered by this document. However, no additional NEPA review by the Navy will be required following disposal.

1.5.2 Environmental Restoration Studies

The Base Realignment and Closure Cleanup Plan (BCP) for a closing base provides the status of ongoing environmental restoration and associated compliance programs. The BCP for NMCO (U.S. Navy 1994b) was completed on March 8, 1994, and was updated with an Environmental Business Plan in March 1996 (US Navy 1996). The BCP provides an evaluation of the status of various cleanup programs and summarizes the compliance items that require further evaluation and implementation. The document is scheduled for update annually or as necessary in response to the changing conditions and level of completion of these restoration programs until full restoration is complete.

DOD policy requires the preparation of an environmental baseline survey prior to selling, leasing, or transferring real property. The environmental baseline survey also is used to meet the requirements of the Community Environmental Response Facilitation Act (PL 102-426). The Final Environmental Baseline Survey for NMCO was completed in December 1994 (U.S. Navy 1994c) and documented the environmental conditions of real property at NMCO and adjacent properties. NMCO property was classified into one of seven BRAC types based on known storage, release, disposal, or migration of hazardous materials. Uncontaminated property also was identified in this process.

1.6 PUBLIC INVOLVEMENT PROCESS

The EIS/EIR process is designed to involve the public in federal and local decision making. Opportunities to comment on and participate in the process are provided during preparation of this EIS/EIR, as outlined in the following sections. Comments from agencies and the public have been solicited throughout the process to help identify the primary issues associated with NMCO disposal and proposed reuse. The public notification process is intended to include the full spectrum of City of Oakland residents and community organizations. Chapter 10 includes the distribution list for the EIS/EIR. Appendix A provides copies of relevant public involvement materials, including a copy of the current mailing list for the EIS/EIR.

Methods to involve the public in the EIS/EIR process have included the following:



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- Conducting a public scoping meeting to solicit comments and to identify issues of concern;
- Conducting a public meeting to receive comments on the Draft EIS/EIR and providing the required 45-day public comment period;
- Providing copies of the Draft EIS/EIR at local libraries and the Oakland City Hall;
- Publishing public notices of hearings, mailing public announcements, and coordinating media coverage, press releases, and feature articles; and
- Creating and updating an extensive mailing list to disseminate information. More than 1,300 letters were mailed to agencies and the community for the public scoping meeting.

The goal for public involvement, under Executive Order 12898 regarding Environmental Justice, is to include all affected low-income and minority populations in the public participation process. To achieve this, the following actions were implemented:

- Conducted public meetings at Club Knoll and NMCO with easy access by car or public transit;
- Notified and requested comments from several neighborhood associations and minority organizations that may be affected by or interested in the proposed action; and
- Announced the public meetings in newspapers with a wide circulation and encouraged written comments for those unable to attend the meetings.

1.6.1 Scoping Process

The purpose of scoping is to identify potential environmental issues and concerns regarding the disposal and reuse of NMCO. The scoping process for the NMCO Disposal and Reuse EIS/EIR included notification in the Federal Register, newspaper ads, a public meeting, and direct mail. The City of Oakland, the Navy, and the EIS/EIR consulting team considered comments received during the scoping process in determining the issues to be evaluated in the EIS/EIR. The main issues identified during the scoping process were impacts to public services and utilities, transportation, and biological resources. These issues are addressed in Chapters 3, 4, and 5.

The public was notified of the Navy's intent to prepare this EIS/EIR by a notice of intent published in the September 12, 1995, issue of the Federal Register (Vol. 60, No. 176). An announcement of the Navy's intent to prepare this EIS/EIR was also sent to the California Office of Planning and Research. The City of Oakland filed a notice of preparation with the California Office of Planning and Research on September 12, 1995, to prepare a joint EIS/EIR (State Clearinghouse Number 95103035). Both the notice of intent and notice of preparation were sent to the California State Clearinghouse for distribution to state agencies for their review and comments.

To initiate the scoping process, press releases were sent to the news media and a public notice was published in two local newspapers, including the Oakland Tribune and the San Francisco Chronicle, on Sunday, September 17, 1995 and Monday, September 18, 1995. Scoping letters, with an attached summary of the draft reuse plan and a description of alternatives and environmental issues to be considered in the EIS/EIR, were mailed to a total of 1,300 public agencies, public interest groups, and individuals either known or thought to have an interest in the disposal and reuse of NMCO. The scoping letter invited written comments and announced that a public scoping hearing would be held in the City of Oakland on September 27, 1995. The scoping hearing was attended by approximately 48 individuals, including agency representatives and members of the public. Issues identified through the scoping process are summarized below.

1.6.2 Summary of Scoping Issues

During the EIS/EIR scoping process, which ended October 12, 1995, 15 letters were received from members of the public, interested groups, and federal, state, and local agencies. In addition, nine speakers, representing either themselves or a local homeowners association, contributed comments regarding the scope of the EIS/EIR. These comments identified several issues and concerns that are summarized below. Many of these concerns have been incorporated into the EIS/EIR analyses. Because this document is an environmental evaluation of property disposal and reuse alternatives, comments on the choice of land uses developed for the OBRA-approved reuse plan (NMCO Reuse Plan) itself are not addressed in the EIS/EIR, except as they have bearing on environmental issues. Following each issue statement, a response is provided that indicates how the issue is treated in the EIS/EIR evaluation. Detailed summaries of the scoping concerns are included in Appendix A.

Police and Fire Protection, Medical Care Response Times - Many commenters expressed concern regarding the quality of police and fire



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protection and medical care response times associated with implementation of the reuse plan.

Response. These issues are discussed in Sections 3.3 and 4.3 of this document.

<u>Cultural Resources</u> - Several commenters expressed their desire to preserve Club Knoll without compromising its appearance or integrity, and requested that the impacts to Club Knoll be analyzed.

Response. These issues are discussed in Section 4.4 of this document.

<u>Transportation</u> - Commenters expressed the concern that some reuse land uses may create traffic and parking problems or exacerbate existing traffic problems. Commenters requested analysis of traffic congestion, public transportation, and parking impacts. Some respondents requested information regarding the availability of public access points on the site.

The State of California Department of Transportation recommended a complete traffic study to assess impacts of the proposed project and alternatives on State Routes 13 and 580, and on affected streets and intersections. The Department stated that the analysis should include all approved and proposed projects in the area, including those projects not under the jurisdiction of the lead agency.

Response. Traffic and circulation issues are discussed in Sections 3.9, 4.9, and 5.5 of this document.

<u>Utilities</u> - Respondents, including the East Bay Municipal Utility District, expressed concern regarding reuse considerations for water conduits, a power plant, water storage tanks, and local streets.

The EPA commented that the EIS/EIR should include a survey of regional water supplies available to the NMCO and an analysis of the net increase or decrease in water demand as a result of the proposed reuse.

Response. Water supply, transmission, storage, wastewater, solid waste management, and power issues are addressed in Sections 3.12, 4.12, and 5.5 of this document.

Air Quality/Noise - The EPA commented that the EIS/EIR should discuss the current air quality (attainment) status of the Bay Area Air Quality Management District and the proposed project's impacts on that status. Some residents were concerned about the dust and noise that could result from construction activities associated with reuse plan implementation.

Response. These issues are addressed in Sections 3.10, 4.10, and 4.11 of this document.

Wetlands and Water Quality - Several commenters expressed a desire to retain the existing riparian corridor as part of reuse. The EPA requested that the Draft EIS/EIR consider alternatives that will preserve wetland resources, and include maps, text, and tables that feature areas occupied by wetlands, aquatic systems, and nonwetland riparian habitat, and that direct, indirect, and cumulative impacts to these resources be fully described. EPA commented that the Draft EIS/EIR should ensure that the proposed disposal and reuse would not affect the DOD's obligation to meet water quality standards.

Response. The existing riparian corridor is retained in all reuse alternatives to a width of 50-feet, as discussed in Chapter 2. Wetlands issues are discussed in Sections 3.6 and 4.6 of this document. Water quality issues are discussed in Sections 3.7 and 4.7 of this document because they relate to water resources. Water treatment is discussed in Sections 3.12 and 4.12.

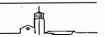
Biological Resources - EPA commented that the Draft EIS/EIR should discuss how protected and endangered species may be affected by the proposed action.

Response. Protected and endangered wildlife species are discussed in Sections 3.6 and 4.6 of this document. Appendix B of this document includes a sensitive species survey of the site conducted in the spring of 1995. Appendix E includes a study of heritage trees that may be affected by reuse.

Hazardous Materials - The EPA commented that the Draft EIS/EIR should identify NMCO's hazardous materials storage, disposal, and containment history as relevant to the siting of future uses under the proposed lease and redevelopment action. They stated that any plans to remediate contaminated areas or to demolish or disturb facilities or areas with existing contamination should be discussed in detail.

The California Department of Toxic Substances Control commented that the Navy should submit a remedial action plan based on Section 25350, subpart F of the National Oil and Hazardous Substances Pollution Contingency Plan if it becomes necessary to remediate hazardous waste at NMCO.

Response. These issues are discussed in Sections 3.13 and 4.13 of this document.



NEPA Requirements - EPA commented that nearby residential areas should be documented and described in the Draft EIS/EIR, and that the document should determine the potential magnitude of redevelopment-related effects on such areas.

EPA commented that the Draft EIS/EIR should include an analysis of potential cumulative effects in the NMCO's region of influence. EPA also stated the importance of mitigation to avoid, minimize, rectify, or compensate for significant adverse environmental impacts.

Response. Residential areas are documented and described in Section 2.1.1 and Section 3.1.2. Direct, indirect, and cumulative impacts and mitigation measures are discussed in Chapters 4 and 5.

1.6.3 Public Review

Public review is an important part of the NEPA and CEQA process. Public review periods are typically 45 days under NEPA and CEQA. Responses to comments received on the Draft EIS/EIR are provided in the Final EIS/EIR. NEPA provides for a 30-day no-action review period after preparation of the Final EIS.

Draft EIS/EIR

The public was invited to review and comment on the Draft EIS/EIR. Public notices were mailed to those on the mailing list and press releases were furnished to the local news media. A notice of completion (CEQA) was filed with the Governor's Office of Planning and Research, State Clearinghouse, the notice of availability (NEPA) was published in the Federal Register on October 11, 1996 and the Notice of Public Hearing was published in the Federal Register on October 24, 1996. The Draft EIS/EIR was circulated for public and agency review from October 11, 1996 to November 27, 1996. This public comment period (required to be at least 45 days) provided an opportunity for the public to review the issues addressed in the impact analysis and to offer comments on any aspect of the process. The Draft EIS/EIR distribution list is included in Appendix A of Volume II.

A public hearing was held on November 13, 1996 to formally receive verbal and written comments on the Draft EIS/EIR. The location, date, and time of the meeting was announced in the media and was included in the transmittal letter accompanying the Draft EIS/EIR. Approximately 30 individuals from the public attended this hearing and 12 individuals presented oral comments. A transcript of their comments and responses to the comments is provided at the end of Volume I of the Final EIS/EIR.

California Environmental Quality Act Recirculation of New Significant Information

A Bay Area Air Quality Management District comment on the Draft EIS/EIR recommended including an estimate of fine particulate matter (PM₁₀) for each of the alternatives in the Final EIS/EIR. After this analysis was completed, the City of Oakland evaluated this increase in PM₁₀ emissions and concluded that it is a significant, unavoidable impact, and represented significant, new information under CEQA and required recirculation for public comment prior to inclusion in the Final EIR. Therefore, this new significant information was recirculated for a 45-day comment period under CEQA starting September 21, 1997 and ending November 4, 1997. Responses to comments on CEQA recirculation are included in the comments and responses section. Four comment letters were received and none recommended changes to the PM₁₀ analysis. Therefore, the PM₁₀ analysis as recirculated has been incorporated into the Final EIS/EIR.

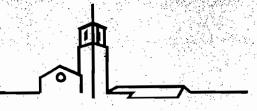
In addition, a further review of the environmental document identified another threshold that has been exceeded that was not identified in the previous document. Specifically, it was discovered due to an arithmetic error, the calculation of air emissions under the Maximum Capacity Alternative was higher than previously estimated. Prior to recalculation, PM₁₀ emissions and nitrogen oxide (NO_x) emissions were already above the significance threshold and could not be mitigated. However, reactive organic compounds (ROG) for the Maximum Capacity Alternative were below the significance threshold in the Draft EIR, but now exceed the threshold. After the air quality analysis was corrected, the City of Oakland evaluated this increase in ROG emissions and concluded that this would be a significant and unavoidable impact under CEQA. This new impact required recirculation for comment prior to inclusion in the Final EIR. Therefore, this new significant information was recirculated for a 45-day minimum comment period under CEQA starting January 22, 1998 and ending March 12, 1998. Responses to comments on the CEQA recirculation are also included in the comment and responses section. Two comment letters were received and neither recommended changes to the air quality analysis. Therefore, the air quality analysis as recirculated has been incorporated into the Final EIS/EIR.

Final EIS/EIR

This Final EIS/EIR incorporates and responds to comments received on the Draft EIS/EIR. Copies of the comment letters regarding the Draft EIS/EIR and responses to these letters are in this Final EIS/EIR. The distribution list for this Final EIS/EIR is in Section 10 of Volume I.

3.3

As required under NEPA, there will be a 30-day waiting period after the Final EIS/EIR is published. During this period, the public may comment on the adequacy of responses to comments and the Final EIS. After that time, the Navy will issue a Record of Decision. The Oakland Redevelopment Agency, City of Oakland, and Oakland Base Reuse Authority cannot take final action on the project without review, consideration and certification (as appropriate) of the Final EIS/EIR.



2.0 ALTERNATIVES, INCLUDING THE PROPOSED ACTION

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2.1	DEVELOPMENT OF ALTERNATIVES	2-1
		2-1
2.2	COMMON ELEMENTS OF ALTERNATIVES	2-5
2.3	DESCRIPTION OF ALTERNATIVES	2.9
2.4	COMPARISON OF ALTERNATIVES	2-27
2.5	ENVIRONMENTALLY PREFERABLE/ENVIRONMENTALLY SUPERIOR	N.S.
	ALTERNATIVE	2-56
2.6	ALTERNATIVES ELIMINATED FROM DETAILED REVIEW	2-60

2. ALTERNATIVES, INCLUDING THE PROPOSED ACTION

This chapter describes the Oakland Base Reuse Authority (OBRA) planning process, and the alternatives considered in this Environmental Impact Statement/Environmental Impact Report (EIS/EIR). Alternatives that were considered but eliminated from detailed review are also described. The four reuse alternatives analyzed in this EIS/EIR are the Maximum Capacity Alternative, the Mixed Use Village Alternative, the Single Use Campus Alternative, and the Residential Alternative. In addition, a No Action Alternative is analyzed, as required by the National Environmental Policy Act (NEPA) and the California Environmental Quality Act (CEQA).

The Mixed Use Village, Single Use Campus, and Residential Alternatives are based on the Oak Knoll preliminary alternatives report (Theresa Hughes and Associates 1995). The densities in the Residential Alternative have been made consistent with local residential zoning for environmental analysis purposes. The Maximum Capacity Alternative was initially provided to the Navy by OBRA in December 1995 for use in the EIS as OBRA's estimate of likely site development. For the EIS/EIR analysis, the Maximum Capacity Alternative was adjusted to incorporate modifications when OBRA adopted its reuse plan for NMCO on June 10, 1996. OBRA published the NMCO Final Reuse Plan, incorporating the June 10, 1996 revision, in August 1996 (OBRA 1996).

2.1 DEVELOPMENT OF ALTERNATIVES

2.1.1 OBRA Reuse Planning Process

The reuse planning process for NMCO began with formation of the Oakland Base Closure/Conversion Task Force (OBC/CTF) in November 1993 by the Oakland City Council, immediately after the 1993 Base Realignment and Closure (BRAC) list was accepted by President Clinton. The OBRA was established by a Joint Powers Agreement among the City of Oakland, Oakland Redevelopment Agency and the County of Alameda in March 1995. The OBRA was designated to be the local redevelopment authority for the development of a reuse plan for NMCO. The OBC/CTF recommends actions to OBRA that will minimize the adverse economic effects of base closure to the region. The city is the lead agency for CEQA purposes. The City of Oakland is also the decisionmaking body for land use approvals (e.g. discretionary permits, such as general plan amendments and rezoning, etc) that may be needed as part of the approvals process for the alternative ultimately selected as the reuse plan (i.e. NMCO mix of land uses to be implemented).

Since OBRA is the authority for formulating a reuse plan for NMCO, it has recruited the participation of several interested parties to help with plan development. OBRA and its subcommittees consist of a range of elected officials, city and agency staff, and citizens. The voting members of OBRA include five City of Oakland representatives and four county-wide representatives, most of whom are elected officials. Local and regional agency staff, City of Oakland staff, and representatives of neighborhood associations are represented on four subcommittees of OBRA. These subcommittees are titled "Housing and Homeless," "Employment and Social Impacts," "Land Reuse," and "Legislation and Finance." The mission statement, which refers to NMCO as "Oak Knoll," was adopted by OBRA in March 1995, with the following goals:

- To provide a comprehensive plan for the reuse of Oak Knoll;
- To provide a plan for retaining and placing City of Oakland workers at Oak Knoll and other bases in the region;
- To work with the East Bay Conversion and Reinvestment Commission and other regional bodies to coordinate planning efforts throughout the region;
- To develop and implement mitigation measures for the social impacts of base closures;
- To serve as a forum for neighborhood and local response to base closures and reuse and to develop a community consensus on a reuse plan compatible with the neighborhood, the City of Oakland, and the region; and
- To insure that the proposed uses will lend diversity to the area and will, to the extent feasible, provide needed medical, education, housing, employment, and open space opportunities.

During the reuse planning process, OBRA has held several meetings wherein these voting members have considered various mixes of land uses intended to meet these goals. Some of those meetings concluded with the OBRA members voting either to eliminate some mixes of land uses or to continue to consider other mixes of land uses.

During preparation, evaluation, and voting regarding land uses mixes to be included in preliminary alternatives, all meetings of the OBRA subcommittees were open to the public and were advertised on local

television and in the local newspaper. Participation in the subcommittees was open to anyone who wanted to contribute time and ideas. As of August 1995, approximately 700 individuals participated in five open meetings that were held at NMCO. Monthly public meetings were convened, and more public participants heard regarding their desires for future land uses at the NMCO site. These meetings focused on familiarizing everyone with the site, recording community goals and concerns, sharing data compiled by the consultant team, and developing community based land use concepts. These meetings were broadcast on the local television channel, KTOP. September 25, 1995 OBRA meeting, in which the preliminary alternatives were presented, was videotaped and shown three times on KTOP. All materials, including reports, videos, and other informational items, were made available to the public. The neighborhood associations in the immediate area surrounding NMCO played a substantial role in developing the alternatives. Participating neighborhoods adjacent to or near NMCO are shown in Figure 2-1. An umbrella group for the neighborhoods, Oak Knoll Neighbors, is represented on OBRA's subcommittees and on the Community Action Group. The president of the group is a member of the Homeless Negotiation Team.

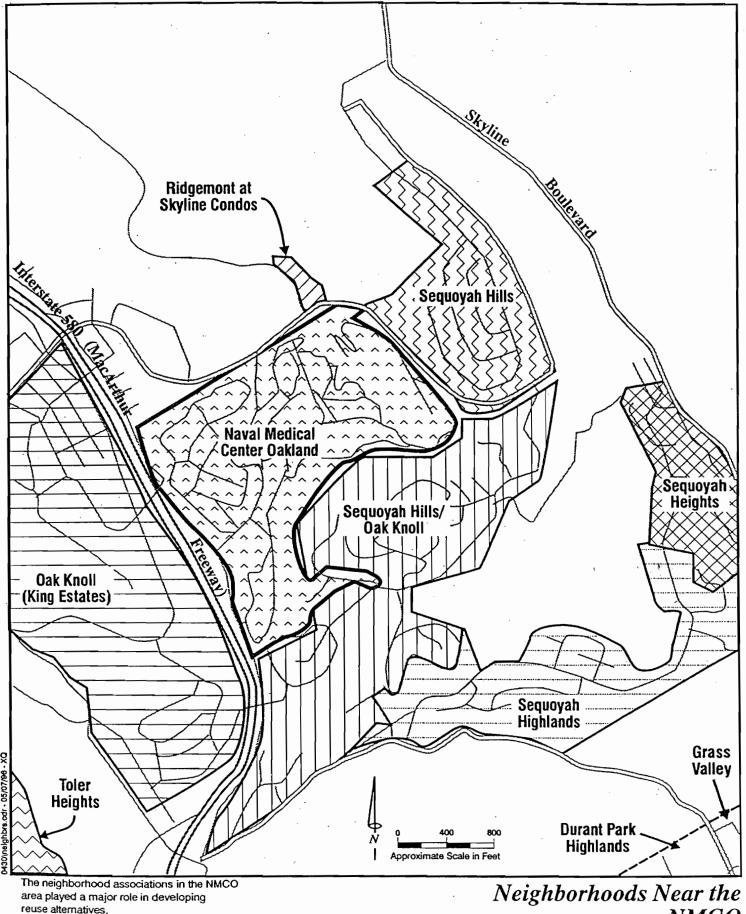
The four reuse alternatives are evaluated equally as the potential CEQA project in this EIS/EIR. The OBRA reuse planning process was supported by the combined efforts of community working groups, OBRA, the Citizen Advisory Committee, City of Oakland staff, and a consultant team of land use and environmental planners, economists, and transportation experts.

2.1.2 Selection of Alternatives for Environmental Analysis

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The criteria used by OBRA to select their preliminary alternatives included, but were not limited to physical site opportunities and limitations (e.g., slopes, sensitive habitats, access, visibility), future land uses on and off the site, transportation corridors, real estate market demand, and open space and recreation needs. A cost/revenue analysis was conducted for the land uses in the Maximum Capacity Alternative (OBRA 1996).

NEPA and CEQA require that an EIS/EIR consider a range of reasonable alternatives for environmental impacts analysis. NEPA requires that alternatives be evaluated at the same level of detail as the proposed action. CEQA allows consideration of alternatives at a lesser level of detail but requires that alternatives be evaluated that would reduce or eliminate significant adverse impacts of a proposed project. Both acts require consideration of a No Action (or no project) alternative. The No Action Alternative in this EIS/EIR evaluates NMCO in caretaker status, closed but remaining in federal ownership.



Source: Theresa Hughes & Associates 1995

NMCO

Naval Medical Center Oakland

Figure 2-1

This EIS/EIR evaluates four reuse alternatives at the NEPA and CEQA required levels of detail. The Mixed Use Village, Single Use Campus, and Residential Alternatives are based on the Oak Knoll preliminary alternatives report (Theresa Hughes and Associates 1995) prepared by OBRA. environmental analysis purposes, the Residential Alternative has been made consistent with local residential zoning, land use, and density of most of the surrounding area. The Maximum Capacity Alternative was initially provided to the Navy by OBRA in December 1995 for use in the EIS/EIR as OBRA's estimate of likely site development (Theresa Hughes & Associates 1996a). For the EIS/EIR analysis, the Maximum Capacity Alternative was adjusted to incorporate modifications OBRA made when it approved the NMCO Reuse Plan on June 10, 1996 and published the final reuse plan in August 1996 (OBRA 1996). These alternatives were selected to provide a range of land use mixes to show a range of potential environmental impacts, based on differences in land use. They allow local and federal decision-makers, interested agencies, and the public to understand reuse choices and the potential environmental impacts of these choices.

2.2 COMMON ELEMENTS OF ALTERNATIVES

Although the reuse alternatives differ in the way they address the needs and goals of OBRA, they have common elements focused on being compatible with the constraints of steep topography, providing active recreation areas, preserving the riparian corridor, and assuring compliance with the Oakland Comprehensive Plan and zoning. These common elements are discussed below.

• Topographic Constraints—Steep slopes at the NMCO site are a constraint to development. Almost one third of the 183 acres at NMCO have slopes steeper than 30 percent. These areas contain oak woodlands and native grasslands that may be used for open space and passive recreation. Each of the reuse alternatives has the intent of using hillslopes compatibly with the natural setting, topographic constraints, and surrounding hillslope uses. A few pedestrian trails wind through the hills in all of the reuse alternatives.

Conversely, flatter areas, especially those that already have been developed by the Navy, are the areas proposed for most of the more intense development in the alternatives. Some of these areas, such as those along Rifle Range Creek, may be restored. Primary entrances and exits will remain at Mountain Boulevard and Keller Avenue under each of the four reuse alternatives. The north and west quadrants, as shown on Figure 2-2, currently are occupied by hospital and medical facilities

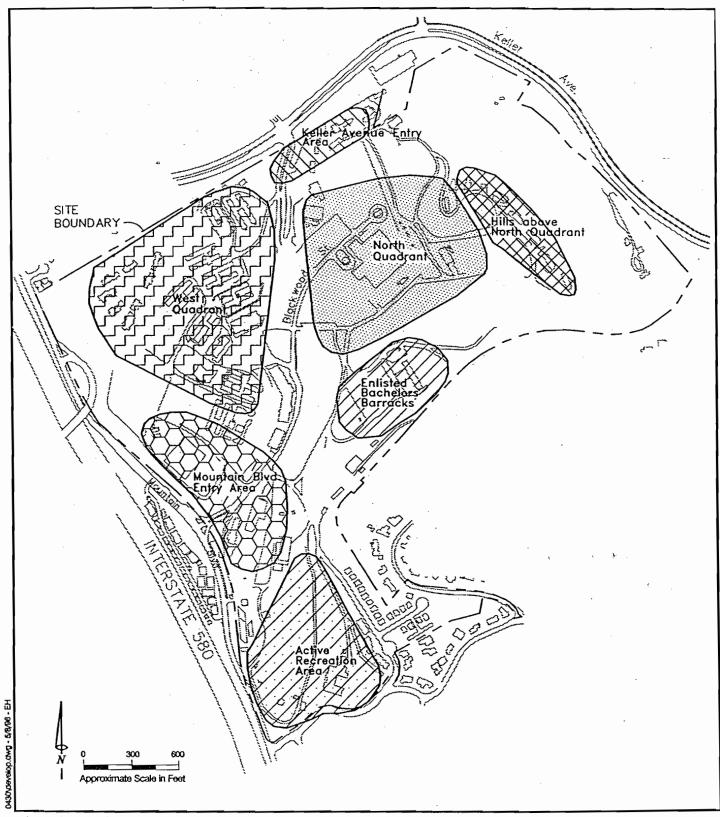
and are the primary development areas under all of the reuse alternatives.

- Active Recreation Areas—The active recreation area shown in Figure 2-2 contains existing indoor facilities, such as the racquetball courts and swimming pool, and outdoor facilities, such as tennis courts (5), baseball fields (2), lighted playfields, and a picnic area. All of these facilities, except the gymnasium and bowling alley, are proposed for public use under every reuse alternative. However, OBRA has recommended that the baseball fields, playfields, and tennis court be relocated in the Maximum Capacity Alternative (OBRA 1996). Club Knoll is preserved under each of the four reuse alternatives.
- Riparian Corridor on Rifle Range Creek—A greenbelt along Rifle Range Creek, which extends across the site from north (at Keller Avenue) to south (at Mountain Boulevard), will be maintained under each of the reuse alternatives. A portion of the creek is underground, immediately to the east of the west quadrant. Pedestrian trails proposed along the creek may connect to the Leona Regional Open Space to the north and onto Arroyo Viejo Creek to the south.
- Compliance with Local Discretionary Approvals—Each of the reuse alternatives will require a general plan amendment and rezoning and perhaps other permits, including a specific plan, subdivision plan, tree removal permits, and grading permits.
- Reuse of Existing Buildings—The following buildings as shown in Figure 2-3 are proposed for continued use in all of the community reuse alternatives:

Garage (Building #19);
Club Knoll (Building #18);
Bachelor Quarters (Building #69);
Post Office and boiler plant (Building #101 and Building #101A);
Human Resources Office (Building #131);
Command Ed & Training (Building #133)
Swimming pool (Building #138);
Indoor racquetball court (Building #147A);
Outdoor racquetball court (Building #147B);
Medical storage (Building #505);
Restroom (Building #507); and



Credit Union (Building #517).

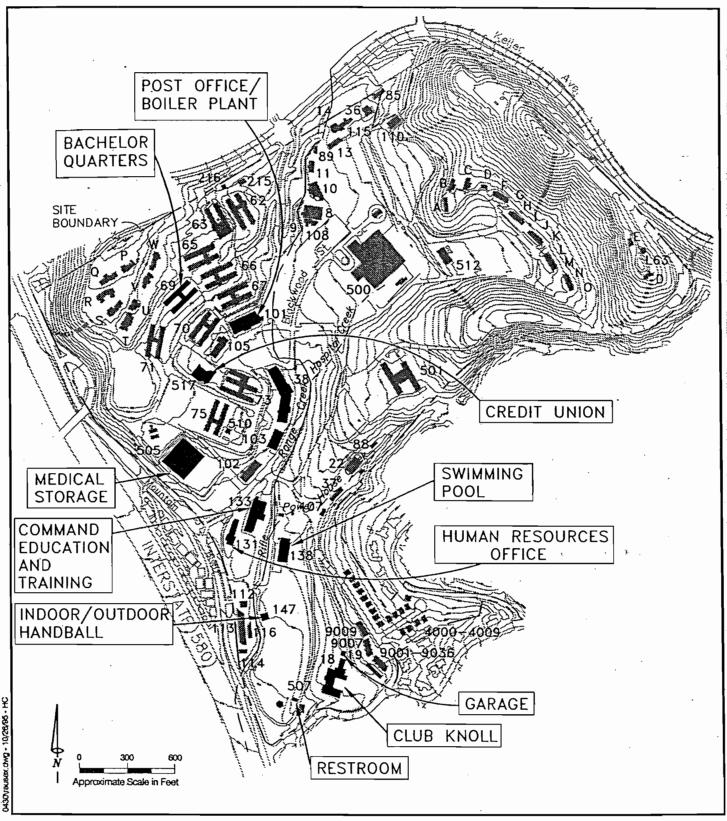


Areas where development has already occurred are the primary focus of proposed development in all four reuse alternatives.

Development Areas

Naval Medical Center Oakland

Figure 2-2



The existing buildings indicated in this figure are proposed to be retained and reused in all of the reuse alternatives.

Reuse of Existing Buildings

Naval Medical Center Oakland

Figure 2-3

2.3 DESCRIPTION OF ALTERNATIVES

Four reuse alternatives are analyzed in this EIS/EIR. Three of the reuse alternatives were identified in the preliminary alternatives report (Theresa Hughes & Associates 1995). The fourth reuse alternative, the Maximum Capacity Alternative, was developed from information supplied by OBRA from December 1995 through August of 1996 (OBRA 1996). Each of these four proposed land use plans is evaluated as a separate alternative, at the same level of analysis. This section describes land uses included in each of the reuse alternatives and the No Action Alternative.

- Maximum Capacity Alternative (Preferred Alternative)—Residential (a mix of single-family and multi-family) uses, an executive 9-hole golf course with driving range, and mixed uses (such as businesses, community, and commercial retail) are the dominant uses that will be developed in this alternative. Active recreation and open space are also included. This alternative reflects land uses presented in the June 1996 NMCO Reuse Plan (OBRA 1996).
- Mixed Use Village Alternative— This alternative includes residences, businesses, research and development and office facilities, community retail and cultural facilities, and active recreation and open space.
- Single Use Campus Alternative—Under this alternative, NMCO would
 be occupied by one educational institution or corporate user,
 neighborhood retail uses, and active recreation and open space.
- Residential Alternative— The primary use under this alternative would
 be single family residences having a character and identity similar to the
 surrounding residential development, with some neighborhood retail,
 active recreation areas, and open space.
- No Action Alternative—The property would remain under federal ownership in caretaker status.

Table 2-1 and Figure 2-4 provide an overview and illustration of the land uses and other features proposed for each of the reuse alternatives.

2.3.1 Navy Disposal

Navy disposal is included in this document to evaluate the direct impacts that would result from the disposal of the NMCO property out of federal ownership.

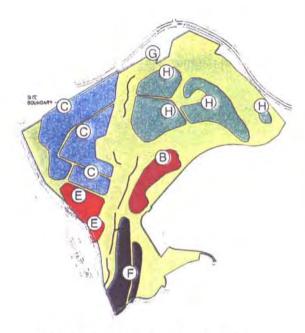
Table 2-1 Summary of Community Reuse Alternatives

Community Reuse Alternatives - Main Features	Development (square feet or units)	Total Open Space (acres)	Total Employment ¹
Maximum Capacity Alternative Mixed use development (Seneca Center, United Indian Nations, Oakland Museum, Oakland Parks and	544,000 square feet	32	717
Recreation, commercial, multi-family residential, offices) Townhouses, attached garden houses, and single family houses	584 units		
Executive 9-hole golf course club house, and driving range interspersed with 250 housing units Single family houses			
Club Knoll and credit union building retained Riparian corridor along Rifle Range Creek Open space			
Mixed Use Village Alternative			
Mixed use (townhouses, live/work, health and social services, offices)	729,000 square feet 90 units	86	1,140
Research and development (offices, laboratories, seminar/meeting areas, storage) Cultural/meeting facility (library/museum, multipurpose, assembly hall) Neighborhood retail (supermarket, specialty stores, restaurants, personal services, business services, bank) Active recreation facilities Club Knoll and credit union building retained Riparian corridor along Rifle Range Creek Open space			
Single Use Campus Alternative Designated for an educational institution or corporate headquarters (classrooms, library, cafeteria, laboratories, multipurpose, offices, student/guest facilities, vocational training) Neighborhood retail (convenience shops, restaurants, personal services, business services, bank) Active recreation facilities maintained Club Knoll and credit union building retained Riparian corndor along Rifle Range Creek Open space	828,000 square feet	101	1,150
Residential Alternative Single family houses in either 6,000 or 10,000 square foot lots Neighborhood retail (convenience shops, restaurants, personal services, business services, bank) Active recreation facilities maintained Club Knoll and credit union building retained Riparian corridor along Rifle Range Creek Open space	83,000 square feet 357 units (Option 1) or 600 units (Option 2)	4 6	170 or 190

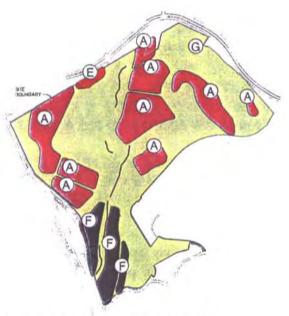
¹Total employment figures in this table include the 8 jobs that will be held under the No Action Alternative as caretaker status jobs. Source: Theresa Hughes & Associates 1995, 1996a, 1996b



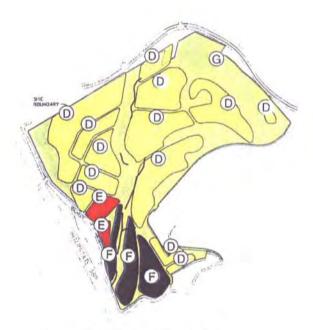
Maximum Capacity Alternative



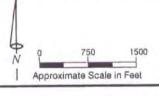
Mixed Use Village Alternative



Single Use Campus Alternative



Residential Alternative



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In this figure, the variation in land use configurations of the four community reuse alternatives can be compared at a glance.

Legend:

A

Educational



Cultural Meeting



Mixed Use



Housing



Retail



Active Recreation



Open Space



Office/Research
Residential/Golf Course



Naval Medical Center Oakland

Figure 2-4

Source: Theresa Hughes & Associates 1995; OBRA 1996

2.11

2.3.2 Maximum Capacity Alternative—Preferred Alternative (includes NMCO Reuse Plan)

The Maximum Capacity Alternative would provide various types of housing units, an executive nine-hole golf course, social service facilities, corporate offices, and commercial development, as shown in Figure 2-5. It represents OBRA's maximum capacity of developed land uses. These uses meet OBRA's goals (hence the name Maximum Capacity Alternative) as of December 1995, as modified to incorporate the NMCO Reuse Plan, adopted by OBRA in June 1996 and published in August 1996. The name does not refer to any other type of "maximum capacity" (for traffic, housing, etc). This description of the Maximum Capacity Alternative differs slightly from the NMCO Reuse Plan. These differences, explained below, are presented in order to evaluate a higher density development then proposed on the NMCO Reuse Plan. This allows this EIS/EIR to encompass the greatest range of potential adverse environmental impacts.

The Maximum Capacity Alternative includes land uses approved by OBRA at their June 10, 1996 public meeting. The Maximum Capacity Alternative also includes residences in the hills along Keller Avenue. The southern set of single family houses would be on Admiral's Hill, where there are two existing residences that served as officer family housing. The residences in the hills were included to provide analysis of the greatest density of development that has been considered feasible. This residential area, near Admiral's Hill (Figure 2-5), was considered by OBRA in December 1995, but was not included in the August 1996 NMCO Reuse Plan (OBRA 1996).

Admiral's Hill is located at the northeast corner of the NMCO site. It has not been developed, except for the Commanding Officer's quarters, which provide sweeping views of the East Bay Hills to the west, and across the San Francisco Bay to the northwest.

To clearly indicate that the riparian corridor includes a buffer, Figure 2-5 depicts open space around Rifle Range Creek that is not shown in the graphic that OBRA approved.

The Maximum Capacity Alternative would include 554,000 square feet of non-residential development and 584 residential units. The open space in this alternative would be 32 acres. This alternative would lead to approximately 717 jobs (Theresa Hughes & Associates 1996b).

The land use categories and components, their acreages, the square feet or number of units in the built area, and the type of development are shown in Table 2-2. Each of the land use categories in the Maximum Capacity Alternative is described below. The location of the proposed land uses are shown in Figure 2-5.

Mixed Use Zone

The mixed use zone, as recommended, would occupy 40 acres in the west quadrant and the western portion of the Mountain Boulevard entry area. It would include 25 acres of a wide variety of uses, such as corporate offices, commercial development, and residences. The residential development would consist of 300 multi-family apartment units. The existing credit union would be retained on two acres within this mixed use zone.

In accordance with the NMCO Reuse Plan, adopted by OBRA on June 10, 1996 and published in August 1996, the mixed use zone also would include the Seneca Center, which provides services for emotionally disabled children, would be sited on six acres. Seneca Residential and Day Treatment Center for Children proposes a school and multi-service campus to provide special education, mental health, and support services for emotionally disabled children. Seneca is requesting a parcel which includes Building #69, the Helipad, and limited adjoining acreage for new construction. United Indian Nations, Inc. (UIN) would establish an American Indian Culture and Education Center on 0.75 acres. UIN has proposed the establishment of an American Indian Cultural and Education Center at the site, with a focus on educating Native Americans and all other cultures and ethnic groups on the history, culture, arts, crafts, and contributions of Native Americans locally, regionally, and nationally. UIN is requesting a parcel which includes Building #101 within the Mixed Use Area. The Oakland Museum would occupy 1.5 acres to store museum artifacts, artwork, and natural history specimens. The Oakland Parks and Recreation Department is requesting a total of 6.5 acres. The Youth Center would be established on 1.5 acres. Baseball and soccer fields would be relocated from the active recreation area to five acres within the mixed use zone.

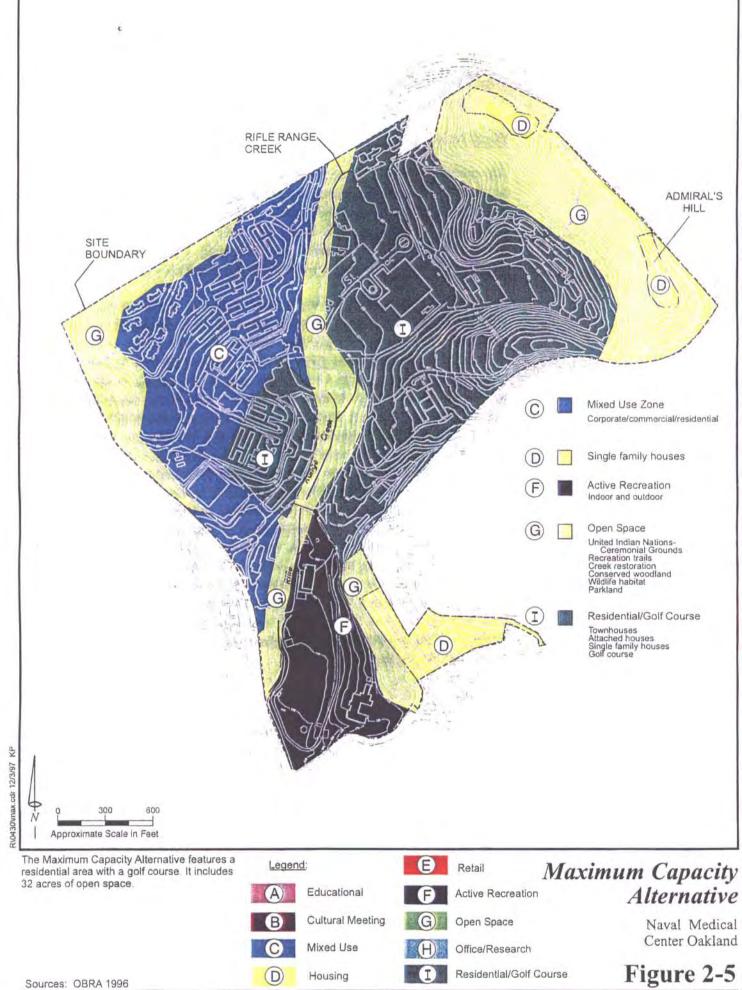
Housing

Most of the residences (250 units) are located within the residential/golf course area and the mixed use zone. Three hundred multi-family apartments would be located in the mixed use zone, on 10 acres with 34 single family residences.

Residential/Golf Course

A variety of housing types, including townhouses, attached garden houses, and single family houses, would be located on 32 acres. The remaining 54 acres would have an executive 9-hole golf course.





2.1

Table 2-2 Maximum Capacity Alternative Land Use

Use Categories and Components	Sub-area (acres)	Floor Area Ratio ¹ or Density	Development
Mixed use zone Seneca (6 acres) United Indian Nations (0.75 acre) Oakland Museum (1.5 acres) Oakland Parks & Recreation (OPR) (6.5 acres)	15	0.3	100,000 square feet
Corporate/Commercial/Residential Credit union (2 acres) Commercial Residential (multi-family apartments) Offices	25	0.3 20 units/acre 0.5	100,000 square feet 300 units 300,000 square feet
Housing Single family houses	5	4 units/acre	18 units
Single family houses	. 5	3 units/acre	16 units
Residential/Golf Course Townhouses; attached garden houses; single family houses Executive golf course	32 54	8 units/acre	250 units
Active recreation Indoor: Club Knoll Swimming pool	15	Shared use of all facilities outside the recreation zone	44,000 square feet (existing)
Outdoor: Tennis courts - relocated Baseball fields - relocated Soccer fields - relocated Picnic area Driving range (6 acres) Clubhouse (3 acres)		Preserve existing facilities	· · · · · · · · · · · · · · · · · · ·
Open Space United Indian Nations - Ceremonial Grounds (3 acres) Oakland Parks & Recreation	32	пот applicable	not applicable
Recreation trails Creek restoration Conserved woodlands Wildlife habitat Parkland			
TOTAL	1832	-	544,000 square feet +
			584 units

¹ Floor area ratio represents the percentage of the total square footage that is dedicated to usable floor space. It is assumed that about 39 acres would be set aside for unbuildable slopes and roads within developable sites.

Source: OBRA 1996



Active Recreation

Active recreation in the Maximum Capacity Alternative would be sited on 15 acres. This area would include Club Knoll and the existing swimming pool. In accordance with the NMCO Reuse Plan, existing tennis courts, baseball fields and soccer fields would be abandoned and replaced with similar upgraded facilities. The tennis courts would probably be located within the residential/golf course area and the ballfields would be located within the mixed use area. A six-acre driving range and three-acre clubhouse would be located in place of the existing ball fields. (OBRA 1996).

Open Space

The Maximum Capacity Alternative would include 32 acres of open space, including three acres dedicated to the United Indian Nations for ceremonial grounds and the remaining acres dedicated to the Oakland Parks and Recreation Department for recreation, trails, creek restoration, conserved woodlands, wildlife habitat, and parkland. The Rifle Range Creek riparian corridor would be protected with a 50-foot wide restricted-access buffer zone.

2.3.3 Mixed Use Village Alternative

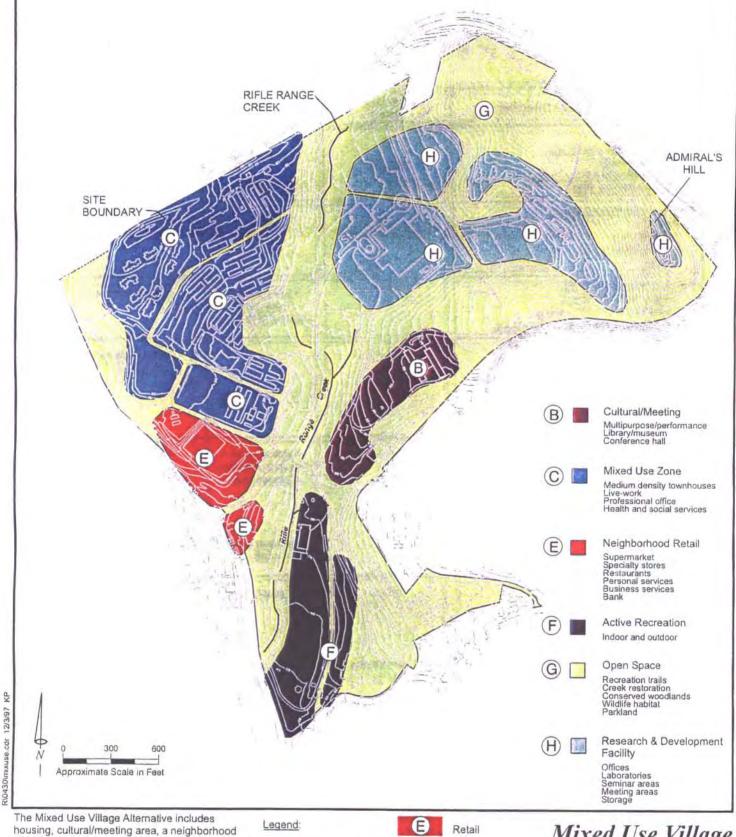
The Mixed Use Village Alternative would combine residences and offices with cultural facilities and community retail, as shown in Figure 2-6. This alternative would include 729,000 square feet of development. Open space would cover 86 acres. Homeless services, if needed, would depend on the specified need, training, or social services in the Mixed Use Village Alternative. Homeless housing would be accommodated as described earlier in Section 1.3.2 of this EIS/EIR. The Mixed Use Village Alternative would lead to approximately 1,140 jobs.

The land use categories and components, their acreages, the square feet or number of units in the built area as specified to date by OBRA, and the type of development are shown in Table 2-3. Each of the land use categories in the Mixed Use Village Alternative is described below. The locations of the proposed land uses are shown in Figure 2-6.

Mixed Use Zone

The dominant land use in this alternative would be the 23-acre mixed use zone, located primarily in the west quadrant. As the name implies, the mixed use zone would include a wide range of uses, including medium





retail area, offices, recreation facilities and open space. In this alternative, the total built area is 729,000 square feet; 86 acres would remain open space

Educational

Cultural Meeting

Mixed Use

Housing

Active Recreation

Open Space

Office/Research

Residential/Golf Course

Mixed Use Village Alternative

> Naval Medical Center Oakland

Figure 2-6

Source: Theresa Hughes & Associates 1995

Table 2-3 Mixed Use Village Alternative Land Use

Use Categories and Components	Sub-area (acres)	Floor Area Ratio ¹ or Density	Development
Mixed use zone Medium density townhouses Live/work spaces Health and social services facility Small professional offices	23 90 units	0.3 20 units/acre	300,000 square feet
Research and development Offices Laboratories Seminar/meeting areas Storage	12	0.5	261,000 square feet
Cultural/meeting facility Library/museum building Multipurpose/performance area Community assembly and conference hall	. 5	2 or 3 buildings on site as per cultural facility needs	59,000 square feet
Neighborhood retail Supermarket Specialty stores Restaurants Personal services Business services (copy, travel) Bank	5	0.3	65,000 square feet
Active recreation Indoor: Club Knoll Swimming pool	8	Shared use of all facilities outside the recreation zone	44,000 square feet (existing)
Outdoor: Tennis courts - 5 Baseball fields - 2 Playfields Picnic area		Preserve existing facilities	, v »
Open space Recreation trails Creek restoration Conserved woodlands Wildlife habitat Parkland	86	not applicable	not applicable
Area set aside for unbuildable slopes and roads within developable sites	44	not applicable	not applicable
TOTAL	183	-	729,000 square feet

¹Floor area ratio represents the percentage of the total square footage that is dedicated to usable floor space. Source: Theresa Hughes & Associates 1995.

density townhouses, live/work spaces, a health and social services facility, and small professional offices. The area developed for this use would be 300,000 square feet.



Research & Development

In addition to the mixed use zone, a major portion of the developed area at the site in the Mixed Use Village Alternative would be devoted to the 12-acre research and development facility. The offices, laboratories, seminar/meeting rooms, and other uses of this land would occupy 261,000 square feet of built area in the north quadrant and in the hills above the north quadrant.

Cultural/Meeting Facility

The barracks are proposed to be used for the library, museum, or flexible meeting/conference/performance space in a five-acre lot. Approximately 59,000 square feet of development would be anticipated.

Neighborhood Retail

Neighborhood retail would be an expanded or modified version of retail development that is included in the Single Use Campus and Residential alternatives (discussed below). A supermarket would serve site residents, neighbors, and employees, and specialty stores would replace the convenience shops. It also could include restaurants, personal services, business services, and a bank. A total of 65,000 square feet of retail buildings would be constructed. The five-acre retail area would be located in the Mountain Boulevard entry area, adjacent to the mixed use zone. The retail area and the mixed use zone may be designed to have restaurants and stores overlooking the Rifle Range Creek corridor.

Active Recreation

All of the existing active recreation facilities, except the bowling alley and gymnasium, would be retained in an area of eight acres. These facilities would include Club Knoll, the swimming pool, tennis courts and ball fields, playfields, and the picnic area.

Open Space

Eighty-six acres would be devoted to open space in the Mixed Use Village Alternative. This includes the Rifle Range Creek corridor and the areas of steep slopes. Riparian vegetation, consistent with other creeks in the East Bay Hills, would be maintained using a 50-foot wide restricted access buffer strip along Rifle Range Creek. Recreation and open space nodes would be located along the creek corridor. Oak woodlands and native grasslands would be used for nature trails and conservation efforts.



2.3.4 Single Use Campus Alternative

The Single Use Campus Alternative would use 35 acres for an educational institution or corporate user. Other possible similar uses include a conference/hotel facility or institutional headquarters for a regional or national research company. The concentrated development in this alternative allows the greatest acreage of open space of any alternative (as shown in Figure 2-7). A total of 101 acres would be devoted to open space. Homeless housing would be provided off-site. This alternative has the potential to lead to approximately 1,150 jobs.

The land use categories and components, their acreages, the square feet or number of units in the built area as specified to date by the OBRA, and the type of development are shown in Table 2-4. Each of the land use categories in the Single Use Campus Alternative is described below. The location of the proposed land uses are shown in Figure 2-7.

Educational Campus

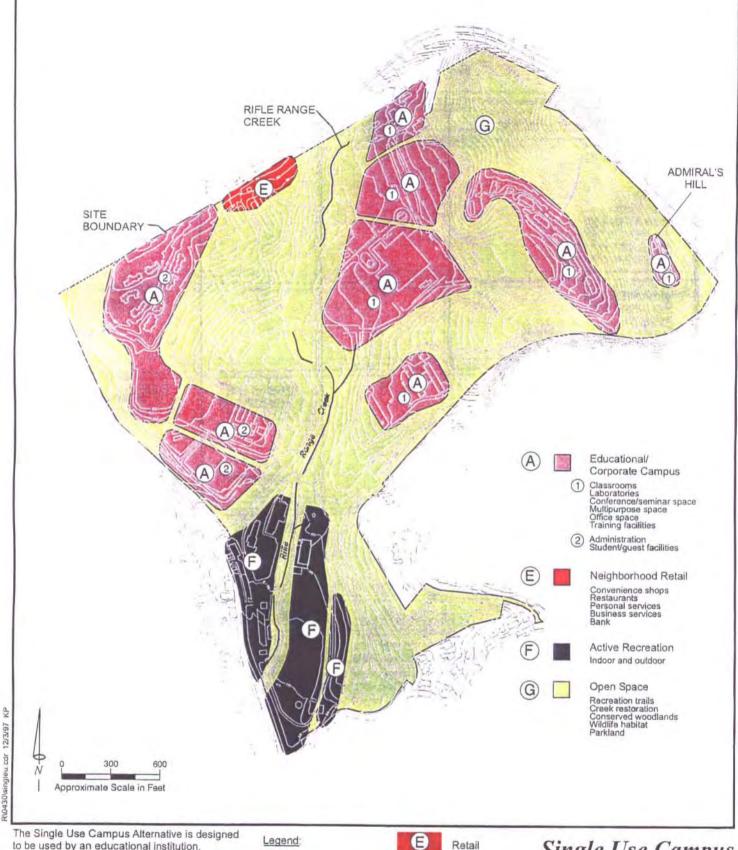
Most of the developed areas (35 acres) would be occupied by an educational or corporate campus with 762,000 square feet of built area. The campus would be divided into two distinct areas. Classrooms, research laboratories, conference/seminar facilities, library, multipurpose space, office space, and training facilities would be located in the north quadrant and the hills above the north quadrant. Administrative offices, student/guest facilities, storage and other secondary functions would be located in the west quadrant and the northern portion of the Mountain Boulevard entry area.

Neighborhood Retail

Neighborhood retail uses would be located on one acre in the northern portion of the west quadrant and in the western portion of the Keller Avenue entry area. The neighborhood retail built area would be about 22,000 square feet.

Active Recreation

The existing active recreation facilities, except the bowling alley and gymnasium, would be maintained on 12 acres. Recreation facilities would be maintained and operated for public use, perhaps in association with City of Oakland Parks and Recreation Department or East Bay Regional Park District. These facilities also would be available for students, employees, and other users of the campus.



to be used by an educational institution, research corporation, or a conference/hotel facility. In this alternative, the total built area is 828,000 square feet; 101 acres would remain open space.

(D)

Educational

Mixed Use

Housing

Cultural Meeting

Single Use Campus

Active Recreation Alternative

Open Space

Office/Research

Residential/Golf Course

Naval Medical Center Oakland

Figure 2-7

Source: Theresa Hughes & Associates 1995

Table 2-4 Single Use Campus Alternative Land Use

Use Categories and Components	Sub-area (acres)	Floor Area Ratio ¹ or Density	Development
Educational campus ² Classrooms Library Cafeteria Laboratories Multipurpose spaces Administrative offices Student/guest facilities Vocational training center Machine/wood shop	35	0.5	762,000 square feet
Neighborhood retail Convenience shops Restaurants Personal services (laundry, beauty) Business services (copy service) Bank	1	0.5	22,000 square feet
Active recreation Indoor: Club Knoll Swimming pool Outdoor: Tennis courts - 5 Baseball fields - 2 Playfields Picnic area		Shared use of all facilities outside the recreation zone Preserve existing facilities	44,000 square feet (existing)
Open space Recreation trails Creek restoration Conserved woodlands Wildlife habitat Parkland	101	not applicable	not applicable
Area set aside for unbuildable slopes and roads within developable sites	34	not applicable	not applicable
TOTAL	183	-	828,000 square feet

Floor area ratio represents the percentage of the total square footage that is dedicated to usable floor space.

Open Space

Approximately 101 acres of the site would remain open space in the Single Use Campus Alternative. Pedestrian trails along Rifle Range Creek and in the hills would provide links to adjoining parks. The Rifle Range Creek riparian corridor would be protected by a 50-foot wide restricted-access

²The educational campus use for this option is interchangeable with a conference/hotel facility or an administrative/research headquarters complex of comparable size, with no significant change in peak hour traffic generation.

Source: Theresa Hughes & Associates 1995.

buffer strip. Use of the site as a private campus, such as a research facility or corporate headquarters, may limit public access to some open space areas.

2.3.5 Residential Alternative

The uses and densities proposed in the Residential Alternative are similar to those that have been developed in the surrounding neighborhoods over the past 30 to 40 years. The primary use would be single family residences with some neighborhood retail, active recreation areas, and open space as shown in Figure 2-8. No community services, health services, or educational facilities are proposed. The residential use at the proposed densities would not conflict with the site's existing zoning. However, the retail and active recreation area would require rezoning. This alternative provides a means to compare the more varied uses of the other alternatives with residential development similar to that of the surrounding area. Although the Residential Alternative's higher density option contains only 16 more residential units than the Maximum Capacity Alternative (600 versus 584 units, respectively), it is the character of these units, primarily as singlefamily residences, that differentiates it from the Maximum Capacity Alternative. The differences in these two alternatives go well beyond a simple count of the number of residential units, and include consistency with surrounding community residential development and the overall placement and mixes of uses combined within each alternative.

Homeless housing and activities would be provided as discussed earlier in Section 1.3.2 of this EIS/EIR. Approximately 170 to 190 new jobs would result from this alternative.

The land use categories and components, their acreages, the square feet or number of units in the built area as specified to date by the OBRA, and the type of development are shown in Table 2-5. Each of the land use categories in the Residential Alternative is described below. The locations of the proposed land uses are shown in Figure 2-8.

Single Family Housing

In the Residential Alternative, 82 acres would be used for single family residences. Residences would be located in all of the development areas except the active recreation area and the southern two-thirds of the Mountain Boulevard entry area. Two densities of single family residential development are proposed. The first option calls for 357 units to be built on 10,000-square foot lots (4.4 units per acre), and the second option calls for 600 units to be built on 6,000-square foot lots (7.3 units per acre).

Table 2-5 Residential Alternative Land Use

Use Categories and Components	Sub-area (acres)	Floor Area Ratio ¹ or Density	Development
Single family housing			
Option 1	82	4.4 units/acre (10,000 square feet/lot)	357 units
OR	or	or .	or
Option 2	82	7.3 units/acre (6,000 square feet/lot)	600 units
Neighborhood retail Convenience shops Restaurants Personal services (laundry, beauty) Business services (copy service) Bank	2	0.5	39,000 square feet
Active recreation Indoor: Club Knoll Swimming pool	14	Shared use of all facilities outside the recreation zone	44,000 square feet (existing)
Outdoor: Tennis courts - 5 Baseball fields - 2 Playfields Picnic area		Preserve existing facilities	· • • • • ·
Open space Recreation trails Creek restoration Conserved woodlands Wildlife habitat Parkland	46	not applicable	not applicable
Area set aside for unbuildable slopes and roads within developable sites	39	not applicable	not applicable
TOTAL	183	-	83,000 square feet + 357 units or 600 units

¹Floor area ratio represents the percentage of the total square footage that is dedicated to usable floor space. Source: Theresa Hughes & Associates 1995.



The Residential Alternative includes low density residential areas, similar to adjacent residential areas and a small commercial area. In this alternative, the total built area is 357 or 600 units, depending on lot size, 83,000 square feet of retail and recreation facilities; 46 acres would remain open space.

Legend:

E Retail

A Educational

F Active Recreation

Open Space

Office/Research

Housing

Residential/Golf Course

Residential Alternative

Naval Medical Center Oakland

Figure 2-8

Neighborhood Retail

A small neighborhood retail area would be located east of the proposed public library, social services, and post office on two acres in the Mountain Boulevard entry area. It would include 39,000 square feet of convenience shops, restaurants, personal services (laundry, beauty shop), business services (copy service), and a bank.

Active Recreation

The 14 acres of existing active recreation facilities, except the bowling alley and gymnasium, would be maintained. It would include the swimming pool, tennis courts, baseball fields, playfields, and the picnic area.

Open Space

This alternative has 46 acres of open space. The riparian corridor along Rifle Range Creek would include a 50-foot wide restricted-access buffer zone, and would be proposed for creek restoration. No additional park areas are planned along the creek. Most of the creek would be bordered outside of the 50-foot buffer zone by private property associated with the residences. The hills, oak woodlands, and native grasslands would remain mostly undeveloped. Club Knoll would be retained in this alternative.

2.3.6 No Action Alternative

Inclusion of the No Action Alternative in the environmental analysis and documentation is required by the Council on Environmental Quality, which implements NEPA. It substantially fulfills the requirement of CEQA that a no project alternative be evaluated.

A No Action Alternative of Navy property disposal to the City of Oakland or other entity with no subsequent community reuse would have the same environmental impacts as the Navy No Action Alternative except that the new owner would be responsible for providing caretaker services. Therefore, a separate alternative describing a No Action reuse was unnecessary. Although the project objective, costs, and jurisdictional responsibilities would differ administratively from Navy caretaker status, the site would be in an equivalent status for CEQA purposes, and impacts would be the same as projected under the No Action Alternative.

For this EIS/EIR, the No Action Alternative would retain NMCO in a caretaker status or inactive status under Navy control, under the custody of the Navy Engineering Field Activity West. The No Action Alternative is

defined as NMCO being closed, as mandated by law, with on-site caretaker activity limited to maintenance, security, environmental restoration, and those activities associated with caretaker status.

Specific on-site caretaker actions performed by on-site employees include the following:

- Inspection and maintenance of utility systems essential to security and telecommunications and of roads to avoid irreparable deterioration.
 Elements of all utility systems and some entire systems, such as alternate systems, could be abandoned while still meeting caretaker requirements;
- Periodic landscape maintenance around unoccupied structures, as necessary, to protect the structures from fires or nuisance conditions;
- Maintenance of property accesses to permit the service and maintenance of utility or infrastructure systems;
- Continuation of security patrols and maintenance of security systems; maintenance of perimeter fences; addition of interior fencing around hazardous waste sites, depending on the length of time the areas may remain in caretaker status:
- The level of necessary fire protection services is being reviewed by the Navy
 in consultation with the Oakland Fire Department. Currently, the Navy
 anticipates that one 24-hour engine company will be present on NMCO
 until transfer of fire protection responsibility to the City of Oakland. The
 Navy will continue to maintain firebreaks and landscaping, and control
 weeds during caretaker status;
- Continuation of land management programs, such as natural resource management, pest control, erosion control, and tree removal; and
- Minimal maintenance of structures and other facilities in a manner that facilitates interim use leasing or economical resumption of use.

2.4 COMPARISON OF ALTERNATIVES

NEPA and CEQA require that the EIS/EIR include a presentation of the alternatives in comparative form, to define the issues and provide a clear basis for choice among options by the decisionmakers and the public. Table 2-6 lists the significant impacts and corresponding mitigation measures for each alternative. This table may be used to compare the potential impacts of one alternative to those of another.



Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives Table 2-6

Residential Alternative	No significant land use impacts would result from implementation of this alternative, because no disruption of existing surrounding land uses would occur.	Impact. A significant and mitigable impact would result from overcrowding in the Oakland Unified School District (OUSD). The Residential Alternative would generate approximately 141 (Option 1) to 231 (Option 2) students by the year 2020, assuming full buildout. This would represent an increase of less than one percent for both Option 1 and Option 2 of the total 1994 OUSD enrollment. Additional
Community Reuse Alternatives Village Single Use Campus ative	No significant land use impacts would result from implementation of this alternative, because no disruption of existing surrounding land uses would occur.	Impact. A significant and mitigable impact would result from overcrowding in the Oakland Unified School District (OUSD). The Single Use Campus Alternative would generate approximately 79 students by 2020, assuming full buildout. This increase would represent less than one percent of the total 1994 OUSD enrollment.
Community Re Mixed Use Village Alternative	Impact: Significant and mitigable land use impacts would result from conflicts with existing residential uses due to the development of a research and development facility, particularly a biotechnology tenant. Certain safety measures would be required to ensure isolation of laboratory areas and potentially hazardous materials from the general population. Mitigation: The impacts of a research and development facility would be mitigable to a level that is nonsignificant by limiting all operations conducted on-site to those with a low level of risk consistent with surrounding neighborhoods.	Impact. A significant and mitigable impact would result from overcrowding in the Oakland Unified School District (OUSD). The Mixed Use Village Alternative would generate approximately 110 students by 2020, assuming full buildout. This increase would represent less than one percent of the total 1994 OUSD enrollment. Additional students also may have significant and mitigable impacts on Oak Knoll Study
Maximum Gapaelty. Alternative	No significant land use impacts would result from implementation of this alternative, because no disruption of existing surrounding land uses would be introduced, and proposed land uses would not have the potential to disrupt or divide the established physical land use configurations.	Impact. A significant and mitigable impact may result from overcrowding in the Oakland Unified School District (OUSD). The Maximum Capacity Alternative would generate 261 students by 2020, assuming full buildout. This increase would represent less than one percent of the total 1994 Oakland Unified School District (OUSD) enrollment. Additional students also may have significant and mitigable
cetion No Action Alfernative	No impacts are expected.	No impacts are expected.
Navy Action Navy Disposal	No impacts are expected.	No impacts are expected
Resource	Land Use	Socioeconomics

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Table 2-6 Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives (Continued)

	ns Residential Alternative	students also may have significant and mitigable impacts on Oak Knoll Study Area schools if it result in new school construction.	ated for Mitigation: For Options 1 and 2, same as indicated for the Maximum Capacity Alternative.
Community Reuse Alternatives	Single Use Campus Alternative		Mitigation: Same as indicated for the Maximum Capacity Alternative.
Community Re	Mixed Use Village Alternative	Area schools if it results in new school construction.	Mitigation: Same as indicated for the Maximum Capacity Alternative.
	Maximum Capacity Alternative	impacts on Oak Knoll Study Area schools if it results on new school construction.	Mitigation: Mitigation measures to reduce overcrowding to less than significant levels would include the following: (1) reassigning students among district schools to account for changing population and new development; (2) continuation and expansion of year-round schools; (3) more efficient use of underutilized and/or abandoned school facilities; (4) the addition of portable classrooms; and (5) the busing of students to less crowded schools. If these measures do not reduce overcrowding, OUSD may have to expand existing schools or construct new schools. All of these measures would require varying amounts of funding. If current sources of funding, including the City of Oakland school mitigation fees, increases in property tax and sales tax revenues, and increases in state funding are insufficient to pay for the cost of mitigating overcrowding, the OUSD would formulare and innlement.
ction	No Action Alternative	No impacts are expected.	
Navy Action	Navy Disposal	No impacts are expected.	
	Resource	Socioeconomics (continued)	

Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives (Continued) Table 2-6

			or es. he ate
	Residential Alternative		Impact. A significant and mitigable impact would result from an increase in demand for City of Oakland police services. Police services impacts due to buildout of this alternative would require one new police officer, which is the same as the Maximum Capacity Alternative. Although Option 2, with 600 residential units, would generate more demand than Option 1, with 357 units, both options would require one additional officer.
Community Reuse Alfernatives	Single Use Campus Alternative		Impact: A significant and mitigable impact would result from an increase in demand for City of Oakland police services. The impact at the time of buildout of this alternative would be significant because the City of Oakland Police Department has determined that the mix of retail, educational campus, and open space areas would require one new full-time police officer working 40 hours per week in Beat 35 to adequately provide coverage at the Naval Medical Center Oakland (NMCO).
Community Re	Mixed Use Village Alternative		Impact: A significant and mitigable impact would result from an increase in demand for City of Oakland police services. The impact at the time of buildout of this alternative would be significant because the City of Oakland Police Department has determined that the mix of residential, retail, and open space areas would require one new full-time police officer working 40 hours per week in Beat 35 to adequately provide coverage at the Naval Medical Center Oakland (NMCO).
	MaximumiCapacity Alternative	specific measures to raise additional funds. Funding sources which may be considered by the OUSD include: (1) adjustments of school mitigation fees on commercial and residential development; (2) the creation of special assessment or Mello Roos districts or annexation to a Community Facilities District; (3) sale of surplus OUSD property; and (4) any other funding mechanism available to the OUSD by state law or local ordinances, including those measures identified in the OUSD's Developer Fee Justification Study (OUSD 1996).	Impact: A significant and mitigable impact would result from an increase in demand for City of Oakland police services. The impact at the time of buildout of this alternative would be significant because the City of Oakland Police Department has determined that the mix of residential, retail, recreation/golf course and open space areas would require one new full-time police officer working 40 hours per week in Beat 35 to adequately provide coverage at the Naval Medical Center Oakland (NMCO).
ction	No Action Alternative		No impacts are expected.
Navy Action	Navy Disposal		No impacts are expected.
	Resource Category	Socioeconomics (continued)	Public Services

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Table 2-6 Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives (Continued)

	Navy Action	Action		Community Reuse Alternatives	se Alternatives	
Resource Category	Navy Disposal	No Action Alternative	Maximum Capacity Alternative	Mixed Use Village Alternative	Single Use Campus Alternative	Residential Alternative
			Mitigation. The impact of increased demand for one additional police officer could be mitigated by the City of Oakland utilizing general fund money to pay for the new officer. In the event that the general fund is insufficient to pay for the increased demand, an alternative method would be for the site developer, in consultation with the City of Oakland, to explore methods of providing for an additional officer.	Mitigation: Same as indicated for the Maximum Capacity Alternative.	Mitigation: Same as indicated for the Maximum Capacity Alternative. In addition, it is foreseable that private security guards would be used for the type of development described under this alternative.	Mitigation: For Options 1 and 2, same as indicated for the Maximum Capacity Alternative.
Cultural	No impacts are expected.	No impacts are expected.	Implementation of the Maximum Capacity Alternative would have no impact on cultural resources listed on or eligible for the NRHP because no such resources are present at NMCO. Future owners will be advised at the time of transfer regarding applicable regulations should previously unknown subsurface cultural resources be discovered during reuse activities. Although not eligible for the NRHP, Club Knoll is proposed for preservation and reuse by the public under this alternative.	Implementation of the Mixed Use Village Alternative would have no impact on cultural resources listed on or eligible for the NRHP because no such resources are present at NMCO. Future owners will be advised at the time of transfer regarding applicable regulations should previously unknown subsurface cultural resources be discovered during reuse activities. Although not eligible for the NRHP, Club Knoll is proposed for preservation and reuse by the public under this alternative.	Implementation of the Single Use Campus Alternative would have no impact on cultural resources listed on or eligible for the NRHP because no such resources are present at NMCO. Future owners will be advised at the time of transfer regarding applicable regulations should previously unknown subsurface cultural resources be discovered during reuse activities. Although not eligible for the NRHP, Club Knoll is proposed for preservation and reuse by the public under this alternative.	Implementation of Options 1 and 2 of the Residential Alternative would have no impact on cultural resources listed on or eligible for the NRHP because no such resources are present at NMCO. Future owners will be advised at the time of transfer regarding applicable regulations should previously unknown subsurface cultural resources be discovered during reuse activities. Although not eligible for the NRHP, Club Knoll is proposed for preservation and reuse by the public under this alternative.

Table 2-6 Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives (Continued)

Residential Alfenative	The Residential Alternative would not introduce significant adverse effects on aesthetic or seenic resources. This alternative is similar in overall effect to the Maximum Capacity Alternative, except without the adverse impacts of development on Admiral's Hill. The Residential Alternative provides less open space and fewer beneficial visual effects than either the Mixed Use Village or Single Use Campus Alternatives. The Residential Alternative contains two options, with residential development of 357 and 600 units, respectively. These would have noticeable differences in density but no major difference in overall scenic quality or visual impact.	
use Alternatifes Single Use Campus Alternative	The Single Use Campus Alternative would introduce no significant adverse aesthetic or scenic effects. The retention of Admiral's Hill as open space would lead to reduced visual impacts as compared with the Maximum Capacity Alternative. The increase in landscaped open space and public viewing opportunities throughout the site would lead to more beneficial impacts than the Mixed Use Alternative.	
Community Reuse Alternadiyes Nixed Use Village Single U	This alternative would not introduce significant adverse effects to aesthetic or scenic resources. The retention of Admiral's Hill in its existing visual condition as open space would lead to reduced visual impacts as compared with the Maximum Capacity Alternative. However, the Mixed Use Village Alternative provides less dramatic public viewing opportunities due to access restrictions at Admiral's Hill.	
Maximum Gapacity Alternative	Impact: A significant and mitigable impact would result from visual contrasts due to the introduction of new structures and grading on the crest and northern end of Admiral's Hill, together with potential loss of trees at the northern end. These would be seen in views from NMCO use areas, Keller Avenue, and existing residences to the north, east, and south within foreground viewing distances. Admiral's Hill forms a prominent scenic feature in the immediate area, and visual contrasts could be augmented by "skylining" of houses along ridge of hills) in some closer views from the NMCO site. Mitigation: The impact is mitigable to a level that is less than significant through careful siting and design of new construction and minimizing losses of mature trees at the northern end of the hill. Contour grading should be used to minimize cuts and fills. Landscaping that is consistent with the more natural appearing veeration on the surrounding	9
ction	No impacts are expected.	
Navy Action	No impacts are expected.	
Resource	Aesthetics/ Scenic Resources	

Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives (Continued) Table 2-6

	Navy	Navy Action		Community/Reuse Alternatives	use Alternatives	
Resource	Navy Disposal	No Action: Alternative	Maximum Gapacity Alternative	Mixed Use Village Alternative	Single Use Campus Alternative	Residential Affernative
Aesthetics/ Scenic Resources			hills should be developed to provide some screening and shade for new buildings.			
Biological	No impacts are	No impacts are	Sensitive Habitats	Sensitive Habitats	Sensitive Habitats	Sensitive Habitats
Resources	expected.	expected.	Impact: Significant and mitigable impacts could occur if the	Impact: Significant and mitigable impacts could occur if the	Impact: Significant and mitigable impacts could occur if the	Impact: Significant and mitigable impacts could occur if the
			proposed greenbelt along Rifle	proposed greenbelt along Rifle	proposed greenbelt along Rifle	proposed greenbelt along Rifle
			for the entire length of the creek	for the entire length of the creek	for the entire length of the creek	for the entire length of the creek
			on site. The removal of native	on site, The removal of native	on site. The removal of native	on site. The removal of native
			Range Creek and its tributaries,	Vegetation surrounding Kille Range Creek and its tributaries,	Range Creek and its tributaries,	Range Creek and its tributaries,
			including oaks and other native	including oaks and other native	including oaks and other native	including oaks and other native
			trees, shrubs, and ground cover,	trees, shrubs, and ground cover,	trees, shrubs, and ground cover,	trees, shrubs, and ground cover,
			would adversely impact the	would adversely impact the	would adversely impact the	would adversely impact the
			impacts could occur from the	impacts could occur from the	impacts could occur from the	impacts could occur from the
			removal of vegetation. Indirect	removal of vegetation. Indirect	removal of vegetation. Indirect	removal of vegetation. Indirect
			reuse impacts could occur from	reuse impacts could occur from	reuse impacts could occur from	reuse impacts could occur from
	_		increased erosion and	increased erosion and	increased erosion and	increased erosion and
			sedimentation in the creek and	sedimentation in the creek and	sedimentation in the creek and	sedimentation in the creek and
			demolition or construction	demolition or construction	demolition or construction	demolition or construction
			activities, including grading,	activities, including grading,	activities, including grading,	activities, including grading,
			cutting, filling, and other earth	cutting, filling, and other earth	cutting, filling, and other earth	cutting, filling, and other earth
			moving that may be needed to	moving that may be needed to	moving that may be needed to	moving that may be needed to
			accommodate the	accommodate the	accommodate the	accommodate the
			alternative. Impacts also could	implementation of this	implementation of this alternative. Impacts also could	alternative. Impacts also could
			occur if habitat restoration	occur if habitat restoration	occur if habitat restoration	occur if habitat restoration
			activities or the building of trails	activities or the building of trails	activities or the building of trails	activities or the building of trails
			vegetation,	were to adversely affect native	were to adversely affect flative	veretation.
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Table 2-6
Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives (Continued)

[standing of	Alternative	Mitigation: For Options 1 and 2,	Maximum Canadity A Itemative														_			,									-		•			
ise Alternatives	Single Use Campus Alternative	Mitigation: Same as indicated for	the Maximum Capacity	Oliceliative.												,																		
Community Reuse Alternatives	Mixed Use Village Alternative	Mitigation: Same as indicated for	the Maximum Capacity	Aiternative.																											-			
	Maximum Capacity Alternative	Mitigation. Avoid the removal	of native vegetation in the	riparian corridor during	construction, habitat restoration,	and trail-building activities.	Establish a permanent 50-foot	wide restricted access buffer zone	to protect the Rifle Range Creek	corridor. Locate all staging areas	in already disturbed sites. A	qualified biologist shall develop a	detailed habitat restoration plan	for restoration activities in Rifle	Range Creek, its tributaries, and	the surrounding riparian	corridor that includes oneoing	maintenance of this buffer zone.	This plan, to be prepared by the		construction, should specify all	activities necessary to restore the	drainage with minimal erosion,	and should be supervised by	restoration specialists. If some	vegetation removal is required,	project developers should confer	with the City of Oakland and	the California Department of	Fish and Game regarding the	type of vegetation to be	removed, the extent of removal,	and corresponding revegetation	mitigation requirements.
Action	No Action Alternative																													-				
Navy Action	Navy Disposal																																	
	Resource	Biological	Resources	(continued)	 · <u>-</u>																			_			_							

Table 2-6 Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives (Continued)

	Nary/Action	Action		Community Reuse Alternatives	ise Alternatives	
Resource Category	Navy Disposal	No Action Alternative	Maximum Gapacity Alternative	MixediUse-Village Alternative	Single Use Campus, Alternative	Residential Alternative
Biological	-		Nonsensitive Species and Habitats	Nonsensitive Species and Habitats	Nonsensitive Species and Habitats	Nonsensitive Species and Habitats
Resources (continued)			Impact. A significant and	Impact: A significant and	Impact: A significant and	Impact: A significant and
			purposes only, would result	purposes only, would result	purposes only, would result	mitigable impact, for CEQA
			from removal of nonsensitive	from removal of nonsensitive	from removal of nonsensitive	purposes only, would result
			species of trees protected under the City of Oakland Tree	species of trees protected under the City of Oakland Tree	species of trees protected under the City of Oakland Tree	species of trees protected under
			Ordinance, Mitigation planning	Ordinance. Mitigation planning	Ordinance. Mitigation planning	the City of Oakland Tree
			requires more specific site grading and development plans	requires more specific site grading and development plans	requires more specific site grading and development plans	Ordinance. Mitigation planning requires more specific site
			in order to account for the number of trees that could be affected.	in order to account for the number of trees that could be affected.	in order to account for the number of trees that could be affected	grading and development plans in order to account for the number of trees that could be affected.
			Mitigation: When a more specific site plan for development (i.e. grading) of the area is presented to the City, a tree removal permit	Mitigation: Same as indicated for the Maximum Capacity Alternative.	Mitigation: Same as indicated for the Maximum Capacity Alternative.	Mitigation: For Options 1 and 2, same as indicated for the Maximum Capacity Alternative.
			any protected trees that are to be removed. The applicant would		٠.	
			have to conduct a site-specific survey of which trees would be removed and comply with all			
			ordinance.			
Water Resources	No impacts are expected.	No impacts are expected.	No significant water resources impacts would result from implementation of the Maximum Capacity Alternative, because no substantial flooding or erosion, adverse impacts to the quality of	No significant water resources impacts would result from implementation of the Mixed Use Village Alternative, because no substantial flooding or erosion, adverse impacts to the quality of	No significant water resources impacts would result from implementation of the Single Use Campus Alternative, because no substantial flooding or erosion, adverse impacts to the quality of	No significant water resources impacts would result from implementation of Options 1 and 2 of the Residential Alternative, because no substantial flooding or erosion, adverse impacts to the
			any significant water body, such as stream, lake, or bay, or	any significant water body, such as stream, lake, or bay, or.	any significant water body, such as stream, lake, or bay, or	quality of any significant water body, such as stream, lake, or bay,
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Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives (Continued) Table 2-6

Naw Action	E C	Maximum Capacity.	Community Reuse Alternatives Mixed Use Village Single Use	se Alternatives. Single Use Gampus	Residential
	Alfernative.	exposure of people to reasonably foreseeable hydrologic hazards, such as flooding would occur.	exposure of people to reasonably foreseeable hydrologic hazards, such as flooding would occur	exposure of people to reasonably foreseeable hydrologic hazards, such as flooding would occur.	or exposure of people to reasonably foreseeable hydrologic hazards, such as flooding would occur.
No impacts are expected.	No impacts are expected.	Public Exposure to Earthquakes Impact: A significant and mitigable impact, for purposes of CEQA only, would result from increasing the number of people and structures near the geologically active Hayward Earthquake Fault by implementing the Maximum Capacity Alternative. Although the physical changes required to implement the Maximum Capacity Alternative will not change the likelihood of an earthquake, increasing the number of people and structures in the vicinity of an active earthquake fault is considered a significant (and mitigable) impact under the CEQA guidelines. Mitigation: At a minimum, seismic upgrades to reduce life safety risks associated with safety risks associated with andoerate-probability marhouske, should be performed	Public Exposure to Earthquakes impact: A significant and mitigable impact, for purposes of CEQA only, would result from increasing the number of people and structures near the geologically active Hayward Earthquake Fault by implementing the Mixed Use Village Alternative. Although, the physical changes required to implement the Maximum capacity Alternative will not change the likelihood of an earthquake, increasing the number of people and structures in the vicinity of an active earthquake fault is considered a significant (and mitigable) impact under the CEQA guidelines Mitigation: A detailed, site- specific seismic evaluation should be performed to identify and quantify the potential hazards associated with reuse of existing structures. Because of the	Public Exposure to Earthquakes Impact: A significant and mitigable impact, for purposes of CEQA only, would result from increasing the number of people and structures near the geologically active Hayward Earthquake Fault by implementing the Single Use Campus Alternative. Although the physical changes required to implement the Maximum capacity Alternative will not change the likelihood of an earthquake, increasing the number of people and structures in the vicinity of an active earthquake fault is considered a significant (and mitigable) impact under the CEQA guidelines. Mitigation: Same as indicated for the Mixed Use Village Alternative.	Impact: A significant and mitigable impact, for purposes of CEQA only, would result from increasing the number of people and structures near the geologically active Hayward Earthquake Fault by implementing the Options 1 and 2 of the Residential Alternative. Although the physical changes required to implement the Maximum Capacity Alternative will not change the likelihood of an earthquake, increasing the number of people and structures in the vicinity of an active earthquake fault is considered a significant (and mitigable) impact under the CEQA guidelines. Mitigation: New housing units would be designed, at a minimum, to meet the requirements of the California Bullding Code. Because NMCO
		prior to reuse to meet life safety criteria. Any existing	proximity of NMCO to the Hayward Fault, all new		Hayward Fault and because some of the proposed

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Table 2-6 Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives (Continued)

	Residential Alfernative	development would be in areas underlain by thick alluvium, the structures. should be designed to account for site specific conditions. Slope Stability Impacts Would result from slope failure under the Residential Alternative. The potential for slope failures to impact developed areas under the Residential Alternative would be similar to the potential for failures under the Maximum codevelopen areas under the Maximum codevelopment is proposed in the northern corner of the property above the existing landslide deposit identified by Nilsen (1975). The proposed development area gorresponds with the area of existing development, so that it is Unlikely that slope failure would occur provided that the existing terrain is not severely altered.
Community Reliee Alfernatives	Single Use Campus Alternative	Slope Stability Impact: Significant and mitigable impacts would result from slope failure under the Single Use Campus Alternative. Impacts would be similar to the Maximum Capacity Alternative, except that no development is planned on the ridgetop in the northern corner of the property, nearest the existing landslide deposits.
Community Re	Mixed Use Village Alternative	structures should be designed to meet the site specific seismic design criteria. Slope Stability Impact: Significant and mitigable impacts would result from slope failure under the Mixed Use Village Alternative. As with the Maximum Capacity Alternative, slope failure could result in significant and mitigable impacts under the Mixed Use Village Alternative. Impacts would be similar to the Maximum Capacity Alternative, except that no development is planned on the ridgetop in the northern corner of the property, nearest the existing landslide deposits.
	Maximum Gapacity Alternative	for future use should be evaluated in detail to determine the cost- effectiveness of seismic upgrades. Existing utilities needed to support emergency services should be evaluated prior to reuse to determine if upgrades are needed to meet existing code requirements. Slope Stability Impact: Significant and mitigable impacts would result from slope failure under the Maximum Capacity Alternative. Since most of the areas proposed for future development are already developed, significant and mitigable impacts on slope stability probably would be limited to those areas at the base of steep slopes.
ction	No Action Alternative	
Navy Action	Navy Disposal	
	Resource Category	Geology and Soils continued)

Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives (Continued) Table 2-6

	Navy	Navy Action		Community.Reu	Community Reuse: Alternatives	
Resource Gategory	Navy Disposal	No Action Alternative	Maximum Capacity Alternative	Mixed Use Village Affernative	Single Use Campus Alternative	Residential Alternative
Geology and Soils (continued)			Mitigation: Development on slopes greater than 30 percent should be minimized. Grading permits from the City of Oakland will be required. Compliance with requirements of the grading permit should reduce risks of slope failure in new development areas. Geotechnical investigations should be conducted to identify potential geologic hazards that may affect new building or road sites in potentially vulnerable areas, adjacent to or including slopes greater than 20 percent. Stability of the slope underlain by existing landslide deposits at the north end of the site should be specifically evaluated to identify potential hazards to development in this area.	Mitigation: Same as indicated for the Maximum Capacity Alternative.	Mitigation: Same as indicated for the Maximum Capacity Alternative.	Mitigation: For Options I and 2, same as indicated for the Maximum Capacity Alternative.
Traffic and Circulation	No impacts are expected.	No impacts are expected.	Impact: A significant and mitigable impact would result from a substantial increase in traffic congestion at five project area intersections due to peak hour traffic from the Maximum Capacity Alternative. Significant and mitigable impacts to the following intersections would occur:	Impact: A significant and mitigable impact would result from a substantial increase in traffic congestion at five project area intersections due to peak hour traffic from the Mixed Use Village Alternative. Significant and mitigable impacts to the following intersections would occur:	Impact: A significant and mitigable impact would result from a substantial increase in traffic congestion at four project area intersections due to peak hour traffic from the Single Use Campus Alternative, Significant and mitigable impacts to the following intersections would occur:	Impact: A significant and mitigable impact would result from a substantial increase in traffic congestion at two project area intersections due to peak hour traffic from the Residential Alernative (Option 1). Significant and mitigable impacts to the following intersections would occur:

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Table 2-6 Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives (Continued)

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	Residential Alternative	Keller / I-580 southbound off- ramp; and	Keller / Mountain Boulevard.				Mitigation: Same as indicated for the Maximum Capacity	Alternative.	Impact: A significant and mitigable impact would result	from a substantial increase in	traffic congestion at four project	hour traffic from the Residential	Alternative (Option 2).	The traffic impacts for the	Residential Alternative (Option 2)	Maximum Capacity Alternative.	The intersections that would be	significantly impacted are as follows:	71. 7031/ 11.2	Aelier / 1-360 southbound off-ramp;	Keller / Mountain	Boulevard;	Mountain Boulevard / 1-580 northbound off-ramp; and
use Alternatives	Single Use Campus Alternative	Keller / 1-580 southbound off- ramp;	Keller / Mountain Boulevard;	Mountain Boulevard / 1-580 northbound off-ramp; and	Mountain Boulevard / Main Entrance		Mitigation: Same as indicated for the Maximum Capacity	Alternative.			-							-					
Community. Reuse Alternatives	Mixed Use Village Alternative	Keller / I-580 southbound off- ramp;	 Keller / Mountain Boulevard; 	 Mountain Boulevard / I-580 northbound off-ramp; 	 Mountain Boulevard / Main Fortrance, and 	Mountain Boulevard / Golf Links Rd.	Mitigation: Same as indicated for the Maximum Capacity	Alternative.										-					
	Maximum Capacity Alternative	Keller / I-580 southbound off- ramp;	 Keller / Mountain Boulevard; 	Mountain Boulevard / 1-580 northbound off-ramp;	 Mountain Boulevard / Main Entrance; and 	• Mountain Boulevard / Golf Links Rd.	Mitigation: The installation of traffic signals at the above	locations along with minor lane	mitigate the impacts to a level of	nonsignificance.	Along with the installation of	traffic signals at the Keller Avenue intersections, it would be	necessary to restripe the traffic	lanes on the Keller Avenue / I-580	overcrossing to provide two lanes	westbound. This would require.	reversing the direction of the	center lane, which currently serves westbound traffic. The	mitigation measures described	above would reduce the traffic impacts to a level of	nonsignificance.	,	₹.
ction	No Action Alternative																						•
Navy Action	Navy Disposal					-		· ·															
	Resource	Traffic and Circulation	(continued)																				

Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives (Continued) Table 2-6

	ämpus ve - Alternative	Mountain Boulevard / Main Entrance. Mitigation: Same as indicated for the Maximum Capacity Alternative.	tand tand traffic-related Ozone Precursor Emissions traffic-related from an increase in traffic- related ozone precursor ssions. This emissions. Traffic associated with Options 1 and 2 of the with Options 1 and 2 of the Residential Alternative would generate nitrogen oxide emissions which exceed the pounds also BAAQMD impact significance threshold of 80 pounds per day. No Mitigation: Same as indicated for the Maximum Capacity Alternative.
Community Reuse Alternatives	Single Use Campus Alternative	.	Traffic-related Ozone Precursor Emissions Impact: A significant and mitigable impact would result from an increase in traffic-related ozone precursor emissions. This impact is the same as described for the Maximum Capacity Alternative, where traffic-related ozone precursor emissions and reactive organic compounds also would exceed the 80 pounds per day BAAQMD significance threshold. No Mitigation: Same as indicated for the Maximum Capacity Alternative.
Community Re	Mixed Use Village Alternative		Emissions Emissions Impact: A significant and unmitigable impact would result from an increase in trafficrelated ozone precursor emissions. Traffic associated with the Mixed Use Village Alternative would generate nitrogen oxide emissions which exceed the BAAQMD impact significance threshold of 80 pounds per day. No Mitigation: Same as indicated for the Maximum Capacity Alternative.
	Maximum Capacity :: Alternative		Emissions Emissions Impact: A significant and unmitigable impact would result from an increase in traffication related ozone precursor emissions. Traffic associated with the Maximum Capacity Alternative would generate reactive organic compounds and nitrogen oxide emissions which exceed the BAAQMD impact significance threshold of 80 pounds per day. No Mitigation. The air emissions analysis already accounts for voluntary trip reduction program efforts (five percent of total trips) and multi-purpose linked trips (five percent of total trips). This reduction in trips slightly decreases the estimated volume of air emissions. New roadways within the NMCO site would include sidewalks and bicycle facilities according to City of Oakland standards. Since state law effectively.
.ction	No Action Alternative		No impacts are expected.
Navy Action	Navy Disposal		No impacts are expected.
	Resource	Traffic and Circulation (continued)	Air Quality

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Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives (Continued) Table 2-6

			21	esult lated ntial	80 80	cated		_				
	Residential Alternative		Traffic-related PM 10 Emissions	Impact: A significant and unmitigable impact would result from an increase in traffic-related PM, to emissions. The Residential	Alternative (Options 1 and 2) would generate emissions above the BAAQMD threshold of 80 pounds per day for PM ₁₀ emissions.	No Mitigation: Same as indicated for the Maximum Capacity Alternative.		· .				-
Community Reuse/Altetratives	Singlei⊍se Campus Alternative		Traffic related PM 10 Emissions	Impact: A significant and unmitigable impact would result from an increase in traffic-related PM ₁₀ emissions. The Single Use	Alternative would generate emissions above the BAAQMD threshold of 80 pounds per day for PM ₁₀ emissions.	No Mitigation: Same as indicated for the Maximum Capacity Alternative.						
Community Rel	Mixed Use.Village. Alternative		Traffic-related PM 10 Emissions	Impact: A significant and unmitigable impact would result from an increase in traffic-related PM ₁₀ emissions. The Mixed Use	Alternative would generate emissions above the BAAQMD threshold of 80 pounds per day for PM ₁₀ emissions.	No Mitigation: Same as indicated for the Maximum Capacity Alternative.						
	Maximum Capacity Alternative	mandatory trip reduction programs, few mechanisms are available to the City of Oakland for achieving significant additional trip and emission reduction.	Trafficrelated PM10 Emissions	Impact: A significant and unmitigable impact would result from an increase in traffic-related PM ₁₀ emissions. The Maximum	Capacity Alternative would generate emissions above the BAAQMD significance threshold of 80 pounds per day for PM ₁₀ emissions.	No Mitigation. The air emissions analysis already accounts for voluntary trip reduction program efforts (five percent of	total trips) and multi-purpose linked trips (five percent of total	slightly decreases the estimated volume of air emissions. New	effectively precludes	trip reduction programs, few	City of Oakland for achieving	emission reduction.
ction	No Action **											
Navy Action	Navy Disposal											
	Resource Category	Air Quality (continued)										

Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives (Continued) Table 2-6

	Navy Action	Vetion		Community Reuse Alternatives	ise Alternatives	
Resource	Navy Disposal	No Action Alternative	Maximum Capacity Alternative	Mixed Use Village Alternative	Single Use Campus Alternative	Residential Alternative
Air Quality (continued)			Dust from Demolition and Construction	Dust from Demolition and Construction	Dust from Demolition and Construction	Dust from Demolition and Construction
			Impact: A significant and mitigable impact would result	Impact: A significant and mitigable impact would result	Impact: A significant and mitigable impact would result	Impact: A significant and mitigable impact would result
_			from dust generation associated with building demolition,	from dust generation associated with building demolition,	from dust generation associated with building demolition,	troin dust generation associated with building demolition,
			renovation, and construction activities. Demolition,	renovation, and construction activities. Demolition,	renovation, and construction activities. Demolition,	renovation, and construction activities. Demolition,
			construction, and building	construction, and building	construction, and building renovation under the Single Use	construction, and building renovation under the Options 1
			Capacity Alternative would	Village Alternative would occur	Campus Alternative would occur	and 2 of the Residential
			occur incrementally over an	incrementally over an extended	incrementally over an extended	Alternative would occur
			precluding specific estimates of	specific estimates of	specific estimates of	buildout period, precluding
			construction-related emissions	construction-related emissions	construction-related emissions	specific estimates of
			for any particular year.	for any particular year.	ior any particular year.	for any particular year.
			Construction-related dust can be	Construction-related dust can be	Construction-related dust can be	
	. •		reduced to acceptable (nonsignificant) levels by	nonsignificant) levels by	reduced to acceptable (nonsignificant) levels by	Construction-related dust can be reduced to acceptable
			following normal dust control measures.	following normal dust control measures.	following normal dust control measures.	(nonsignificant) levels by following normal dust control
_						measures.
			Mitigation: Use the following dust control practices during	Mitigation: Same as indicated for the Maximum Capacity	Mitigation: Same as for the Maximum Capacity Alternative.	Mitigation: For Options 1 and 2, same as indicated for the
			demolition, construction, and renovation activities:	Alternative.		Maximum Capacity Alternative.
	-		Use mowing rather than discine for weed control, thus			-
÷			minimizing ground distur- bance and leaving a soil cover			
			in place;		-	
	•		Seed and water inactive nortions of construction sites			
			to maintain a grass cover;			

Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives (Continued) Table 2-6

	Navy	Navy Action		Community Reuse Alternatives	ise Alternatives	
Resource Category	Navy Disposal	No Action Alternative	Maximum Capacity Alternative	Mixed Use Village Alternative	Single Use Campus Alternative	Residential Alternative
Air Quality (continued)			Minimize the area disturbed by clearing, earthmoving, or excavation activities;			
			Prevent excessive dust genera- tion by using water or dust control solutions on all un- paved areas subject to vehicle traffic, grading or excavation;			
·			Ensure that any petroleum- based dust control products used on the site meet BAAQMD regulations for cutback asphalt paving materials;		-	
			• Halt all site clearing, grading, earthmoving, and excavation activities during periods of sustained strong winds (hourly average wind speeds of 20 mph or greater);			
			Sweep streets adjacent to the construction site as necessary to remove accumulated dust and soil; and			
			Properly maintain all construction vehicles and avoid excessive idling of inactive equipment.			
Noise	No impacts are expected.	No impacts are expected.	Construction and Demolition	Construction and Demolition	Construction and Demolition	Construction and Demolition
			mitigable impact would result from temporary noise disturbanse to adjacent land uses associated with demolition,	mitigable impact would result from temporary noise disturbance to adjacent land uses associated with demolition,	mitigable impact would result from temporary noise disturbance to adjacent land uses associated with demolition,	mitigable impact would result from temporary noise disturbance to adjacent land uses associated with demolition,

Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives (Continued) Table 2-6

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Resource Navy	Navy Disposal	No Action Alternative	Maximum Capacity Alternative	Mixed Use Village Alfernative	Single Use: Campus Alternative	Residential Alternative
Noise (continued)			construction, and remodeling of buildings on the NMCO site. Building demolition, and new	construction, and remodeling of buildings on the NMCO site. This impact is the same as	construction, and remodeling of buildings on the NMCO site. This impact is the same as	construction, and remodeling of buildings on the NMCO site. For Options 1 and 2, this impact
			roadway reconstruction would be the most substantial noise	indicated for Maximum Capacity Alternative.	indicated for Maximum Capacity Alternative.	is the same as indicated for the Maximum Capacity Alternative.
			sources. Community Noise			
_			could exceed 70 dB for locations		-	
		,	within about 400 feet of the	-		
			Any occupied residential			
			locations within 400 feet of			
			experience substantial temporary			
			disturbance from construction			
			noise. This would result in a			
			significant and mitigable impact.			
			The Maximum Capacity Alternative is dominated by land			
			uses that are considered noise-			
		٠	sensitive. The phasing of			
			construction and occupancy			
			would determine the extent to which demolition and construct-			
			ion activities cause impacts to			
			on-site land uses. Most existing			
			off-site residential development			
			major construction areas to			
			avoid noise impacts.			
			Construction activities within			
			boundary could cause temporary		. •	
			noise impacts on the			
			surrounding property.			

Table 2-6 Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives (Continued)

	Kesidential Alternative	Mitigation: For Options 1 and 2, same as indicated for the Maximum Capacity Alternative.	Noise Exposure of Proposed Land Uses	Impact: A significant and mitigable impact would result from traffic noise. For Options 1 and 2, this impact is the same as indicated for the Maximum Capacity Alternative.
use Algernatives	Single Use Campus Alternative	Mitigation: Same as indicated for Maximum Capacity Alternative.	Noise Exposure of Proposed Land Uses	Impact: A significant and mitigable impact would result from traffic noise. This impact is the same as indicated for Maximum Capacity Alternative.
Community Reuse Alternatives	Mixed Use Village Alternative	Mitigation: Same as indicated for Maximum Capacity Alternative,	Noise Exposure of Proposed Land Uses	Impact: A significant and mitigable impact would result from traffic noise. This impact is the same as indicated for Maximum Capacity Alternative.
	Maximum Capacity Alternative	Mitigation: Construction noise impacts could be reduced by restricting most construction activity to normal daytime (7:00 am to 7:00 pm) periods. Careful phasing of demolition, construction, and remodeling activities should be implemented to minimize the extent to which occupied areas are exposed to construction noise.	Noise Exposure of Proposed Land Uses	Impact: A significant and mitigable impact would result from traffic noise. The western side of the NMCO site would experience high noise levels from traffic on I-580 and, to a lesser extent, Mountain Boulevard. Areas within 500 feet of Mountain Boulevard will generally be exposed to CNEL levels above 65 dB. CNEL levels above 65 dB are higher than normally acceptable levels for residential or other noise-sensitive land uses.
Navy Action	No Action Alternative			
NavyA	Navy Disposal			
	Resource	Noise (continued)		

Table 2-6 Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives (Continued)

	Navy Action	ction		Community Reuse Alternatives	ise Alternatives	
Resource	Navy Disposal Alternative	No Action Alternative	Maximum Capacity Alternative	Mixed Use Village Alternative	Single Use Gampus Alternatiye	Residential Alternative
Noise (continued)			Mitigation: Indoor noise levels could be adequately reduced through building design. Outdoor noise levels could be controlled through the use of berms/sound-walls, vegetation buffer areas, building configurations, and other site planning tools, or by placing sensitive land uses beyond 500 feet from Mountain Boulevard.	Mitigation: Same as indicated for Maximum Capacity Alternative.	Mitigation: Same as indicated for Maximum Capacity Alternative.	Mitigation: For Options 1 and 2, same as indicated for the Maximum Capacity Alternative.
Utilities	No impacts are expected.	No impacts are expected.	Impact 1. Potable Water Supply. A significant and mitigable impact would result from an increased water supply demand of about 112 percent over the historic annual demand. The Maximum Capacity Alternative is estimated to increase population in the region of influence by 3,006 which includes 1,565 residential users, and 1,441 commercial users (please see Table 4-5). Multiplying 1,565 residential users times an estimated 120 gallons per day per residential user (Department of Water Resources 1994a) equals 187, 800 gallons of residential use per day. Multiplying 1,441 commercial users times an estimated 70 gallons of residential use per day. Multiplying 1,441 commercial users times an estimated 70 gallons per day per commercial user (Department of Water Resources 1994b) equals 100,870 gallons of commercial use per	No significant impacts to utilities systems or waste management service and landfill capacity would result under the Mixed Use Village Alternative.	No significant impacts to utilities systems or waste management service and landfill capacity would result under the Single Use Campus Alternative.	No significant impacts to utilities systems or wate management service and landfill capacity would result under the Residential Alternative.

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Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives (Continued) Table 2-6

pus Residential Alternative							
Single Use Campus Alternative							
Mixed Ose Village Alternative							
Maximum Gapacity Alternative	day. Adding these estimated daily residential (187,800 gallons) and commercial (100,870) uses equals 288,670 gallons per day estimated water use on site.	Multiplying this use rate times 365 days subtotals 105,364,550 gallons. Adding at estimated 85,490,000 gallons per year to	irrigate the 83-acre golf course (based on an irrigation rate of 1.03 million gallons per acre per year) totals 190,854,550 gallons	per year estimated potable water demand. This represents an increase of about 112 percent over the estimated historic annual use of 90,000,000 gallons per year.	Mitigation 1. The City of Oakland will expressly identify the water supplier(s) that will provide water service to the alternative (Cal. Pub. Res. Code Section 21151.9; Cal. Wat. Code	Sections 10910-10915). The City will ask those suppliers whether the water demand associated with the alternative has been included and assessed in the	suppliers' urban water management plans, and will require such plans to be updated
No Action Alternative							
Navy Disposal							
Resource Category	Utilities (continued)						

Table 2-6
Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives (Continued)

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	ximum Gapaci Alternative	Government Code Sections 65352 and 65352.5 require cities to consult with water suppliers in connection with such proposed projects. Moreover, Government Code Section 65302, subdivision (d), requires cities to coordinate with such suppliers in preparing the conservation elements of their general plans. That coordination is required to include the discussion and evaluation of any water supply and demand information described in Section 6532.5, if that information has been submitted by the water agency to the city. In addition to supplier identification and coordination, the following best management practices will be implemented by future site developers: • Interior and exterior water audits and incentive programs for single family residential, and commercial users; • requirement of ultra low flush toilets in all new construction; • distribution system water audits, leak detection and repair; • metering for all new connections and billing by volume of use:
	Maximi Alto	vernment Coc obsult with w connection with possed projects vernment Coc observation elen- neral plans. The required to incl cussion and ev- cussion and ev- cussion and ev- pliers in prepa ormation elen- neral plans. The required to incl cussion and ev- ormation desc ormation desc ordination, the magement prac plemented by fuel- plemented by fuel- relopers: Interior and ex- audits and ince for single famil multi-family re- commercial us commercial us connections, distribution sy audits, leak det repair; metering for al connections and ex-
.	W	Government (Government (Government (GS)22 and 653. In connection proposed to the consult with in connection of Government (GS)302, subdivicities to coord suppliers in promervation e general plans. Is required to information and discussion and water supply a information of GS)32.5, if that information of GS)32.5, if that information of the submitter identities and information. • Interior and audits and if for single famulti-family commercial construction. • Interior and audits and if construction and its in all construction. • distribution
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	No Action Alternative	
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Table 2-6 Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives (Continued)

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	ium Capacit ternative	water au I recreat	water conservation 1gle family homes;	hibition	on of these water	h the guidelines	Jnderst	ban Water in California	rban Water Council 1994).	tion,	and best	ould red	cts to a	ply syste	capacity prior to approval.	ıt impacı	waste	e and lar alt under	y Altern	about 71	significant but	ve impac
		large landscape water audits (golf course and recreational areas);	landscape water conservation for new single family homes; and	water waste prohibitions.	tation of	with the	dum of U	Urban Jion in C		lentifica		nt practices	oly impa icant lev	ater sup	iate caps int appre	ignificar	tems or	nt servic ould rest	Capacity	tion of a	e a signi	umulati
	Maxin A	large la (golf co areas);	landscape for new sir	water 9	Implementation of these water conservation practices will be	consistent with the guidelines	Memorandum of Understanding	Regarding Urban Water Conservation in Califori	(California Urban Water Conservation Council 19	Supplier identification,	coordination,	management practices implementation would reduce	water supply impacts to a less than sienificant level by ensuring	that the water supply system will	have adequate capacity development approval	No other significant impacts to	utilities systems or waste	management service and landfills capacity would result under the	Maximum Capacity Alternative.	The generation of about 71,346	however, be a	mitigable cumulative impact, and
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	Resource	Utilities (continued)																				
	F	Utilities																				

Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives (Continued) Table 2-6

	Navy Action	Action		Community Re	Community Reuse Alternatives	
Resource Category	Navy Disposal	No Action Alternative	Maximum Capacity Alternative	Mixed Ose Village Alternative	Single Use Campus Alternative	Residential
Utilities (continued)			is discussed in Chapter 5 of this EIS/EIR.			
Hazardous Materials and Waste	No impacts are expected.	No impacts are expected.	There will be no significant hazardous materials and waste impacts from implementation of the Maximum Capacity Alternative, because the relatively low quantities of such materials and wastes generated would not result in releases that could expose the public or the environment to hazardous levels of substances.	Same as indicated for Maximum Capacity Alternative.	Same as indicated for Maximum Capacity Alternative.	For Options 1 and 2, same as indicated for the Maximum Capacity Alternative
Cumulative Impacts	No impacts are expected.	No impacts are expected.	Intigable impact may result from adding students to the capacity constrained local schools due to the project and cumulative development. Mitigation: Mitigation measures to reduce overcrowding to less than significant levels would include the following: (1) reassigning students among district schools to account for changing population and new development; (2) continuation and expansion of year-round schools; (3) more efficient use of undertuilized and/or abandoned school facilities; (4) the addition of portable classrooms; and (5) the busing of students to less crowded schools. If these measures do not	Socioeconomics Impact: A significant and mitigable impact may result from adding students to the capacity-constrained local schools due to the project and cumulative development. Mitigation: Same as indicated for Maximum Capacity Alternative.	Socioeconomics Impact: A significant and mitigable impact may result from adding students to the capacity-constrained local schools due to the project and cumulative development. Mitigation: Same as indicated for Maximum Capacity Alternative.	Socioeconomics Impact: A significant and mitigable impact may result from adding students to the capacity-constrained local schools due to the project and cumulative development. Mitigation: For Options 1 and 2, same as indicated for the Maximum Capacity Alternative.
			SCHOOLS, 11 נווכאס וווכמטעוכט עט ווטנ			

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Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives (Continued) Table 2-6

	• .	
	Residential Alternative	
	:	
Community Reuse Alternatives	Single Use Campus Atternative	
Community Ro	Mixed Use Village Alternative	
	Maximum Capacity Alternative	reduce overcrowding, OUSD may have to expand existing schools or construct new schools. All of these measures would require varying amounts of funding. If current sources of funding. If current sources of funding. If including the City of Oakland school mitigation fees, increases in property tax and sales tax revenues, and increases in state funding are insufficient to pay for the cost of mitigation fees on funding hunds. Funding sources which may be considered by the OUSD would formulate and implement specific measures to raise additional funds. Funding sources which may be considered by the OUSD include: (1) adjustments of school mitigation fees on commercial and residential development; (2) the creation of special assessment or Mello Roos districts or Acilities District; (3) sale of surplus OUSD property; and (4) any other funding mechanism available to the OUSD by state law or local ordinances, including those measures identified in the OUSD's Developer Fee Justification Study (OUSD 1996).
ction	No Action Alternative	
Navy Action	Navy Disposal	
	Resource	Cumulative Impacts (continued)

Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives (Continued) Table 2-6

Residential Alternative	Traffic and Circulation Impact: A significant and mitigable impact would result from peak hour traffic substantially increasing traffic congestion at three project intersections, which were analyzed for cumulative conditions.	Mitigation: For Options 1 and 2, same as indicated for the Maximum Capacity Alternative.	
use Alternatives. Single Use Campus Alternative	Traffic and Circulation Impact: A significant and mitigable impact would result from peak hour traffic substantially increasing traffic congestion at three project intersections, which were analyzed for cumulative conditions.	Mitigation: Same as indicated for Maximum Capacity Alternative.	
Community Reuse Alternatives Mixed Use Village Single C Alternative	Traffic and Circulation Impact: A significant and mitigable impact would result from peak hour traffic substantially increasing traffic congestion at three project intersections, which were analyzed for cumulative conditions.	Mitigation: Same as indicated for Maximum Capacity Alternative:	
Maximum Capacity Alternative	Traffic and Circulation Impact: A significant and mitigable impact would result from peak hour traffic substantially increasing traffic congestion at three project intersections, which were analyzed for cumulative conditions. These intersections	Keller/I-580 southbound off-ramp; Keller/Mountain Boulevard; and Mountain Blvd./I-580 northbound off-ramp. Mitigation: The installation of traffic signals at the above locations along with minor lane changes (i.e. restriping, etc.) would mitigate the impacts to a level of nonsignificant.	Along with the installation of traffic signals at the Keller Avenue intersections, it will be necessary to restripe the traffic lanes on the Keller Avenue/1.580 overcrossing. The restriping will provide two lanes eastbound and one lane westbound. This would require reversing the direction of the center lane, which currently serves westbound traffic.
Navy Action No Action Navy Disposal Alternative			-
Resource Category	Cumulative Impacts (continued)	. ·	

Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives (Continued) Table 2-6

	Residential Alternative	·	Air Quality	Impact: A significant and unmitigable impact would result from regional ozone precursor and PM ₁₀ concentrations that	exceed state air quality standards. This impact is due to vehicle emissions associated with traffic	from project plus cumulative development.	No Mitigation: For Options 1 and	2, same as indicated for the Maximum Capacity Alternative.													
use/Alrematives	Single Use Campus Alternative		Air Quality -	Impact: A significant and unmitigable impact would result from regional ozone precursor and PM ₁₀ concentrations that	exceed state air quality standards. This impact is due to vehicle emissions associated with traffic	from project plus cumulative development.	No Mitigation: Same as indicated	for the Maximum Capacity Alternative,							:						
(Community Reuse Alfernatives	Mixed Use Village Alternative		Air Quality	Impact A significant and unmitigable impact would result from regional ozone precursor and PM ₁₀ concentrations that	exceed state air quality standards. This impact is due to vehicle emissions associated with traffic	from project plus cumulative development.	No Mitigation: Same as indicated	for the Maximum Capacity Alternative													
	Maximum Capacity.	The mitigation measures described above would reduce the traffic impacts to a level of nonsignificant.	Air Quality	Impact: A significant and unmitigable impact would result from regional ozone precursor and PM, concentrations that	exceed state air quality standards. This impact is due to vehicle emissions associated with traffic	from project plus cumulative development.	No Mitigation: Cumulative air	quality issues in the San Francisco Bay Area are addressed	through regional air quality	plans developed jointly by the Bay Area Air Ouality	Management District	(BAAQMD), the Association of	Metropolitan Transportation	Commission. These plans reflect	transportation patterns, and are	subject to periodic review and	require most new industrial	facilities to fully offset emissions	that would be generated by their	impacts from the reuse	alternatives are related to vehicle
vetion	No Action: Alternative																				
Navy Action	Navy Disposal																				
	Resource	Cumulative Impacts (continued)																			

Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives (Continued) Table 2-6

	Navy	Navy Action		Community Rec	Community Reuse Alternatives	
Resource	Navy Disposal	No Action Alternative	Maximum Capacity Alternative	Mixed Use Village Affernative	Single Use Campus Alternative	Residential Alternative
Cumulative Impacts (continued)			emissions, which relies on voluntary reduction in vehicle trips for mitigation. Therefore, this impact cannot be fully mitigated.			
	<u>.</u>	_	Utilities	Utilities	Utilities	Utilities
			Impact: A significant and mitigable impact would occur if	Impact: A significant and mitigable impact would occur if	Impact: A significant and mitigable impact would occur if	Impact: A significant and mitigable impact would occur if
			and recycling) goals are not met	and recycling) goals are not met	solid waste diversion (reduction and recycling) goals are not met on a regional basis. There is a	and recycling) goals are not met
			current capacity shortfall of about	current capacity shortfall of about	current capacity shortfall of about	current capacity shortfall of about
		٠.	capacity to meet projected needs through the year 2010.	capacity to meet projected needs through the year 2010.	capacity to meet projected needs through the year 2010.	capacity to meet projected needs through the year 2010.
			Demolition of the hospital and all other buildings that would not be	Demolition of the hospital and all other buildings that would not be	Demolition of the hospital and all other buildings that would not be	Demolition of the hospital and all other buildings that would not be
		-	used as part of one of the reuse	used as part of one of the reuse alternatives, would result in about	used as part of one of the reuse alternatives, would result in about	used as part of one of the reuse alternatives, would result in about
			71,346 tons of waste. Of this	71,346 tons of waste. Of this	71,346 tons of waste. Of this	71,346 tons of waste. Of this
			about 51 percent of the demoli-	about 51 percent of the demoli-	about 51 percent of the demoli-	about 51 percent of the demoli-
			tion waste would be generated by demolishing the hospital building.	tion waste would be generated by demolishing the hospital building.	tion waste would be generated by demolishing the hospital building.	demolishing the hospital building.
			Demolition of the remaining	Demolition of the remaining	Demolition of the remaining	Demolition of the remaining
			remaining 34,730 tons.	remaining 34,730 tons.	remaining 34,730 tons.	remaining 34,730 tons.
			The 71,346 tons of waste	The 71,346 tons of waste	The 71,346 tons of waste	The 71,346 tons of waste
		•	represents less than one percent of the existing landfill capacity.	represents less than one percent of the existing landfill capacity.	represents less than one percent of the existing landfill capacity.	represents less than one percent of the existing landfill capacity.
			Although it is a very small	Although it is a very small	Although it is a very small	Although it is a very small
	-		percentage of available landfill	percentage of available landfill	percentage of available landfill	percentage of available landfill
			capacity, it still represents a	capacity, it still represents a potentially significant impact.	capacity, it still represents a potentially significant impact.	capacity, it still represents a potentially significant impact.
			because of the estimated eight	because of the estimated eight	because of the estimated eight	because of the estimated eight

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Table 2-6
Summary of Significant Environmental Impacts and Mitigations from the Proposed Action and Reuse Alternatives (Continued)

	Navy Action	ction		Community Reuse Alternatives	se Alternatives	
Resource	Navy Disposal	No Action Alternative	Maximum Capacity Alternative	Mixed Use Village Alternative	Single Use Campus Alternative	Residential Alternative
Cumulative Impacts (continued)			million ton shortfall of landfill capacity in the County. This would significantly impact Alameda County's ability to meet their integrated waste management plan diversion goals. This would not be an immediate impact, since existing landfill capacity is adequate to absorb NMCO demolition waste. However, over the long term, in combination with other activities that generate substantial quantities of solid waste that will need to be diverted or landfilled, the generation of this demolition waste represents a potentially significant and mitigable impact. Mitigation: The city shall develop and implement, over the long term and in consultation with the CIWMB, a construction and demolition materials waste diversion program integrating materials exchange, recycling, salvage, and other waste recovery and reuse activities to realize maximum reasonable diversion of that program, combined with long: such materials from landfills. Effective implementa-tion of that program, combined with long term Alameda County policies and plans to expand existing, or acquire and develop new landfill capacity, should accommodate increased volumes of solid waste.	million ton shortfall of landfill capacity in the County. This would significantly impact Alameda County's ability to meet their integrated waste management plan diversion goals. This would not be an immediate impact, since existing landfill capacity is adequate to absorb NMCO demolition waste. However, over the long term, in combination with other activities that generate substantial quantities of solid waste that will need to be diverted or landfilled, the generation of this demolition waste represents a potentially significant and mitigable impact. Mitigation: Same as for Maximum Capacity Alternative.	million ton shortfall of landfill capacity in the County. This would significantly impact Alameda County's ability to meet their integrated waste management plan diversion goals. This would not be an immediate impact, since existing landfill capacity is adequate to absorb NMCO demolition waste. However, over the long term, in combination with other activities that generate substantial quantities of solid waste that will need to be diverted or landfilled, the generation of this demolition waste represents a potentially significant and mitigable impact. Mitigation: Same as for Maximum Capacity Alternative.	million ton shortfall of landfill capacity in the County. This would significantly impact Alameda County's ability to meet their integrated waste management plan diversion goals. This would not be an immediate impact, since existing landfill capacity is adequate to absorb NMCO demolition waste. However, over the long term, in combination with other activities that generate substantial quantities of solid waste that will need to be diverted or landfilled, the generation of this demolition waste represents a potentially significant and mitigable impact. Mitigation: For Options 1 and 2, same as indicated for the Maximum Capacity Alternative.

2.5 ENVIRONMENTALLY PREFERABLE/ENVIRONMENTALLY SUPERIOR ALTERNATIVE

NEPA requires an environmentally preferable alternative be identified and CEQA requires that an environmental superior alternative be identified. The No Action Alternative is the environmentally preferable NEPA alternative and environmentally superior CEQA alternative because no significant impacts would occur under this CEQA alternative. However, consistent with CEQA requirements, one of the reuse alternatives must further be identified as an environmentally superior alternative. NEPA has no such requirement.

The Residential Alternative (Option 1 = 357 dwelling units) is the CEQA environmentally superior CEQA reuse alternative, as described in sections 2.5.1 and 2.5.2.

2.5.1 Identification Process

Identification of an environmentally superior CEQA reuse alternative requires consideration of three major factors. First, the number of significant impacts is important because it shows how many times an alternative could exceed one or more significance thresholds without mitigation. Next, the severity of each significant impact is considered. Some significant impacts are more severe than others. For example, a significant impact to an endangered species (which is not identified in this EIS/EIR) may be more important than a significant noise impact (which is not identified in this EIS/EIR). The context of an impact is also considered. Context generally refers to the relative importance of impacts to the potentially affected region, potentially affected interests, and the locality. For example, a significant socioeconomic impact in an area where socioeconomic improvements are needed may be more important than a significant air quality impact in the same area.

In order to identify an environmentally superior CEQA alternative, environmental impacts were compared across the four reuse alternatives for the issue areas analyzed in Chapters 4 and 5. This comparison was used to determine which alternative would result in the least overall adverse environmental CEQA impact, and could therefore be identified as the environmentally superior reuse alternative. Environmental impacts are substantially similar for the following areas under the four reuse alternatives as shown in Chapter 4:

- Socioeconomics;
- 2. Public Services;
- 3. Cultural Resources;
- 4. Biological Resources;
- Water Resources;
- 6. Geology and Soils;
- 7. Noise;
- 8. Hazardous Materials and Waste.

Other NEPA and CEQA environmental issues evaluated in Chapters 4 and 5 also reflect similarities in potential impacts, as explained below.

These similarities can be confirmed by reviewing the tables summarizing impact determinations at the beginning of each subsection of Chapter 4. Cumulative traffic and circulation impacts identified in Chapter 5 result in significant level of service/delay impacts at the same three intersections (e.g., Keller/Interstate 580 southbound off-ramp, Keller/Mountain Boulevard, and Mountain Boulevard/Interstate 580 northbound off-ramp) regardless of alternative or option. The evaluation of short-term uses versus long-term environmental productivity, irretrievable or irreversible commitment of resources, growth-inducing impacts, and environmental justice are generally equal regardless of reuse alternative or option. These similarities effectively lead to the conclusion that the reuse alternatives are substantially equivalent with respect to their environmental impacts for these issue areas.

2.5.2 Determination of Environmentally Preferable and Environmentally Superior Alternative

The determination of an environmentally superior CEQA alternative was based on a comparison of the differences in the following areas analyzed in Chapter 4, which are:

- 9. Land Use;
- 10. Aesthetics and Scenic Resources;
- 11. Traffic and Circulation;
- 12. Air Quality; and
- 13. Utilities.

For each of these five issue areas, differences in the environmental impacts of the reuse alternatives are reviewed below and compared in Table 2-7. These differences are then considered together to identify the environmentally superior CEQA reuse alternative, which is the Residential Alternative (Option 1).

Table 2-7
Identification of CEQA Environmentally Preferable and Superior Alternative

				Community Re	euse Alternatives	
Impact Issues	Navy Disposal	No Action Alternative	Maximum Capacity Alternative	Mixed Use Village Alternative	Single:Use Campus Alternative	Residential Alternative
Land Use						
Conflicts with existing residential uses	0	0	Φ	•	. Ф	O*
Conflicts with surrounding land uses	Ф	Ф	· O*		Ф	0*
Aesthetics and Scenic Resources						
Visual effect on natural landscape and open space	0	0	. •	⊕*	⊕*	⊕*
Traffic and Circulation						
Intersections experiencing significant level of service/delay impacts (number of intersections)	0	0	(5) .	(5)	1 (4)	1 (2/4)²*
Air Quality						
Traffic-related ozone precursor and PM ₁₀ emissions	0	. 0		•	•	• * .
Utilities Potable water supply	0	Ο.	•	⊕*	Ф*	⊕*

LEGEND:

Level of Impact

Significant and not mitigable

Sígnificant and mitigable

Nonsignificant

🔾 = None

Notes:

Indicates environmentally preferable and environmentally superior alternative for a particular issue area

a - "/" differentiates between Options 1 and 2 for the Residential Alternative, respectively

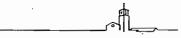
(#) - Numbers in parentheses refer to number of intersections that may experience significant level of service/delay impacts (for Traffic and Circulation).

Land Use

The Residential Alternative is the environmentally superior alternative when considering only land use impacts. Its implementation would conflict the least with existing residential land uses, and the character of surrounding land uses. The Mixed Use Village Alternative could result in significant but mitigable impacts with existing residential uses, rendering it the least compatible alternative with respect to land use.

Aesthetics and Scenic Resources

Construction of housing on Admiral's Hill associated with the Maximum Capacity Alternative could cause significant, but mitigable aesthetic impacts.



The other three reuse alternatives are substantially equivalent in that they would not result in significant aesthetic impacts.

Traffic and Circulation

Option 1 of the Residential Alternative would result in only two intersections experiencing significant and mitigable level of service/delays. It is considered the CEQA environmentally superior alternative with respect to traffic and circulation because it would require less mitigation for environmental impacts than the other reuse alternatives. The other reuse alternatives would result in either four (Residential Alternative Option 2 and Single Use Campus Alternative), or five (Maximum Capacity and Mixed Use Village Alternatives) intersections experiencing significant and mitigable level of service/delay impacts requiring mitigation.

Air Quality

All reuse alternatives would have similar less-than-significant impacts on carbon monoxide levels along area roadways. All of the reuse alternatives would result in traffic-related ozone precursor and PM₁₀ emissions that exceed the BAAQMD impact significance threshold. The Single Use Campus Alternative would generate the highest quantity of air emissions, exceeding the impact thresholds for reactive organic compounds, nitrogen oxide, and PM₁₀ emissions. The other reuse alternatives would exceed the impact significance threshold for nitrogen oxide and PM₁₀ emissions but not for reactive organic compound emissions. Option 1 of the Residential Alternative would generate the lowest quantity of emissions, and thus is the environmentally preferable and superior alternative.

Utilities

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The Maximum Capacity Alternative could cause a significant and mitigable water supply impact by increasing water demand by 112 percent over the estimated historic annual use. This water supply impact is mitigable through effective coordination and implementation of best water conservation management practices. Impacts to potable water use under the Mixed Use Village, Single Use Campus, and Residential alternatives would be nonsignificant because they would use less water than under preclosure conditions.

Summary

Based on this review, the Residential Alternative (Option 1) is the CEQA environmentally superior alternative. It is superior overall with respect to land use and air quality impacts. It requires the least mitigation to keep

traffic and circulation within acceptable levels of service. Similarly, local aesthetics and water supply impacts are equivalently superior for the Mixed Use Village, Single Use Campus, and Residential alternatives. They are each slightly superior to the Maximum Capacity Alternative with respect to potential aesthetic impacts.

The significant, but mitigable aesthetics impacts associated with the Maximum Capacity Alternative may never occur if housing on Admiral's Hill is not built.

2.6 ALTERNATIVES ELIMINATED FROM DETAILED REVIEW

Potential reuse alternatives were discussed at five meetings of the Oakland Base Closure/Conversion Task Force. Participants at two of these meetings divided into ten working groups, five at each meeting. Each group developed a concept plan of the site and identified key issues. Overall concepts and specific land uses from the resulting ten plans were incorporated into the preliminary alternatives. These concepts and land uses were incorporated based on voting conducted by OBRA and on concept plans formulated as part of the reuse planning process described earlier in this chapter.

Ideas ranged from returning the site to primarily open space and recreation uses to a mix of uses, including residences. All of the plans included maintaining the recreational facilities and open space. Explanations are provided below of how some land uses that were suggested during the community meetings, (which are not explicitly identified in the alternatives), may eventually be included in one or more of the alternatives if so desired. Reasons for rejecting two suggested uses of the entire site also are provided.

Partial Use of the Site

- Veteran/retiree health center—None of the alternatives specifically address the medical needs of veterans. It was determined that there was no market demand for such services because they are already met through existing government programs. However, the Maximum Capacity Alternative and the Mixed Use Village Alternative include a health and social services function that could be used by veterans and retirees.
- Fire/police station or emergency command center— Although none of the alternatives specifically include a fire or police station or an emergency command center, these options could be incorporated into any of the proposed alternatives.



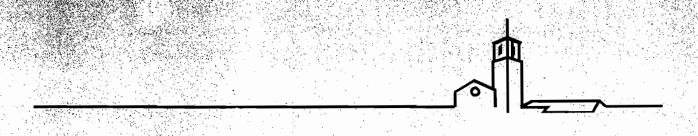
- Art/cultural center, small concert/theater venue, nature center—The cultural/meeting facility in the Mixed Use Village Alternative may be used for these purposes. As a result of meetings among the City of Oakland Department of Parks and Recreation, the Oakland Museum, and the Oakland Public Library, the Parks Department has amended its application for public benefit conveyance to include the Oakland Museum and the Oakland Public Library. These entities would share facilities and establish a cultural center. The cultural and active recreation uses would be combined as a result of this action.
- Artist colony—Although an artist colony is not specified in any of the alternatives, it could be included in the Mixed Use Village Alternative.
- Apprenticeship training, "second chance" training—Training programs
 could be incorporated into social services provided in the Maximum
 Capacity Alternative and the Mixed Use Village Alternative.
- Transitional homeless housing—In all of the alternatives, homeless
 housing would be accommodated as described earlier in Section 1.3.2 of
 this EIS/EIR.
- Consideration of Other Uses by OBRA—OBRA received fourteen public benefit conveyance proposals. Through a series of reviews by the Community Advisory Group and a Technical Review Team in coordination with the City of Oakland, Alameda County and the East Bay Conservation and Reinvestment Commission, four qualified applicants were selected by OBRA and are included in the Maximum Capacity Alternative. These four uses are the Seneca Center, the United Indian Nations proposal, the Oakland Museum, and the Oakland Parks and Recreation Department uses discussed in Section 2.3.2.

Use of the Entire Site

• Return to "original state"—It was determined that complete restoration of the site to its original state would not be feasible, due to lack of funding and technical unfeasibility. It would require removal of all structures and restoration of the land, including a return to the original topography and planting of native vegetation. It would not be possible to return the site completely to its "original state" because the vegetation was radically changed by the Spanish in the 1600-1700's. In particular, native perennial grasslands were replaced by nonnative annual grasslands. Seed sources for all of the species originally present are no longer available. Neither the East Bay Regional Parks District nor the City of Oakland have sufficient funds to restore and maintain

the site in its original state. In addition, it would not generate revenue and would not create jobs, which would not be consistent with OBRA's mission and goals.

Seniors/Community Option-This alternative was included in the preliminary alternatives report, but was replaced with the Maximum Capacity Alternative. Based on community interest and market studies, OBRA decided in a November 1995 meeting that the Seniors/ Community Option would not be considered further. The version of the Maximum Capacity Alternative that replaced it included 30 senior housing units to partially accommodate the needs that were covered by the Seniors/Community Option. However, the August 1996 NMCO Reuse Plan (OBRA 1996) does not include senior housing separately from other housing requirements. Although the Maximum Capacity Alternative in this EIS/EIR does not consider senior housing separately, any of the housing units would be available to seniors. Seniors/Community option included housing, medical, and educational services catering to seniors as well as community retail facilities and a public library. Similar services and facilities are provided in the four reuse alternatives that have been retained.



3.0 AFFECTED ENVIRONMENT

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3.1	LAND USE	3-1
3.2	SOCIOECONOMICS	3-12
3.3	PUBLIC SERVICES	3-24
3.4	CULTURAL RESOURCES	3-30
3.5	AESTHETICS AND SCENIC RESOURCES	3-37
3.6	BIOLOGICAL RESOURCES	3-46
3.7	WATER RESOURCES	3-58
3.8	GEOLOGY AND SOILS	3-64
3.9	TRAFFIC AND CIRCULATION	3-78
3.10	AIR QUALITY	3,96
3.11	NOISE	3-103
3.12	UTILITIES	3-106
3.13	HAZARĐOUS MATERIALS AND WASTE	3-111
57. 337		200

3. AFFECTED ENVIRONMENT

This chapter contains a description of the existing environmental and socioeconomic conditions at Naval Medical Center Oakland (NMCO). This information will serve as the existing conditions and is also used in Chapter 4 to identify and evaluate environmental and socioeconomic impacts resulting from the Navy disposal and community reuse of the facility.

The setting discussion for each resource area identifies the region of influence (ROI) applicable to the specific resource area. An ROI is a geographic area in which impacts for a particular resource would likely occur. The ROI for a resource having regional impacts will be different from the ROI for a resource with localized impacts.

3.1 LAND USE

NMCO is located within the boundaries of Alameda County and the municipal limits of the City of Oakland (City). The site is approximately nine miles southeast of downtown Oakland and 12 miles from the Oakland-San Francisco Bay Bridge. This section describes land uses on the NMCO property and surrounding areas.

The 183-acre site slopes downward from east to west, with the ridge at the eastern edge of the site offering panoramic views. The elevation of the site ranges from 275 to 650 feet above sea level. Site topography is diverse, and approximately 70 percent of the site has slopes steeper than 15 percent. Many of the developed areas have natural slopes of between 10 and 30 percent that required extensive cutting and filling and the construction of berms and retaining walls. The site includes about 135 acres of buildings, roads and parking lots, and recreation facilities and 48 acres of undeveloped land.

The site is bounded on the west by Mountain Boulevard, which is closely paralleled by Interstate 580 (I-580). Keller Avenue runs from Mountain Boulevard north to the eastern border of the site. Access to the site is through guarded entrances on Mountain Boulevard (west) and Keller Avenue (north).

The ROI for the land use analysis includes the NMCO site, surrounding residential neighborhoods, commercial and retail areas, and other areas that could be directly or indirectly affected by the reuse.

3.1.1 Naval Medical Center Land Uses

Office/Institutional Military Activities and Residential

Most buildings are located on the northwestern portion of the site, with larger concentrations of open space in the northeast quadrant. The hospital and parking occupy the center of the property. Recreational facilities are located in the southern portion of the site where the slopes are flat to gentle (Figure 3-1). There are 89 structures on the NMCO property, many of which were classified for temporary use (5 to 24 years) but have been in use longer. Building numbers used below (refer to Figure 3-1) are based upon a 1994 Oak Knoll Existing Conditions Report (Theresa Hughes & Associates 1994).

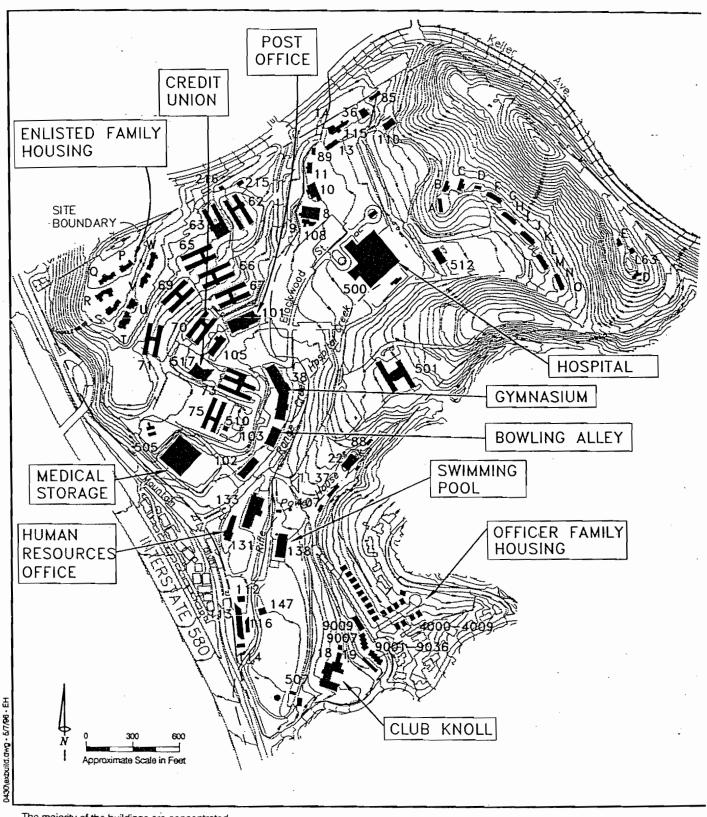
The hospital (Building #500), a nine-story structure commissioned in 1968, is the largest facility on the site, with a floor area of 475,000 square feet. It was used to provide health care services to all eligible active duty, retired, and dependent personnel. The hospital includes the following facilities:

- Emergency care area: eight patient care bed capacity;
- Dialysis unit: six bed capacity;
- Cardiac telemetry unit: 28 bed capacity;
- Medical intensive care unit: 10 bed capacity;
- Surgical intensive care unit: 10 bed capacity;
- Neonatal intensive care unit: 10 bed capacity; and
- Ten operating rooms.

Club Knoll (Building #18), the only remaining original building on the site, was designed by William McCormack and built in the 1920s when the site was a golf and country club. Club Knoll was used for community- and city-sponsored functions.

Most of the housing units on the site were built after 1950. These 50 structures include 82 units of family housing and are grouped into four areas—Junior Officer (Buildings #A-C and #F-O), Enlisted (Buildings P-W), Senior Officer (Buildings #4000-4009 and #9001-9036), and Commanding/Executive Officer (Buildings E & D).

The site also includes 25 buildings used primarily as offices and storage. Five of those buildings are classified in the Navy inventory as "modern," and the other 20 buildings are informally referred to as "vintage" wooden buildings. There are 24 "miscellaneous" structures. Most of the buildings are in substandard condition and require repair.



The majority of the buildings are concentrated in the northwestern part of the site. The hospital (Building #500) is the largest building on the site.

733

Existing Buildings

Naval Medical Center Oakland

NMCO has one base tenant. The current lease of Sea West Federal Credit Union (Building #511) runs through 2000. Other tenants have left NMCO in recent years, including the Navy drug screening laboratory and the Navy Exchange.

Recreational/Open Space

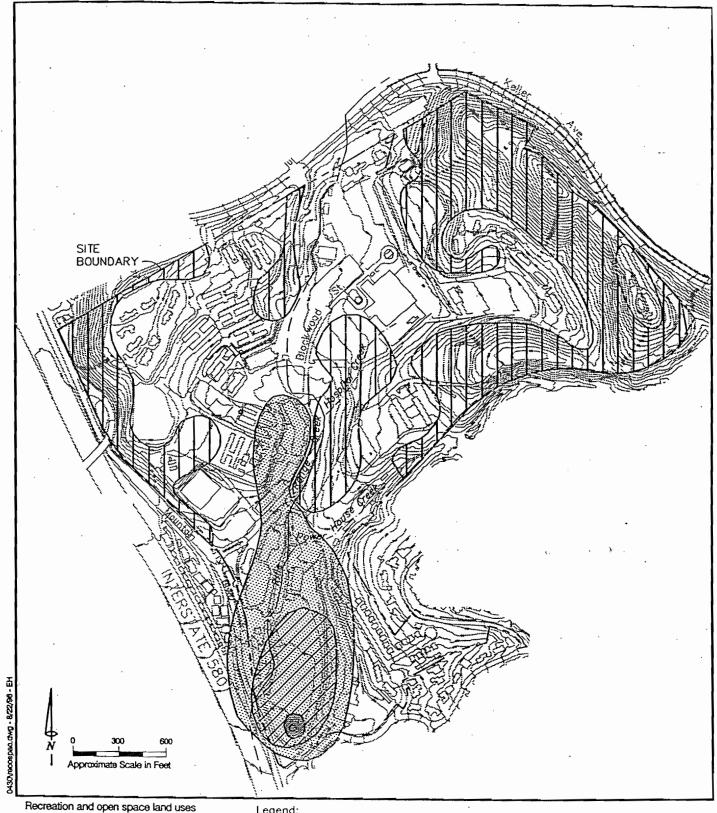
The site's active recreational facilities included an indoor swimming pool (Building #138), amusement center/bowling alley (Building #103), gymnasium (Building #38), auto hobby shop, five tennis courts, two lighted baseball fields, playfields, and a picnic area. These recreational areas were located on the southwestern end of the site on Pool Road. The open space and woodland areas are concentrated on the northeast section of the site (Figure 3-2). The primary users of the active recreational spaces on the site were NMCO employees and their families, although nearby residents were able to gain access to these facilities before closure.

Undeveloped land on the property includes approximately 17 acres of grassland, 24 acres of woodland, and nine acres of scrubland. Rifle Range Creek, Hospital Creek, and Power House Creek remain important physical features of the NMCO site. A riparian area along Rifle Range Creek crosses the central part of the site from northeast to southwest.

3.1.2 Surrounding Land Uses

The land uses surrounding the site are primarily residential and include single family houses, condominiums, townhouse developments, and garden apartments. The site is immediately bordered by the Sequoyah Hills neighborhood on the northeast, the Sequoyah Hill/Oak Knoll residential area and country club on the southeast, Oak Knoll (King Estates) residences on the west, and the Ridgemont Skyline residential development on the north.

Three large parks also are located near the site. Immediately north of the site is the 300-acre Leona Regional Open Space, owned by the East Bay Regional Park District. The boundary of Knowland Park, a 400-acre city-owned park (which includes the Oakland Zoo), is located about 1,200 feet south of the site. Half a mile east of the site, and mostly outside Oakland city limits, is the 5,000-acre Anthony Chabot Regional Park, part of the East Bay Regional Park District. This park includes open space, hiking trails, and a golf course. The City's King Estate Park is only 1,000 feet from the site's Mountain Boulevard entry. The City's Burkhalter Recreational Facility is approximately one mile north on I-580. It is the only facility near the site



Recreation and open space land uses are generally concentrated on the southern and northern parts of the NMCO site, respectively.

Legend:

Open Space/Woodlands

Recreation Zone

Playing Fields, Tennis Courts, Basketball Courts

Naval Medical Center Oakland

Recreation and Open Space

Source: Theresa Hughes & Associates 1995

Sheltered Picnic Area

3-5

Figure 3-2

with active developed recreational areas, including a lighted softball field, basketball court, two lighted tennis courts, picnic areas, and a playground. Figure 3-3 shows parks near NMCO.

The City of Oakland owns and operates three golf courses within a five-mile radius of the site—Lake Chabot Municipal Golf Course, Montclair Golf Course, and Lew Galbraith Municipal Golf Course. Galbraith Golf Course has been closed and is being used by the Port of Oakland as a repository for dredged material from the estuary. Sequoyah Country Club, a private course, is located adjacent to the site and extends to Knowland Park.

Short strips of retail stores front Golf Links Road, Mountain Boulevard, and Keller Avenue. Activities at the Peralta Oaks Office Park, one mile south of the site, are exclusively government related and consist of the Alameda County District Attorneys Office Family Support Division, East Bay Regional Park District, and the State Compensation Insurance Fund. There are no major industrial uses within the immediate vicinity of the site.

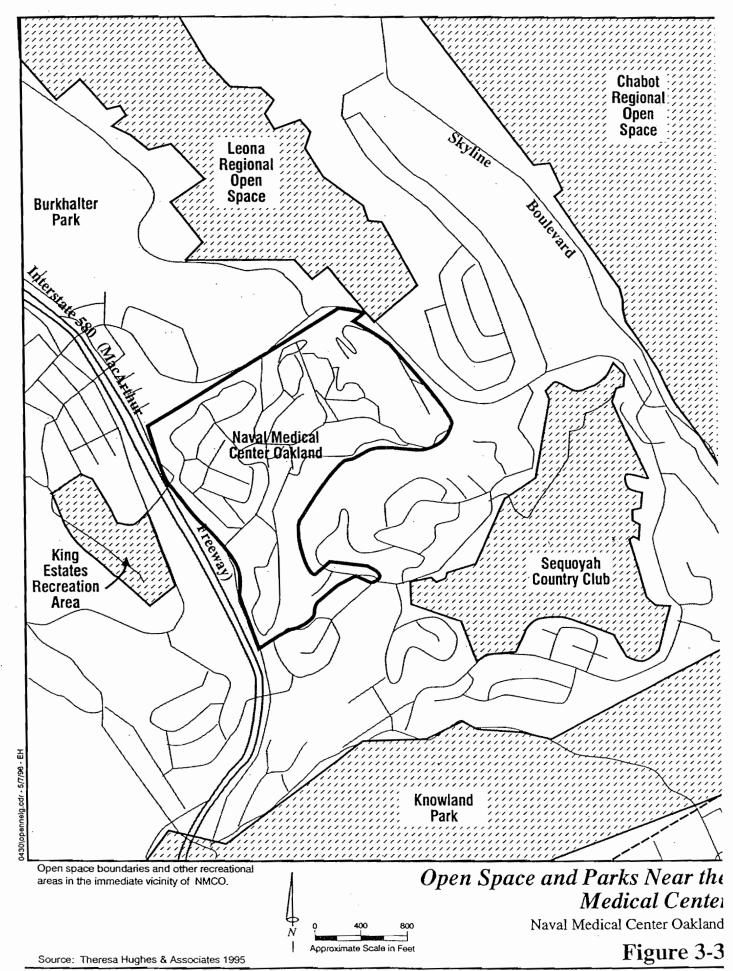
King Estates Junior High School and Howard Elementary School are located within 300 to 600 feet of the site, to the west of I-580, about 500 feet from the site. Grass Valley and Malcolm Elementary schools are located east of I-580 and south of Knowland Park. Skyline High School serves the area surrounding NMCO. Several parochial schools also are located in the area. There are no Oakland Public Library branches near NMCO. Our Savior's Lutheran Church is on Fontaine Street near King Estates Junior High School.

The California Department of Transportation owns the right-of-way along the I-580 corridor adjacent to the NMCO property.

3.1.3 Regulatory Considerations

Land Use Designations and Zoning

The City of Oakland Comprehensive Plan contains several elements that govern the NMCO site. The city is conducting a general plan update; however, until this process is completed, the Oakland Policy Plan (adopted October 1972, amended September 1980) is the current comprehensive statement of the city's general plan policies and goals (Theresa Hughes & Associates 1995). The Oakland Policy Plan expresses the city council's basic intentions and guides its decisions on specific projects and actions. The most relevant policies of the various Oakland Comprehensive Plan elements are described below, together with a discussion of the consistency of the various project alternatives with these policies.



3

The Oakland Policy Plan gathers together in a single document all the policies contained in the functional elements of the comprehensive plan, including the land use element (adopted in April 1980) and the open space, conservation, and recreation element (adopted in June 1976).

The comprehensive plan contains an Illustrative Future Land Use Map that shows the general land use pattern that the City expects will best realize the written goals and policies of the comprehensive plan. This map designates the NMCO site as "M," signifying Institutional or Governmental-Medical uses. The surrounding areas are designated primarily as residential, reflecting their existing land uses.

The NMCO site is zoned R-30 Residential (Figure 3-4). The City of Oakland's R-30 zoning allows for a single dwelling unit per lot designation, with minimum lot sizes of 5,000 square feet. Other permitted activities include essential services and limited child care. Conditional use permits may be granted for certain other uses, including community assembly, education, nonassembly cultural, administrative, residential care, plant nursery, crop and animal raising, and mining and quarrying. The underlying R-30 zoning does not recognize the full range of uses currently on the site. After property disposal, other future interim and long-term uses would require discretionary approvals, such as a general plan amendment, rezoning, possible other zoning permits, and subdivisions.

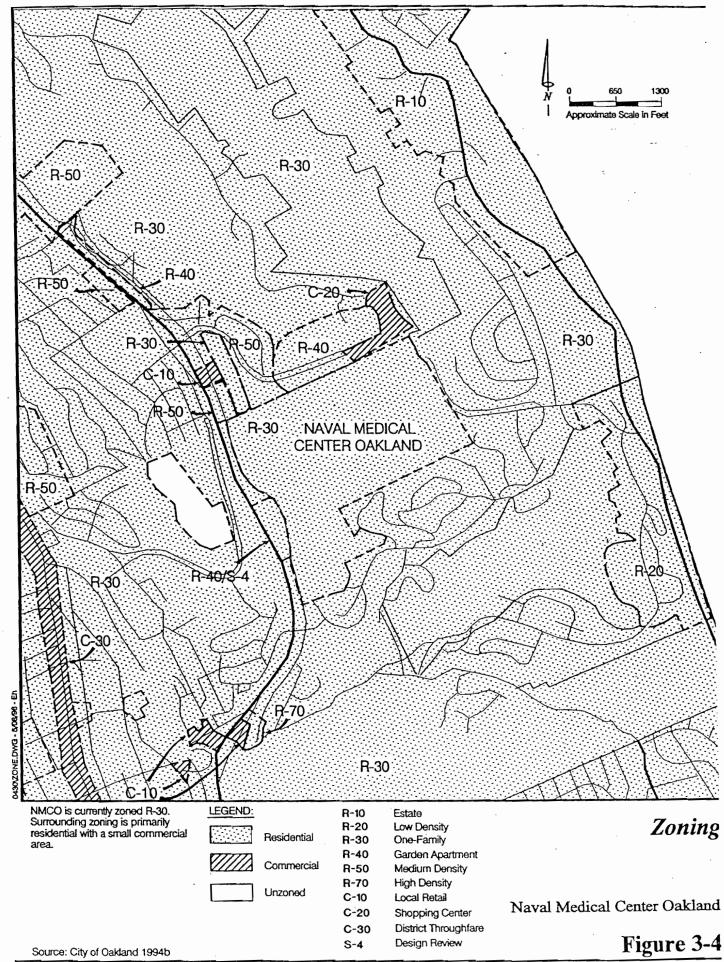
The area contiguous to the site is zoned primarily residential and includes single-family residential, medium density apartment, and low density garden apartments, with other uses approved on a case by case basis (R-20, R-30, R-40, and R-50). At the northeast corner, off the site, the City of Oakland zoning plan shows an area zoned for small-scale commercial uses (C-10). An area across Keller Avenue is zoned for a shopping mall (C-20).

Rezoning for Reuse

Following transfer of federal surplus land to the City of Oakland (or other nonfederal entities), future development of portions of the site would be under city jurisdiction. Oakland's zoning designation for the site (Residential [R-30]) may not accommodate some of the proposed reuse land uses.

To achieve consistency between the selected reuse alternative and city policies it may be necessary to amend the Oakland Comprehensive Plan to include the NMCO site and surrounding uses, prior to approving future land uses. The land use amendments would need to be based on the goals and policies of the selected reuse alternative, while maintaining consistency with the current goals and policies in the Oakland Comprehensive Plan.





3-9

Following the amendment of the Oakland Comprehensive Plan, a specific plan, redevelopment plan, and/or planned development master plan could be developed that would more precisely identify the distribution, location, and extent of future land uses. It also would identify the distribution, location, extent and intensity of the infrastructure required to support the land uses, would establish the development and conservation standards, and would include a program for carrying out reuse.

Consistency with Plans and Policies

Several land use policies apply to NMCO reuse as follows:

Policy on Decision-making. Applicable policies on land use decision making state that "in deciding on major land use issues, the City will seek to consider the full range of direct and indirect economic, social, physical environmental, and public service factors involved, giving special attention to possible impacts on lower income persons, the elderly, or members of minority groups" (Policy 1); and "In considering those land use questions which mostly affect a particular neighborhood or other area, the City will give substantial weight to the opinions of the local citizens" (Policy 2).

Policies Relating to the Natural Setting. Applicable policies relating to the natural setting state that "urban development wherever it occurs should be related sensitively to the natural setting, with the scale and intensity of development in each case bearing a reasonable relationship to the physical characteristics of the site" (Policy 1), and that "In all development and construction in the hills (those areas located generally along and northeast of Mountain Boulevard) special efforts should be made to conserve open space and natural resources. Every development which occurs here on a site of substantial size should reserve the most appropriate portions as permanent open space, and these should generally add up to a significant proportion of the site" (Policy 3). Lastly, Policy 4 states that "Development on slopes of 15 to 30 percent should generally be designed with special attention to controlling runoff and erosion and to preserving the natural topography as much as possible. Cuts and fills and the removal of desirable vegetation should be minimized."

Policy Relating to Circulation and Noise. The applicable policy relating to circulation and noise states that "to the extent compatible with noise levels and other environmental factors, the intensity of development at each point in the city should be related to the degree of accessibility there." (Policy 2).



<u>Policy on Urban Design and Preservation</u>. Policy 4 of this subsection of the land use element states that "every effort should be made to preserve those older buildings, other physical features, sites, and areas which have significant historical, architectural, or other special interest or value."

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Policies on Civic and Open Space Uses. With regard to government or institutional land, the most applicable policy (Policy 3) states that "efforts should be made to increase the total acreage of public parks and recreation areas within the city limits, exclusive of facilities at schools, colleges, and universities, to at least 10 acres for each 1,000 of Oakland's population."

Policies on Land Use Regulations, Mixture, and Transition. Policies 1 and 2 respectively state that "the City will employ zoning or other land use regulations to ensure that land uses are compatible with their surroundings and to promote appropriate design and on-site conditions for residents or other users," and that "the City will see that the applicable land use regulations are compatible with particular desired functions and character, and where appropriate provide for an orderly transition of use type or density over time."

The open space, conservation and recreation element of the Oakland Comprehensive Plan, currently being revised, recommends improving trail connections among the area's parks, using the creeks as a trail framework (Theresa Hughes & Associates 1995). Policy 3 states "the creek system should be capitalized on as a positive feature in the physical environment."

The City of Oakland Parks and Recreation Department, with the support of the East Bay Regional Parks District, developed a conceptual plan identifying parts of the NMCO site for parks, open space, and recreation. This plan involves public use of existing recreation facilities and development of some new uses, such as a youth hostel and a conference center. The use of the site for multipurpose trails and for interpretation and education along the riparian area is also proposed. A trail following the Rifle Range Creek would connect Leona Open Space to Knowland Park through the NMCO site.

3.2 SOCIOECONOMICS

This section describes the regional socioeconomic setting. Socioeconomic conditions addressed include employment, population, income, housing, schools, and recreation. The setting presents the social and economic indicators of the region that may be significantly affected by disposal and reuse. Background on environmental justice parameters also is presented.

The projected conditions are described for 1996, the year NMCO closed. Socioeconomic data are available through 1994 and are not expected to differ substantially from 1996 conditions. Where more recent or more reliable data is unavailable, 1990 census data is used.

Alameda County is the region of influence (ROI) for social and economic impacts. This definition was selected because 70 percent of Alameda County residents also work within the county (California Employment Development Department 1994). Thus the county population and economy will be the area primarily affected by the NMCO reuse.

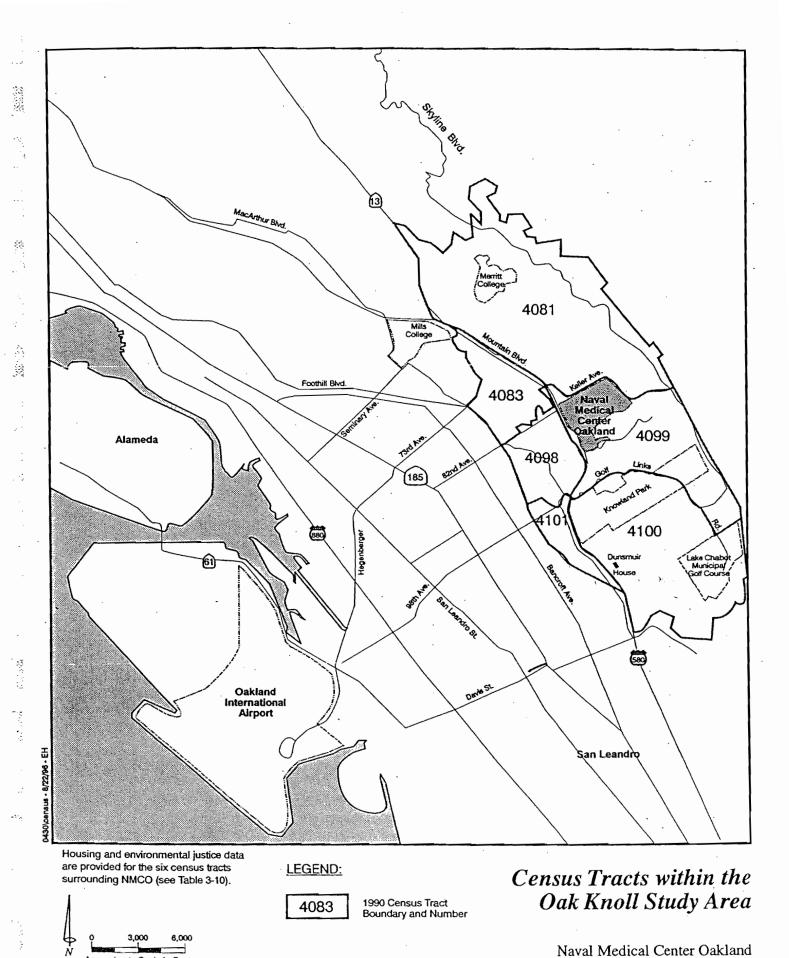
The disposal and subsequent reuse of NMCO is not expected to affect all areas of the ROI equally. Some effects will be felt only within the City of Oakland. City level socioeconomic data is given in those cases.

In addition, socioeconomic data relating to housing and environmental justice issues was included for the Oak Knoll Study Area, which includes census tracts 4081, 4099, 4100, 4083, 4101 and 4098. This geographic region was included in the analysis of neighborhood level impacts because it was designated as the appropriate study area by the Oakland Base Reuse Authority (OBRA) in the Existing Conditions Report, which was prepared in support of the NMCO Reuse Plan, for assessing the opportunities and constraints for retail, residential and commercial uses at the NMCO site (Theresa Hughes & Associates 1994). A map of the Oak Knoll Study Area and the census tracts included within it are presented in Figure 3-5.

3.2.1 Regional Employment

Employment

Immediately prior to closure, NMCO employed 340 civilians. Caretaker employment at the NMCO site is substantially less. Historic employment levels have been as high as 2,718 (Theresa Hughes & Associates 1994).



3-13

Figure 3-5

Approximate Scale in Feet

To illustrate employment trends, general employment data for Alameda County and the City of Oakland are given on Table 3-1, for the years 1980 and 1995. Specific employment industry data for Alameda County is given for 1980 and 1995 on Table 3-2 and Figure 3-6.

Table 3-1 1980 and 1995 Labor Force and Employment Data for the ROI (Amount in Thousands)

	Alameda County City of Oakland							
Indicators	1980	1995	Percent Change	1980	19951	Percent Change		
Labor force	553	657	19%	158	174	10%		
Number employed	522	620	19%	143	157	10%		
Number unemployed	31	37	21%	15	. 17	12%		
Unemployment rate	6%	6%	<1%	9%	10%	<1%		

Labor Force data is extrapolated based on the unemployment rate for the City of Oakland in 1990 and ABAG employment figures for 1995.

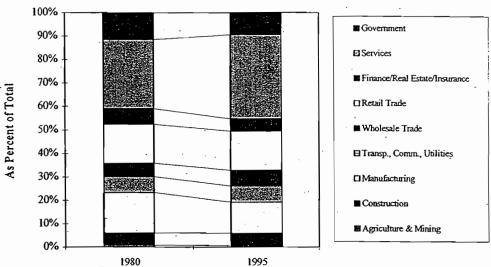
Source: Association of Bay Area Governments 1993; U.S. Department of Commerce 1983; Urban Decisions Systems 1995

Table 3-2
Historical Employment Composition for the ROI

	Alameda County (ROI)							
Employment a	1980	1995	1995 Job Composition	Change from 1980-1995	Annual Rate of Change			
Agriculture & mining	4,682	3,260	1%	-30%	-2%			
Construction	26,114	32,010	5%	23%	1%			
Manufacturing	88,895	78,820	13%	-11%	-1%			
Transp., comm., utilities	34,916	40,340	7%	16%	1%			
Wholesale trade	29,121	39 , 990	7%	37%	2%			
Retail trade	85,192	98,860	17%	16%	1%			
Finance/real estate/insurance	34,254	30,900	5%	-10%	-1%			
Services	151,731	213,360	36%	41%	2%			
Government	58,892	56,200	9%	-5%	. <0%			
Total all industries	513,797	593,740	100%	16%	1%			

Source: Association of Bay Area Governments 1993.

Figure 3-6 Job Composition in Alameda County (ROI) (1980 & 1995)



Source: Association of Bay Area Governments 1993.

In 1995, the City of Oakland expected 157,300 of its estimated 173,800-person labor force to be employed. The unemployment rate in 1995 was estimated to be 10 percent, while unemployment in all of Alameda County (including the City of Oakland) was estimated to be 6 percent.

As indicated by Table 3-2, Alameda County's largest employment industry in 1995 was the service sector (which includes business, repair, personal, entertainment, recreation, health, and educational services), accounting for 36 percent of total employment. The next largest employment industries were manufacturing and retail trade, which accounted for 13 percent and 17 percent of total employment, respectively. The service sector is projected to be the fastest growing employment industry, with a two percent annual growth since late 1980. Wholesale trade has also grown since 1980, with a two percent annual growth rate. Agriculture and mining, manufacturing, finance/real estate/insurance, and government employment all are in decline. Overall, Alameda County has displayed a one percent annual employment growth rate in the past 15 years, gaining 79,943 jobs between 1980 and 1995.

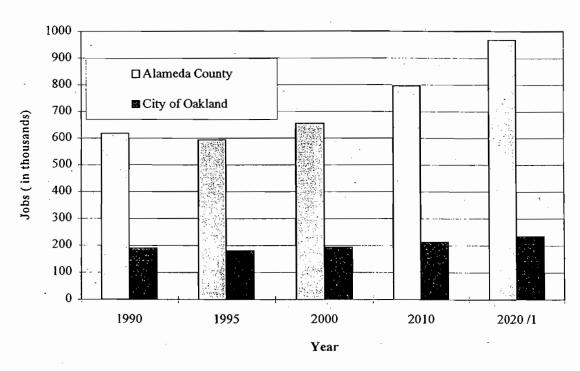
Although Alameda County has been experiencing an employment decrease in the period from 1990 to 1995 (see Table 3-3 and Figure 3-7), it is expected to gain 374,000 jobs by 2020. This represents a 63 percent increase in the job base.

Table 3-3 ROI Employment Projections, 1990-2020 (Amount in Thousands)

Area	1990	1995	2000	2010	2020¹
Alameda county jobs	617	594	655	796	968
Annual % change					
from previous period	not avail.	<0%	1%	2%	2%
City of Oakland jobs	. 191	181	194	213	235
Annual % change					
from previous period	not avail.	<0%	1%	1%	1%

¹ Estimates based on annual growth rate from 2000 to 2010. Source: Association of Bay Area Governments 1993.

Figure 3-7 ROI Employment Growth (1990-2020)



¹Estimate, based on annual growth rate from 2000 to 2010. Source: Association of Bay Area Governments 1993; ERA. The City of Oakland has lost 10,000 jobs between 1990 and 1995 but is expected to gain 54,000 jobs by 2020, representing approximately a 30 percent increase from 1995. The City's recovery is expected to be slower than the county as a whole for two major reasons—the continued decline of manufacturing and wholesale jobs in the City of Oakland and the losses of military bases in the cities of Alameda and Oakland. However, between the years 2000 and 2010, the City of Oakland is expected to grow and become more important as a regional transportation hub. Consequently, it is expected to regain some manufacturing and wholesale jobs around 2000 (Association of Bay Area Governments 1993).

Personal Income

The mean household income in 1990 for Alameda County was \$48,993. This was projected to decline to \$46,000 in 1995, then increase to \$74,000 (a two percent annual increase from 1995) by 2020. These figures are expressed in constant 1990 dollars. The mean household income for the City of Oakland in 1990 was lower (\$39,533). This figure is also expected to decline to \$36,300 in 1995, then steadily increase to \$58,000 (a two percent compounded annual increase from 1995) by 2020.

3.2.2 Population and Housing

Population

The City of Oakland's population grew more slowly than the rest of Alameda County, experiencing a 15 percent growth rate from 339,337 in 1980 to 389,600 in 1995. Alameda County experienced a 23 percent growth rate during the same period (see Table 3-4). Between 1995 and 2020, the population of the City of Oakland is expected to increase by 21,000 to about 411,000, or a modest five percent increase (less than one percent annually over that period). Alameda County is also projected to experience a slower growth than the previous fifteen years; however, its growth will exceed that of the City of Oakland, with a projected 19 percent (or about one percent annual) growth in the period of 1995 to 2020 (see Table 3-4).

Housing

In 1995 the housing units for the City of Oakland numbered 153,775. Housing totals for 1990 and 1995 for the ROI are presented in Table 3-5. The city's housing stocks consist primarily of studio and one bedroom units (36 percent of total stocks). Two-bedroom units make up 33 percent of the total stock, and three-bedroom or larger units represent 31 percent of total housing stock (California Department of Finance 1995).

3-17

Table 3-4 Historical and Projected Population, 1980-2020 (Amount in Thousands)

Area	1980	1990	1995	2000	2010	2020¹
Alameda County	1,105	1,277	1,356	1,413	1,547	1,612
Annual % change from previous period	not avail.	2%	1%	1%	<1%	<1%
City of Oakland	339	372	390	394	407	411
Annual % change from previous period	not avail.	1%	1%	< 1%	<1%	<1%

¹ Estimates based on annual growth rate from 2000 to 2010. Source: Association of Bay Area Governments 1993

Table 3-5 Housing Totals in Oakland and Oak Knoll Area

		City of	Oakland 💷	fig. 6	Oak Kn	oll Area¹	
	19	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(中では、アールンとできることが)ないからなっているか	95	1990		
Type of Tenant	Number of Units	As a % of Total	Number of Units		Number of Units	As a % of Total	
Owner-occupied	60,153	39%	143,838	94%	6,476	73%	
Renter-occupied	84,368	55%	incl. above	n/a	2,094	24%	
Vacant -	.10,216	7%	9,937	7%	338	4%	
Total	154,737	100%	153,775	100%	8,908	100%	

¹The Oak Knoll area refers to census tracts 4081, 4099, and 4100. This is a subcomponent of the study area. Source: California Department of Finance 1995; City of Oakland 1993a; Theresa Hughes & Associates 1994

For neighborhood level analysis, the Oak Knoll area comprising census tracts 4081, 4099, and 4100, has been identified as the relevant area for housing analysis (Theresa Hughes and Associates 1994). The NMCO is in census tract 4099, with the other two tracts immediately north and south of it. This subcomponent of the study area shares comparable housing and population characteristics and are separated from the other census tracts in the study area by I-580.

Housing units in the Oak Knoll area totaled 8,908 in 1990. Most of these housing structures are single-family units (81 percent). However the largest housing growth in the area from 1980 to 1990 has been in structures with five to nine units (Theresa Hughes & Associates 1994).

Statistics on average size and numbers of households for the City of Oakland and Alameda County are presented in Table 3-6. Between 1980 and 1995 the number of households in the City of Oakland grew from 141,657 to 145,030, a two percent increase. This is compared to a 16 percent increase in Alameda County. The average household size in the City of Oakland in 1995 was estimated to be 2.63 persons per household, an increase of 12 percent since 1980. However, the average household size is not expected to increase further. It is expected to decrease to about 2.60 persons per household by 2010 and 2020.

Table 3-6 Characteristics of Households, 1980-2020

Lecation	1980	1990	1995	2000 +	2010	2020 ¹
Persons per Household						
City of Oakland	. 2.34	2.52	2.63	2.61	2.60	2.60
Alameda County	2.53	2.59	2.68	2.65	2.62	2.62
					,	
Number of Households						
City of Oakland	141,657	144,521	145,030	147,910	153,050	158,369
Alameda County	426,093	479,518	493,330	520,540	575,970	637,302

¹Estimates of persons per household based on previous decade's average persons per household. Number of households estimate based on annual growth rate from 2000 to 2010. Source: Associations of Bay Area Governments 1993

The forecasted household growth for the City of Oakland from 1995 through 2020 is approximately 13,340 new households, or nine percent increase, in a 25-year period. This reflects the City's slow projected population growth and the continued exodus from urban to suburban areas.

According to the 1990 U.S. Census, the City of Oakland's median housing resale value in 1990 was \$177,400, and its median contract rent was \$486 a month. In the Oak Knoll study area, the median housing resale value was \$268,700.

3.2.3 Schools

The Oakland Unified School District (OUSD) serves the City of Oakland, including all of the Oak Knoll study area. The OUSD administers 90 schools with a total enrollment of 51,594 students in grades kindergarten through 12th (see Table 3-7). According to the OUSD, three schools serve the Oak Knoll study area. They are Howard Elementary, King Estates

Junior High, and Skyline High School. Specific enrollment data are given for these schools in Table 3-8. Although no specific data were available on the capacity or classroom size in each school, according to the OUSD, all schools in the district are at or near enrollment capacity (Long 1995).

Table 3-7
1994 Oakland Unified School District Enrollment

Schools	Number of Schools	Enrollment
Elementary ¹	57	30,725
Middle and junior high ²	18	12,360
High school ³	6 .	7,744
Other ⁴	9.	765
Total	. 90	51,594

¹Includes elementary schools with grades K-8, K-6, K-5, K-4, and K-3.

Source: Oakland Unified School District 1994.

Table 3-8
Oak Knoll Study Area Neighborhood School 1994 Enrollment

School	Grades	Enrollment
Howard Elementary School	K-6	342
King Estates Junior High	7-9	575 🔭
Skyline High School	. 10-12	1,869
Total Enrolled Students		2,786

Source: Oakland Unified School District 1995.

3.2.4 Recreation

The East Bay Regional Park District (EBRPD) and the City of Oakland Office of Parks and Recreation (OPR) both offer numerous recreational facilities in the City of Oakland and nearby areas of Alameda County. The OPR manages outdoor playfields and courts, picnic and barbecue areas, open park areas, several golf courses, and some gymnasiums and swimming pools. The EBRPD manages 75,000 acres of parks, including open space, trails, picnic sites, and visitors centers.

Includes middle schools of grades 6-8 and junior high schools of grades 7-9.

³Includes high schools grades 7-12, 9-12, and 10-12.

^{&#}x27;Includes special schools such as technical, artistic, remedial, and retraining schools.

Recreation areas in the Oak Knoll area include Anthony Chabot Regional Park, Knowland State Arboretum and Park, Leona Regional Open Space, King Estate Park, Burkhalter Recreational Area, and the Sequoyah Country Club. Knowland Park includes a zoo, and Chabot Regional Park offers a vast open space, hiking trails, and a golf course. King Estate Park and Leona Regional Open Space offer open space. The only park with any recreation facilities is Burkhalter Recreation Area, which offers a lighted softball field, a basketball court, two tennis courts, picnic areas, barbecue pits, a playground, and restrooms.

3.2.5 Environmental Justice

On February 11, 1994, President Clinton issued the Executive Order on Federal Actions to Address Environmental Justice in Minority and Low-Income Populations. This order requires that "Each Federal agency shall analyze the environmental effects, including human health, economic and social effects, of Federal actions including effects on minority communities and low-income communities, when such analysis is required by the National Environmental Policy Act of 1969 (NEPA), 42 U.S.C. section 4321 et seq. Mitigation measures outlined or analyzed in an environmental assessment, environmental impact statement, or record of decision, whenever feasible, should address significant and adverse environmental effects of proposed Federal actions on minority communities and low-income communities."

The City of Oakland and the Oak Knoll study area have been established as the relevant ROI for analyzing environmental justice issues because the nature of the significant impacts associated with disposal and reuse would occur primarily at the local (city) and neighborhood level.

Based on the 1990 U.S. Census, 44 percent of the City of Oakland's population is African American, 32 percent is Caucasian, 15 percent is Asian and Pacific Islander, one percent is Native American, and the remaining eight percent is made up of other groups (see Table 3-9). Of the total city population, persons of Hispanic origin make up 14 percent. This figure is based on the number of persons who classify themselves as Hispanic based on their language, ancestry, and country of origin (i.e., Spain, Mexico, Puerto Rico, Dominican Republic, and other Central and South American countries). Therefore, persons of Hispanic origin may be of any race.

In the Oak Knoll study area the ethnic composition is different in the following respects: 34 percent of the area's population is Caucasian, instead of 32 percent city wide, and 10 percent is Asian or Pacific Islander, instead of 15 percent city wide. African Americans make up 55 percent of the Oak Knoll study area. People of Hispanic origin make up approximately six



percent of the total population, but again this figure is based on those persons who classify themselves as Hispanic and thus can be of any race.

Table 3-9
1990 Ethnic Composition and Poverty Status

	City of Oakland				Oak Knoll Study Area ²				
	Total population		Persons below poverty level		Total population		Persons below poverty level		
Ethnicity	Number	% of Total	Number	% of Total	Number	% of Total	Number	% of Total	
African American	163,335	44%	38,549	56%	12,707	55%	n/a	n/a	
Caucasian	120,849	32%	10,603	15%	7,870	34%	n/a	n/a	
Asian & Pac. Is.	54,931	15%	12,456	18%	2,196	10%	n/a	n/a	
Native American	2,371	1%	490	1%	123	<1%	n/a	n/a	
·Other	30,756	8%	6,683	_10%	48	<1%	n/a	n/a	
Total	372,242	100%	68,781	100%	22,944	100%	n/a	n/a	
Hispanic ¹	51,711	14%	10,547	15%	1,442	6%	n/a	n/a	

¹Persons of Hispanic origin may be of any race.

²The Oak Knoll Study Area refers to census tracts 4081, 4099, 4100, 4083, 4101 and 4098

n/a - not available

Source: City of Oakland 1993a; Urban Decision Systems 1995.

According to 1990 census data, approximately 68,781 of the City of Oakland's residents (19 percent of the population) were living in poverty. The Census Bureau determines poverty status for families and individuals based on 48 threshold variables. These include income, amount spent on food, family size, number of children under 18, and number of family members over 65. The average poverty threshold for a family of four persons was an income of \$12,674 or below in 1989 (City of Oakland 1993a)

The majority of people living in the City of Oakland and classified as poor are African Americans (Table 3-9). Of the residents classified as poor, African Americans are disproportionately represented in the City of Oakland (Table 3-9). African Americans make up 44 percent of the city's population, but according to census data, African Americans represent 56 percent of all persons below the poverty level. Other specifically identified groups are disproportionately poor except for Caucasians. Caucasians make up about 32 percent of the city's population, but only 15 percent are classified as poor.

The Oak Knoll study area has a lower proportion (eight percent) of residents who are classified as poor compared to the city as a whole (Table 3-10). Only census tract 4098 (west of I-580) has roughly the same proportion (18 percent) of residents who are classified as poor compared to the city as a whole.

Table 3-10 Oak Knoll Study Area Poverty Status, By Census Tract

Census Tract No.	Total Population	Persons Below Poverty	Percent Below Poverty
4081	5,901	277	5%
4083	4,517	474	11%
4098	3,082	537	18%
4099	4,201	96	3%
4100	2,849	67	3%
4101	<u>2,679</u>	<u>375</u>	14%
Totals	23,229	1,826	(1,826 ÷ 23,229) 8%

Source: City of Oakland 1993a.

3.3 PUBLIC SERVICES

This section describes the police services, fire protection, and emergency medical services at NMCO and within the surrounding area. The region of influence for this section includes NMCO and the City of Oakland. The city limits of Oakland are selected as the region of influence (ROI) because NMCO is located entirely within the City of Oakland, and the City would be responsible for providing services to the area after Navy disposal. The Navy now provides all public services to NMCO. The following description identifies services historically provided at NMCO and those in the surrounding area.

3.3.1 Police Services

Navy Police Services

The Navy provided police services at NMCO and used Building 102 as a police headquarters. Police services included law enforcement, parking enforcement, perimeter security, and building alarm response. The police service averaged twelve on-duty officers at all times and used five police vehicles. NMCO police officers occasionally assisted with off-site emergencies, such as traffic accidents, on an as-needed basis (Osborn 1995).

Perimeter security at NMCO involved staffing the entrance gate and conducting regular patrols of the area. NMCO is under exclusive federal jurisdiction, and therefore only federal police officers can enforce laws on NMCO until jurisdiction is changed (retroceded) or the property is transferred from federal ownership. Until jurisdiction is changed, Oakland Police Department actions on NMCO are limited to continuing active pursuit of persons from outside the boundaries of NMCO. After jurisdiction changes, the Oakland Police Department can provide all police services.

Oakland Police Department

The City of Oakland Police Department provides police services for the entire City of Oakland including the neighborhoods surrounding NMCO. The police department has an authorized staffing level of 711 sworn officers, 390 support staff, and 76 reserve officers (Bellman 1995).

The police department receives an average of 34,000 emergency calls per month and prioritizes the calls according to a four level classification system. The classification system assigns a higher priority to emergency calls that involve immediate threats to life, health, and property and a lower priority to calls that involve nonimmediate police needs, such as report taking.

Officers are dispatched to the highest priority call and provide service upon arrival at the scene. The department has a goal of responding as fast as possible to all calls received but does not track the actual response time from receipt of an emergency call to the arrival of a police officer. The department does compile historical data to track the average dispatch time for emergency calls. This figure includes the amount of time elapsed between receipt of the emergency call and dispatch of the officer to the call. The figure does not include transit time for the officer. Over 80 percent of the highest priority calls are dispatched within one minute of receiving the call. Table 3-11 shows the classification system and the average dispatch time for calls received under each priority (Vierra 1995).

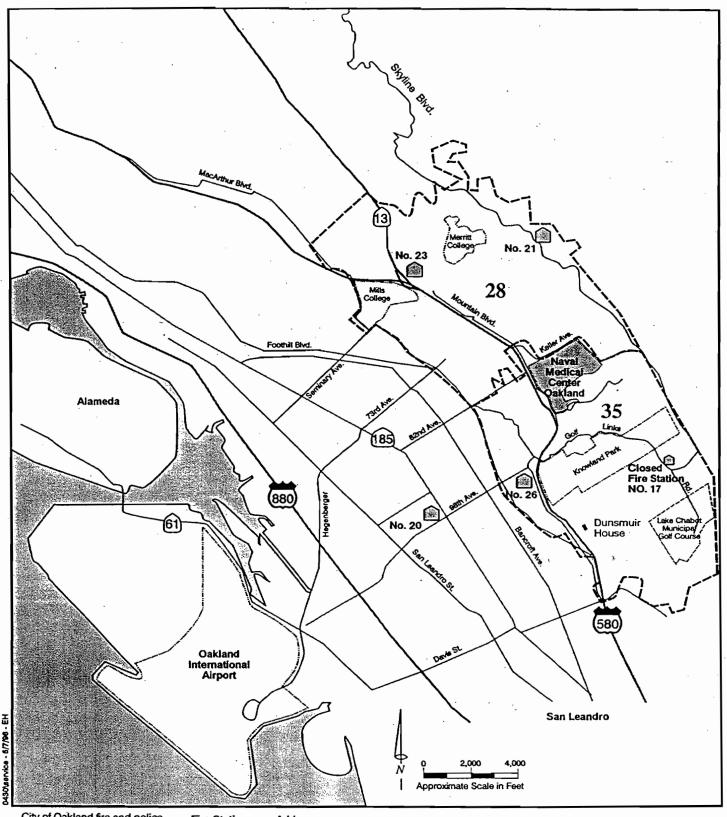
Table 3-11 Emergency Call Priority System and Average Dispatch Times for Oakland Police Department

Priority	Types of Calls	Dispatch Time
A	Serious crimes in progress, such as shootings, stabbings, robberies, and burglar alarms	80% of calls dispatched within one minute
В	Urgent requests for service, such as family fights and loud arguments	70% of calls dispatched within one minute
С	Reporting of completed crimes, such as burglary and vandalism	70% of calls dispatched within one hour
D	Requests for service for items such as neighborhood complaints	Data not available

Source: Vierra 1995.

The City of Oakland Police Department operates from the downtown police station rather than operating smaller substations; however, on-duty officers patrol geographically defined areas. The police department compiles law enforcement statistics based on these geographically-defined beats (Figure 3-8).

NMCO is in Beat 35 and is adjacent to Beat 28. Crime statistics for Beats 28 and 35 for 1993 and 1994, along with city wide crime statistics, are shown on Table 3-12. The most recent year for which complete statistics are available is 1994. Reported criminal offenses for Beats 28 and 35 decreased by 7 and 9



City of Oakland fire and police services are currently provided in close proximity to the NMCO.
 Fire Station
 Address

 No. 26
 2660 98th Avenue

 No. 20
 98th Ave. and E. 14th St.

 No. 23
 7100 Foothill Blvd.

 No. 21
 13150 Skyline Boulevard

 Closed No. 17
 4615 Grass Valley Road

Fire Station

Public Services Serving the Project Area

Naval Medical Center Oakland

Figure 3-8

Developed by Tetra Tech

Police Beat

Boundary

percent, respectively, from 1993 to 1994, while city wide reported offenses decreased by 9 percent. The number of arrests in Beats 28 and 35 increased by eight and 30 percent, respectively, while arrests for the City of Oakland as a whole decreased by 6 percent.

Table 3-12
Police Beat Statistics for Area Surrounding NMCO

The second of	1993		1994		Percent Change 1993-1994	
	Offenses	Arrests	Offenses	Arrests	Offenses	Arrests
Beat 28	2,102	522	1,952	564	-7%	8%
Beat 35	2,083	504	1,894	655	-9%	30%
Total of Beats 28 and 35	4,185	1,026	3,846	1,219	-8%	19%
City wide totals	80,031	35,033	72,502	33,004	-9%	-6%

Source: City of Oakland 1993b, 1994a.

3.3.2 Fire Services

Section 6

Navy Fire Services

The Navy also provides fire protection and prevention to NMCO. The Navy NMCO Fire Department uses Building 36 to house two pumpers, a brush rig, and a staff of fire fighters on duty at all times. The Navy will continue to provide adequate services until transfer of the property or retrocession of jurisdiction (Alianza 1995).

Oakland Fire Protection

The City of Oakland Fire Department provides fire protection and rescue services. The fire department's goal is to respond to fires within five minutes (Nero 1995). The City of Oakland Fire Department is budgeted to have 477 full-time fire fighters and 45 support staff.

Fire Station 26 on 98th Avenue is closest to the project site, approximately 1.5 miles away. The station provides first-alarm fire protection services to the project vicinity with an emergency response time to the west and south sides of NMCO of approximately five minutes (Baker 1996). Four fire fighters are always on duty at Station 26, which is equipped with a 1,500-gallon per minute pumper truck and a brush wagon (Nero 1995). Station 21, located at 13150 Skyline Boulevard, would provide service to the north and east sides of NMCO, with an emergency response time of approximately

five minutes. Station 21 is staffed with four fire fighters 24 hours a day (Baker 1996).

Fire Station 20 at 98th Avenue and East 14th Street is approximately two miles from NMCO. This station, with eight fire fighters during each shift, is equipped with one pumper and one ladder truck (Nero 1995). Station 23 at 7100 Foothill Boulevard responds to second alarm calls near NMCO and has the same equipment and staffing levels as Station 26. Station 17 at High Street and MacArthur Boulevard and Station 18 at 50th Avenue and Bancroft Avenue also would respond to a second alarm. The emergency response times from these stations to the area is estimated to range from 15 to 20 minutes.

Station 17 at 4615 Grass Valley Road was closed in the late 1970s due to budget cuts. The City of Oakland Fire Department reopened it in 1996 on a seasonal basis during periods of high fire danger in the East Bay Hills (Nero 1995).

The project area is within the Oakland Fire Prevention and Assessment District established for the hillside areas of Oakland. The district extends from an area approximately surrounded by the northern, southern, and eastern city limits to I-580 and SR-13. Requirements for this district include increased building construction standards (Class A roofing material and one hour sidewalls) and strict vegetation management requirements. The vegetation management regulations are enforced by the Oakland Fire Department Vegetation Management Unit (Baker 1996) and include the following:

- Thirty-foot clearance for vegetation around buildings;
- Vegetation clearance around the perimeter of lots;
- Ten-foot clearance for vegetation next to roadsides;
- Chimneys and stovepipes must have ten-foot clearance for vegetation and must have screened outlets;
- Removal of dead/dying wood from trees;
- · Clear roofs of debris; and
- Grass and weed areas must not exceed six inches in height.

For large parcels, the fire department encourages land owners to adopt a long-term vegetation management plan. Such a plan allows landowners to specify a phased compliance process and assures the fire department that ongoing vegetation management and fuel reduction measures will continue (Atkission 1996).

3.3.3 Emergency Ambulance Services

The NMCO Fire Department provides emergency medical response for calls at the site while the City of Oakland Fire Department provides emergency response to medical calls in the surrounding areas. For emergency ambulance transportation of patients both on and off NMCO, the American Medical Response Ambulance Company is contracted by the Alameda County Emergency Medical Services District to respond within ten minutes to all 911 medical calls. The ambulance company receives patients from the fire departments and provides emergency transportation to the closest appropriate hospital facility. Hospitals are selected on a case-by-case basis, taking into account the choice of the patient, the severity of the injury, and the estimated distances to hospitals able to treat the patient (Akers 1995). The hospital at NMCO historically operated an emergency room.

3.3.4 Regulatory Considerations

Section 1

In addition to regulations for the hillside areas of the Oakland Fire Prevention and Assessment District described above, City of Oakland fire protection policies that would apply to the Oak Knoll area state that the City will continue the fire department's fire prevention program, including the inspection of existing buildings and the review of proposed developments to ensure the maximum safety from potential fire hazards (City of Oakland Undated a).

3.4 CULTURAL RESOURCES

This section describes cultural resources on Naval Medical Center Oakland (NMCO), including prehistoric resources, Native American resources, historic resources, and cultural resources associated with World War II and the Cold War. The region of influence for cultural resources is the NMCO property because only cultural resources within the boundary of the property potentially would be affected by disposal and reuse of the property.

3.4.1 Previous Cultural Resources Studies

No formal archeological site survey has been conducted on NMCO. However, an informal walk-over was performed by a professional archeologist in 1990 with the main goal of establishing or verifying the extent of surface disturbances throughout NMCO (US Navy 1990e). Most of NMCO has sustained surface disturbances caused by the grading of the land in the 1920s for the golf course, again in the 1940s for the construction of a temporary hospital during World War II, and in the 1960s for the construction of the existing main hospital building, parking, and landscaping. The exact depth of the grading in the 1920s and the 1940s is unknown. However, given the original terrain of the area, extensive grading must have occurred in the 1920s to create the golf course. In the mid 1960s, approximately eight acres in the central portion of the NMCO were graded for the construction of the permanent main hospital. The grading included cutting slopes up to a depth of 30 feet. Much of the soil in that area now is comprised of fill. In addition, all areas around modern buildings have been graded and/or filled. The only portions of NMCO that have not been graded are very steep slopes where intact cultural deposits are unlikely, and along the creek beds. However, much of the creek beds have been artificially channeled or replaced with culverts.

3.4.2 Prehistoric Resources

Prehistoric resources are physical properties resulting from human activities that predate written records and generally are identified as either isolated finds or sites. Prehistoric sites can include villages, temporary camps, rock shelters, milling stations, lithic scatters, quarries, burials and cremations, rock features and hearths, rock art, and bone scatters.

No surface evidence of prehistoric sites has been observed on NMCO property. There is a low probability of buried prehistoric resources on NMCO. Due to the extensive grading and development of the area over the last 75 years, the presence of intact subsurface prehistoric deposits is unlikely.

3.4.3 Native American Resources

0.1686

Section 1997

۲۵ ا ا Native American resources are sites, areas, and materials important to Native Americans for religious, spiritual, or traditional uses, such as gathering of plants or materials for food, ceremonies, medicinal, or economic purposes. These resources may include villages, burials and human remains, cremations, rock art, rock features, and spring locations.

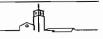
The predominant Native American group known to have occupied the San Francisco Bay Area is the Costanoan. Linguistic evidence suggests that the ancestors of the Costanoans moved into the San Francisco and Monterey Bay Area about AD 500. The movement of the Costanoan into the area appears to coincide with the dates of several Late Horizon archeological sites in the San Francisco Bay region (Levy 1978).

The establishment of the Spanish missions in the Bay Area in the 1770s led to the decline of the Costanoan population. New diseases introduced by the Spanish missionaries and loss of the lifestyle of the Costanoan is attributed to the demise of the Costanoan people. In 1835, the numbers of remaining Costanoan further declined with the secularization of the missions, which forced them once again to change their way of life (US Navy 1990e).

With respect to Native American resources, of primary concern are concepts of sacred space that create the potential for land use conflicts. Fundamental to Native American religions is the belief in the sacred character of physical places, such as mountain peaks, springs, and burial sites. Additionally, traditional rituals often prescribe the use of particular native plants, animals, or minerals. Therefore, activities that may affect sacred areas, their accessibility, or the availability of materials used in traditional practices may be of concern.

The Navy has conducted extensive research to identify all collections of prehistoric resources from Navy lands, and no collections were identified from archeological sites on NMCO property. No Native American resources have been identified on NMCO property, and no areas have been used for gathering, collecting, or conducting ceremonies by Native American groups or individuals in the 50-plus years of Navy ownership of the land. There also has been no reference in the literature to any spiritual significance of this area, nor does the Navy have any record of receiving a request to use any of the NMCO property for such purposes.

There is a low probability for buried Native American resources at NMCO. Due to the extensive grading and development of the area in the last 75 years, unencountered subsurface remains are unlikely to be found.



3.4.4 Historic Resources

Historic resources consist of physical properties, structures, or built items that postdate written records. Historic resources can include architectural structures and archeological remains. Historic archeological site types include refuse concentrations, townsites, homesteads, agricultural features, ranching features, and structures, features, or artifacts associated with the early military use of the land.

Historic Archeological Resources

Following the Mission Period (1770-1835), the Bay Area experienced a development of large-scale ranching and farming operations known as ranchos. These ranchos typically included large land holdings by one family or individual. Much of what is now the City of Oakland was part of the rancho of Luis Maria Peralta, granted in 1820. In 1842, Peralta divided his rancho among his four sons, with the area now occupied by the City of Oakland included in portions given to Vicente, Antonio Maria, and Ignacio. The original adobe hacienda of the rancho still exists as an archeological site within the City of Oakland (City of Oakland 1993c). There is no evidence of structural or archeological remains related to the rancho within the present-day NMCO, and there is no evidence of development of the NMCO land prior to the establishment of the Oak Knoll Golf and Country Club in the 1920s.

The town originally known as Oak Knoll was situated southwest of the present day location of the NMCO. This area was first developed in the 1920s and 1930s. During that time, the town of Oak Knoll was advertised as being a convenient distance from the cities of Oakland and San Francisco, and as having access to all the major utilities (gas, electricity, sewers), police, and fire protection. The architecture of the homes included stucco, Spanish, and bungalow styles. The Oak Knoll Golf and Country Club added to the attraction of the area for suburban residents (Theresa Hughes & Associates 1994).

In February 1942, the Navy purchased a portion of the Oak Knoll Golf and Country Club to construct a temporary Navy hospital. This was in response to the needs of the progressing war in the Pacific. Five months later, the hospital was commissioned with 25 redwood barracks and six ward buildings housing 204 patient beds. In 1945, at the climax of the war, the hospital had increased its capacity to 6,000 patients, with a military and civilian staff of about 3,000 people (US Navy 1984; Theresa Hughes & Associates 1994).

The end of the war in the Pacific led to a decline in the number of patients at the hospital. Patient levels increased again during the Korean Conflict to a daily patient average of approximately 2,500. The end of the Korean Conflict brought patient levels down to approximately 600 a day, which continued until the start of the American involvement in the Vietnam Conflict. In 1965, the influx of casualties from Vietnam created a need for increased patient care and morale-building activities, such as recreation. An urgently needed permanent hospital was completed in 1968. When the conflict in Vietnam ended, activities at the hospital again decreased and many of the original buildings constructed during World War II were demolished, and their locations were used for parking. However, several of these older wooden structures were left in place and are still in use for medical and support services (US Navy 1984; Theresa Hughes & Associates 1994).

After the Vietnam Conflict, the orthopedics program at NMCO became increasingly important. In 1973, organizational changes at the hospital led to the consolidation of health care resources for more efficiency, and made medical services at branch clinics more accessible to patients. Throughout the 1980s and 1990s, the NMCO has continued to update and modernize its medical services. Most recently, the NMCO provided medical support during the Gulf War (US Navy 1984; Theresa Hughes & Associates 1994).

No historic archeological sites have been identified on NMCO property. There is a low probability for the presence of buried historic resources, such as privies or cisterns, associated with the early use of the land as a country club or resources associated with the hospital during World War II. Due to the extensive grading and development of the area in the last 50 years, the presence of intact subsurface deposits is unlikely.

Historic Architectural Resources

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The predominant historic architectural resource at NMCO is Club Knoll, built in 1927 as the clubhouse for the Oak Knoll Golf and Country Club. It was designed in a Spanish Colonial/Mission Revival architectural style, which was popular for country clubs in the Bay Area in the 1920s (Page & Turnbull 1994).

When the Navy acquired the country club in 1942 for use as a medical center, the clubhouse was the only substantial building on the property. It housed the site's first hospital employees, who were responsible for the construction and administration of the hospital. The clubhouse also served as housing for the commanding officer and several bachelor officers until other buildings were completed near the end of 1942 (Page & Turnbull 1994). The clubhouse continued to serve a variety of functions during and

after the war until the completion of a new hospital in 1968. At that time, the clubhouse became the officers club for the medical center and became known as Club Knoll.

An informal evaluation performed in the early 1990s led the Navy to believe that Club Knoll would qualify for inclusion in the National Register of Historic Places (NRHP) because of its architecture. In 1993, a contract was let for a professional evaluation of the historic and architectural significance of the then "Naval Hospital, Oakland." The contract included the preparation of a National Register Nomination Form for Club Knoll and State Historic Inventory Forms for all the other buildings and structures constructed prior to the end of World War II. The purpose of the contract was to assist the Navy in consultation with the State Historic Preservation Office (SHPO) with respect to the eligibility of these properties for inclusion in the NRHP. After evaluating Club Knoll and conducting an extensive search for the architect who designed the clubhouse, it was determined that the clubhouse would not qualify for inclusion in the NRHP because of its architecture. This is because there are much better examples of the Spanish Colonial/Mission Revival clubhouses built in the Bay Area in the 1920s by well-known architects.

During the contractor's research, an association was found between Club Knoll and Mark Fry, a professional golfer employed by the Oak Knoll Golf and Country Club from 1928 to 1940. Mark Fry had won a number of tournaments on the local circuit and even won a national event the year after the Navy converted the golf course to a hospital. Believing that the marginal nature of Club Knoll's architectural significance, supported by the association with a local sports figure, might qualify the clubhouse for inclusion in the NRHP, the National Register Nomination Form was prepared.

After further consultation with staff of both the US Department of the Interior Keeper of the National Register of Historic Places and the SHPO, the Navy made the determination that Club Knoll would not qualify for the NRHP because, although it had elements of Spanish Colonial/Mission Revival style, it was not a good example of that architectural style and the architecture was not the work of a master. Furthermore, it was determined that the association of Club Knoll with Mark Fry was lacking because Mark Fry's achievements were performed on a now nonexistent golf course and not in the clubhouse (US Navy 1994b). The California SHPO concurred with this determination on May 31, 1994 (California Office of Historic Preservation 1994). The analysis of the National Register significance of Club Knoll has been disputed by the Oak Knoll Heritage Committee, a local community group. The committee has called for the reevaluation of the

building "in light of its significance during World War II" (MacDowell 1995).

Although it has been determined that it does not qualify for national recognition, Club Knoll has been placed on the local Oakland Preservation Study List by the Oakland Landmarks Preservation Advisory Board and has been found eligible to become a City of Oakland landmark due to its historic and architectural significance (Hausrath 1995). Inclusion on the preservation study list subjects the property to a 60-day delay in the issuance of a demolition permit and allows the use of the State Historic Building Code, which can waive certain requirements of the Uniform Building Code. The purpose of the listing was to ensure that future reuse of the land will "recognize the design quality of the structure and the history that it represents" (Hausrath 1995).

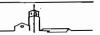
3.4.5 World War II and Cold War Era Resources

World War II- and Cold War-era resources are physical properties or structures that have gained significance within the past 50 years due to their association with either World War II or the Cold War. These resources can include ships and submarines, aircraft, battlefields, cemeteries, and structures, such as fortifications, guardhouses, barracks, bunkers, hangars, missile silos, and monuments.

Approximately 110 temporary wooden structures were built between 1942 and 1945 by the Navy for the hospital. Forty-five of these structures remain standing and are still used for medical and support services. However, with the demolition of over 70 of the original buildings and the continued development of the medical center over the last 50 years, the setting of the remaining structures and the integrity of the complex as a whole has been lost. Furthermore, the integrity of the 45 structures has been compromised through extensive improvements made over the last 50 years. All of the buildings contain modern roofs or siding added in the 1960s or 1970s. Therefore, these structures are not considered to be eligible to the NRHP (Page and Turnbull 1994; US Navy 1994b). The California SHPO concurred with these findings in May 1994 (California Office of Historic Preservation 1994). No Cold War resources have been identified at NMCO.

3.4.6 Regulatory Considerations

As a federal agency, the Navy is responsible for compliance with the National Historic Preservation Act (NHPA) of 1966 as amended (16 USC 470). Section 106 of the NHPA and its implementing regulations ("Protection of Historic Properties," 36 Code of Federal Regulations-Part 800), require federal agencies to consider the effects of their actions on



properties listed or eligible for listing on the National Register of Historic Places (NRHP). It also requires that agencies afford the Advisory Council on Historic Preservation an opportunity to comment on actions that will directly or indirectly effect such resources. In addition to the NHPA, the Archeological and Historic Preservation Act of 1974 and cultural resources requirements of DOD and the US Navy (DOD Directive 4710.1 of 21 June 1984, Archeological and Historic Resources Management; Department of the Navy OPNAVINST 5090.1B, Historic and Archeological Resources Protection, 1 November 1994, Chapter 23) require the Navy to consider cultural resources in the planning of its undertakings.

According to Section 7050.5 of the California Health and Safety Code, in the event human remains are discovered during excavation, work must stop immediately and the county coroner must be contacted. Sections 5097.94 and 5097.98 of the California Public Resources Code require consultation with the Native American Heritage Commission, protection of Native American remains, and notification of most likely descendants. SB447 (Chapter 404, Statutes of 1987) also protects Native American remains or associated grave goods. After transfer from federal ownership, the CEQA guidelines applicable to cultural resources would also apply.

3.5 AESTHETICS AND SCENIC RESOURCES

This section addresses the visual quality of the existing landscape. The analysis of these resources must address both the physical features of the landscape (natural and built) and how it is perceived by viewers.

The region of influence for the aesthetic analysis includes the Naval Medical Center Oakland (NMCO) site and surrounding areas within the general viewshed of the NMCO site, (i.e., areas that can be seen from or that have views toward the NMCO). This includes adjacent residential neighborhoods, open space areas of the East Bay Hills (west of the ridge top), the I-580 corridor, and some parts of the greater Bay Area having long distance views toward the East Bay Hills.

This section describes the existing visual conditions of the NMCO and surrounding area in terms of visual character, views and visibility of the project area from sensitive viewpoints, and regulatory considerations. The analysis is based on field documentation and photographic inventory, with reference to the Existing Conditions Report (Theresa Hughes & Associates 1994) and the existing conditions analysis included in the Base Exterior Architecture Plan for NMCO (U.S. Navy 1983).

3.5.1 Visual Character of the Project Area

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The visual character of the area is described in the context of the regional landscape character of the San Francisco Bay Area, against which the distinctive landscape features and overall scenic qualities of the area can be measured. For the purpose of this study (in the context of a metropolitan area), higher scenic quality is associated with the following visual conditions:

- Relatively undisturbed natural-appearing landscapes;
- Landscapes where human activity blends harmoniously with remaining elements of the natural landscape; and
- Distinctive natural, architectural, or other design features.

Poorer scenic quality is associated with highly disturbed or degraded landscapes or with builtup areas lacking building maintenance and landscape maintenance or a unified design.

Regional Landscape Character

NMCO is located at the western edge of the East Bay Hills, which form a part of the California coastal ranges. These are steep-sloping ridges that trend northwest to southeast and form the visual backdrop to many of the San Francisco Bay Area's metropolitan communities. The East Bay Hills have a wooded appearance, even where there is residential development, with extensive woodlands and grasslands at the higher elevations and in their more rural eastern areas. Between the East Bay Hills and the San Francisco Bay, gentler slopes are dominated by urban and suburban land uses. The NMCO property lies at the transition between the lower, partly urbanized hills and the heavily urbanized flatlands of Oakland.

The East Bay Hills are an important scenic resource for the entire Bay Area. At a regional level, the bay shore and associated panoramic views to background ridges, city skylines, major bridges, and the bay form important scenic resources.

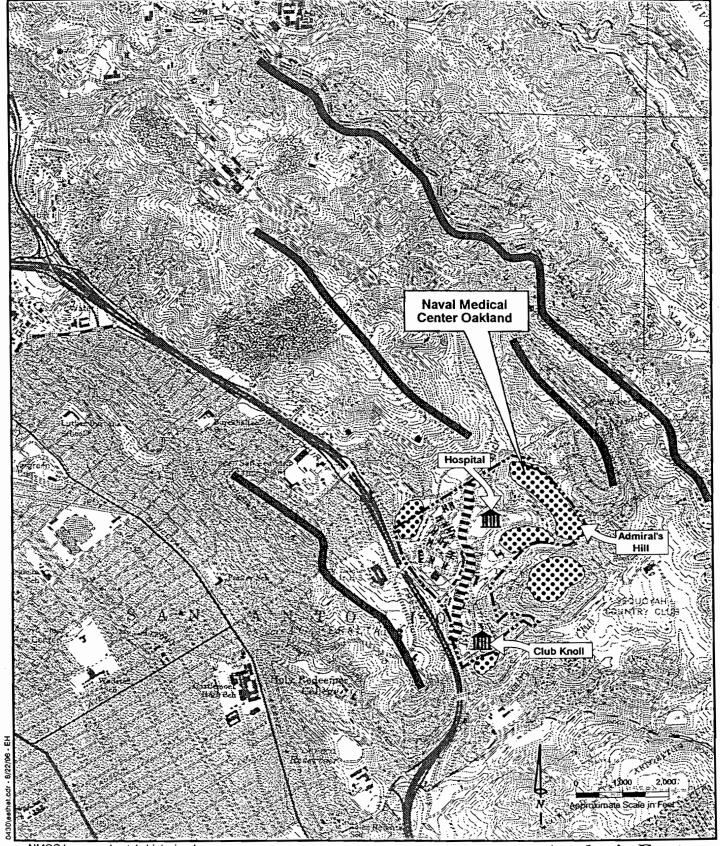
Landscape Features of the Project Site

Figure 3-9 identifies major aesthetic features of the NMCO site and surroundings. Appendix C (under separate cover in Volume II) contains photographs of NMCO and the surrounding area.

The landscape on the NMCO site is dominated by steep hillsides and knolls, woodland and mature landscaped areas, and certain large or distinctive buildings. The latter include the existing hospital building and Club Knoll. The site forms an enclosed "bowl," with the steeper East Bay Hills as backdrop and smaller ridges and knolls on both sides of the valley formed by the Rifle Range Creek watershed. As a result, the site generally is not visible from other locations, except where seen from higher elevations on the surrounding hills. The impression of the site is of a well-landscaped parklike setting that has a moderately high visual quality in the context of an urban setting, although extensive areas of parking and utilitarian buildings dominate views in some areas (U.S. Navy 1983).

Specific landscape components or areas that can be readily identified are as follows:

Steeply sloping hillsides and knolls border the eastern and southeastern
edges of the property (Photo 1, Appendix C). Vegetative cover ranges
from open grassland to oak woodland, with prominent plantings of
eucalyptus in places. Officer family housing is visible at the toe of the



NMCO has a moderately high visual quality in the context of an urban setting.



Distinctive architectural features

Developed by EDAW, Inc. from USGS 7.5' quadrangle, Oakland East, California (1980)

Major nuges of East Bay P

Naval Medical Center Oakland

Prominent knolls surrounding NMCO

Existing riparian corridor

Figure 3-9

main east-facing slope, with two dwellings visible at the crest of the ridge;

- The hospital area, located on a gently sloping open area west of Admiral's Hill, is dominated by the mass of the nine-story hospital building (Photo 2, Appendix C). Hospital architecture does not reflect the character of the site in scale, form, or materials. However, it does form a strong landmark for orientation within the NMCO site. It is surrounded by parking areas that present an open view of the hospital building. The visual appearance of this area strongly contrasts with all other landscape features on the site, due to the large scale, rectangular building its gray color, and architectural style. This area contains some of the lower visual qualities on the site but affords attractive panoramic views of the surrounding hills;
- The Rifle Range Creek corridor crosses the site and is most distinctive towards the center and southwest where dense natural and exotic vegetation provides an attractive greenbelt, screening buildings from view (Photo 3, Appendix C). A trail and road system (with bridges crossing the creek) adds to the visual interest of this area;
- The north quadrant is comprised of moderate sloping hillsides with oneand two-story buildings (Photo 4, Appendix C). These include several rows of "vintage" wooden buildings (painted white) with a distinctive visual character. Other buildings in this area include undistinguished one- to three-story multipurpose buildings. An area of enlisted family housing that is not prominent, (being partly screened by mature trees), is located at the top of the hill;
- In the southeast corner of the site, a small tributary valley is formed by an intermittent stream, Powerhouse Creek. This area, which has a wooded appearance, is isolated and hidden from view from the rest of the site by topography and trees;
- The officer family housing area east of Club Knoll has a well-landscaped suburban image;
- The most prominent feature of the Club Knoll area is the mission-style building itself (Photo 5, Appendix C). Situated on a terrace, the building overlooks the southwest portion of the site, and its tower is prominent from several directions. The combination of terra-cotta tiles and white walls is unique within the property and forms a recognizable landmark within a manicured landscaped setting. The enclosed courtyard and porticos of Club Knoll create a visual experience, which is also unique within the NMCO; and



 The main Mountain Boulevard entry area is characterized by the sentry gate and focal views of the Rifle Range Creek corridor towards the interior of the site (Photo 6, Appendix C).

Visual Character of the Surrounding Area

Steep surrounding hillsides have a primary influence on the visual character of the site. These support a variety of residential developments, including view lots on high open ridges, older residential neighborhoods where the houses are nestled among mature oaks and evergreen trees, and conventional suburban development. There is an extensive area of hillside and ridges to the northeast below Skyline Boulevard, with a mosaic of chaparral, trees, and grassland. A lower ridge, parallel to the predominant northwest to southeast trend of the East Bay Hills, encloses the NMCO area on its western flank, in the vicinity of the King Estates. This ridge is characterized by a mix of open grassland and suburban development with trees.

Other open space and landscaped areas provide substantial opportunities to view scenic resources close to NMCO, notably the Leona Regional Open Space valley corridor, the Chabot Regional Open Space area in the hills, the Seqoyah Country Club, and the Knowland State Arboretum and Park. However, none of these landscapes are within the main viewshed of the NMCO, due to terrain and vegetative screening.

The I-580 corridor on the western edge of the site forms a prominent feature, although extensive landscape screening filters the views from the NMCO. Almost one mile to the northwest, the higher west-facing hillsides above I-580 are scarred by the Leona Quarry, with a high rock wall that produces strong visual contrasts visible from viewpoints over 15 miles away, including the San Francisco Bay.

3.5.2 Views and Visibility of the Project Area

The following viewing situations provide key views of the area and have high visual sensitivity, based on professional standards of distance, duration, and typical concern for visual qualities. Visual sensitivity is also one of the concerns raised by local residents during the reuse planning process.

Within the context of an urban area, viewing distance is defined as follows for the purpose of this study:

- Foreground: 0-1/4 mile from the viewer;
- Middleground: 1/4 -2 miles; and
- Background: 2+ miles.

Residential Viewpoints

Ridgemont Skyline single-family homes and the major roadways serving them provide open, panoramic, middleground views of the site towards the bay and southern East Bay Hills (Photo 7, Appendix C). The hospital building is clearly visible from these viewpoints. At the lowest elevations, new housing across Keller Avenue from the northern NMCO entrance has foreground views of the northern edge of the site.

In Sequoyah Heights, the first row of homes along the crest of the ridge above the NMCO overlook the site towards the bay. However, the steep drop in topography and tall trees near the eastern NMCO boundary focus the view on the more distant panorama rather than on the NMCO site. Other houses and the streets in this subdivision have few, if any, views of the site.

The Sequoyah Hills residential area on the southeast boundary of the site has some open views of the hospital building in the foreground and other parts of the northern NMCO property (Photo 8, Appendix C), but many views are screened or filtered by mature oaks or evergreen trees.

Views from the Sequoyah Highlands residential area further to the south are effectively screened from views of the NMCO by topography and vegetation.

Homes in the King Estates residential areas west of the site and along the I-580 corridor have some views toward NMCO, but in general, these do not extend up the Rifle Range Creek valley much beyond the gate area. The exception would be views from the highest points on the King Estates ridge, which can see some of the sloping areas within the NMCO boundary.

There are no views of the site from the rest of the City of Oakland because the views are cut off by the King Estates ridge.

Off-site Public Use Areas

Several public recreational areas (and views) are located near the NMCO facility, as follows:

- Leona Regional Open Space is located in the upper reaches of the Rifle Range Creek valley. Views of the NMCO site are limited to foreground views across Keller Avenue from the south end of the park;
- Anthony Chabot Regional Park extends over several square miles eastward from the main ridgeline to the east of the NMCO but affords

few, if any, views west into the site due to topographic screening by the ridge itself;

- Knowland State Arboretum and Park, which includes the Oakland Zoo, is screened from the NMCO by intervening east-west ridges; and
- King Estates Park has open views of the Rifle Range Creek valley and the NMCO site from across I-580.

In addition, the private Sequoyah Country Club is located close to the NMCO but has few views of the site because of the wooded nature of the area and gentle upper slopes of the knoll block most potential views.

Highway Viewpoints

Most potential site viewers travel along the I-580 corridor. There are some views into the site from I-580, but these are limited to glimpses lasting a few seconds at typical freeway speeds. The views are at right angles to the direction of travel, and extensive screening by vegetation filters views alongside the freeway. Intervening topography also limits views of the east portions of the site.

Mountain Boulevard provides views similar to those described for I-580, except that views are closer, last slightly longer, and there are more direct views of the west edge and gateway to the NMCO. Keller Avenue is the other main arterial in the vicinity, providing access to surrounding residential areas. There are some views into the site near the Keller Avenue gate, which overlooks the hospital area from the northwest.

On-site Views/View Corridors/Entries

The most important view areas on-site, where use is concentrated, include the entry gates, the central corridor along Rifle Ranch Creek, and the vicinity of Club Knoll. Most of these views are not currently open to the public, except at and approaching Club Knoll.

Viewpoints offering attractive vistas and panoramic views of the NMCO and portions of San Francisco Bay include the access roads on Admiral's Hill at the eastern edge of the property and near the northwest corner of the site at the helipad.

3.5.3 Regulatory Considerations

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The principal plans and policies governing aesthetic considerations on the NMCO site are contained within the Oakland Comprehensive Plan.



Discussion of certain policies from the land use and open space, conservation, and recreation elements of the plan, addressing effects on the natural setting and open space resources, is provided in the Land Use Section (3.1). This section addresses specific urban design policies contained within the land use element (adopted April 1980), policies contained within the scenic highways element (adopted September 1974), and other applicable regulations.

Land Use Policies on Urban Design and Preservation

The land use element contains general guidance on urban design issues that refer to aesthetic principles. Most notably, general policy number 1 on urban design and preservation states that "The City will pursue a continuing, comprehensive process of urban design to seize opportunities as they occur and direct physical change toward a more efficient, more livable, more beautiful, and more dramatic urban environment."

Scenic Highway Policies

The scenic highways element of the comprehensive plan applies primarily to I-580 (the MacArthur Freeway) in the study area. Interstate 580 in the site vicinity was included in the State Scenic Highways System Master Plan in 1970 by the state legislature, as eligible for official state designation. In 1975, the city adopted protective measures that ensure the quality of this corridor will be maintained, in order to permit official state designation.

Relevant policies applying to I-580 in the context of the NMCO state that "visual intrusions within the scenic corridor should be removed, converted, buffered, or screened from the motorist's view" (Policy 2); "panoramic vistas and interesting views now available to the motorist should not be obliterated by new structures" (Policy 3); and "new construction within the scenic corridor should demonstrate architectural merit and a harmonious relationship with the surrounding landscape" (Policy 4).

Given the NMCO's generally low topography, the only portions of I-580 that could be considered as potentially within the critical viewshed from I-580 would include limited portions of the western NMCO area adjacent to I-580, where views through or between the extensive screening by vegetation are obtained from the freeway, and the higher locations of Admiral's Hill, where visible above the intervening trees.

The scenic highways element and more recent Oakland Policy Plan (adopted in 1980) also show Skyline Boulevard to the east of NMCO as a possible future designation under the scenic route framework for the City. The viewshed from this highway would include some portions of the NMCO

site, although at a distance of approximately half a mile. General Policy 2 states that "all or portions of visually significant traffic ways are eligible for future designation as scenic routes and for the protective restrictions that may be appropriate thereto."

Land Use Regulations

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The general provisions of the planning code (zoning regulations), adopted in August 1965 and revised through April 1994, contain some provisions relevant to aesthetics. The current zoning for the NMCO site is R-30 Residential, which limits building heights in general to 30 feet, establishes some limits on height and design of signs, and requires buffering with respect to screening of parking, loading and storage areas, and control of artificial illumination.

3.6 BIOLOGICAL RESOURCES

This section describes biological resources at and near the Naval Medical Center Oakland (NMCO). Biological resources include vegetation communities, wildlife populations, sensitive species, and sensitive habitats at the site and in the surrounding areas. The region of influence (ROI) for biological resources includes the NMCO and surrounding native habitats within a half-mile radius. These off-site resources may indicate the potential for sensitive species and habitats to exist on the site.

3.6.1 Methods

Biological resource data for NMCO was assembled from the California Natural Diversity Data Base (California Department of Fish and Game 1995a). Information also was collected from a letter of concern from the U.S. Fish and Wildlife Service (USFWS) (USFWS 1994c), a report of existing conditions at the facility (Theresa Hughes & Associates 1994), the Master Plan and Natural Resource Management Plan for the facility (U.S. Navy 1984; U.S. Navy 1990d), and the National Wetlands Inventory Map for the facility (National Wetlands Inventory 1985).

A botanist and a wildlife biologist conducted a four-day biological survey of the NMCO site in late April and early May 1995 (U.S. Navy 1995c). The Sensitive Species Survey report is in Appendix B, under separate cover in Volume II. This survey included searching for rare plants or suitable habitat for these plants, and for sensitive wildlife species or suitable habitat. All habitat types on the facility were surveyed to determine the potential for sensitive species. Areas of native habitat were surveyed more intensively than nonnative habitats because rare plants and sensitive animal species are more likely to inhabit these areas. Surveys for birds using the riparian (stream corridor) area were conducted in an area along Rifle Range Creek and its tributaries in the southwestern part of the site. Additional surveys for the Alameda whipsnake (Masticophis lateralis euryxanthus) also were completed from April through mid-July, 1996. The results of these surveys are discussed later in this chapter.

An arboricultural inspector from the City of Oakland and a plant ecologist (Navy consultant) conducted a tree study on April 11, 1996 (see Volume II, Appendix E) to estimate trees protected under the City of Oakland Tree Ordinance (Article 6, Section 7-6). To provide a representative sample of trees at NMCO three plots were randomly chosen in each of six vegetation communities: oak woodland, eucalyptus woodland, pine woodland, mixed woodland, riparian, and landscaped areas. Two vegetation communities, northern coastal scrub and grassland, were not included because these communities had few or no trees at NMCO.

3.6.2 Vegetation Communities

NMCO sustains five major vegetation communities, including grasslands, northern coastal scrub, woodlands, riparian corridors, and landscaped/developed areas (Figure 3-10).

Grasslands

Grasslands cover approximately 17 acres of NMCO, primarily in the northeastern part of the facility. These grasslands support a mixture of native species, such as purple needlegrass (Nassella pulchra) and silver bush lupines (Lupinus albifrons), and nonnative species, such as slender wild oat (Avena barbata) and barley (Hordeum sp.).

Northern Coastal Scrub

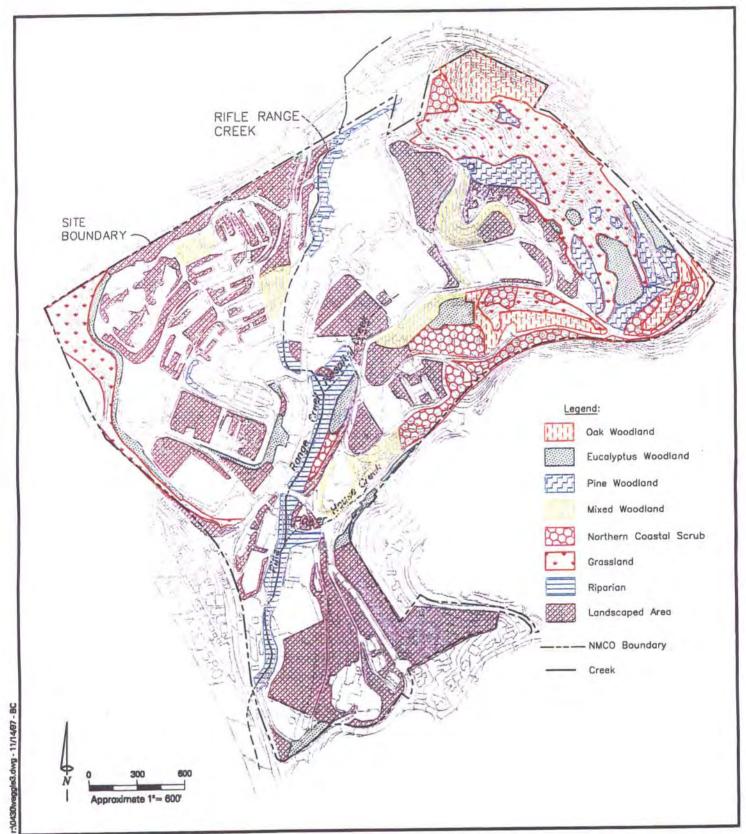
Northern coastal scrub covers almost ten acres on the eastern portion of NMCO. This community is dominated by nonnative broom (*Genista* sp.), toyon (*Heteromeles arbutifolia*), coyote brush (*Baccharis pilularis*), and coastal sage (*Artemesia californica*).

Woodlands

Woodland communities at NMCO are relatively undisturbed and cover about 24 acres. These areas include coast live oak woodland, knobcone pine woodland, mixed woodland, and eucalyptus woodland.

Coast live oak woodland is dominated by coast live oak (Quercus agrifolia) and covers approximately seven acres in the northeastern part of NMCO. Common understory species in this community at NMCO include poison oak (Toxicodendron diversilobum) and nonnative grasses. Based on the tree study, this community has about 1,980 coast live oaks and 120 California bays that would be protected under the City of Oakland Tree Ordinance.

Knobcone pine woodland is dominated by knobcone pine (*Pinus attenuata*) and covers approximately six acres of the northeastern area of NMCO. The understory in this community at NMCO is dominated by nonnative grasses. Based on the tree study, the pine woodland has about 680 Monterey pines and 95 other pine trees and 45 coast live oaks that may be protected under the City of Oakland Tree Ordinance.



NMCO supports native woodlands, scrub, grasslands, and a riparian corridor surrounding Rifle Range Creek.

Vegetation Communities

Naval Medical Center Oakland

Figure 3-10

Mixed native/nonnative woodlands at NMCO are located on approximately four acres in the northeastern portion of the facility and are composed mostly of native tree species, including California bay (Umbellularia californica), coast live oak, white alder (Alnus rhombifolia), Monterey pine (Pinus radiata), and knobcone pine, integrated with the nonnative blue gum (Eucalyptus globulus). Based on the tree study, the mixed woodland has about 65 Monterey pines and 35 other pines, 60 Deodora cedars, 100 acacias (Acacia sp.), 30 Lombardi poplars (Populars nigra var. italica), 30 coast live oaks, six black locusts, and six California bays that may be protected under the City of Oakland Tree Ordinance.

Eucalyptus woodlands cover about seven acres in patches throughout NMCO and are dominated by blue gum. Common understory species in this community include nonnative grasses, broom (Genista monspessulana), and goose grass (Galium aparine).

Riparian Corridors

The riparian corridor surrounding and including Rifle Range Creek and its small tributaries is the only sensitive habitat at the facility and is discussed below. Based on the tree study (Volume II, Appendix E), the riparian corridor of seven acres is dominated by coast live oaks and white alders (Alnus rhombifolia) with an estimated 275 trees of each and about 240 willow (Salix sp.) that would be protected under the City of Oakland Tree Ordinance. Other species in the riparian corridor of Rifle Range Creek include about 70 elderberries (Sambucus mexicanus), 60 elms (Ulnus sp.) 40 California bays, and about 10 each of blackwood acacia (Acacia melanoxylon) and white birch (Betula pendula) that would be protected under the City of Oakland Tree Ordinance.

Landscaped/Developed Areas

Other areas of NMCO are vegetated with ornamental species and other nonnative species in landscaped lawns and parks totaling about 40 acres. Landscaping tree species include eucalyptus (Eucalyptus sp.) and cypress (Cupressus sp.). The southern part of the facility is dominated by grass recreation fields. Based on the tree study, the landscaped areas include about 605 Monterey pines, 415 Deodora cedars, 410 acacias, and 30 coast live oaks that may be protected under the City of Oakland Tree Ordinance. The remaining acreage at NMCO is developed with buildings and roadways and contains no vegetation.

3.6.3 Wildlife

Wildlife on the site is typical of that found in disturbed urban areas of the region and includes invertebrates, amphibians, reptiles, birds, and mammals. Volume II, Appendix B (Sensitive Species Survey) includes a list of animal species compiled from the 1995 survey and other recent surveys. No surveys have been conducted at NMCO for invertebrate species.

Amphibian species are likely to inhabit the riparian corridor and Rifle Range Creek. The 1995 survey detected larvae of the Pacific chorus frog (*Hyla regallia*). Other amphibian species that may inhabit the facility include the western toad (*Bufo boreas*) and arboreal salamander (*Aneides lububris*).

The western fence lizard (Sceloperus occidentalis) was the only reptile species observed during the 1995 survey. Other reptiles that are likely to inhabit the facility include the racer (Coluber constrictor) and western rattlesnake (Crotalus viridis). These reptiles are likely to be found in the grassland and shrub areas of NMCO.

Bird species detected during the 1995 survey include raptors, such as the Cooper's hawk (Accipiter cooperi), turkey vulture (Cathartes aura), and redtailed hawk (Buteo jamaicensis); songbirds, such as the plain titmouse (Parus inornatus) and common bushtit (Psaltriparus minimus); and introduced species, such as the house sparrow (Passer domesticus) and European starling (Sturnus vulgaris). Many other bird species may inhabit the facility. The riparian corridor is an important habitat, providing nesting and foraging opportunities for a wide variety of bird species.

Mammals detected during these surveys include domestic cats and dogs, coyotes (Canis latrans), red fox (Vulpes vulpes), California ground squirrels (Spermophilus beecheyi), black-tailed hares (Lepus californicus), and mule deer (Odocoileus hemionus). Other mammals likely to inhabit NMCO include the raccoon (Procyon lotor), striped skunk (Mephitis mephitis), and deer mouse (Peromyscus maniculatus). These mammal species are likely to be found throughout all of the habitats on the site (U.S. Navy 1990d).

3.6.4 Sensitive Species

Sensitive species include those that are listed by the USFWS or by the California Department of Fish and Game (CDFG) as endangered, threatened, proposed for endangered or threatened status, or candidate species for endangered or threatened status. Also included as sensitive species are those listed by the California Native Plant Society and species of special concern to the CDFG. Table 3-13 lists endangered and threatened species that were determined to exist in the region of influence. Species

proposed for endangered or threatened listing and candidate species are included in this list because these species may be listed prior to the completion of this environmental impact statement/environmental impact report (EIS/EIR). Table 3-14 also lists other sensitive species (federal species of concern and California species of special concern) that were determined through preliminary research to exist in the region of influence for NMCO. As of February 28, 1996 when the USFWS published an updated list of candidate species in the Federal Register, Category 1 species are considered candidates, Category 2 and Category 3 species designations are discontinued. The following discussion focuses on the possibility for those species listed on Table 3-13 and Table 3-14 to exist at NMCO, as determined by existing habitat and the 1995 survey (U.S. Navy 1995c).

Table 3-13
Endangered, Threatened, and Candidate Species in the Vicinity of NMCO¹

Zommon Name	Scientific Name			学以著《答答》	Habitat a
Plants					
pallid manzanita	Arctostaphylos pallida	PT	E	1B	N
Presidio clarkia	Clarkia franciscana	E	E	1B	N
Invertebrates		:			
bay checkerspot butterfly	Euphrydryas editha bayensis	Ţ	none	none	N
Fish					
tidewater goby	Eucyclogobius newberryi	Ε.	CSC	none	N
Amphibians					
California tiger salamander	Ambystoma californiense	С	CSC	' none '	N
California red-legged frog			CSC	none	N
Reptiles					
Alameda whipsnake	Masticophis lateralis euryxanthus	PE	T	none	Y

¹ The vicinity of NMCO is defined in this study as the area contained within the Oakland East, Las Trampas, and San Leandro 7.5 minute U.S. Geological Survey quadrangle maps.

² CNPS = California Native Plant Society.

Notes:

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Federal Status E = Endangered	State Status E = Endangered	CNPS Status 1B = Rare and endangered in	Habitat at NMCO? Y - Yes
T = Threatened	T - Threatened	California and elsewhere	N= No
PE = Proposed endangered	CSC - California species		
PT = Proposed threatened	of special concern		

C = Candidate

Sources: California Department of Fish and Game 1994a; 1994b; 1994c; 1995a; 1995b and U.S. Fish and Wildlife Service 1993a; 1993b; 1994a; 1994b

Table 3-14 Other Sensitive Species in the Vicinity of NMCO¹

Common Name	Scientific Name	Federal	State	CNPS	Habitat at
		Status	Status	Status	NMCO?
Plants					•
alkali milk-vetch	Astragalus tener vat. tener	none	none	1B	Ν
Oakland star-tulip	Calochortus umbellatus	none .	none	4	Y
Point Reyes bird's-beak	Cordylanthus maritimus ssp. palustris	SC	none	1B	N
Diablo rock-rose	Helianthella castanea	SC	none	1B	N
fragrant fritillary	Fritillaria liliacea	SC	none	1B	N
Congdon's tarplant	Hemizonia parryi ssp. congdonii	R	none	1B	N
most beautiful jewelflower	Streptanthus albidus ssp. peramoenus	R	none	1B	N
·	Streptantos atomas ssp. perantoenas	K	HOHE	113	. 14
Invertebrates					
*	Helminthoglypta nickliniana bridgesi	SC	none	none	N
California brackishwater snail	Tryonia imitator	SC	none	none	N
Amphibians -					
foothill yellow-legged frog	Rana boylii	SC	CSC	none	Y
Reptiles					
northwestern pond turtle	Clemmys marmorata marmorata	SC	· CSC	none	N
southwestern pond turtle	Clemmys marmorata pallida	SC	CSC	none	N
Birds .					
sharp-shinned hawk (nesting)	Accipiter striatus	none .	CSC	none	Y
Cooper's hawk (nesting)	Accipiter cooperi	none ·	CSC	none	Y
golden eagle (nesting/wintering)	Aquila chryseatos	none	CSC	none	Y
northern harrier (nesting)	Circus cyaneus	none	CSC	none	Y
black-shouldered kite (nesting)	Elanus caeruleus	none	CSC	none	Y
osprey (nesting)	Pandion haliaetus	none	CSC	none	Y
short-eared owl (nesting)	Asio flammeus	none	CSC	none	Y
long-eared owl (nesting)	Asio otus	none	CSC	none	Y
burrowing owl (burrow sites)	Athene cunicularia	SC	CSC	none	Y
yellow warbler (nesting)	Dendroica petechia brewsteri	none	CSC	none	Y
tricolored blackbird	Agelius tricolor	SC	CSC	none	N
loggerhead shrike	Lanius ludovicianus	none	CSC	none ,	\mathbf{x}_{i} , \mathbf{Y}
Alameda song sparrow	Melospiza melodia pusillula	SC	CSC	none	Y
Mammals					
greater western mastiff bat	Eumops perotis californicus	SC	CSC	none	Y
San Francisco dusky-footed woodrat	Neotoma fuscipes annectans	SC	CSC	none	Y
Pacific western big-eared bat	Plecotus townsendii townsendii	SC	CSC	none	Y

¹ The vicinity of NMCO is defined in this study as the area contained within the Oakland East, Las Trampas, and San Leandro 7.5 minute U.S. Geological Survey quadrangle maps.

Notes:

* no common name is available for this species

Federal Status

R - Taxa for which available information does not support issuance of a proposed listing (formerly C1)

SC - Species of concern (formerly C2)

State Status

CSC - California species of special concern

CNPS Status

1B - Plants rare, threatened, or endangered in California and elsewhere

4 - Plants of limited distribution

Habitat at NMCO?

Y = Yes

N= No

Sources: California Department of Fish and Game 1994a; 1994b; 1994c; 1995a; 1995b and U.S. Fish and Wildlife Service 1993a; 1993b; 1994a; 1994b;



Plants

Two endangered or threatened plants and seven other sensitive plant species were identified as having the potential to exist on the site. Each is presented in the survey report in Appendix B (Volume II) along with a discussion of the likelihood for its presence on-site. In accordance with policy of the Sacramento field office of the USFWS, Category 2 species are included in Table 3-14 as species of concern (Knight 1996). The Sensitive Species Survey in Appendix B was written prior to Federal Register publication and includes the previous designations as a comparison for changes.

One sensitive plant (Table 3-14) was determined to exist on the site, and none of the other are likely to inhabit NMCO because suitable habitat is not present on the site. The Oakland star-tulip (Calochortus umbellatus), a California Native Plant Society List 4 species not previously recorded at the facility, was detected during the 1995 survey.

Animals

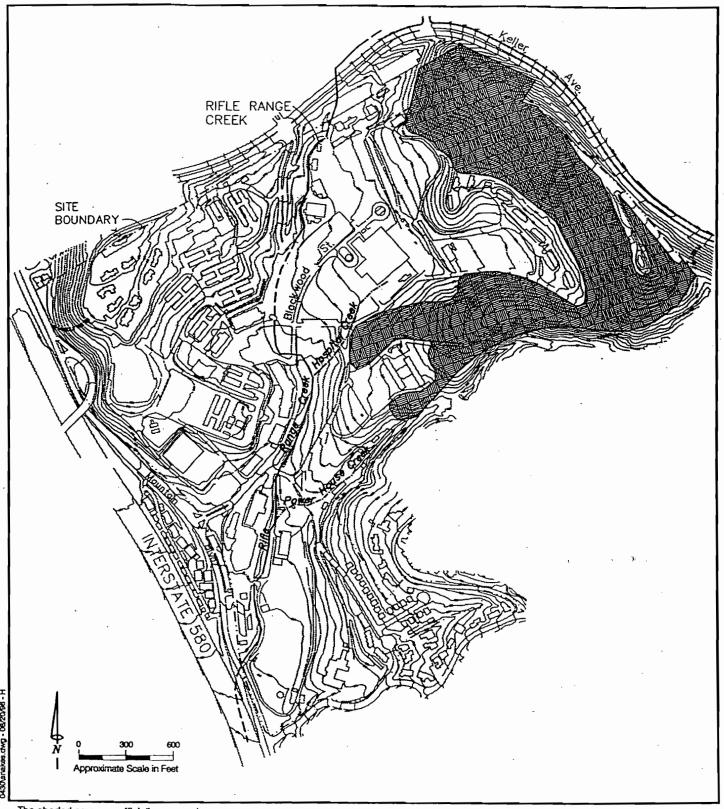
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Five endangered, threatened, and candidate animal species were identified in the 1995 as potentially existing on the facility. Each is presented in the survey report in Appendix B (Volume II) along with a discussion of the likelihood for its presence on-site. The Alameda whipsnake (proposed endangered) was the only endangered or threatened animal species that could have inhabited the site based on available habitat.

The Alameda whipsnake (Masticophis lateralis euryxanthus) inhabits south-facing stands of northern coastal shrub dominated by sage (Salvia sp.); chaparral areas dominated by chemise (Adenostema fasciculatum), manzanita (Arctostaphylos sp.), and poison oak; or grasslands within adjacent northern coastal scrub. This species primarily feeds on western fence lizards. The closest known location of this species, recorded in 1990, is less than five miles northeast of the site (California Department of Fish and Game 1995a). Subsequent surveying for the Alameda whipsnake (Figure 3-11) confirmed, according to surveying methods approved by the California Department of Fish and Game, that no whipsnakes were present. Appendix F (Volume II) summarizes the results of that survey. Due to the small amount of habitat present, the isolation of that habitat by surrounding development, and the fact that no Alameda whipsnakes were captured or observed during the survey, no Alameda whipsnakes are likely to occur at NMCO.

Twenty-one other sensitive species (Table 3-14) were determined to have the potential to exist on the facility. Of these, the foothill yellow-legged frog(Rana boylii) may exist in the riparian areas. The sharp-shinned hawk





The shaded area was officially surveyed for Alameda Whipsnake in April-July, 1996. None were found.

Legend:

Area Surveyed for Alameda Whipsnake Habitat Potential

— Creek

Naval Medical Center Oakland

Area Surveyed for the

Alameda Whipsnake

Figure 3-11

Developed by Tetra Tech

(Accipiter striatus), golden eagle (Aquila chryseatos), northern harrier (Circus cyaneus), black-shouldered kite (Elanus caeruleus), and loggerhead shrike (Lanius ludovicianus) may use the native habitats on the facility for foraging and nesting. Additionally, field surveys detected the presence of the Cooper's hawk (Accipiter cooperi) and yellow warbler (Dendroica petechia brewsteri) in the riparian areas surrounding Rifle Range Creek and its tributaries. A burrowing owl (Athene cunicularia) was observed near the grasslands in the eastern part of the site. These species had not been recorded previously at the site.

3.6.5 Sensitive Habitats

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Riparian corridors and streambeds are important resources to most wildlife species, providing water, cover, nesting habitat, and foraging habitat. Rifle Range Creek is generally a perennial creek that becomes intermittent during times of drought. Water was present in the creek at the time of the early spring 1995 survey. Water depth ranged from approximately six inches to three feet and flowed at a fairly rapid pace along most of the creek corridor on the facility. Large sections of the creek pass through culverts under streets and parking lots.

The riparian corridor surrounding Rifle Range Creek and the small tributaries encompasses approximately seven acres. The vegetation in this area is dominated by white alder, willows (Salix sp.), California blackberry (Rubus ursinus), Lombardy poplar (Populas nigra), coast live oak, poison oak, and horsetail (Equisetum sp.).

The National Wetlands Inventory Map for the area depicts Rifle Range Creek as a seasonally flooded scrub-shrub wetland (National Wetlands Inventory 1985). No other wetlands are shown within the region of influence.

3.6.6 Applicable Regulations

Federal Endangered Species Act

Federal law directs that all federal agencies and departments use their authority to preserve endangered and threatened species under the guidance of the Endangered Species Act (16 USC 1531 et seq).

The federal Endangered Species Act requires that the USFWS issue a permit prior to actions that would result in the killing, harming, or harassing of a federally-listed endangered or threatened species. This permit process is directed under Section 7 of the Endangered Species Act for actions in which a federal agency is involved and in a similar process under Section 10a of the

Endangered Species Act for state and local agencies, as well as for individuals. Federal agencies are required to consult with the USFWS (or National Marine Fisheries Service for some species) prior to undertaking actions that may affect endangered species. A federal agency is required to obtain a biological opinion from the USFWS on whether its actions may jeopardize the continued existence of any threatened or endangered species. The biological opinion is normally issued after the USFWS reviews the draft environmental document. Federal agencies are prohibited from enacting activities that would jeopardize the continued existence of these species.

Migratory Bird Treaty Act

The Migratory Bird Treaty Act (16 U.S.C. §§ 703-712) prohibits the taking of individuals, nests, or eggs of a migratory bird species without permits. Migratory birds pass through NMCO during the spring and fall, and some songbirds nest at NMCO.

Clean Water Act

The U.S. Army Corps of Engineers regulates impacts to wetlands under Section 404 of the Clean Water Act (33 U.S.C. §§ 1251-1387). Wetlands are considered important to the public interest in that they perform significant biological functions, such as providing nesting, breeding, foraging, and spawning habitat for a wide variety of resident and migratory animal species (Corps of Engineers Regulatory Program Regulations, 33 CFR 320.4). Projects that include potential dredge or fill impacts to wetlands must be reviewed by the U.S. Army Corps of Engineers and Environmental Protection Agency under the Clean Water Act.

California Endangered Species Act

California provides procedures similar to the federal Endangered Species Act for nonfederal projects under the California Endangered Species Act, California Fish and Game Code (§ 2090 et seq.). For example, the CDFG can adopt a federal biological opinion as a state biological opinion under California Fish and Game Code Section 2095. Upon disposal of NMCO out of federal ownership it would be subject to these state regulations.

CDFG Wetlands Policies

The CDFG has the authority to reach an agreement with an individual proposing to affect intermittent or permanent streams and other wetlands pursuant to Section 1603 of the California Fish and Game Code. The CDFG generally evaluates the information gathered during preparation of the environmental assessment document and attempts to satisfy its concerns

during the CEQA process. In accordance with its policy of no net loss of wetlands habitat, the CDFG encourages completion of a streambed alteration agreement, which includes a mitigation program for impacts to all wetlands, regardless of acreage.

City of Oakland Tree Ordinance (Article 6, Section 7-6)

This City of Oakland Tree Ordinance ordinance defines those trees that are protected by the city and that require a permit for removal. Protected trees include coast live oaks in diameter at 4.5 feet above ground level larger than four inches and other trees larger than nine inches, except Monterey pines and eucalyptus. Monterey pines are protected on city property if more than five trees per acre are proposed to be removed. Eucalyptus trees are not protected.

Appendix E (Volume II) is a tree study that was conducted to estimate trees protected under this ordinance at NMCO. The results of this study are also recorded under the discussion of applicable vegetation communities (Section 3.6.2). The numbers of protected trees presented in the results section are estimates based on samples taken in the field. They do not represent the exact numbers or variety of species that are found at NMCO. When a precise site plan for development of the area is presented to the City, a tree removal permit would have to obtained for any protected trees that are to be removed. The applicant would have to conduct a survey of which trees would be removed and their diameter at breast height (dbh) and all other requirements of the ordinance. Tree removal can occur to ensure public health and safety, to take advantage of views, as discussed in the Oakland View Protection Ordinance, or for acceptable landscaping or forestry management reasons.

3.7 WATER RESOURCES

This section describes water resources at Naval Medical Center Oakland (NMCO). The region of influence (ROI) considered for water resources includes the NMCO property. Under this definition, any off-property impacts that may occur are considered to be indirect or cumulative impacts. Water resources include permanent and ephemeral surface water bodies and ground water. This section describes the occurrence, quantity, and quality of water resources, and the regulations that apply to the management of water resources. It provides the basis for discussion of impacts associated with water resources.

3.7.1 Surface Water

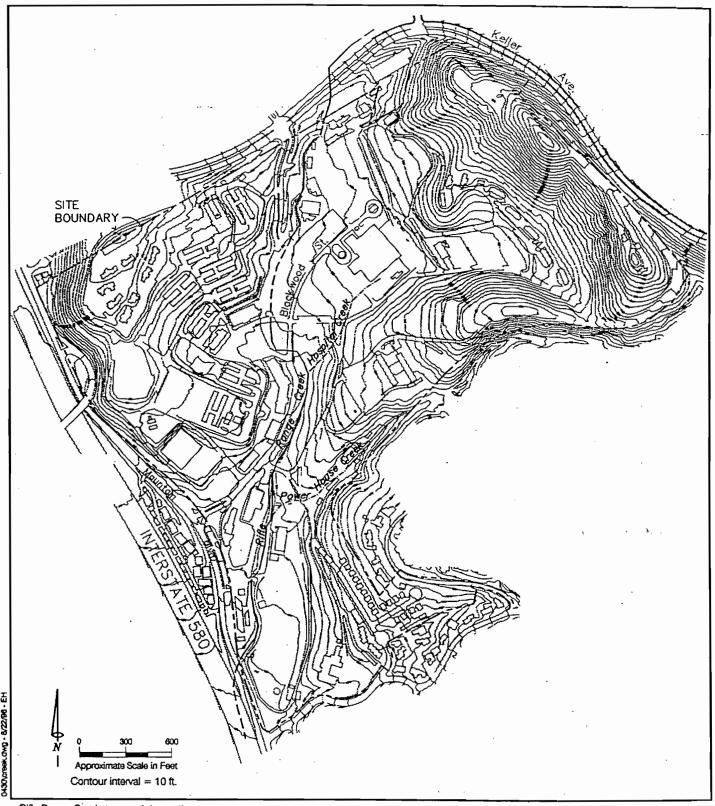
Surface Water Features

The primary surface water feature on NMCO is Rifle Range Creek, a tributary of Arroyo Viejo. Rifle Range Creek starts near Skyline Boulevard, about 1.5 miles north of NMCO, and drains a roughly 850-acre watershed, containing the Leona Regional Open Space, before entering the NMCO property near the north gate on Keller Avenue. It is ephemeral upstream of the installation, becoming perennial on NMCO. It drains all but a small portion of the northwest corner of NMCO. It merges near the center of the installation with two intermittent tributaries, Hospital Creek and Power House Creek, that drain the east side of NMCO. These streams are shown on Figure 3-12. Rifle Range Creek exits NMCO near the main entrance and flows along the southwest boundary of NMCO before joining Country Club Creek about 1,000 feet south of the installation. The combined stream is called Arroyo Viejo. Arroyo Viejo crosses I-580 at Golf Links Road and flows briefly northwest along the lineament of the Hayward Fault before turning southwest toward San Leandro Bay near Castlemont High School. It ultimately drains to the bay near the Oakland Coliseum.

The area near NMCO receives an average of about 18 inches of rainfall annually, most of which falls between October and April. Resulting runoff flows either directly into the natural drainage or is directed to the stormwater system. It is then discharged to Rifle Range Creek.

Surface Water Quality

There is little available data regarding surface water quality. Storm water runoff from portions of NMCO can become contaminated through washing of contaminants (mostly oil and grease) from roadways and parking lots.



Rifle Range Creek runs north to south through NMCO with two small intermittent tributaries, Hospital Creek and Powerhouse Creek, to the east.

Legend:

Surface Water

-- Creek

---- Intermittent Tributaries

Naval Medical Center Oakland

Underground Streams

Figure 3-12

Typically, the maximum contamination of runoff is associated with the first storms of the rainy season. The Alameda County Public Works Department has sampled water in Rifle Range Creek for selected inorganic water quality parameters in 1980 and 1986 (Godfrey 1995). The water samples were not analyzed for organic compounds. In all of the samples collected, the pH was approximately neutral to slightly basic, indicating that the water was not noteably impacted by sulfide minerals in the Leona rhyolite. None of the other water quality indicators exceeded state or federal secondary drinking water quality standards.

3.7.2 Ground Water

Ground water is defined as water found in soil or rock formations. Ground water basins are soil or geologic features within which stored ground water is interconnected and functions as a hydrologic unit. The term aquifer refers to a water-bearing permeable geologic unit that is capable of yielding important amounts of water to wells. What constitutes an important amount of water depends on the context. Less permeable water-bearing units are termed aquitards, if ground water moves through them very slowly, or aquicludes, if they present a barrier to ground water flow.

NMCO lies within the East Bay Plain subbasin of the Santa Clara Valley basin (San Francisco Regional Water Quality Control Board 1986). The following information is compiled from geotechnical reports made at selected locations on the NMCO property. It indicates that the ground water table at NMCO is highly variable, with levels ranging from less than 10 feet to over 40 feet below the surface.

In 1957, Woodward-Clyde Consultants (Oak Knoll Affiliates 1957) performed a field investigation of the site of the proposed hospital building (Building #500). Eight deep borings to depths between 30 and 95 feet and 35 shallow borings to depths of up to 15 feet were drilled within an area of about 20 acres surrounding the proposed hospital site. Water levels in four of the borings near the west end of the proposed hospital were observed in the range of 13 to 17 feet below the ground surface (bgs), while water levels in two borings at the east end of the building were 28 and 43 feet bgs.

In 1974, during construction of the foundation for a new mechanical and electrical building near the east end of the hospital building, ground water levels were observed at depths of 5 to 15 feet bgs. Four dewatering wells were installed and pumped to remove ground water during excavation of the foundation. The combined sustainable yield from the wells was estimated to be 50 gallons per minute (gpm) by Woodward-Clyde Consultants (1975).

A 1975 report (U.S. Navy 1975) concluded that ground water was at depths below the limit of excavation for the mechanical and electrical building. Two springs were observed in the hillside southeast and upslope of the construction site. Surface flow was observed in the drainage swale north of San Leandro Street.

In 1983, four deep geotechnical exploration borings were drilled to depths of 75 to 102 feet below ground surface (bgs) in preparation for construction of buttresses for seismic retrofit of the hospital building (Degenkolb Engineers 1984). The water level in the borings near the southwest buttress was observed at 38 feet bgs; that in the northeast boring was at 10 feet bgs; and the water level in the southeast boring was at 8 feet bgs. No water level was recorded in the northwest boring.

There are two domestic water wells on the base (Rogers 1995). One of the wells is considered to be active and is located in structure #125, directly across Blackwood Street from Exchange Building #38. This well is more than 200 feet deep and is equipped with a submersible pump that was installed approximately six years ago. Although the yield of the well is not known, it was probably considerable since the well was used in the past to irrigate lawns and soccer fields. The second well is capped. It is located adjacent to Building #13, the Public Works Center paint shop. No information was available concerning the construction of this well, but it is thought to be similar to the active well. The wells may have been constructed in the 1950s (Faris 1995). No geologic logs are known to be available for these wells.

3.7.3 Water Supply and Demand

In the past, NMCO has relied for some of its irrigation requirements on the two ground water wells described in Section 3.7.2. All water currently used on the site is supplied by East Bay Municipal Utility District (Douchand 1995).

3.7.4 Flood Hazards

No floodplains have been identified by the Federal Emergency Management Agency within the NMCO boundary (Federal Emergency Management Agency 1982). However, Rifle Range Creek has reportedly been observed to overflow its banks in some low-lying areas for periods lasting a few hours during heavy rains (U.S. Navy 1990d).

According to the Alameda County Public Works Department, which has responsibility for flood control in the area, the storm water conveyances downstream of NMCO are not capable of handling a 25-year storm event or



larger (Saleh 1995). Upgrading the system to enlarge culverts or channels will be costly. Flooding occurs downstream of the NMCO property, both in the reach of Rifle Range Creek above Arroyo Viejo and in Arroyo Viejo below the confluence of Rifle Range Creek and Country Club Creek, because the watersheds upstream provide relatively little storage capacity.

3.7.5 Regulatory Considerations

Federal

Water quality in surface water bodies, including Rifle Range Creek, is subject to the Federal Clean Water Act. As part of that act, the National Pollution Discharge Elimination System program was developed to control and reduce pollutants to water bodies from point and nonpoint discharges from both industrial and stormwater sources. In the Bay Area, the program is implemented by the San Francisco Bay Regional Water Quality Control Board (RWQCB), a state agency.

State of California

Pursuant to Section 319 of the Clean Water Act, the state has the lead role in identifying and controlling nonpoint sources of pollution. The RWQCB implements the National Pollution Discharge Elimination System program through the issuance of permits for construction and industrial discharges. A notice of intent to join the state's general permit must be filed with the State Water Resources Control Board prior to the commencement of construction. The general permit requires dischargers associated with construction activities to eliminate nonstormwater discharges to stormwater systems and other waters of the state; to develop and implement a stormwater pollution prevention plan; and to perform monitoring of discharges to stormwater systems. The stormwater pollution prevention plan must include best management practices for source reduction and treatment of the discharge, if necessary. Best management practices may include sediment fences, contouring, and construction of retention ponds.

The RWQCB also regulates water quality in accordance with state laws and policies identified in the San Francisco Basin Plan. The basin plan identifies beneficial uses of surface and ground waters, wetlands, and marshes and sets forth water quality objectives to protect the beneficial uses. Beneficial uses of the inland surface waters at NMCO have not been designated by the RWQCB. Existing beneficial uses include ground water recharge and wildlife habitat. The related water quality objectives specify that the presence or concentration of constituents, including floating, suspended, or settleable materials, oil and grease, biostimulatory substances, sediment,

bacterial and toxic substances, among others, shall not cause a nuisance or adversely affect beneficial uses.

Section 24400 (e) of the California Health and Safety Code, administered by the California Department of Water Resources, requires that permanently inactive wells be destroyed in accordance with appropriate standards. A permanently inactive well is a well that has not been used for one year, unless the owner demonstrates an intent for future use of the well. The owner must maintain the well so that the quality of water in the well or ground water encountered by the well is not impaired, the well is not a safety hazard, and it can be easily identified as a well.

City of Oakland

The City of Oakland Storm Water Management and Discharge Control Ordinance (Ordinance 11590, June 1, 1993) prohibits nonstormwater discharges or increases in flow that would result in or contribute to a violation of the state of California general nonpoint source National Pollution Discharge Elimination System permit for stormwater and requires that best management practices be implemented to prevent nonstormwater discharges to waters of the state. The ordinance requires a permit to perform certain types of work in or near a stream.

In addition to the state nonpoint stormwater permit requirements, site grading activities are covered by City of Oakland Ordinance 10312 (January 18, 1983) and supplemental ordinance 10446 (March 13, 1984). Ordinance 10312 addresses grading and excavation activities on greater than 20 percent slopes or where more than five cubic yards of soil are disturbed. Ordinance 10446 applies to any activity that disturbs existing soil. Both ordinances require that interim and permanent measures be taken to control erosion and prevent sedimentation.

3.8 GEOLOGY AND SOILS

This section discusses the geologic setting of Naval Medical Center Oakland (NMCO). Seismicity and slope stability are discussed in detail because they represent potential geologic hazards to reuse and development of NMCO. The region of influence (ROI) for soils and geologic resources includes lands within the property boundaries of NMCO, adjacent contiguous land, the underlying geologic formations, and regional faults. Regional geologic features are discussed because some geologic conditions and processes may occur outside the NMCO boundaries but may impact NMCO.

3.8.1 Regional and Site Geology

Physiography

NMCO is located within California's central Coast Ranges. The dominant geological processes that have shaped the landscape in the vicinity of NMCO are uplift of the East Bay Hills and right-lateral strike-slip faulting associated with the Hayward Fault and other active faults of the San Andreas Fault system. The terrain in the vicinity of NMCO includes linear ridges and valleys and stream channels that are offset where they cross faults. Relative relief (difference between highest and lowest points) on the NMCO property is about 440 feet, with elevations ranging between about 240 feet on the Rifle Range Branch of Arroyo Viejo near the McArthur Freeway to about 680 feet at the summit of Admiral's Hill on the northeast corner of NMCO.

Regional Geology

Bay Area geology is dominated by the San Andreas Fault system, which includes the San Andreas Fault, the San Gregorio Fault, the Hayward Fault, the Calaveras Fault, and others that have been active for about 30 million years (Wallace 1990).

East of the Hayward Fault, the Franciscan marine cherts, sandstone, and volcanic rock are overlain by the Coast Range ophiolite. The ophiolite is overlain in turn by continental sedimentary rocks of the Great Valley sequence (Irwin 1990).

The oldest formation in the Great Valley sequence is the Knoxville formation, which consists of sandstone, shale, and conglomerate. These sediments are about 140 years old and may have been deposited at about the same time as sediments found in the Franciscan assemblage (Page 1966). Knoxville formation rocks are exposed in the watershed of the Country Club Branch of Arroyo Viejo south of NMCO (Radbruch 1969). Strata

belonging to the Great Valley sequence, upturned by folding, are exposed in the hills east of NMCO. The Leona rhyolite, which rests directly on Franciscan rocks at NMCO, is a volcanic rock with a composition similar to granite. It is currently thought to be at least 125 million years old but may be older (Jones et. al. 1991). Leona rhyolite is quarried as a construction material and has been mined for its pyrite.

Overlying the Great Valley sequence are consolidated Tertiary sedimentary and volcanic rocks (less than 65 million years old). There are no Tertiary rocks in the immediate vicinity of NMCO.

Unconsolidated sediments, less than about two million years old, cover most of the East Bay Plain and extend into stream channels at the base of the foothills. In the East Bay Hills, the unconsolidated materials consist primarily of younger erosional materials recently deposited at the bases of the hillslopes.

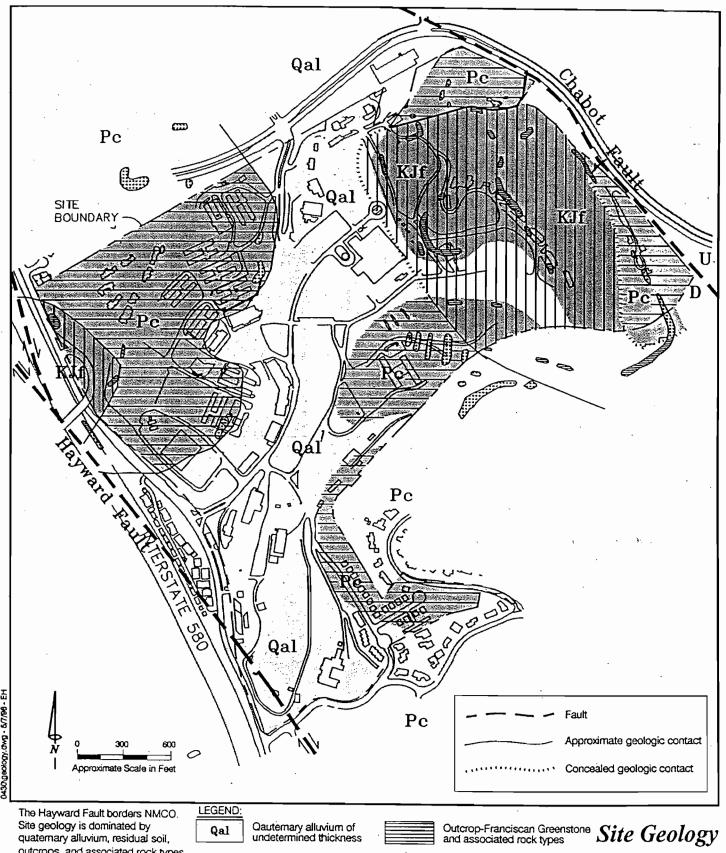
Site Geology

Figure 3-13 shows the surface geology at NMCO. NMCO is bounded on the west by an inactive trace of the Hayward Fault and on the east by the inactive trace of the Chabot Fault. Most of the bedrock exposed on the NMCO property is Leona rhyolite, which overlies rocks belonging to the Franciscan assemblage. Franciscan assemblage rocks are exposed on Admiral's Hill in the eastern portion of NMCO and beneath the heliport at the west side of NMCO.

The center of NMCO is underlain by Quaternary alluvium and colluvium. These are geologically young deposits resulting from erosion of the surrounding hills during the past 1.8 million years. Based on borings drilled throughout NMCO, the unconsolidated deposits range from a few feet thick on the margins to greater than 100 feet thick beneath the hospital building.

3.8.2 Regional Seismicity

NMCO lies within the regional San Andreas Fault system. In the San Francisco Bay Area, the San Andreas Fault system stretches across a zone approximately 44 miles wide, consisting of mostly right-lateral strike-slip faults (Wallace 1990). (The two sides of a strike-slip fault slip past each other in the direction of the trace of the fault, without much relative vertical displacement. Strike-slip faults are called right-lateral if, to a person standing on one side of the fault and facing the other, the opposite side would appear to be moving to the right.) The principal active faults in the San Andreas



outcrops, and associated rock types.

Sources: URS, Blume Assoc. 1974

Residual soil believed to be underlain by Pliocene Rhyolite

Residual soil believed to be underlain by Greenstone of Franciscan Age

Naval Medical Center Oakland

Outcrop-Pliocene Rhyolite

Figure 3-13

Fault system include the San Andreas, San Gregorio, Hayward, Rogers Creek, West Napa, Calaveras, Concord, and Green Valley Faults (Jenning 1994; Bortugno 1982). These faults are shown on Figure 3-14.

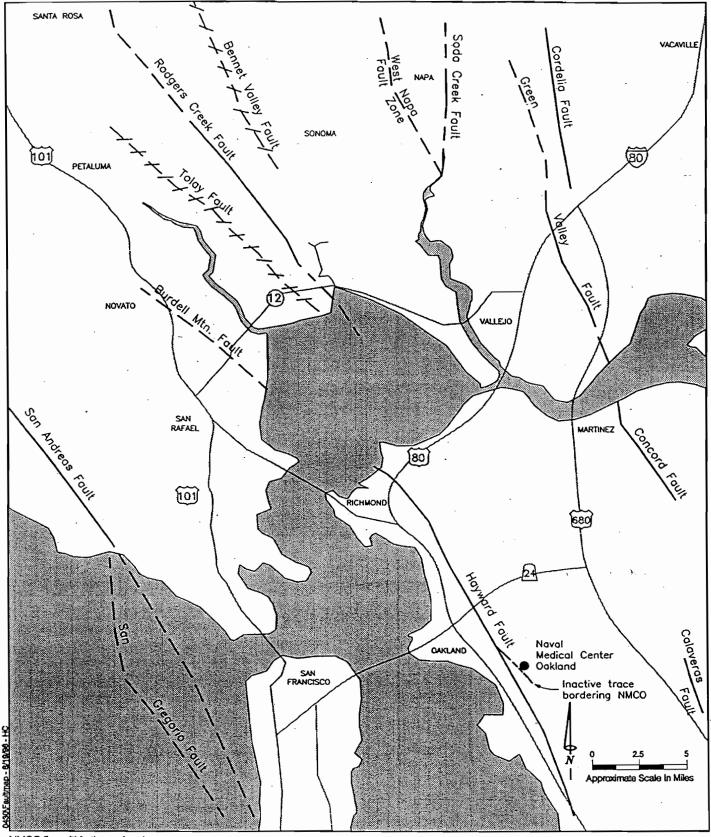
An active fault is defined by the California Division of Mines and Geology (Hart 1992) as a fault that has "had surface displacement within Holocene time (about the last 11,000 years)." In general, it is believed that future earthquakes are more likely to occur on recently active faults than on faults that have not been recently active. In California, special restrictions apply to construction within "fault-rupture hazard zones," defined by the Division of Mines and Geology under the Alquist-Priolo Special Studies Zones Act of 1972, to prevent developments and structures for human occupancy across the trace of active faults. As a rule, fault-rupture hazard zones are positioned about 500 feet away from major active faults and about 200 to 300 feet away from well-defined minor faults (Hart 1992).

The last major earthquake along the Hayward fault was in 1868. It is estimated that the recurrence interval for an earthquake of that size is about 130 ± 60 years (Lienkaemper and Borchardt 1992).

Earthquake magnitude (expressed in the Richter scale) is a measure of the amount of energy released at the origin of an earthquake within the earth's crust. Each integer increase in magnitude represents a ten-fold increase in energy. The potential magnitude of an earthquake is thought to increase with the length of the fault. Therefore, the largest earthquakes are expected to occur on long faults, such as the San Andreas, Hayward, and Rogers Creek Faults.

Incorporating data from the Loma Prieta earthquake of October 17, 1989, the Working Group on California Earthquake Probabilities estimates the probability of one or more large earthquakes (magnitude 7.0 or greater) on the San Andreas, Hayward, or Rogers Creek Faults during the next 30 years at 67 percent (Working Group on California Earthquake Probabilities 1990). Since the probability of earthquakes on other active faults was not included in this estimate, the 67 percent probability is considered to be a minimum probability for damaging earthquakes in the Bay Area. The Working Group on California Earthquake Probabilities estimated the probability of a magnitude 7.0 or greater earthquake on the northern segment of the Hayward Fault at 28 percent in the next 30 years.

Earthquake intensity is an expression of the amount of ground shaking during an earthquake. The Mercali intensity scale is based on observations such as the degree of damage to structures. Intensity depends on factors such as the distance from the origin of the earthquake, and the nature of the



NMCO fies within the regional San Andreas Fault system. The principal active faults closest to NMCO include the Hayward Concord and Calaveras faults.

LEGEND:

Active Fault. Fault has evidence of surface displacement within the last 11,000 years.

--- Active Fault concealed.

Potentially Active Fault. Fault has evidence of surface displacement within the last 2 million years.

Potentially Active Fault concealed.

Major Regional Faults

Naval Medical Center Oakland

Figure 3-14

Source: Bortugno 1982

geologic materials at the location where the earthquake is felt. Generally, bedrock shakes the least, and loose saturated materials shake more violently because seismic waves are amplified by these materials.

Damage to structures depends not only on the intensity and duration of an earthquake but also on how the structure is built and the direction of travel of seismic waves relative to the orientation of the structure. The proximity of NMCO to major earthquake faults means that seismic energy will be little attenuated (lessened) should an earthquake occur on a segment of one of the active faults near NMCO.

3.8.3 Local Seismicity

Active Faults

No active faults have been identified on the NMCO property. An inactive trace borders the NMCO site (Figure 3-13). The nearest active trace of the Hayward Fault is located approximately 1.5 miles west of the property. The Chabot Fault, along the eastern boundary of the property, is considered to be inactive (Radbruch 1969). Although a report by Woodward, Clyde, Sherard & Associates (1966) suggested the possibility that a trace of the Hayward Fault located along the western boundary of NMCO might be active, further evaluation has not revealed evidence of recent activity (Engeo 1979), and the California Division of Mines and Geology (Smith 1980) has removed this trace from its list of active faults.

Earthquake Magnitudes and Intensity of Ground Shaking

A recent report prepared by the Association of Bay Area Governments (Association of Bay Area Governments 1995; Perkins and Boatwright 1995), indicates that the amplification of seismic waves in geologic materials at NMCO would range from low on hillslopes underlain by bedrock, to high at locations underlain by thick alluvial sediments. The report by the Association of Bay Area Governments (1995) shows that the most damaging earthquake at NMCO would be one originating on the northern portion of the Hayward Fault. The intensity of ground shaking at NMCO, in response to an earthquake of magnitude 7.1 on the northern portion of the Hayward Fault, would range from extreme (Mercali intensity X) to moderate (Mercali intensity VIII), depending on the underlying geologic materials. The highest intensities would be felt in the alluvial sediments along the south boundary of NMCO adjacent to Mountain Boulevard and in the center of the NMCO site in the vicinity of the hospital.

A study by URS/Blume & Associates (U.S. Navy 1977) to design a seismic retrofit of the hospital building provides the only site-specific estimate



performed to date of the magnitude of ground shaking at NMCO due to a large earthquake. They calculated ground accelerations expected at the hospital based on maximum credible earthquake (MCE) magnitudes on major regional faults and for a smaller "design" earthquake. Using MCE magnitudes of 8.3, 7.3, and 7.0 on the Richter scale for the San Andreas, Hayward, and Calaveras Faults, respectively, they calculated the resulting ground accelerations by several different methods. The resulting average ground accelerations for all of the methods for each MCE were 0.59g, 0.54g, and 0.42g, respectively, for the San Andreas, Hayward, and Calaveras Faults. (Note that one "g" equals the acceleration of gravity.)

They then calculated the peak ground acceleration for an earthquake with a 10 percent probability of exceedence in 25 years. This smaller earthquake was used as a basis for designing a seismic retrofit to the hospital structure. The objective of the design was to prevent collapse of the hospital building but not necessarily to keep it functioning in the design earthquake (U.S. Navy 1977). The peak acceleration calculated for the smaller design earthquake was 0.29g. The accelerations calculated in the study attempted to account for the amplification of seismic waves in the unconsolidated deposits underlying the hospital.

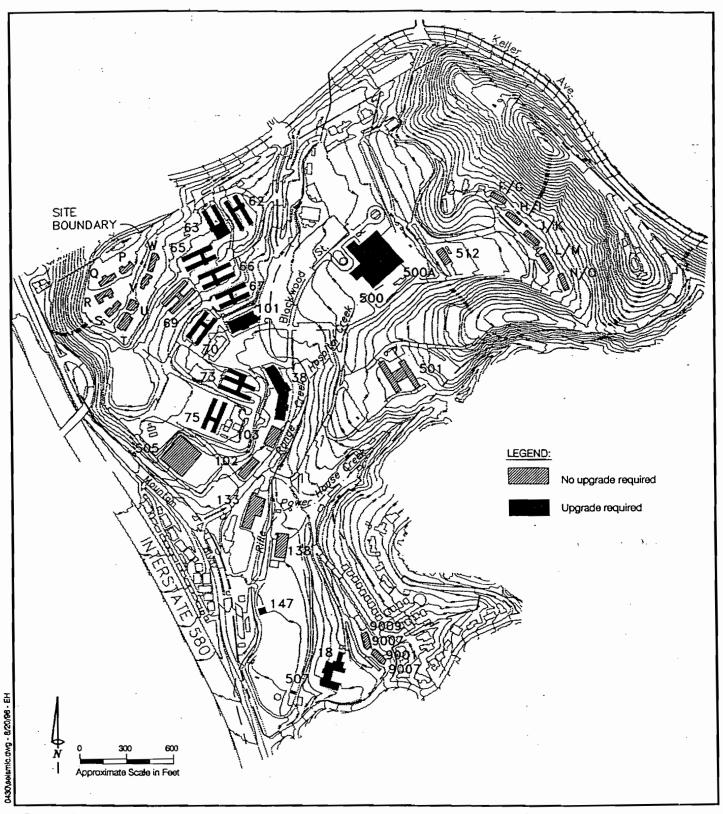
Liquefaction Potential

In a letter report entitled "Geologic Hazards Evaluation, Oak Knoll Naval Medical Center" (Woodward-Clyde Consultants 1995), the principal seismic hazard identified for NMCO was ground shaking. It was concluded that liquefaction potential at NMCO is low due to the presence of cohesive clayrich soils.

Seismic Studies of Existing Structures

In a recent study prepared for the City of Oakland (Degenkolb Engineers 1995), the hospital building and 35 other buildings were evaluated to determine their life-safety performance during seismic shaking using the methodology recommended by the Federal Emergency Management Administration (FEMA 1995). The buildings were selected for evaluation by the City of Oakland based on prioritization for potential reuse. Figure 3-15 shows the locations and status of the buildings that were evaluated.

The evaluation of the hospital building assumed that it would be subjected to a lateral load 0.137g, in accordance with static evaluation criteria for nonessential structures in the 1994 Uniform Building Code (UBC, International Conference of Building Officials 1994). (Based on data in the



Fourteen of the 38 structures evaluated for seismic life/safety requirements would require strengthening prior to reuse.

Buildings Evaluated for Seismic Upgrade to Meet Life/Safety Requirements

Naval Medical Center Oakland

Figure 3-15

URS/Blume & Associates [1977] study, a ground acceleration of 0.137g corresponds to an earthquake with approximately a 45 percent probability of exceedence for a 25-year return period). The hospital building is currently capable of meeting a life-safety standard under a lateral load of 0.095g (Degenkolb Engineers 1995). The hospital building would require major structural reinforcement to meet life-safety criteria for a lateral load of 0.137g. Even at that standard, there would be a 45 percent chance of an earthquake with a ground acceleration exceeding this level in less than 25 years. This standard is far below the UBC standard of 0.4g for this area. Seismic retrofit would be required to reduce life-safety hazards in Building #18, Building #38, the "H-shaped" buildings (except Building #69, which was seismically upgraded in 1993), Building #101, Building #147, and Building #507 (Degenkolb Engineers 1995).

3.8.4 Soils

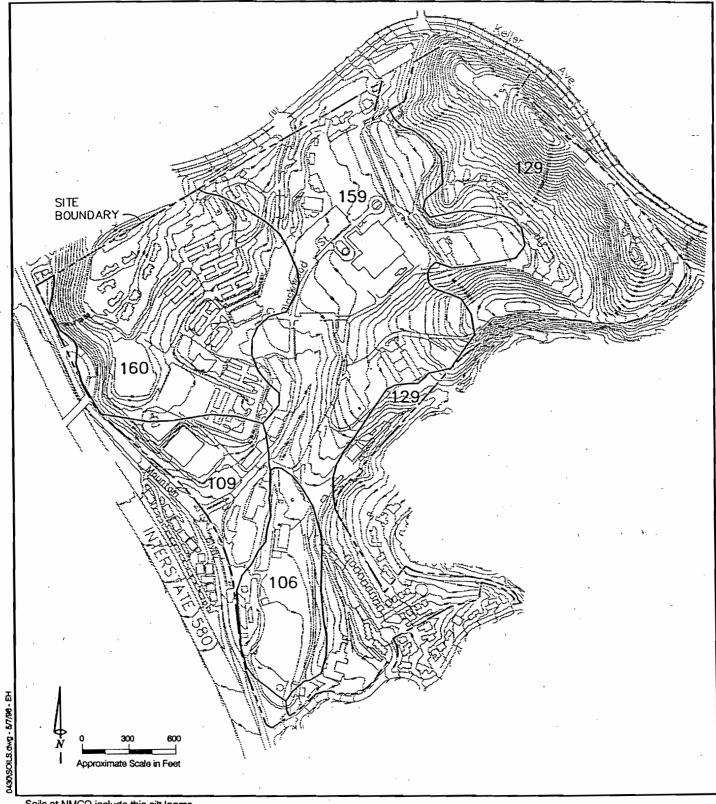
Soils at NMCO consist mainly of shallow Millsholm loam on steep slopes in combination with Los Osos clay loam and disturbed soils (Xerorthents). Two other soil types also occur on lowlands—Botella loam and Climara clay. Six variations of these soils have been mapped by the U.S. Soil Conservation Service at NMCO (Welch 1981). Figure 3-16 shows the distribution of these soils, and Table 3-15 lists some of the main properties of each soil. Many of the site soils have severe limitations for development due to high shrink-swell potential, steep slopes, low strength, and shallow depth to bedrock.

3.8.5 Slope Stability

Slope stability is related to a combination of factors, including rainfall, geology, steepness of slope, slope orientation, vegetation cover, seismicity, and development. Slope stability concerns include catastrophic slope failure from landslides, debris flows, and debris avalanches, as well as gradual processes, such as creep, earthflow, or erosion. Catastrophic slope failure in susceptible areas may be triggered by seismic events, rainfall, undercutting of slopes by construction activities, and overloading of unstable deposits.

Admiral's Hill has west-facing slopes of up to 50 percent, with steeper slopes facing Admiral's Hill south of San Leandro Street. Thirty percent slopes have been used as the upper bound for development potential in formulating reuse alternatives. Figure 3-17 shows the distribution of slopes greater than 30 percent and locations of existing landslide deposits, based on evaluation of aerial photographs (Theresa Hughes & Associates 1995; Nilsen 1975). One landslide was identified by Nilsen (1975) on a west-facing slope below the ridge crest at the northern corner of NMCO. If accurately identified, this slide apparently developed on a greater than 50 percent slope underlain by Leona rhyolite.





Soils at NMCO include thin's formed on moderate to steep				
and thicker loams and day s		106	Botella Loam, 0-2 percent slopes	Site Soil Types
LEGEND:		109	Climara Clay, 30-50 percent slopes	
		129	Millsholm Silt Loam, 50-75 percent slopes	•
. 	oil Unit Boundary	159	Xerorthents - Millsholm, 30-50 percent slopes	Naval Medical Center Oakland
		160	Xerorthents - Millsholm, 50-70 percent slopes	
Source: Welch 1981		_		Figure 3-16

Table 3-15
Properties of Soils at NMCO

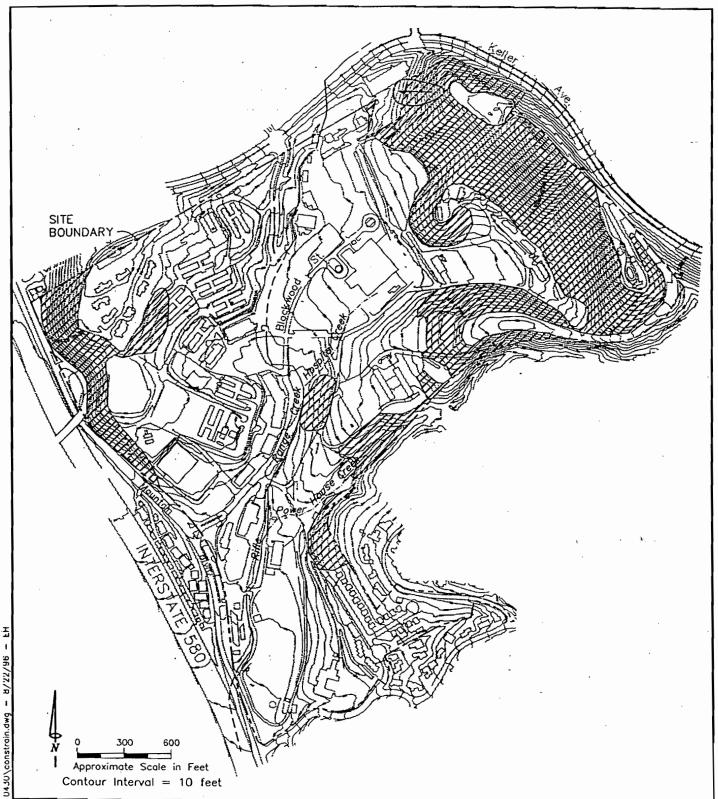
Symbol Used on Map	Soil Name	Depth	Shrink/ Swell Potential	Limitations for Dwelling Site Development	Limitations for Small Commercial Buildings	Limitations for Local Roads and Streets
106	Botella loam, 0-2 percent slopes	60+ inches	Moderate	Moderate: shrink-swell, low strength	Moderate: shrink-swell, low strength	Severe: low strength
109	Climara clay, 30-50 percent slopes	< 40 inches	High	Severe: slope, shrink-swell, low strength	Severe: slope, depth to rock, shrink-swell	Severe: slope, shrink-swell, low strength
129	Milsholm silt loam, 50-75 percent slopes	<20 inches	Low	Severe: slope, depth to rock	Severe: slope, depth to rock	Severe: depth to rock, slope
159	Xerorthents- Millsholm complex 30-50 percent slopes	< 20 inches	Low	Severe: slope, depth to rock	Severe: slope, depth to rock	Severe: depth to rock, slope
160	Xerorthents- Millsholm complex 50-70 percent slopes	<20 inches	Low	Severe: slope, depth to rock	Severe: slope, depth to rock	Severe: depth to rock, slope

Source: Welch 1981

In a report prepared for a creek repair project (Degenkolb 1984), soil conditions were explored at ten locations at approximately 100-foot intervals along the channel of the Rifle Range branch between Keller Avenue and Crowley Street. The objective of the project was to minimize erosion. The report described the deposits in the creek channel as interbedded clays, sands, and gravels, with moderate to low strength. The report noted evidence of slumping of the stream bank near Building #8 and suggested that creek banks should be kept as low as possible to prevent further slumping.

The Natural Resource Management Plan for NMCO (U.S. Navy 1990d) also states that bank erosion has occurred on the southern bank of Rifle Range Creek where it exits the grounds. This area is underlain by Botella soils, which are very deep, loamy, and easily eroded.

On the basis of an evaluation of aerial photographs of NMCO taken in 1959, Woodward-Clyde Consultants (1995) identified several small slumps near the northwest corner of NMCO and near the north boundary. They concluded that although these slumps do not appear to present an immediate



This figure shows hillslopes greater than 30% and former landslide deposits with direction of downslope movement.

Legend

--- NMCO Property Boundary

Landslide deposit

Slope > 30%

Hillslopes and Existing Landslide Deposits

> Naval Medical Center Oakland

Figure 3-17

Sources: Nielsen 1975; Theresa Hughes & Associates 1995

threat to any structures, the possibility of slope instability on steep slopes on either side of Rifle Range Creek should be considered in planning for future development.

3.8.6 Mineral Resources

Although pyrite has been mined in deposits of Leona rhyolite in the vicinity of NMCO, pyrite is no longer an economic mineral resource in the area (Bailey and Harden 1975). The Leona rhyolite is also used as a low-cost building material. No other mineral resources have been identified in vicinity of NMCO.

3.8.7 Regulatory Considerations

State of California

The California Code of Regulations (CCR), Title 24, Part 2, also known as the California Building Code (CBC), contains the enforceable state building standards. Earthquake design requirements are contained in Chapter 16, Division III, and other selected portions of the CBC. The 1995 edition of the CBC incorporates by reference the 1994 edition of the Uniform Building Code (UBC) (International Conference of Building Officials 1994), with the applicable California amendments. A more stringent set of standards applies to construction of public schools and medical facilities. These regulations are promulgated by the Division of the State Architect/Structural Safety Section, and the Office of Statewide Health Planning and Development. The provisions of the 1995 edition of the CBC became effective on December 28, 1995 (180 days after the date of publication, July 1, 1995). The California Building Standards Commission is responsible for coordinating all building standards in California. The City of Oakland Department of Public Works is responsible for enforcing these standards within the city.

NMCO is located within seismic zone 4, as defined in the CBC. UBC seismic standards represent minimum requirements for new construction within zone 4. Zone 4 is a region in which the effective peak ground acceleration assumed in design calculations is 0.4g. In areas in which effective peak ground accelerations are likely to be greater than 0.4g, the minimum UBC requirements may not be adequate. The UBC defines two alternative methods for calculating design seismic forces—a static procedure and a dynamic procedure. The dynamic procedure must be used in designing certain structures, such as those that have an irregular shape or exceed certain height limitations.

Under the Alquist-Priolo Earthquake Fault Zoning Act, the California Division of Mines and Geology has delineated seismic zones that are deemed to be "sufficiently active and well-defined as to constitute a potential hazard to structures from surface faulting or fault creep." The state geologist is also required to review continually new geologic and seismic data and to revise the earthquake fault zones or to delineate new zones based on new information. No active faults have been identified within the property boundary of NMCO. The nearest delineated active fault zone is the Hayward Fault, located approximately 1.5 miles west of NMCO.

City of Oakland

A grading permit is required by City of Oakland Ordinance 10312 (January 18, 1983) for grading and excavation activities where the existing or resulting slope will exceed 20 percent or where more than five cubic yards of soil are to be disturbed. The grading permit application requires a site map and grading plan, including a drainage plan and a soils report prepared by a registered civil engineer, when required by the director of public works. The grading plan must include mitigation measures to prevent structural damage that may be caused by expansive soils.

3.9 TRAFFIC AND CIRCULATION

This section discusses existing (preclosure) traffic and circulation conditions that may be affected by future projects at or near Naval Medical Center Oakland (NMCO). The region of influence (ROI) for traffic analysis includes regional and local access routes and the street system of the NMCO property. NMCO is located in a highly urbanized area served by an extensive network of freeway and arterial roadways and bus transit lines.

Traffic counts used as the basis for this study were collected in 1994 and 1995 and were adjusted for the impacts analysis to represent conditions of the site at closure. Traffic patterns are stable in this area; therefore, the traffic counts collected for this study are considered to be representative of preclosure traffic conditions in 1996.

Level of Service Methodology

Level of service (LOS) was analyzed at study area intersections for the AM and PM peak hours, using the methodologies described in the 1994 Highway Capacity Manual (Transportation Research Board 1994). The LOS for signalized and unsignalized intersections is defined in terms of delay, which is a measure of driver discomfort, frustration, and lost travel time.

Delay is a complex measure and is dependent upon a number of variables, including the number of vehicles in traffic. For signalized intersections, delay is also dependent on the quality of signal progression, the signal cycle length, and the "green" ratio for each approach or lane group. For intersections with one or two stop signs, delay is dependent on the number of gaps available in the uncontrolled traffic stream.

See Table 3-16 for the LOS criteria expressed in terms of average stopped delay.

3.9.1 Regional and Local Access Routes

Regional and local access routes are shown in Figure 3-18 and Figure 3-19, respectively. Regional access routes consist of freeways; local access routes consist of arterial, collector, and local roadways.

Regional Vehicular Access Routes

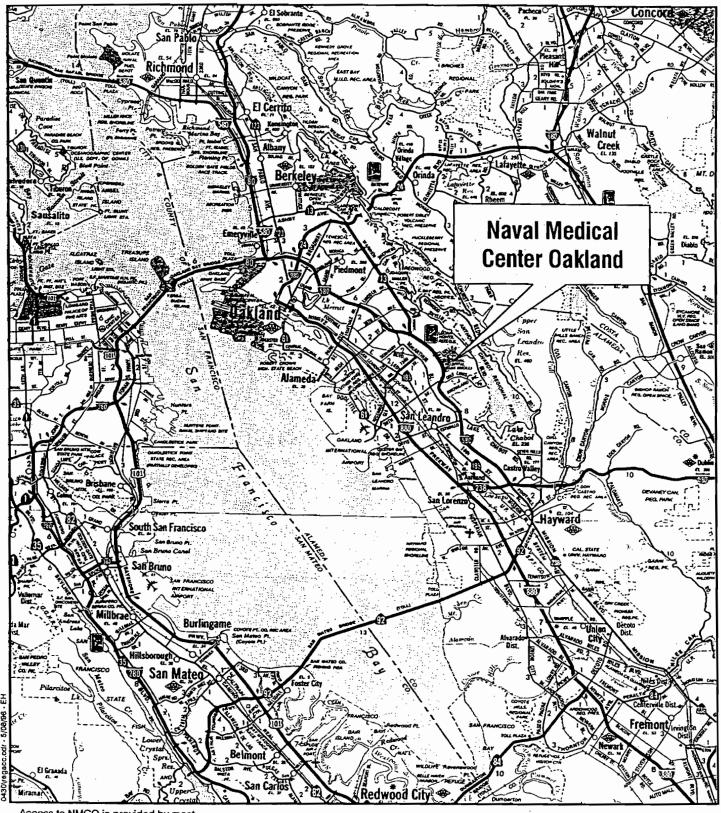
The City of Oakland is part of the urbanized area surrounding San Francisco Bay. The regional highway transportation system serving this area includes I-580 and State Route 13 in close proximity to NMCO and other regional roadways, such as I-880 and State Route 24.

Table 3-16
Traffic Level of Service Definitions
for Signalized and Unsignalized Intersections

LOS	Description	Delay Pe Signalized Intersections	r Vehicle Unsignalized Intersections
A	Operations with very low delay. This level of service occurs at signalized intersections when progression is extremely favorable and most vehicles arrive during the green phase. Most vehicles do not stop at all. Short cycle lengths may also contribute to low delay.	Up to 5 seconds (sec.)	Up to 5 sec.
В	At signalized intersections, this level generally occurs with good progression, short cycle lengths, or both. More vehicles stop than with LOS A, causing higher levels of average delay.	>5 to 15 sec.	> 5 to 10 sec.
С .	At signalized intersections, higher delays may result from fair progression, longer cycle lengths, or both. Individual cycle failures may begin to appear at this level. The number of vehicles stopping is considerable at this level, though many still pass through the intersection without stopping.	>15 to 25 sec.	> 10 to 20 sec.
D	At level D, the influence of congestion becomes more noticeable. Longer delays may result from some combination of unfavorable progression, long cycle lengths, or high volume to capacity ratios. Many vehicles stop, and the proportion of vehicles not stopping declines. Individual cycle failures are noticeable.	. > 25 to 40 sec.	>20 to 30 sec.
E	This level is considered by many agencies to be the limit of acceptable delay. These high delay values generally indicate poor progression, long cycle lengths, and high v/c ratios. Individual cycle failures are frequent.	>40 to 60 sec.	>30 to 45 sec.
F	This level, considered to be unacceptable to most drivers, often occurs with oversaturation; that is, when arrival flow rates exceed the capacity of the intersection. It may also occur at high volume to capacity ratios below 1.0, with many individual cycle failures. Poor progression and long cycle lengths may also be major contributing causes to such delay levels.	>60 sec.	>45 sec.

Source: Transportation Research Board 1994.

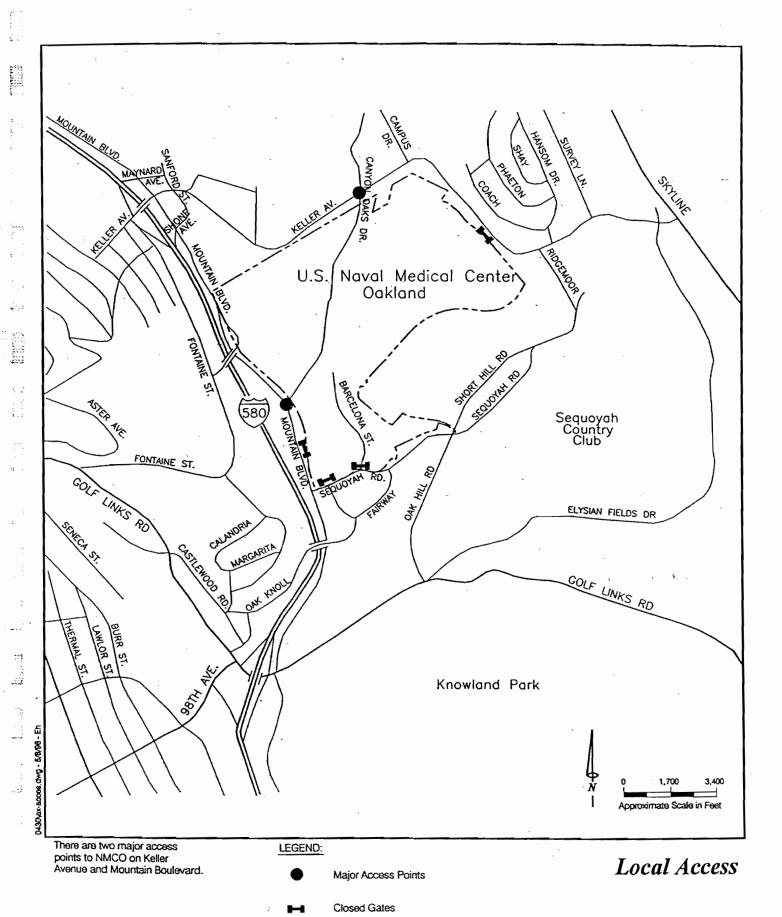
NMCO is located just east of Interstate 580 (I-580), about 1.3 miles south of its junction of State Route 13 (SR-13). Major freeway access to the site is via the Keller Avenue and Golf Links interchanges, off I-580. Both interchanges provide full access to and from the freeway, although the access is indirect in some cases. The northbound I-580 off-ramp at Keller Avenue connects



Access to NMCO is provided by most regional highways via Interstate 580.

Regional Access

Naval Medical Center Oakland



Naval Medical Center Oakland

Source: Theresa Hughes & Associates 1994

Figure 3-19

southbound I-580 on-ramp at Keller Avenue is served via Fontaine Street, directly to Mountain Boulevard directly across from Shone Avenue. The approximately 150 feet south of Keller Avenue. The southbound I-580 on-ramp at Golf Links Road is served via 98th Avenue.

I-580 carries about 143,000 vehicles per day, including approximately 13,600 vehicles during the peak hours, in the NMCO vicinity (California Department of Transportation 1994). The most congestion on I-580 occurs in the section near Grand Avenue, about six miles west of the NMCO area, during the peak periods (Dowling Associates observations, September 1995). State Route 13 carries about 44,000 vehicles per day north of I-580 and generally operates at acceptable levels.

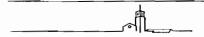
Local Vehicular Access Routes

Local access is provided to NMCO via Keller Avenue, Mountain Boulevard, and Golf Links Road. The NMCO site has two primary access locations. The main access point is located off Mountain Boulevard, and the secondary access point is located off Keller Avenue, opposite Canyon Oaks Drive. The Keller Avenue access is open during the peak periods only. There are four other access points that have been closed off and are not currently used, as indicated on Figure 3-19.

Mountain Boulevard generally runs north to south, parallel to I-580. North of Sequoyah Road, Mountain Boulevard is designated as a local road; south of Sequoyah Road, Mountain Boulevard is a collector road. Mountain Boulevard links Keller Avenue and Golf Links Road, ramp access to and from I-580, and provides access to adjacent properties. Mountain Boulevard generally has one lane in each direction. Two sections of Mountain Boulevard have two lanes in the northbound direction and one lane in the southbound direction—from the Fontaine Overpass to just south of Shone Avenue/I-580 northbound off-ramp and from the Shone Avenue/I-580 northbound off-ramp to the Maynard Avenue/I-580 northbound on-ramp. The posted speed on Mountain Boulevard is 25 miles per hour (mph).

Keller Avenue is an east-west arterial roadway, with two lanes in each direction and a center landscaped median divider. Keller Avenue provides an east-west linkage to the I-580 interchange ramps. Keller avenue has a relatively steep grade east of Mountain Boulevard. The posted speed on Keller Avenue is 35 mph.

Golf Links Road is an east-west arterial roadway, with one lane in each direction. It provides an east-west linkage to the I-580 interchange ramps and to the Bay Area Rapid Transit (BART) Coliseum Station via 98th Avenue or 73rd Avenue/Hegenberger Road.



3.9.2 Preclosure Traffic Conditions

City streets providing direct access to the NMCO property are Mountain Boulevard and Keller Avenue. Secondary access is provided by Golf Links Road and 98th Avenue. In an urban setting, the street network level of service is controlled by that of its major intersections. The following 12 intersections, identified as having the greatest potential for traffic impacts, were selected for study:

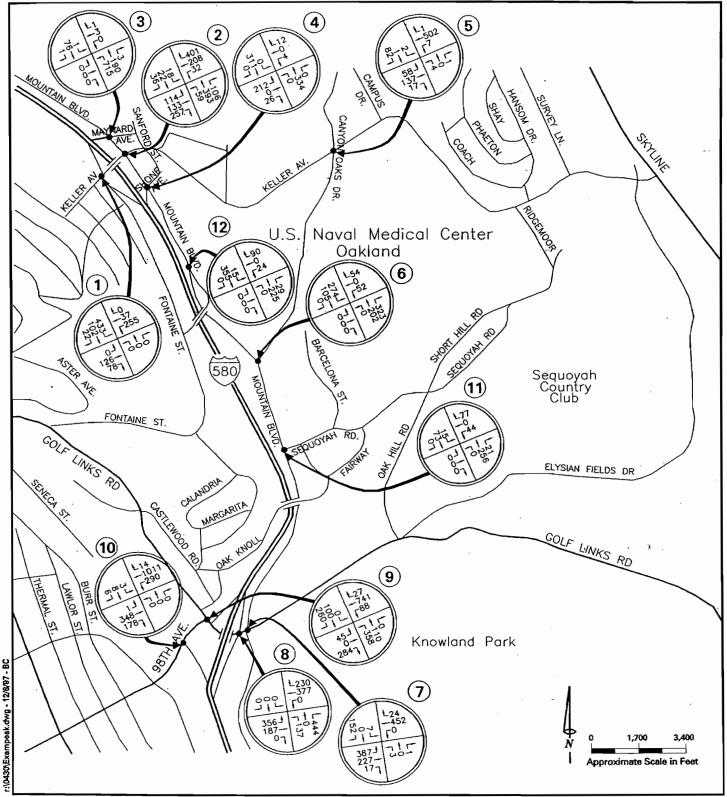
- Keller Avenue/I-580 southbound off-ramp;
- 2. Keller Avenue/Mountain Boulevard;
- 3. Mountain Boulevard/I-580 northbound on-ramp;
- 4. Mountain Boulevard/I-580 northbound off-ramp;
- Keller Avenue/Canyon Oaks Drive (back entrance);
- 6. Mountain Boulevard/main entrance;
- 7. Mountain Boulevard/Golf Links Road;
- 8. Golf Links Road/I-580 northbound ramps;
- Golf Links Road/98th Avenue;
- 10. 98th Avenue/I-580 southbound on-ramp;
- 11. Mountain Boulevard/Sequoyah Road; and
- 12. Mountain Boulevard/Fontaine Overpass.

Preclosure traffic turning movement counts were conducted at the study intersections, as shown in Figure 3-20 and Figure 3-21. All of these intersections are controlled by stop signs, some with one-way or two-way stop control and others with all-way stop control.

The traffic patterns in the area are dominated by commuter traffic, which moves predominately toward I-580 during the AM peak hour and from I-580 to the surrounding residential areas during the PM peak hour.

Level of Service

The level of service (LOS) of an intersection is a measure of its ability to satisfy travel demand and is defined by the average number of seconds of delay per vehicle. LOS ranges from A, representing no undue delays, to F, representing very high levels of congestion and delay. LOS A through LOS C indicates that the intersection is operating efficiently. Delay begins to become more noticeable at LOS D. LOS E represents substantial congestion, and LOS F is characterized by stop-and-go traffic with long-term delays. The City of Oakland has established a level of service goal of LOS D or better.



The inset circle diagrams indicate the number of vehicles making each type of turning movement, as indicated by the direction of the arrows, during the evening commute hour.

Legend:

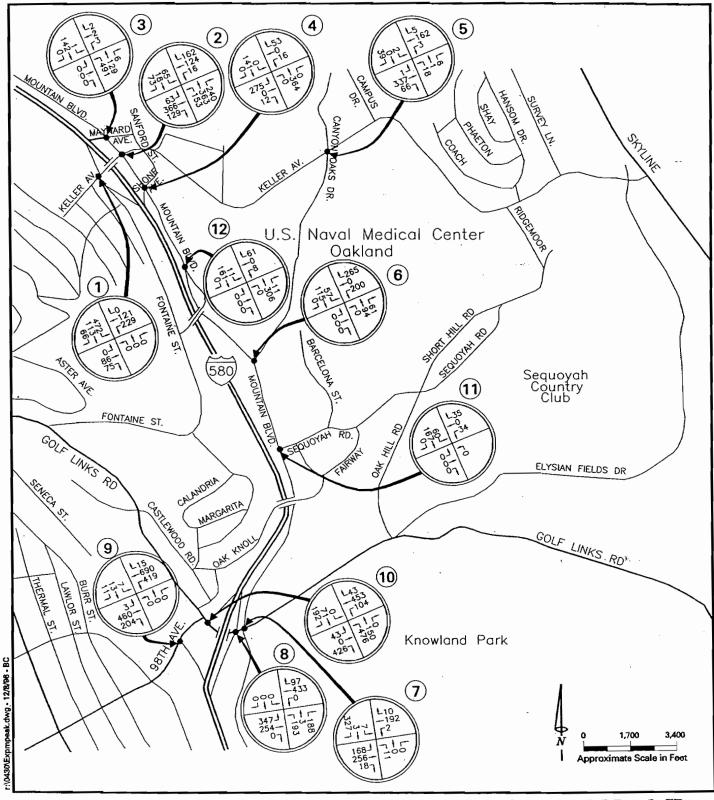
The numbered circles adjacent to each inset circle correspond to the numbered intersections in the "Existing Traffic Conditions" section.

Naval Medical Center Oakland

Traffic Volumes

Preclosure AM Peak Hour

Figure 3-20



The inset circle diagrams indicate the number of vehicles making each type of turning movement, as indicated by the direction of the arrows, during the evening commute hour.

Legend:

The numbered circles adjacent to each inset circle correspond to the numbered intersections in the "Existing Traffic Conditions" section.

Preclosure PM Peak Hour Traffic Volumes

Naval Medical Center Oakland

Figure 3-21

LOS analyses were performed at the study area intersections during the AM and PM peak hours. Both peak hours were considered important because different intersection approaches are in high demand during the two peak periods. Traffic operations at the study area intersections are summarized in Table 3-17.

Preclosure levels of service below the City of Oakland's standard (LOS D) are shown at the following intersections:

- Keller Avenue/I-580 southbound off-ramp—delay per vehicle is high for all approaches to this all-way stop controlled intersection;
- Keller Avenue/Mountain Boulevard—delay is high for the westbound approach during the morning peak period and for the eastbound and northbound approaches during the evening peak period;
- Mountain Boulevard/Golf Links Road—delay per vehicle is high for the northbound approach (serving the Knowland Park Zoo) during the morning peak hour even though only four vehicles were counted on the approach during this time;
- Golf Links Road/I-580 northbound ramps—delay is high for the northbound approach from the I-580 off-ramp, which is controlled by a stop sign;
- Golf Links Road/98th Avenue/I-580 southbound off-ramp—all approaches, except the northbound approach, exhibit high delays; and
- 98th Avenue/I-580 southbound on-ramp—the high delay for the eastbound approach during the morning peak hour is for traffic exiting the service station at this intersection.

Signal Warrant Analysis

A study of traffic signal warrants was conducted to determine if a need for traffic signals currently exists at any of the study area intersections. The signal warrant analysis was performed for the intersections that had unacceptable levels of service during the AM or PM peak hours. The analysis was based on the Caltrans peak hour traffic volume warrant—Warrant No. 11 (California Department of Transportation 1993).

The following intersections were found to meet the peak hour warrant (a signal is warranted) during both peak hours:

- Keller Avenue/I-580 southbound off-ramp;
- Keller Avenue/Mountain Boulevard;
- Golf Links Road/I-580 northbound ramps; and
- Golf Links Road/98th Avenue/I-580 southbound off-ramp.

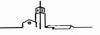


Table 3-17 Preclosure Intersection Operations

Intersection	Traffic	AM Pe	ik Hour	PM Peak Hour		
	Control		Delay ¹			
	Control	LUS	Delay	E@S	Delay	
Keller/I-580 southbound off-ramp		_				
southbound	Stop sign	F	67	F	76	
eastbound	Stop sign	F	High	F	High	
westbound	Stop sign	E	- 36	D	20	
2. Keller/Mountain Blvd.		_	·			
northbound	Stop sign	C	16	E	38	
southbound	Stop sign	A	2	A	3	
eastbound	Stop sign	C	19	F	54	
westbound	Stop sign	<u>E</u>	.32	В	5	
3. Mountain Blvd./I-580 northbound on-ramp						
northbound left	None	A	4	A	3	
southbound left	None	Α,	2	· A	2	
westbound	Stop sign	D	23	С	13	
4. Mountain Blvd./I-580 northbound off-ramp						
eastbound	Stop sign	С	18	D .	20	
westbound	Stop sign	В	5	В	5	
5. Keller/Canyon Oaks (Back Entr.)			· .			
northbound	Stop sign	С	10	В	6	
southbound	Stop sign	A	4	A	3	
eastbound left	None	A	4 .	'A	2	
westbound left	None	A	2	Α .	3	
6. Mountain Blvd./main entrance		j	ļ			
southbound left	None	В	5	A	2	
westbound	Stop sign	С	12	В	9	
7. Mountain Blvd./Golf Links		ĺ _				
northbound	Stop sign	E	35	С	19	
southbound	Stop sign	В	7	В	5	
eastbound	None	B	6	A	3	
westbound	Stop sign	<u>B</u>	9	В	7	
8. Golf Links/I-580 northbound ramps				, ,	No. 10	
northbound	Stop sign	F	High	' F	High	
eastbound left	None	<u>B</u>	7	B	6	
9. Golf Links/98th Ave.						
northbound	Stop sign	A	1	Α.	1	
southbound	Stop sign	. F	60	D	26	
eastbound	Stop sign	F	High	. F	High	
westbound	Stop sign	D	29	F	55	
10. 98th Ave./I-580 southbound on-ramp			. ,			
northbound left	None	В	6	A	4	
southbound left	None	В	5	C	10	
eastbound (driveway)	Stop	F	- 9	В	. 6	
11. Mountain Blvd./Sequoyah Rd.	.,					
southbound left	None	A	2	A	2	
westbound	Stop sign	В	5	A	4	
12. Mountain Blvd./Fontaine Overpass						
southbound left	None	A	2	A	3	
westbound	Stop sign	В	8	В	6	

Delay in seconds.

Note: "High" delay indicates extreme values, which are outside the range of the analysis method (generally greater than 100 seconds).

Source: Dowling Associates 1995.



Installation of traffic signals would be an appropriate solution to improve the low levels of service that currently exist at these intersections.

3.9.3 Naval Medical Center Circulation System

The NMCO has an extensive roadway system, as shown in Figure 3-22. The internal roadways are discussed below.

Blackwood Street. This road functions as a spine of the site, linking the main gate with the NMCO hospital, as well as other major roads within the site. Blackwood Street terminates with a small loop in front of the hospital. It is generally a two-lane road, and parking is prohibited on both sides of the roadway. There are several pedestrian crosswalks painted at major pedestrian crossings.

Trojakowski Street. This road provides access to the residential area on the east side of the site, to the fleet and maintenance area, to Club Knoll, and to the recreational areas (tennis courts and swimming pool) located in the southern portion of the site. Trojakowski Street functions as a two-lane collector road.

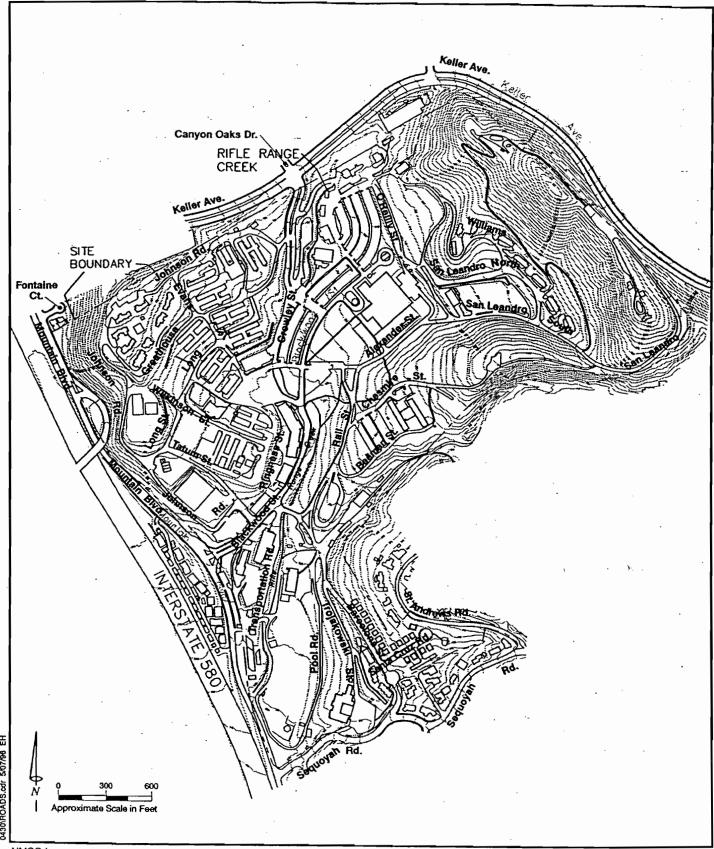
Alexander Street. This road provides access to the south side of the site. It is a short street that splits to San Leandro Street, which provides access to the uplands and the captain's residence. The other segment is Rail Street, which provides access to the hospital and connections to Trojakowski Street.

Evans Street. This road provides access to the north side of the site. Evans Street connects with Alexander Street at Blackwood Street. It is a narrow two-lane road with steep grades at several locations. There are numerous minor street connections and parking lot accesses off Evans Street.

Crowley Street. This road provides access to the Keller Avenue gate from Blackwood Street. In the vicinity of the Keller Avenue gate, Crowley Street has four travel lanes, two in each direction. Similar to Blackwood Street, there are three pedestrian crosswalks painted at major pedestrian crossings, with no traffic control devices to alert motorists to the crosswalks.

Internal circulation is inhibited by nonstandard roadway geometry and a lack of adequately defined sense of direction and hierarchy. It has been recommended that the circulation system be upgraded, concentrating on the principal arterial thoroughfare and collector network (U.S. Navy 1984).





NMCO has an extensive road system providing access to most areas of the property.

Legend

---- NMCO Boundary

Existing Roads

Naval Medical Center Oakland

Figure 3-22

3.9.4 Naval Medical Center Trip Generation

Under preclosure conditions, NMCO generated about 8,660 vehicle trips daily, of which more than 95 percent (e.g. 8,248) are through the Mountain Boulevard gate. Table 3-18 shows the total daily traffic volumes at the two gates.

Table 3-18
Preclosure Naval Medical Center Daily Traffic Counts

Gate Location	Inbound Traffic	Outbound Traffic	Total Traffic
Mountain Boulevard	4,259	3,989	8,248
Keller Avenue	211	201	412
Total ·	4,470	4,190	8,660

Source: Theresa Hughes & Associates 1994.

Note:

Daily traffic volumes of preclosure activities in the air quality and traffic impacts sections (sections 4.9 and 4.10) of this EIS/EIR are lower because a different methodology (Radian 1997) was used based on annual values rather than traffic counts. The Radian (1997) numbers provide a more conservative comparison of preclosure air emissions to subsequent reuse and are consistent with BAAQMD methodology.

Peak hour traffic at the gates is shown in Figure 3-20 and Figure 3-21.

3.9.5 Existing Parking Facilities

An inventory of on-site parking lot locations and spaces is provided in Table 3-19. All parking lots are paved and are in relatively good condition.

3.9.6 Transit System

Alameda County Transit (AC Transit) provides bus transportation throughout the East Bay metropolitan area with service to NMCO via Lines 56, 46, and "NV."

Line 56 gives direct service to the NMCO hospital main entrance at least every 25 minutes during the day and at slightly longer intervals during the evening.

Line 46 does not circulate on-site but has stops outside the main gate. Both Line 46 and Line 56 connect with the BART station near the Oakland-Alameda County Coliseum. Oakland International Airport, approximately seven miles west of the hospital, also can be reached via transit connections at the Coliseum BART Station.

Table 3-19
Inventory of Existing On-site Parking, NMCO

Description	Total
Between San Leandro North and San Leandro South, east of the	207
hospital	
Adjacent to hospital, north of Alexander Street	59
Adjacent to hospital, west of O'Reilly Street	32
Between Blackwood and Crowley Streets, north of the hospital	607
West of Crowley Street, at shopping area	73
West of Blackwood Street, at Buildings #38 and #103	31
Between Johnson Road and Tatum Street, near the receiving area for Building #505.	62
West of Transportation Road, near Buildings #131 and #133	30
Adjacent to tennis court	20
Adjacent to Building #138	10
Adjacent to Building #133	17
East of Blackwood Road and South of Alexander Street	72
Between Chesmire Street and Beeman Street, near Building #501	135
At Club Knoll	<u>76</u>
TOTAL	1,431

Source: U.S. Navy 1984.

Line NV provides service once a day. One NV bus departs from Golf Links Road at Shetland at 7:04 AM for a 30 to 45 minute trip to the Transbay Terminal in downtown San Francisco; it departs from the Transbay Terminal in San Francisco at 5:15 PM and arrives at Keller Avenue and Mountain Boulevard at about 5:42 PM.

There are a number of transit shelters at NMCO, several of which need repair work. The shelter located on Blackwood Street at Evans Street is generally in good condition.

Using data provided by AC Transit staff and procedures for analysis suggested by AC Transit staff, an analysis of AM and PM peak period ridership was performed on three transit routes directly serving NMCO (Route 46 and 46A, Route 56 and 56A, and Route NV). As shown in Table 3-20, existing transit ridership was developed from ridership surveys conducted by AC Transit

Table 3-20 Existing Transit Ridership During Peak Periods

	S. K. K.	AM	Peak Pe	riod		Si Is	PM	Peak Pe	riod	
	46	46A	56	56A	NV	46	-46A	-56	56A	NV
Survey Begin Time	5:35	5:50	4:55	6:35	na	3:05	3:03	3:04	3:45	na
Survey End Time	9:10	9:29	9:25	9:07	na	7:42	7:12	7:29	6:08	na
Duration of Survey	3:35	3:39	4:30	2:32	na	4:37	4:09	4:25	2:23	na
Ridership	157	86	338	17	16	239	106	429	19	13
Number of Buses	18	8	36	5	1	22	9	32	2	1
Riders per Bus	8.72	10.75	9.39	3.40	16.00	10.86	11.78	13.41	9:50	13.00
Bus Capacity	35	35	35	35	42	35	35	35	35	42
Average Load/Capacity	0.25	0.31	0.27	0.10	0.38	0.31	0.34	0.38	0.27	0.31

Notes:

- 1. Survey and bus capacity data were provided by Tina Konvalinka and Paul Bignardi, AC Transit, on 12/20/96.
- 2. Number of buses on each route were taken from December 1, 1996, AC Transit Schedules.

Hourly ridership and route capacities were calculated from the peak period data as shown in Table 3-21. Route 56A was excluded from the calculations because the route does not directly pass the NMCO site. Exclusion of Route 56A yields conservative results because the load factor is lower on that route than on the routes that directly serve the site.

Table 3-21
Total Existing Transit Ridership and Route Capacity

		A	M Pea	Perio	d :			P	M Pea	k Perio	d ·	
7.00	46	46A	56	56A	NΫ	Total	46	46A	56	56A 1	NV	Total
Total Ridership	157	86	338		16	597	239	106	429		13	787
Total Capacity	630	280	1,260		42	2,212	770	315	1,120		42	2,247
Average Hourly Ridership	44	24	75		16	159	52	26	97		13	188
Average Hourly Capacity	176	<i>7</i> 7	280		42	.575	167	76	254		42	539

Note: Route 56A was not included in the calculations because it does not serve NMCO directly.

3.9.7 Bicycle and Pedestrian System

There are extensive internal pedestrian pathways on the project site; however, sidewalks along roadways are almost nonexistent except at selected segments on Blackwood Street. Pedestrians must walk in the street with general vehicular traffic, creating potential pedestrian and vehicular conflicts. There are several pedestrian crosswalks painted at major pedestrian crossings on Blackwood Street and Crowley Street. There are no traffic control devices to alert motorists to those crosswalks. There are no bicycle lanes on roadways within NMCO.

3.9.8 Aviation System

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A helipad was located on NMCO at the northwest corner of the site near Johnson Road. This helipad is used for transportation of patients in need of emergency care and for the official business of the U.S. Navy.

The helicopter flight path immediately adjacent to the southern boundary of the pad encumbers a fan-shaped "clear zone," extending 400 feet from the pad boundary. The clear zone requires that no development occur within the confines of this area and permits no vehicular or pedestrian travel through this area during actual helicopter arrival and departure.

Commercial air travel is available off-site at the Metropolitan Oakland International Airport, San Francisco International Airport, and San Jose International Airport, listed in order of proximity to the site.

3.9.9 Transportation Plans and Regulations

U.S. Department of Transportation

The Federal Highway Administration is the agency of the Department of Transportation responsible for the federally-funded roadway system, including the interstate highway network and portions of the primary state highway network. Federal Highway Administration funding is provided through the Intermodal Surface Transportation Efficiency Act of 1991. This act's legislation can be used to fund local transportation improvement projects, such as projects to improve the efficiency of existing roadways, traffic signal coordination, bikeways, and transit system upgrades.

California Department of Transportation

Caltrans is responsible for the planning, design, construction, and maintenance of all state highways. Caltrans jurisdictional interest would extend to improvements to roadways at the I-580 interchange ramps. Any federally funded transportation improvements would be subject to review by Caltrans staff and the California Transportation Commission.

Metropolitan Transportation Commission

The Metropolitan Transportation Commission is the regional organization responsible for prioritizing transportation projects in a Regional Transportation Improvement Program for federal and state funding. The process is based on evaluating each project for need, feasibility, and adherence to the Intermodal Surface Transportation Efficiency Act policies and congestion management program. The congestion management

program requires that each jurisdiction identify existing and future transportation facilities that will operate below an acceptable service level and provide mitigation where future growth degrades that service level.

Alameda County Congestion Management Agency (CMA)

The Alameda County Congestion Management Agency (CMA) is responsible for ensuring local government conformance with the congestion management plan, a seven-year program aimed at reducing traffic congestion. The CMA has review responsibility for proposed development projects that are expected to generate 100 more PM peak hour trips than otherwise would occur. The CMA reviews the adequacy of CEQA analyses and measures proposed to mitigate impacts. The CMA maintains a county-wide transportation model and has approval authority for the use of any local or subarea transportation models. The Oakland City Council adopted Resolution #69475 on November 10, 1992 establishing guidelines for reviewing the impacts of local land use decisions consistent with the Alameda County CMP. An analysis based on the CMA transportation model of year 2000 and year 2010 peak hour conditions was conducted for all of the reuse alternatives, and is summarized in Appendix G.

The analysis of traffic impacts was based on the year 2000 and year 2010 Alameda County CMA transportation model. The model incorporates a representation of land use and demographic characteristics of the nine-county Bay Area, which allows it to produce travel demand forecasts that incorporate influences of regional travel demand on transportation facilities in Alameda County. The CMA model has been structured to provide forecasting detail that addresses the evaluation needs of both countywide and corridor-specific transportation strategies.

The CMA model was used as the basis for the study of traffic and circulation impacts because the assumptions in the model have been refined and agreed to on a regional basis. The land use assumptions contained in the year 2000 and year 2010 CMA model were developed by the Association of Bay Area Governments (ABAG) with input from local member jurisdictions on planned development.

City of Oakland

The City of Oakland has begun construction for the 98th Avenue Unit III project. This off-site project consists of widening and restriping 98th Avenue and Golf Links Road from two to four lanes. The project limits begin at the intersection of 98th Avenue/MacArthur Boulevard and ends at Golf Links road/I-580 northbound ramps. Also, this project includes the installation of new traffic signals at the following intersections:



- 98th Avenue/Golf Links road/I-580 southbound off-ramp;
- Golf Links road/I-580 northbound ramps;
- 98th Avenue/Lawlor Street; and
- 98th Avenue/Stearns Avenue.

The City of Oakland has placed a heavy truck (over 4.5 tons) restriction on I-580 between Grand Avenue and 106th Avenue. Truck traffic to and from the site must use local arterial streets, such as Keller Avenue, Mountain Boulevard, Golf Links Road, and 98th Avenue.

3.10 AIR QUALITY

This section identifies existing (preclosure) air quality conditions in the vicinity of the Naval Medical Center Oakland (NMCO) site and in the region. The region of influence (ROI) for air quality issues varies according to the type of air pollution being discussed. Pollutants that are directly emitted (such as carbon monoxide and some particulate matter) have a localized ROI generally restricted to areas in the immediate vicinity of the emission source. Pollutants produced by chemical reactions in the atmosphere (such as ozone and secondary particulate matter) have an ROI that includes the entire San Francisco Bay Area.

3.10.1 Climate and Meteorology

The San Francisco Bay Area experiences a mediterranean-type climate characterized by mild temperature conditions. Weather data monitored at Oakland International Airport and the National Weather Service in Oakland are representative of conditions at NMCO. Daily temperature variations are typically 40 to 60°F during the winter and 55 to 75°F during the summer. Annual precipitation averages about 18 inches per year, with most precipitation occurring from October through April. Poor visibility is most likely to occur during late fall and winter.

Prevailing winds are from the west or northwest in all months, but the strongest winds are sometimes from the south. Average wind speeds are 7 to 10 mph during the winter and 12 to 14 mph during the summer. Strong winds (wind speeds above 20 mph) are recorded 4 to 10 percent of the time during winter months and 18 to 27 percent of the time during summer months.

3.10.2 Ambient Air Quality Standards

Both the State of California and the federal government have established ambient air quality standards for several different pollutants (Table 3-22). Pollutants covered by federal or state ambient air quality standards are often referred to as criteria pollutants. As indicated in Table 3-22, ambient standards for some criteria pollutants have been set for both short and long time periods. Most ambient air quality standards have been set to protect public health. State ambient air quality standards for some pollutants are based on other considerations (such as protection of crops, protection of materials, or avoidance of nuisance conditions). Current air quality standards for particulate matter are based on the inhalable component of suspended particulate matter (PM₁₀).

Table 3-22
Ambient Air Quality Standards Applicable in California

				ard, 2s million lume	Standard, as per cubi		Violat	ion Criteria
Pollutant	Symbol	Averaging Time	California	National	California	National	California	National
Ozone	O ₃	1 Hour	0.09	0.12	180	235	If exceeded	If exceeded on more than 3 days in 3 years
Carbon Monoxide	СО	8 Hours	9.0	. 9	10,000	10,000	If exceeded	If exceeded more
								than 1 day per year
Inhalable Particulate	PM _{to}	Annual Geometric Mean	-	. –	30	. ~	If exceeded	If exceeded
Matter		Annual Arithmetic Mean			-	50		
		_ 24 Hours	·	-	50	. 150	If exceeded	If exceeded more
· .								than 1 day per year
Nitrogen Dioxide	NO ₂	Annual Average	_	0.053	· -	100		If exceeded
		1 Hour	0.25		470		If exceeded	
Sulfur Dioxide	SO₂	Annual Average	-	0.03	-	80		If exceeded
		24 Hours	0.04	0.14	105	. 365	If exceeded	If exceeded more
	ĺ	ĺ						than 1 day per year
·		1 Hour	0.25		655	-	If exceeded	
Lead Particles	РЬ	Calendar Quarter	_	-	-	1.5		If exceeded more
								than 1 day per year
		30 Days	-		1.5	-	If equalled or	
· .			<u>.</u>				exceeded	
Sulfate Particles	SO₄	24 Hours			25		If equalled or	No federal standards
· · ·		· · · · · · · · · · · · · · · · · · ·					exceeded	3
Hydrogen Sulfide	H₂S	1 Hour	0.03	-	42	_	If equalled or	No federal standards
							exceeded	
Vinyl Chloride	C₂H₃Cl	24 Hours	. 0.010	_	26	-	If equalled or	No federal standards
·							exceeded	

Notes: All standards are based on measurements at 25 degrees C and 1 atmosphere pressure.

Decimal places shown for standards reflect the rounding precision used for evaluating compliance.

National standards shown are the primary (health effects) standards.

Source: California Air Resources Board 1993a.

Areas that meet ambient air quality standards are classified as attainment areas, while areas that violate ambient air quality standards are designated as nonattainment areas. The San Francisco Bay Area's designation for the federal ozone standard was changed in 1995 from nonattainment to attainment, but EPA is currently reconsidering this designation (EPA 1997). Urbanized portions of the Bay Area are technically designated as nonattainment areas for the federal carbon monoxide standard, but a request

for redesignation as an attainment area is being reviewed by EPA. The Bay Area is currently unclassified for the federal PM₁₀ standard. The Bay Area is designated as a nonattainment area for the state ozone and PM₁₀ standards, and as an attainment area for the state carbon monoxide standard.

3.10.3 Existing Air Quality Conditions

Ozone, carbon monoxide, and particulate matter are the major pollutants of concern in the San Francisco Bay Area, and are monitored at a number of locations. The monitoring stations closest to NMCO are located on Alice Street near Jack London Square, and at the county hospital in San Leandro. The Alice Street monitoring station measures ozone and carbon monoxide levels. The San Leandro monitoring station measures ozone and inhalable particulate matter (PM₁₀). Table 3-23 summarizes recent monitoring data for ozone, carbon monoxide, and PM₁₀.

Table 3-23
Summary of Recent Air Quality Monitoring Data for the Oakland Area

- Monitoring Station	Air Quality Indicator	1990	1991	1992	1993	1994	1995 🚁
		070)NE				
Oakland -	Peak 1-hour value (ppm)	0.06	0.06	0.08	0.11	0.06	0.11
Alice Street	Days above federal standard	0	0.	0	0	0	. 0
	Days above state standard	0	0	_ 0_	1	. 0	·1
San Leandro -	Peak 1-hour value (ppm)	0.07	0.12	0.11	0.12	0.09	0.15
County Hospital	Days above federal standard	0	0	0	0	0	3
	Days above state standard	0	2	2 ·	. 3	0	6
	CA	RBON N	IXONOI	DE .			
Oakland -	Peak 1-hour value (ppm)	8.0	9.0	7.0	7.0	7.0	5.0
Alice Street	Peak 8-hour value (ppm)	6.1	6.8	4.6	4.9	5.5	-3.9
	Days above federal standard	0	0	0	0	0	0
·	Days above state standard	0	0	0	0	0	0
	INHALABLE	ARTIC	ULATEN	IATIER,	РМ ₁₀		
San Leandro -	Peak 24-hour value (?g/m³)	123	99	56	51	62	47
County Hospital	Annual geometric mean (?g/m³)	29.3	27.6	22.7	18.1	18.7	16.9
	Annual arithmetic mean (?g/m³)	34.5	32.4	24.9	20.8	21.1	19.5
	Number of 24-hour samples	26	60	61	⁻ 61	61	61
	% of samples above federal standard	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	% of samples above state standard	15.4%	16.7%	3.3%	1.6%	1.6%	0.0%

Notes: ppm - parts per million by volume.

μg/m³ - micrograms per cubic meter.

Federal 1-hour ozone standard is 0.12 ppm; state 1-hour ozone standard is 0.09 ppm.

Federal 1-hour carbon monoxide standard is 35 ppm; state 1-hour carbon monoxide standard is 20 ppm.

Federal 8-hour carbon monoxide standard is 9 ppm; state 8-hour carbon monoxide standard is 9.0 ppm.

Federal PM₁₀ standards: 50 (µg/m³), annual arithmetic mean; 150 (µg/m³), 24-hour average.

State PM₁₀ standards: 30 (µg/m²), annual geometric mean; 50 (µg/m²), 24-hour average.

Source: California Air Resources Board 1996.



As indicated by Table 3-23, federal and state standards for carbon monoxide have not been violated in recent years. Violations of the federal ozone standard were infrequent in the Bay Area during the early 1990s, although the more stringent state standards were occasionally exceeded. Maximum ozone concentrations and the number of violations of federal and state ozone standards increased throughout the Bay Area in 1995. The federal air quality standards for PM₁₀ standard have not been exceeded in recent years. However, the more stringent state PM₁₀ standards have been exceeded at the San Leandro monitoring station a few times each year.

3.10.4 Air Quality Planning

Federal Requirements

The federal Clean Air Act (42 USC 1857, as amended) requires each state to develop, adopt, and implement a state implementation plan (SIP) to achieve, maintain, and enforce federal air quality standards throughout the state. These plans must be submitted to and approved by U.S. Environmental Protection Agency. In California, the state implementation plan consists of separate elements for different regions of the state. State implementation plan elements are generally developed on a pollutant-by-pollutant basis whenever one or more air quality standards are being violated.

Local councils of governments and air pollution control districts have had the primary responsibility for developing and adopting the regional elements of the California SIP. In the San Francisco Bay Area, SIP document preparation has been a coordinated effort involving three regional agencies; the Bay Area Air Quality Management District, Association of Bay, Area Governments, and the Metropolitan Transportation Commission.

The federal Clean Air Act also imposes deadlines for achieving the federal ambient air quality standards. These deadlines vary according to the severity of existing air quality problems. The San Francisco Bay Area was recently reclassified from a moderate nonattainment area to a maintenance area for the federal ozone standard. The urbanized portions of the San Francisco Bay Area are categorized as moderate nonattainment areas for the federal carbon monoxide standards. The Bay Area currently is not classified for the federal PM₁₀ standard.

The Bay Area Air Quality Management District believes that the San Francisco Bay Area has achieved the federal CO and PM₁₀ standards and has requested redesignation to an attainment status. Final action on the CO redesignation request is expected within the next year. A formal designation of the San Francisco Bay Area as being in attainment of the federal PM₁₀ standard also is expected to occur within the next year.



State Requirements

The California Clean Air Act of 1988 requires air pollution control districts and air quality management districts to develop air quality management plans for meeting state ambient air quality standards for ozone, carbon monoxide, sulfur dioxide (SO₂) and nitrogen dioxide (NO₂). The state Air Resources Board is responsible for developing a plan for meeting state PM₁₀ standards.

The California Clean Air Act does not set specific deadlines for achieving state air quality standards. Instead, attainment is required "as expeditiously as practicable," with various mandated emission control program requirements based on the nonattainment classification for ozone and CO. The entire San Francisco Bay Area is classified as a moderate nonattainment area for the state ozone standard and as a nonattainment area for the state PM₁₀ standard. The entire San Francisco Bay Area is classified as an attainment area for state CO standards.

3.10.5 Regulatory Considerations

Air pollution control programs were established in California prior to the enactment of federal requirements. Responsibility for air quality management programs in California is divided between the Air Resources. Board as the primary state air quality management agency and air pollution control districts as the primary local air quality management agencies. Federal Clean Air Act legislation in the 1970s resulted in a gradual merger of local and federal air quality programs, particularly industrial-source air quality permit programs.

The roles and responsibilities of both Air Resources Board and local air pollution control districts have been expanded by the California Clean Air Act of 1988. Local air pollution control districts also have been given added responsibility and authority to adopt transportation control measure programs and emission reduction programs for indirect and areawide emission sources.

Air Quality Permits

Many types of industrial and commercial facilities require air quality permits for their equipment and operations. The Bay Area Air Quality Management District has the primary air quality permit authority throughout the San Francisco Bay Area. Permit authority is derived from a combination of state and federal legislation and can be categorized into construction or installation authorizations for individual pieces of equipment and permits for continued operation of equipment and facilities.



In general, federally-required air quality permit programs have been integrated into the preexisting state and local permit program. This results in a two-step permit process—an initial authority to construct permit and a subsequent permit to operate.

Federal Clean Air Act Conformity Process

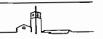
Section 176(c) of the Clean Air Act requires federal agencies to ensure that their actions are consistent with the Clean Air Act and with federally-enforceable air quality management plans. The U.S. Environmental Protection Agency has promulgated separate rules that establish conformity analysis procedures for transportation-related actions and for other federal agency actions.

A formal conformity determination is required for federal actions occurring in nonattainment or maintenance areas when the total direct and indirect emissions of nonattainment pollutants exceed specified thresholds. The federal nonattainment and maintenance pollutants subject to conformity analyses in the San Francisco Bay Area include ozone precursors (reactive organic compounds and nitrogen oxides) and carbon monoxide. Applicable threshold levels for federal actions in the San Francisco Bay Area are 100 tons per year of reactive organic compounds, 100 tons per year of nitrogen oxides, and 100 tons per year of carbon monoxide.

Several categories of federal agency actions are identified in the general conformity rule as actions that would be expected to result in emissions below the threshold level, including transfers of ownership, interests, and titles in land, facilities, real property, or personal property to other public agencies or to private parties. Lease arrangements, however, may be subject to the requirements of the conformity rule (depending on the extent to which lease terms allow the Navy to control the activities of the lessee).

NMCO is one of five Bay Area Navy facilities that are closing. The Navy is preparing reports to document the stationary and mobile source emission reductions that are occurring as a result of facility closures. The final report for NMCO (Radian 1997) estimates that NMCO generated 1,153,000 vehicle trips and 17,977,000 vehicle miles of travel during the 1992 preclosure baseline year. If NMCO had continued operating at the 1992 level of activity, facility-related vehicle emissions in the year 2001 would have been approximately 14 tons per year of reactive organic compounds, 14 tons per year of nitrogen oxides, 111 tons per year of carbon monoxide, 4.5 tons per year of PM₁₀¹ and 0.2 ton per year of sulfur oxides.

| 100mm | 10



¹ This calculation of PM₁₀ does not include resuspended roadway dust.

These mobile source emissions will be held by the Navy in reserve and made available for use for future conformity determinations according Navy policy. Future uses may include transfer to satisfy conformity offset requirements at another DOD facility within the BAAQMD, such as Travis Air Force Base, use by another federal agency for conformity purposes, or reuse of NMCO where a federal approval is necessary subject to a conformity determination.

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Sound travels through the air as waves of air pressure fluctuations caused by vibration. In general, sound waves travel away from the noise source as an expanding spherical surface. The energy contained in a sound wave consequently is spread over an increasing area as it travels away from the source. This results in a decrease in loudness at greater distances from the noise source.

Sound level meters measure the actual air pressure fluctuations caused by sound waves, with separate measurements made for different sound frequency ranges. These measurements are reported using a logarithmic decibel (dB) scale. Decibel scales indicate the relative intensity of sound levels; a 10 dB increase is generally perceived as a doubling of loudness.

Most sounds consist of a broad range of sound frequencies. Because the human ear is not equally sensitive to all frequencies, different frequency weighting schemes have been used to develop composite decibel scales that approximate the way the human ear responds to noise levels. The "A-weighted" decibel scale (dBA) is the most widely used for this purpose. The A-weighted scale reduces the measured pressure level for low frequency sounds while increasing the measured pressure level for some high frequency sounds to appropriately account for human responses to noise.

Varying noise levels are often described in terms of the equivalent constant decibel level. Equivalent noise levels (Leq) are used to develop single-value descriptions of average noise exposure over various periods. Such average noise exposure ratings often include additional weighting factors for potential annoyance due to time of day or other considerations. The Leq data used for these average noise exposure descriptors are generally based on A-weighted sound level measurements.

Average noise exposure over a 24-hour period are often presented as a community noise equivalent level (CNEL). CNEL values are calculated from hourly equivalent noise level values, with a 5-dB annoyance penalty added to the evening (7 PM to 10 PM) equivalent noise level values and a 10-dB penalty added to the nighttime (10 PM to 7 AM) equivalent noise level values.

The region of influence (ROI) for noise impacts is usually determined on a site-specific basis. For the NMCO site, the ROI includes the site, and nearby areas that are affected primarily by roadway noise. Adjacent roadways and intersections are included in the ROI to the extent that they have the potential to cause conflicts with land use. It can generally be considered, for the NMCO site, to include about a one-half mile radius around the site, but may vary

slightly based on how sound travels locally. Background traffic noise levels are the prime component of the noise ROI as background noise. Other noise sources that could be considered background noise are much quieter than traffic and intersections.

3.11.1 Existing Noise Conditions

The noise element of the Oakland Comprehensive Plan identifies highway traffic and airport flight operations as the noise sources of greatest concern in the City of Oakland. Railroad operations and industrial facilities are also important noise sources in some portions of the city. The MacArthur Freeway (I-580) is the dominant noise source in the vicinity of the Naval Medical Center Oakland (NMCO) site. Noise levels along the western side of the NMCO site are exposed to CNEL levels of 65-70 decibels. Over most of the NMCO site, CNEL levels are below 65 decibels.

3.11.2 Noise Level Guidelines

Various federal, state, and local agencies have developed guidelines for evaluating land use compatibility under different noise level ranges.

Federal Agency Guidelines

The federal Noise Control Act of 1972 (PL 92-574; 86 Stat. 1234) established a requirement that all federal agencies must comply with applicable federal, state, interstate, and local noise control regulations. Federal agencies also were directed to administer their programs in a manner that promotes an environment free from noise that jeopardizes public health or welfare.

The Department of Defense evaluates the acceptability of noise levels at military installations according to three noise level zones:

- CNEL levels below 65 dB (Zone 1);
- CNEL levels of 65-75 dB (Zone 2); and
- CNEL levels above 75 dB (Zone 3).

All land uses are considered compatible with Zone 1 noise levels. Educational and residential land uses generally are not compatible with Zone 2 noise levels unless special acoustic treatments and designs are used to ensure acceptable interior noise levels. Residential and educational land uses are not compatible with Zone 3 noise levels. Industrial and manufacturing land uses may be acceptable in Zone 3 areas if special building designs and other measures are implemented. Existing noise levels at NMCO represent Zone 1 conditions.

State Agency Guidelines

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The California Department of Housing and Community Development has adopted noise insulation performance standards for new hotels, motels, and dwellings other than detached single-family structures. These standards require that hotels, motels, and multiple-unit dwellings be constructed so that outdoor noise sources will not cause interior noise levels to exceed an annual average CNEL value of 45 decibels with the windows closed.

The California Department of Health Services (1987) has published guidelines for the noise element of local general plans. These guidelines include a noise level/land use compatibility chart that categorizes various outdoor CNEL ranges into as many as four compatibility categories (normally acceptable, conditionally acceptable, normally unacceptable, and clearly unacceptable), depending on land use.

The state noise element guidelines chart identifies normally acceptable noise levels for low density residential uses as CNEL values below 60 decibels. The normally acceptable range for high density residential uses is identified as CNEL values below 65 decibels. For educational and medical facilities, CNEL values of 60 to 70 decibels are identified as conditionally acceptable. For office and commercial land uses, CNEL values of 67.5 to 77.5 decibels are categorized as conditionally acceptable.

Noise Element of the Oakland General Plan

The noise element of the Oakland Comprehensive Plan contains a general policy to prevent or reduce exposure to excessive or annoying noise. Policy recommendations in the noise element urge a serious consideration of noise impacts in the planning and design of new or expanded roadways, with incorporation of noise mitigation such as depressed roadways and noise barriers, where feasible.

Other transportation policy recommendations include roadway designs that discourage through traffic on local streets and neighborhood designs that encourage pedestrian and bicycle use.

Land use policy recommendations include using buffer areas (including offstreet parking, greenbelts, or general commercial areas) to protect residential areas from activities that produce excessive noise, odors, or traffic.

3.12 UTILITIES

This section presents an overview of the utilities at the Naval Medical Center Oakland (NMCO) property, including the water distribution, wastewater, storm drainage, electrical, natural gas, telephone, and solid waste management systems. Information was obtained from the August 1996 NMCO Reuse Plan, from the 1994 Existing Conditions Report by Theresa Hughes & Associates, and through personal communication with employees of NMCO, Engineering Field Activity (EFA) West, City of Oakland, Navy Public Works Center San Francisco Bay (Public Works Center), and utility providers. The region of influence (ROI) used in this analysis is the geographic extent to which the utility system or provider requires adequate facilities and equipment to serve the 183-acre NMCO property.

Potable water is provided to NMCO by the East Bay Municipal Utility District (EBMUD), with appropriate easements. The City of Oakland provides sanitary sewer treatment services. Electrical power and natural gas are provided by Pacific Gas and Electric Company (PG&E). Telephone systems and service are provided by Pacific Bell. Solid waste disposal was provided by a private contractor to the Public Works Center. The Public Works Center owned and operated most of the utility systems within the NMCO property, including electrical, natural gas, water distribution, and wastewater collection systems. Exceptions are portions of the natural gas system, owned by PG&E, and two sanitary sewer mains, owned by the City of Oakland. Volume II, Appendix D provides detailed engineering drawings of utility systems at NMCO, including the potable and fire protection water, storm sewer, sanitary sewer, street lighting, natural gas, steam and condensate, and electrical power systems.

3.12.1 Water Distribution System

An underground pipe system supplies water for domestic, industrial, irrigation, and fire protection purposes.

One major and two minor EBMUD systems provide water to the site. These systems are connected to a Navy-owned water distribution network. The major system is a combined potable and fire protection system. This system obtains water from three separate metered connections located at Keller Avenue from the north, Mountain Boulevard from the west, and Sequoyah Road from the south. The overall system is capable of delivering 3,600 gallons per minute of water to the site. The water distribution system within the site is owned by the Navy. The system consists of 4-inch, 6-inch and 8-inch diameter cast iron and asbestos cement piping. The cast iron piping system was constructed in 1942, and the asbestos cement system was constructed in 1968 and the 1970s. The Navy-owned water system was examined in a 1985 Bechtel study that recommended a phased system-wide

replacement by 1994 (U.S. Navy 1985). Special Project R24-85 provided several of the line replacements recommended in the Bechtel study. The upper floors of the hospital lack adequate water pressure to meet fire protection requirements. The officers quarters' potable water pressure also is inadequate.

3.12.2 Sanitary Sewer System

Sewage is collected through a gravity system of 6-inch, 8-inch, 10-inch, and 12-inch diameter vitrified clay and polyvinyl chloride pipes. The storm sewer system is independent of the sanitary sewer collection network. The sanitary sewer system is connected to the Oakland sewer system at Mountain Boulevard. In addition to this system, two 12-inch Oakland mains traverse the project site. There are some minor connections to these two systems. The 1985 utility assessment recommended a major system upgrade, which was completed in 1988. This upgrade involved slip lining all 6-inch, 8-inch, and 10-inch sewer lines.

3.12.3 Storm Drainage

The surface water collection system in the NMCO property consists of gutters, catch basins, and underground pipes that convey the runoff to the creek running through the project site. The collection system at the site provides adequate capacity for the NMCO property

3.12.4 Electrical System

Electricity is provided by PG&E. The primary 12.5 kilovolt system is connected to the PG&E system at Mountain Boulevard, near the south gate, and terminates at the main switch. Two other feeders carry the power from the main substation to the distribution transformers. A secondary loop serves the west and north portion of the project site. Most of the electrical network is overhead, except for short underground sections.

The Public Works Center sold the power to the individual power users on the site. A computerized power allocation system is used. It models each customer's use in combination with the available meters. This allocation system determines compensation rates based on prorating the data collected by the meters and the type of use by individual customers.

Existing electrical capacity is adequate for the present use at the site, except for the hospital. It is standard practice to provide power to a large hospital from two different substations, but the hospital is supplied by only one substation. According to a 1983 "order-of-magnitude" estimate, installation of the second power source from a different substation and its related work would cost about \$1.8 million (Theresa Hughes & Associates 1995).



Based on a PG&E preliminary study, many of the poles and crossarms are deteriorated and require replacement. A portion of the distribution system is underground. The underground manholes are 24 inches in diameter, which does not meet the PG&E standard of 36-inch diameter manholes. The overall distribution system does not have sufficient meters to monitor individual structures and service users at the present time.

3.12.5 Natural Gas

PG&E is the supplier of natural gas through three main pipeline systems. Two of these systems are owned by the Public Works Center and the third by PG&E. All systems were originally constructed with steel pipes. The Public Works Center system was constructed in 1969. It consists primarily of 3-inch, 2.5-inch, and 0.25-inch diameter pipes. The major portion of the distribution system uses polyethylene lines. The 1969 upgrades included a new 10-inch main to supply the new steam plant in Building #512 (boiler room for the hospital) with laterals to Building #501 (bachelor enlisted barracks) and Building #8 (medical building) and a new 6-inch main to the northeastern area of the facility. The PG&E lines are over 40 years old. Gas pressure is regulated throughout the distribution system. The existing system does not have metering of individual structures.

3.12.6 Telephone System

Pacific Bell provides telephone service to the NMCO property. A switchboard and new cables and conduits were installed in January 1989 with the capacity of serving 5,000 telephone lines. These facilities are expandable to 10,000 lines. Most of the telephone wires are overhead. The distribution network is adequate and wires are in good condition. The system is consistent with government regulations and specifications but is not compatible with commercial use. Upgrading the switch that services the site is not cost-effective. However, under civilian reuse, the switch could be bypassed and new users could be delegated charges compatible with market rates for establishing new service.

3.12.7 Solid Waste Management

Removal of solid waste is provided on a daily basis by a private contractor under contract to the Public Works Center. Approximately 100 tons of general solid waste and trash per week were generated at NMCO. Final disposal of the wastes occurred at the Altamont Landfill near Livermore (following an intermediate transfer at the San Leandro Transfer Station). The NMCO recycling program currently provides for collection of commingled wastes, such as paper, plastics, glass, and metals, for subsequent pickup by a private recycling contractor.



Municipal Landfill Capacity

Municipal solid waste collection and disposal in Alameda County is a local government responsibility. Waste Management, Inc., of Alameda County (WMAC) is the largest collector in Alameda County and holds responsibility for waste collection for the NMCO site (Alameda County Waste Management Authority 1995). WMAC provides collection services for residential, commercial, and industrial customers, as well as public facilities (parks and public buildings). It provides regularly scheduled annual or semiannual residential cleanups in most communities. WMAC accepts direct-haul waste by the public and small commercial haulers at the Davis Street Transfer Station and the Tri-City landfill. Minor amounts of direct haul is also accepted at the Altamont Landfill site. WMAC has an agreement to provide services to the City of Oakland through 2006 (Alameda County Waste Management Authority 1995).

Altamont Landfill is located at 10840 Altamont Pass Road in unincorporated Alameda County (Alameda County Waste Management Authority 1995), on a 1,528-acre site, of which 230 acres are permitted for landfilling. It is owned and operated by WMAC. In 1990, the landfill was designated as Class III and was allowed to accept primarily municipal solid wastes. However, design changes, including the addition of an artificial liner, were made in 1993 in order to meet federal Subtitle D pollution control requirements. In 1994, the landfill was redesignated a Class II facility, thereby allowing the disposal of both municipal solid wastes and designated wastes, including asbestos and lead-based paints (Bonini 1996) that may be some of the waste generated during NMCO hospital demolition (Alameda County Waste Management Authority 1995). The Altamont Landfill currently accepts waste from the cities of Albany, Emeryville, Piedmont, Oakland, Alameda, San Leandro, Castro Valley, Hayward, Dublin, and the Oro Loma Sanitary District.

The maximum permitted quantity of waste that can be accepted by the Altamont Landfill is 11,500 tons per day. Actual loadings currently are averaging about 6,000 tons per day of municipal solid waste, of which 3,300 tons per day are generated in Alameda County. At the end of 1994, estimated remaining refuse capacity for the Altamont Landfill was 19 million tons. At the 1994 rate of fill, the facility would reach capacity in 2006 (Alameda County Waste Management Authority 1995).

The California Integrated Waste Management Board (CIWMB), an agency of the California Environmental Protection Agency (Cal/EPA), is responsible for policies and regulation of solid waste management in the state. Under AB 939, counties are mandated to reduce solid waste going to landfills by 25 percent by 1995 and 50 percent by 2000. A county's projected waste stream

and its specific plan for reducing it are contained in a document called the Source Reduction and Recycling Element, which compiles data and strategies from all jurisdictions to develop a composite goal for the two target years.

3.12.8 Potable Water Supply

Historic consumptive water use at NMCO ranged from about 5 to 9 million gallons per month (Rogers 1997). Average annual consumptive water use was about 7.5 million gallons per month, or about 90 million gallons per year (Rogers 1997).

3.12.9 Regulatory Considerations

Each utility is subject to different local, state, or federal regulations. These may be in the form of municipal codes, permitting requirements, state legislation, or federal agency requirements.

3.13 HAZARDOUS MATERIALS AND WASTE

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This section reviews existing conditions relating to hazardous materials and hazardous waste at the Naval Medical Center Oakland (NMCO) site. Before closure, NMCO had operated as a military installation since 1942. Activities have included hospital operations, medical education, vehicle and building maintenance, and auto fueling operations. Fuels, lubricants, paints, solvents, and other chemicals have been used throughout much of the history of the facility. The age of most buildings also creates a potential for the presence of lead-based paints and asbestos-containing materials (ACM).

Management of hazardous materials is regulated by federal, state, and local laws and regulations. The environmental department at EFA West is responsible for implementing current compliance programs.

The hazardous materials and waste information provided in this section reflects the most current data available. Information in this section is based primarily on survey data from the NMCO Base Realignment and Closure Cleanup Plan (BCP) (U.S. Navy 1995b), Final Environmental Baseline Survey (EBS) (U.S. Navy 1994c), the Final EBS Site Assessment and Field Sampling and Analysis Plan (U.S. Navy 1995b), and the BCP Environmental Plan (the "Business Plan") (U.S. Navy 1996).

The Community Environmental Response Facilitation Act (CERFA) requires a process and schedule for identification of uncontaminated sites. The final NMCO base-wide environmental baseline survey, published in December 1994 and developed in cooperation with the regulatory community, identified 18 of 63 parcels (102 acres) as CERFA-clean parcels. The remaining 45 parcels (81 acres) were identified as areas that require additional evaluation. The Navy determined that the remaining 45 parcels are suitable for transfer. Detailed information on all the parcels can be found in the NMCO environmental baseline survey.

Region of Influence

The region of influence (ROI) relative to hazardous materials and waste is the NMCO site and any surrounding area that may have been affected by hazardous materials or hazardous wastes originating at NMCO or from which hazardous materials or wastes could migrate onto NMCO.

3.13.1 Hazardous Materials Management

Under the requirements of the Base Realignment and Closure (BRAC) process, a BCP was prepared in January 1994 and was revised in March 1996. The BCP documents the environmental condition of each parcel of land at

NMCO. It will be finalized to provide the final status of environmental restoration and associated compliance programs. NMCO completed a basewide EBS in December 1994 and the Final EBS Site Assessment and Field Sampling and Analysis Plan in June 1995. The EBS is an assessment and summary of all known and suspected areas where hazardous materials or petroleum products have been handled, stored, disposed of, or released within the boundaries of NMCO and adjacent areas. It identifies CERFA-clean properties at NMCO. For each parcel that is identified as unsuitable for immediate transfer, the BRAC cleanup plan describes the action needed (obtaining additional information, investigation, or remediation) prior to transfer. The Final EBS Site Assessment and Field Sampling and Analysis Plan provides a plan and schedule for investigation of the identified hazardous materials areas.

Hazardous materials not required for caretaker maintenance activities have been collected from all designated storage areas and transferred to the Defense Reutilization and Marketing Office, or returned to vendors or to the Naval Supply System. The amount of hazardous materials collected at closure was minimal. Materials not redistributed or sold were disposed of off-site in accordance with the requirements of the federal Resource Conservation and Recovery Act (RCRA) (42 USC 6921).

Small quantities of hazardous materials will continue to be used at NMCO during the caretaker period. These materials will consist predominantly of detergents and pesticides used for general maintenance activities.

3.13.2 Hazardous Waste Management

NMCO is subject to both federal and state regulations on generation, storage, and disposal of hazardous wastes. The facility is listed in the March 1992 RCRA database as a Class II hazardous waste generator. It had an "extremely hazardous substance" permit for generation of state-defined extremely hazardous wastes, and a California Environmental Protection Agency (Cal/EPA) tiered permit for hazardous waste treatment for silver recovery. NMCO is not a treatment, storage, and disposal facility. Hazardous wastes generated at the facility have been handled under guidelines outlined in the NMCO Hazardous Waste Management Plan (U.S. Navy 1987a), which incorporates local, state, and federal regulations. The plan identifies wastes generated by NMCO and specifies appropriate procedures and processes to manage the waste, including reduction, recycling, and manifest procedures. Infectious and nuclear medical wastes are not included in the Hazardous Waste Management Plan and have been managed under separate programs for infection control and for nuclear medical materials and wastes.

The Navy has prepared several annual reports on hazardous waste and environmental compliance at NMCO. Wastes generated on-site have included waste oil, fuel, antifreeze, solvents, refrigerants, and trace amounts of mercury (U.S. Navy 1995a). The various hazardous waste annual reports and other studies of NMCO show the amounts of hazardous wastes generated. The 1993 hazardous waste annual report shows that the facility disposed of 3,229 pounds of hazardous waste per month and 67.2 pounds of extremely hazardous waste per month (U.S. Navy 1993). This amount represented a considerable increase over previous annual quantities reported. The increased quantities of hazardous wastes disposed of from NMCO in 1993-1995 were primarily due to draw-down activities and base cleanup activities in response to BRAC requirements. These included return of surplus hazardous materials, some of which cannot be reused and were therefore classified as hazardous wastes. The 1993-1995 hazardous waste disposal quantities represented one-time cleanup actions rather than an increase in operations that generate hazardous wastes (Zarah 1996). The majority of hazardous wastes historically were generated by the operations of the hospital and the Navy drug screening laboratory. laboratory ceased operations at NMCO in December 1994.

A 1992 environmental compliance evaluation shows that NMCO had 20 satellite accumulation locations (U.S. Navy 1995a). Up to 20 gallons of waste could be accumulated at each of those locations. The number of satellite accumulation locations started decreasing in 1992 as base activities have diminished (Douchand 1995). When the 20-gallon limit is reached at a satellite accumulation location, the wastes are transferred to the main accumulation point in Building #521. Waste storage in Building #521 is allowed without permit requirements for up to 90 days before removal from the site is required.

Healthcare related activities also generated biohazardous and nuclear medical wastes. At full operation, NMCO was a large-quantity generator of infectious and pathological wastes. It disposed of approximately 11,700 pounds of infectious and pathological wastes per month in 1991. Nuclear medical wastes and biohazardous wastes are discussed in greater detail in Section 3.13.9 of this report. The facility had a medical waste management plan in compliance with the California Medical Waste Management Act. Hazardous wastes generated in the hospital's wards and laboratories were collected daily and stored in a secured trailer located behind the main hospital building. A licensed medical waste hauler removed the waste from the site twice weekly for incineration off-site (Douchand 1995).

NMCO hazardous waste, excluding nuclear medical and mixed wastes, was collected from all designated areas, transferred to the Defense Reutilization and Marketing Office, and disposed of off-site in accordance with RCRA

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requirements. Nuclear medical and mixed waste was handled separately in accordance with applicable requirements. These wastes also were removed for off-site disposal.

3.13.3 Installation Restoration Program

Military installations were required under CERCLA to conduct site audits, beginning in 1987. This audit process, which is independent of BRAC, included identification of Installation Restoration Program sites. No Installation Restoration Program sites were identified at NMCO (U.S. Navy 1995a).

3.13.4 Asbestos

Asbestos-containing material (ACM) remediation is regulated by the U.S. Environmental Protection Agency (EPA), the Occupational Safety and Health Administration, and the state of California. Asbestos fiber emissions into the ambient air are regulated in accordance with Section 112 of the Clean Air Act, which established the National Emissions Standards for Hazardous Air Pollutants, with accompanying regulations addressing the demolition or renovation of buildings with ACM. The Toxic Substances Control Act (15 U.S.C. § 260) and the Asbestos Hazardous Emergency Response Act provide the regulatory basis for handling ACM in school buildings. The Asbestos Hazardous Emergency Response Act and Occupational Safety and Health Administration regulations cover worker protection for employees who work around or remediate asbestos-containing materials.

Renovation or demolition of buildings with ACM has the potential to release asbestos fibers into the air. Asbestos fibers could be released due to disturbance or damage of various building materials, such as pipe and boiler insulation, acoustical ceilings, sprayed-on fireproofing, and other materials used for soundproofing or insulation. Only friable ACMs, such as those listed above, are considered a health risk. Nonfriable ACMs, such as transite piping, shingles, or floor tile, are not considered a health risk unless they are mechanically abraded in such a way as to produce dust.

A facility-wide survey for asbestos-containing materials was required prior to base disposal. Department of Defense (DOD) policy is that property with ACM will not be disposed of through the BRAC process unless it has been determined that the ACM does not pose a threat to human health at the time of transfer and that the property complies with applicable statutes and regulations regarding ACM.

Some asbestos sampling was performed by the Public Works Center in 1990. Friable ACM was found in all five of the buildings sampled; it was subsequently removed (U.S. Navy 1995a). A comprehensive asbestos survey was performed in 1994. Friable, accessible, and damaged asbestos was removed or encapsulated in all buildings in 1994 and 1995 with the exception of Building #22 (the old boiler house). Friable, accessible, and damaged asbestos in Building #22 was removed by PWC. Nonfriable asbestos was left in place. No further comprehensive surveys are planned because all detected friable asbestos has been removed (Zarah 1996). However, additional confirmation sampling may be performed if Navy closure or caretaker activities could expose previously undetected friable asbestos, or to determine the asbestos content of materials previously assumed to contain asbestos. Any friable damaged, and accessible asbestos will be removed by the Navy prior to transfer.

Asbestos pipe insulation (lagging) reportedly existed on the vaulted underground steam piping and the old boilers that formerly served the hospital complex (U.S. Navy 1995b). Asbestos was removed from the abandoned steam lines in exposed areas in 1995. Asbestos in the buried portions of the lines was left in place. The vaults were filled with sand (Zarah 1996).

3.13.5 Polychlorinated Biphenyls

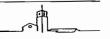
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Polychlorinated biphenyls (PCBs) are found in trace amounts in chlorinated hydrocarbon fluids used in electrical equipment, primarily in transformers and capacitors, because they are electrically nonconductive and stable at high temperatures. PCBs also have been identified in light fixtures, ballasts, certain machine shop equipment, and some solid materials.

The disposal of these compounds is regulated under the Toxic Substances Control Act (15 U.S.C. § 260), which banned the manufacture and distribution of PCBs except for use in enclosed systems. By definition, PCB equipment contains concentrations of 500 parts per million (ppm) or more, whereas PCB-contaminated equipment contains concentrations greater than 50 ppm but less than 500 ppm. The EPA, under the Toxic Substances Control Act, regulates the removal and disposal of all sources of PCBs containing 50 ppm or more. Primary federal regulations for controlling existing PCBs are found in 40 CFR Part 761. California regulations are more stringent than their federal equivalents and are found in California Code of Regulations Title 22. Within California, a waste fluid containing 5 ppm PCBs or more is regulated as hazardous.

All Navy shore activities that generate, treat, store, and dispose of PCBs must inventory or validate all PCBs and PCB items annually in accordance



with Navy procedures and applicable federal and state regulations. The California Department of Toxic Substances Control regulates PCBs as a non-RCRA hazardous waste. Naval Operations Instruction (OPNAVINST) 5090.1B specifies elimination by October 1998 of all transformers containing 500 ppm or more PCBs and elimination by October 2003 of all transformers containing 50 ppm or more PCBs (U.S. Navy 1994d). The presence of PCB-contaminated transformers or other known electrical equipment will be disclosed in findings of suitability to lease or transfer prior to property lease or transfer, as appropriate.

The Public Works Center conducted a survey and sampling program for buildings, sites, and industrial equipment at NMCO in the early 1980s. Because of the sensitive nature of the NMCO installations, the Public Works Center removed all PCB transformers at NMCO before 1985 (U.S. Navy 1990b). According to the BCP, the Public Works Center conducted a comprehensive survey of transformers and capacitors in 1994. No PCBs were found at concentrations subject to regulation.

3.13.6 Storage Tanks and Oil/Water Separators

Underground storage tanks (USTs) and aboveground storage tanks (ASTs) were used to store hazardous substances and petroleum products at several locations at NMCO. Oil/water separators are often below ground and can create environmental issues similar to USTs. No oil/water separators have been identified at NMCO, and they are therefore not included in this discussion.

Underground Storage Tanks

USTs are subject to federal regulations of the Resource Conservation and Recovery Act (40 CFR § 280), as mandated by the Hazardous and Solid Waste Amendments of 1984. The state of California has adopted regulations under Title 23, Division 3, Chapter 16 of the California Code of Regulations. California regulations are more stringent than the federal regulations and require secondary containment on both the tank and piping systems installed after January 1, 1984. The Alameda County Health Care Agency administers the state regulations for USTs at NMCO. USTs are tracked by using an approved monitoring plan as specified by the Public Works Center. All USTs have been removed with the exception of two tanks that were closed in place in the 1970s (Building 22).

The location, contents, size, ownership, and status of USTs are summarized in Table 3-24. UST locations are identified in Figure 3-23.

Table 3-24 Underground Storage Tank (UST) Inventory

1	on to the A			 -	1				· · · ·		
	Future Actions	None	None	None	None	None		None	None	None	None
	Comments	Removed	Removed	Removed	Removed	Removed		Removed	Removed	Removed	Removed
	Substance Stored	Unleaded gasoline	Diesel fuel	Diesel fuel	Diesel fuel	Diesel fuel		Diesel fuel	Diesel fuel	Petroleum hydrocarbon, exact nature unknown	Unleaded gasoline
	Gapacity (Gall)	10,000	9,000	5,000	500	20,000		750	750	8,000	10,000
	Year Installed	1985	1985	1968	1981	1988		Unknown	Unknown	1940s	1981
	Logation	Building #144 transportation area	Building #144 transportation area	Building #500	Building #505	Building #512		Commanding officer's residence (removed 1994)	Executive Officer's residence (removed 1994)	Building #117 (removed 1991)	Building #510 NEX ¹ gas station (removed 1991)
	Site Parcel No.	159	159	137	132	139		115	115	159	108
	Tank Number/ Owner	141A NMCO	141B NMCO	500A NMCO	505A NMCO	512A The Public	Center	L63D		111A	510A

1 NEX: Navy Exchange

Naval Medical Center Oakland Disposal and Reuse Final EIS/EIR

Table 3-24 Underground Storage Tank (UST) Inventory (continued)

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Site rarcel No. : Location	Location		rear Installed	Capacity (Gali)	Stored	Comments	Future Actions
108 Building #510 NEX gas station (removed 1991)	Building #510 NEX gas station (removed 1991)		1981	10,000	Leaded gasoline	Removed	None
108 Building #510 NEX gas station (removed 1991)	Building #510 NEX gas station (removed 1991)		1981	10,000	Unleaded gasoline	Removed	None
108 Building #510 NEX gas station (removed 1991)	Building #510 NEX gas station (removed 1991)		1981	550	Waste oil	Removed	None
Building #214 former NEX gas station (removed 1986)	Building #214 former NEX gas station (removed 1986)		1952	000'9	Unleaded gasoline	Removed	None
Building #214 former NEX gas station (removed 1986)	Building #214 former NEX gas station (removed 1986)		1952	6,000	Leaded gasoline	Removed	None
Building #214 former NEX gas station (removed 1986)	Building #214 former NEX gas station (removed 1986)		1952	8,000	Unleaded gasoline	Removed	None
151 Building #214 former NEX gas station (removed 1986)	Building #214 former NEX gas station (removed 1986)		1952	Unknown	Unknown petroleum products	Removed	None
110 Building #12 1	Building #12 1	-	1940s	Unknown	Petroleum products	No UST found upon excavation.	None
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Naval Medical Center Oakland Disposal and Reuse Final EIS/EIR 3-118

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Table 3-24 Underground Storage Tank (UST) Inventory (continued)

Year Capacity Substance Comments Future Actions	Building #12 1940s Unknown Petroleum No UST found upon None products excavation.	Building #22 Unknown Unknown Petroleum Tank closed in place in None the 1970s.	Building #22 Unknown Unknown Petroleum Tank closed in place in None products the 1970s.
Location	Building #12	Building #22	Building #22
Site Parcel No.	110	154	154
Tank Number/ Owner	Building #12 110	Building #22 154	Building #22 154

Source: U.S. Navy 1996 (BRAC Cleanup Plan).

Aboveground Storage Tanks

Aboveground storage tanks (ASTs) are regulated under California Health and Safety Code, Division 20, Section 6.7, the Uniform Fire Code, and National Fire Protection Association regulations. The regulatory mechanism guiding cleanup and prevention of spills is Senate Bill 1050 of January 1990. Regulatory control is by the Regional Water Quality Control Board. There is one inactive AST at NMCO. Five ASTs were removed. No potential contamination problems in connection with the operation of these tanks have been reported.

The location, contents, size, ownership, and status of ASTs at NMCO are shown in Table 3-25. AST locations are shown on Figure 3-23.

Table 3-25 Aboveground Storage Tank (AST) Inventory

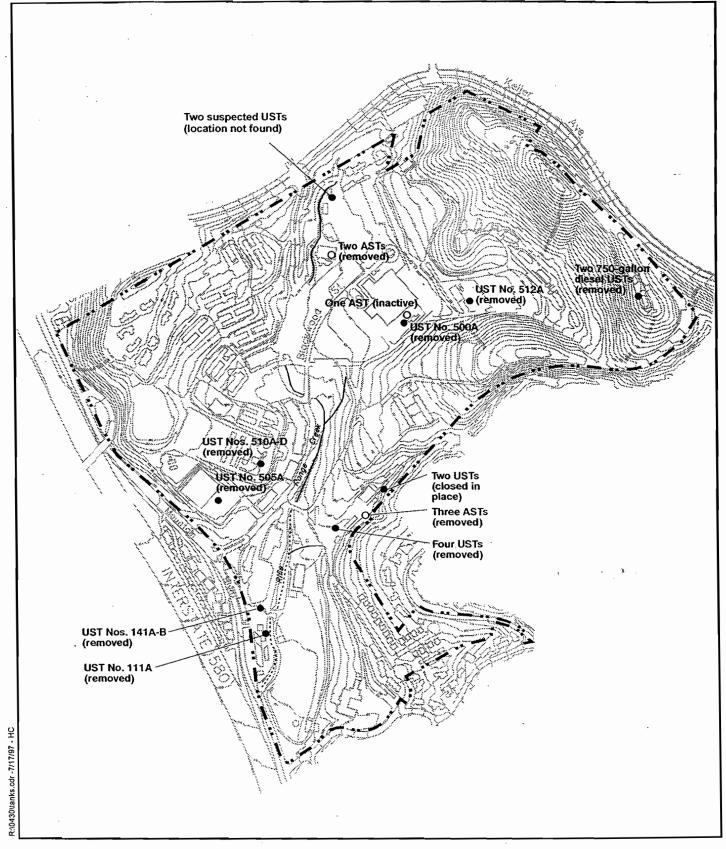
Location	Sizes (gal)/Contents	Status
Building #108	300/diesel fuel	Removed
Building #108	300/diesel fuel	Removed
Building #22	10,000/diesel fuel	Removed in 1994
Building #22	10,000/diesel fuel	Removed in 1994
Building #22		Removed
Building #500	500/diesel fuel	Inactive

Source: U.S. Navy 1995a.

Following closure of the base and during caretaker activities, little use of existing storage tanks would occur.

3.13.7 Pesticides

The registration and use of pesticides are regulated under the Federal Insecticide Fungicide and Rodenticide Act of 1972, as amended (7 USC 136 et seq.). Pesticide management activities are subject to federal regulations contained in 40 CFR 162, 165, 166, 170, and 171, and California regulations contained in CCR Title 3, Chapter 4. Pest control at NMCO was managed and performed by the Public Works Center personnel. The Public Works Center operated under a written pest control plan in accordance with DOD regulations for pesticide use (Williams 1995).



Underground and Aboveground Legend: Underground Storage Storage Tanks Tank Location 0 Aboveground Storage Tank Location

Naval Medical Center Oakland

Figure 3-23

Site Boundary

3.13.8 Lead Based Paint

Lead was a major ingredient in paint used throughout the country for many years. In 1978, the maximum lead content was reduced to 0.06 percent of newly applied dry film of paint. Lead and lead-containing products, including paint, radiological shielding, and battery parts, have been used during construction, repair, and maintenance since NMCO began operations in 1942.

All residential properties on the site that will be transferred must comply with the federal Residential Lead-Based Paint Hazard Reduction Act of 1992. Any housing constructed before 1960 must be inspected for lead-based paint hazards. Any such hazards must be abated prior to transfer out of federal ownership. Housing constructed between 1960 and 1978 must be inspected and the inspection results must be disclosed to prospective purchasers, although abatement is not required.

The Navy Public Works Center, Norfolk, performed a lead-based paint survey at NMCO's residential buildings in 1995. Residential areas were surveyed for lead in paint, dust, and soil (U.S. Navy 1995b). The survey included the Officers Quarters (Williams) housing, built in 1943-1944; the Johnson Circle housing, built in 1969; the Barcelona/Santa Cruz family housing, built in 1974; the Duplex Officers' Quarters, built in 1956; and the playgrounds, built between 1956 and 1974.

The survey results indicated that lead-based paint is present throughout the residential areas. A lead dust hazard was identified in one unit in the Duplex Officers Quarters; all other lead dust samples were below the action level as defined by the federal Department of Housing and Urban Development. Lead was found in soil at concentrations above the Department of Housing and Urban Development action level of 400 parts per million in the Officers Quarters (Williams), Barcelona/Santa Cruz housing, and Duplex Officers Quarters areas. No soil samples contained lead concentrations greater than 5,000 parts per million, the level at which abatement would be required.

The Navy is pursuing abatement measures in the soils around housing in the Barcelona/Santa Cruz housing.

3.13.9 Medical Materials and Waste

Medical materials and waste generated at NMCO include nuclear medical materials and wastes and biological waste. NMCO has Navy permits for use and storage of materials which have been used for nuclear medicine, x-rays, and laboratory analysis in connection with medical treatment and drug

screening operations at the facility. NMCO's Medical/Biological Waste Program is regulated under CCR, Title 22, Article 13.

Nuclear medical materials have been used in the drug screening laboratory (Building #65), the main hospital (Building #500), and the "radiation safety" area in Building #75 (U.S. Navy 1995a). Nuclear medical materials have been stored in Buildings #17 and #107.

Low-level nuclear medical wastes generated during site operations are stored in Building #17. The wastes are stored in 55-gallon drums and are removed from the site for disposal by Adco Nuclear Services. Nuclear medical wastes generated during site operations were formerly stored in Building #107, which has been released from its classification as a nuclear medical "decay in storage" site by the Navy and has been approved for decommissioning (U.S. Navy 1995a). Nuclear medical waste also was stored in Buildings #85 and #110 (U.S. Navy 1995a).

The hospital complex at NMCO has provided inpatient and outpatient consultation and general clinical services. The Navy drug screening laboratory, which operated on-site until December 1994, was the Navy's major west coast drug screening analysis facility. These facilities have been the only recent generators of medical or biological wastes at NMCO. Wastes have included laboratory reagents, x-ray film developing and fixing solutions, solid wastes (such as wound dressings), and empty or out-of-date pharmaceutical containers. These materials have been placed in marked bags or containers at the point of generation and transferred to the housekeeping department for storage each day. Browning Ferris Industries collected and disposed of these wastes twice weekly. Proper disposal was further assured by a dedicated storage facility and formal staff training on blood-borne pathogens.

At the time of base closure, the medical clinical operations were closed and no wastes were generated, stored, or disposed of.

3.13.10 Radon

1

Radon is a colorless and odorless gas that is produced by decay of naturally-occurring uranium to radium. Radium is found in high concentrations in rocks containing uranium, granite, shale, phosphate, and pitchblende. Atmospheric radon is diluted to insignificant concentrations. Radon that is present in soil, however, can enter a building through small spaces and openings, accumulating in enclosed areas, such as basements. The cancer risk caused by exposure, through the inhalation of radon, is a topic of concern.

The amount of radon is measured in picocuries per liter of air (pCi/L). The average indoor level is estimated to be 1.3 pCi/l and about 0.4 pCi/L of radon is usually found in the outside air. There are no laws that require testing and remediation for radon, but the EPA has made recommendations for both residential housing and schools. The EPA-recommended action level for radon is 4 pCi/l.

Radon testing was performed in Building #62A in 1993. Radon monitors were placed in 23 rooms throughout the building. Analysis found that no radon concentrations exceeded 4.0 pCi/l; the highest concentration was less than 0.5 pCi/l (U.S. Navy 1995a).

DOD policy regarding radon on BRAC properties is to ensure that any available and relevant radon assessment data pertaining to the BRAC property will be included in property transfer documents (U.S. Navy 1995a). No further radon assessments are planned.

3.13.11 Regulatory Considerations

The following is a brief discussion of the major federal laws and regulations that apply to hazardous materials and waste at NMCO.

Community Environmental Response Facilitation Act (CERFA). Congress amended the Comprehensive Environmental Response, Cleanup, and Liability Act (CERCLA) in 1992 through the passage of CERFA. The purpose of CERFA is to expedite the identification of uncontaminated real property, within closing federal facilities, which offers the greatest opportunity for reuse and redevelopment. Uncontaminated, or CERFA-eligible, property is defined as any real property on which no hazardous substances and no petroleum products were stored for one year or more or were known to have been released or disposed.

Identification of uncontaminated properties at NMCO is the responsibility of the Navy. The EPA is the regulatory authority for enforcement of CERCLA, including the CERFA amendments. However, the EPA has joined with Cal/EPA in the implementation of CERFA for Department of Defense (DOD) facilities in California. Cal/EPA serves as the lead agency for closures of military bases, including NMCO, not listed in the National Priorities List (NPL). Cal/EPA generally follows EPA guidance for CERCLA sites.

For properties that cannot qualify as CERFA-eligible, the CERFA law specifies that the deed for the transfer of subject property shall include a covenant warranting that all remediation necessary to protect human health and the environment with respect to any hazardous substance remaining on

the property has been taken prior to the date of transfer, and that any response action or corrective action found to be necessary after the date of transfer shall be conducted by the United States.

Properties that contain or potentially contain contamination cannot be transferred prior to environmental remediation. However, the DOD has established a policy for lease of these properties. The DOD with regulatory participation can develop a site-specific baseline survey and a finding of suitability to lease or transfer for the property. The finding of suitability to lease may include specific land use restrictions to protect human health and the environment and to ensure government access for final investigations and remediation. A finding of suitability to transfer may only be issued for clean properties and does not include land use restrictions.

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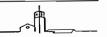
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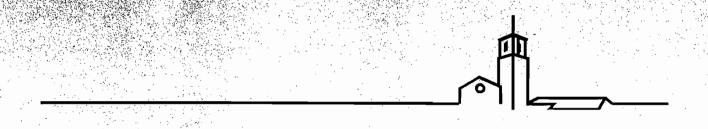
Resource Conservation and Recovery Act. In response to the need to more closely regulate the ongoing handling, storage, transportation, and disposal of hazardous wastes, the U.S. Congress passed the Resource Conservation and Recovery Act of 1976, which presents the federal regulations for the operation of hazardous waste storage, treatment, and disposal sites. The State of California implemented the requirements of the Resource Conservation and Recovery Act under interim authorization from the federal government through enforcement of the California Hazardous Waste Control Law, which provides regulations that equal or exceed the federal standards for hazardous waste management. Final authorization for the state to implement the Resource Conservation and Recovery Act was given in 1993. The responsible agency for enforcement of the Resource Conservation and Recovery Act and the California Hazardous Waste Control Law is Cal/EPA, Department of Toxic Substances Control.

Comprehensive Environmental Response, Compensation, and Liability Act. Originally passed in 1980, CERCLA created national policies and procedures to identify and remediate sites previously contaminated by the release of hazardous substances. CERCLA formalized the process for identification of sites and the prioritization for the cleanup of sites through the National Contingency Plan, which contains criteria for the evaluation of sites that provide the basis for the preliminary assessment and site inspection. The evaluation that results in a priority ranking of the site that determines whether it should be placed on the National Priorities List. Facilities placed on the list are commonly referred to as "Superfund" sites. NMCO has been evaluated under this process and has not been placed on the National Priorities List.

The Application of Radon Reduction Methods (EPA 1988) summarizes the EPA-recommended action level of 4 pCi/L and guidance for action by recommending that:



- For radon concentrations greater than 200 pCi/L, action be initiated within a few weeks;
- For radon concentrations in the range of 20 to 200 pCi/L, action be initiated within several months;
- For radon concentrations in the range of 4 to 20 pCi/L, action be initiated within a few years (the higher the radon level the more urgent the need for action); and
- For radon concentrations less than 4 pCi/L, no action is specifically recommended. However, many individuals may elect to further reduce radon concentrations in the range of 1 to 4 pCi/L.



4.0 ENVIRONMENTAL CONSEQUENCES

4.1	LAND USE	4-5
4.2	SOCIOECONOMICS	4-10
4.3	PUBLIC SERVICES	4-28
4.4	CULTURAL RESOURCES	4-37
4.5	AESTHETICS AND SCENIC RESOURCES	4-41
4.6	BIOLOGICAL RESOURCES	4-56
4.7	WATER RESOURCES	4-67
4.8	GEOLOGY AND SOILS	4-76
4.9	TRAFFIC AND CIRCULATION	4-84
4.10	AIR QUALITY	4-110
4.11	NOISE	4-124
4.12	UTILITIES	4-132
4.13	HAZARDOUS MATERIALS AND WASTE	4-146

4. ENVIRONMENTAL CONSEQUENCES

This chapter describes the potential environmental consequences associated with the disposal of federal surplus land and reuse of Naval Medical Center Oakland (NMCO). These consequences are called environmental effects or environmental impacts. These two terms are used interchangeably in this chapter and throughout the rest of this environmental impact statement/environmental impact report (EIS/EIR).

The four reuse alternatives described in Chapter 2 including the Maximum Capacity Alternative, the Mixed Use Village Alternative, the Single Use Campus Alternative, and the Residential Alternative, are evaluated for environmental impacts that could result from their implementation. The No Action Alternative is also evaluated for environmental impacts that could result from it's implementation. The Maximum Capacity Alternative is also the preferred alternative and includes the NMCO Reuse Plan, adopted by the Oakland Base Reuse Authority (OBRA) on June 10, 1996 and published in August 1996 (OBRA 1996).

Environmental effects, or impacts, are identified for the same issue areas, and in the same order, as presented in Chapter 3, including land use, socioeconomics, public services, cultural resources, aesthetic and scenic resources, biological resources, water resources, geology and soils, traffic and circulation, air quality, noise, utilities, and hazardous materials and waste.

For purposes of the Navy NEPA analysis, direct environmental consequences or impacts are those associated with Navy disposal of surplus property and the No Action Alternative. Indirect impacts are associated with community reuse of Navy surplus property. The Navy's roles and responsibilities for disclosing indirect reuse-related environmental impacts is to address reasonably foreseeable impacts. However, property reuse will occur after it is conveyed from federal ownership and in support of local reuse actions. Implementation of mitigation measures for reuse environmental impacts is a local responsibility and not the responsibility of the Navy.

After their identification, environmental impacts may be classified in one of four different levels. The first level is "significant and not mitigable." This means that the impact exceeds some threshold of significance (thresholds of significance are presented as "significance criteria."), and that the impact can not be mitigated (i.e. avoided or reduced to a less adverse effect). The only impacts identified in this EIS/EIR that meet that classification are air quality impacts associated with traffic-related ozone precursor and PM₁₀ emissions.

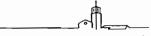
Beyond these impacts, the most adverse impacts identified in this report are classified as "significant and mitigable." This means that although the impact exceeds some threshold of significance, it can be mitigated through full implementation of mitigation measures (i.e. actions that serve to avoid or reduce the impact). There are two other levels of impacts used in this report. They are "nonsignificant," which means that the impact does not exceed some threshold of significance, and is therefore "nonsignificant" when compared to such thresholds, and "none," which is the same as "no impact," when compared to significance thresholds and criteria.

For every issue area evaluated in this EIS/EIR, impacts of disposal and of each alternative, including the No Action Alternative, are projected to the year 2020. The year 2020 was chosen as when the final reuse plan would be fully implemented. It is anticipated that all aspects of the final reuse plan would be in place by 2020. Complete implementation of each alternative is assumed in the analysis of impacts.

The impacts discussion for each issue area (i.e. land use, socioeconomics, etc.) begins with an introduction of the issue area, and the general scope (i.e. range) of subtopics considered in the impacts analysis. Some of the issue area introductions include additional explanations intended to give the reader more information regarding the context or development of the analysis. For example, the socioeconomics analysis (Section 4.2) explains that two levels of geographic detail are used-regional, and neighborhood-in order to appropriately identify impacts that are relevant to one or the other levels of detail. The aesthetics and scenic resources impacts analysis (Section 4.5) provides an introduction to the visual components of the project-for each alternative-to better place the reader in the proper frame of reference for considering visual impacts. The biological resources analysis (Section 4.6) includes a discussion of planning processes that are needed for biological resources and for the ongoing protection of important species and their habitat. Both the socioeconomics (4.2) and the traffic and circulation (4.9) sections also include discussions of their respective methodologies that are used for identifying impacts.

The region of influence (ROI) applicable to the specific issue area either precedes or follows these introductions as appropriate to best present such information to the reader. The next section includes the criteria used to determine whether an impact would be significant. These "significance criteria" contain the thresholds of significance for each specific issue area.

Significance criteria are followed immediately by a table that summarizes impact determinations for that particular issue area. The table includes four separate circular symbols corresponding to the four levels of impacts, and



relates the type of impact to some subtopic within the issue area (i.e. impacts to schools is one subtopic within the socioeconomic issue area).

The text that follows the summary tables provides the reasoning for identifying impacts of disposal and of each of the alternatives, including the No Action Alternative. Impacts are identified first for disposal, and then for each of the four reuse alternatives, followed by the No Action Alternative. Of the reuse alternatives, impacts for the preferred, or Maximum Capacity Alternative are presented first, followed, in order, by impacts identified for the Mixed Use Village Alternative, the Single Use Campus Alternative, and the Residential Alternative. There are two density-related options for the Residential Alternative, as explained in Chapter 2.

Mitigation measures are identified for each impact determined to be significant. Significant impacts and mitigation measures are numbered when there is more than one impact per topic. Nonsignificant impacts (including those that are beneficial) are discussed separately from the significant impacts and are not numbered. Activities that can reduce the adverse nature of some nonsignificant impacts are sometimes recommended to the extent that they serve to provide additional information to the public and decisionmakers. Beneficial impacts also are mentioned for this same informational purpose. Unless otherwise indicated in the impacts discussion, Navy participation in meeting mitigation costs is not anticipated.

In some sections, another section titled "Applicable Laws, Regulations, and Standards" has been included. Some potential effects of one or more of the development alternatives can be avoided, or minimized by compliance with applicable federal, state, and local laws (e.g. Clean Water Act) and/or regulations, or by compliance with accepted professional standards (e.g. for the construction of buildings according to accepted health and safety standards, etc.). Such effects and the corresponding laws, regulations, and standards are discussed in these sections in order to differentiate them from conventional National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA) impacts.

For purposes of the Navy's NEPA analysis, environmental impacts associated with implementation of the reuse alternatives are considered indirect environmental impacts. The Navy's role and responsibilities for disclosing indirect reuse-related environmental impacts is to address reasonably foreseeable impacts. However, property reuse will occur after it is transferred from federal ownership and in support of local reuse actions. Implementation of mitigation measures for reuse environmental impacts is a local responsibility and not the responsibility of the Navy.

The City of Oakland intends to use this program EIS/EIR for all project approvals required to implement the reuse plan. Such approvals may include, but are not limited to general plan amendments, rezoning, zoning permits, specific plans or other specific area plans, redevelopment plan, development agreements, subdivision applications, tree removal permits and grading permits. Subsequent project-level environmental review may be required under the California Environmental Quality Act for as yet unforeseen developments and impacts that may not have been adequately covered by this document.

4.1 LAND USE

This section analyzes land use impacts potentially resulting from disposal, the proposed reuse alternatives, and the No Action Alternative. Impacts to on-site and surrounding land uses are evaluated and compared to existing land use conditions. The region of influence for land use analysis includes the NMCO site, surrounding residential neighborhoods, commercial and retail development, and other areas that could be directly or indirectly affected by proposed land uses.

4.1.1 Significance Criteria

The proposed development alternatives would cause a significant impact on land use if: their implementation would conflict with established residential, recreational, educational, or other uses in the project area, (i.e. by disrupting or dividing the established physical land use configurations, or introducing incompatible land uses). The consistency of the proposed reuse alternatives with the goals and policies of the City of Oakland's Comprehensive Plan has been considered when evaluating their land use impacts. To ensure consistency between the selected alternative and the city's plans and policies, current land use designations and regulations would need to be revised to incorporate the selected development plan for the site, as described in Section 3.1. Adoption of one of these reuse alternatives as part of reuse plan adoption and accompanying amendments to the Comprehensive Plan and zoning would establish such goals and policies for the NMCO site. Thus, consistency of proposed reuse alternatives with existing City of Oakland land use goals and policies is not a criterion for impact significance. Table 4-1 summarizes land use impact determinations that follow.

4.1.2 Navy Disposal

No Impacts

Disposal, as a transfer of title, in and of itself not an environmentally disruptive action, would not impact land use because no major change to onsite land uses would occur as part of disposal.

4.1.3 Maximum Capacity Alternative

Nonsignificant Impacts

No significant land use impacts would result from implementation of the preferred, or Maximum Capacity Alternative, because no disruption of existing surrounding land uses would occur. No substantially incompatible land uses would be introduced, and proposed land uses would not have the



potential to disrupt or divide the established physical land use configurations.

Table 4-1 Summary of Land Use Impact Determinations

	NAVY	ACTIONS		ALTER	NATIVES	
IMPACT ISSUES	Navy Disposal	No Action Alternative	Maximum Capacity Alternative	Mixed Use Village Alternative	Single Use Campus Alternative	Residential Alternative
Conflicts with existing residential uses	0	. 0	Θ	•	Ф	O .
Conflicts with public access policies	0	0	Φ.	Φ	Ф	Φ.
Conflicts with surrounding land uses	0	0	.0	Φ	Φ.	0
Conflicts with other existing uses	0	0	0_	0	0	0

LEGEND:

Level of Impact

Significant and not mitigable
 Significant and mitigable

O = Nonsignificant

O = None

The introduction of mixed use development of residential, corporate office, retail, recreation (including the nine-hole golf course) and open space is generally compatible with the prevailing residential character of the surrounding land uses. The majority of the area (96 acres) is devoted to housing and the executive golf course. These uses would be similar to nearby uses in the Sequoyah Country Club area. There may be some minor, and very localized land use conflicts due to changes in levels of human activity on the site. Specifically, greater public access, and the introduction of new retail uses near housing on Keller Avenue may cause such conflicts; however, similar uses and public open space occur in the immediate vicinity already, so this impact is not considered significant. The configuration of the Maximum Capacity Alternative reflects considerable attention (throughout the Oakland Base Reuse Authority (OBRA) planning process for the NMCO site) to maximizing the compatibility of adjoining land uses, in compliance with OBRA objectives and procedures to conform to City of Oakland goals and policies as far as possible. The minor conflicts that remain are considered nonsignificant in view of this conformance and because they do not substantially disrupt surrounding land uses.

The increase in access to public recreation and open space represents a slight beneficial effect by increasing the amount of recreational facilities available to the greater community composed both of surrounding landowners and the City at large. This greater access is consistent with the city's existing open space, conservation, and recreation policies. The expansion of the open space network along the Rifle Range Creek corridor establishes a key beneficial pedestrian link between the I-580 corridor and the Leona Regional Open Space trail system.

4.1.4 Mixed Use Village Alternative

Significant Impacts

Impact 1: Significant and mitigable land use impacts would result from conflicts with existing residential uses due to the development of a research and development facility, particularly a biotechnology tenant. Such uses would require increased security and related restrictions to access not normally encountered in predominantly residential neighborhoods. Depending upon the nature of the biotechnology activities, certain safety measures would be required to ensure isolation of laboratory areas and potentially hazardous materials from the general population (see Section 4.13 for more information regarding applicable laws, regulations, and standards that provide such protections for all development alternatives). These measures may include buffer zones, high security measures, and other isolation mechanisms that could be inconsistent with a relatively small site encircled by a residential neighborhood.

Mitigation 1: The impacts of a research and development facility would be mitigable to a level that is nonsignificant by limiting all biotechnology operations conducted on-site to those with a low level of risk consistent with surrounding neighborhoods, as determined by the city's public health department. If implemented, this alternative, and specifically the biotech operations would require subsequent approvals to ensure that risk levels to surrounding neighborhoods were appropriately addressed and reduced.

Nonsignificant Impacts

Public Access. Restrictions on public access to the site may be required by the campus development. If such restrictions affect considerable portions of the site, this would not be consistent city policies advocating increased access to open space and recreation. However, since public access is presently limited, and since policy consistency is not a criterion for impact significance, access restrictions are considered nonsignificant.

Land Use Conflicts. The development of mixed residential, office, recreation, social services and housing, open space, and community retail uses at the western end of the site may introduce some minor land use conflicts due to changes in levels and types of human activity on the site. However, none of

these uses are incompatible with a residential neighborhood, and no disruption of existing land uses would occur. The retention of 86 acres of open space would be consistent with city policies protecting the natural setting, as would the expansion of the open space network along the Rifle Range Creek corridor.

4.1.5 Single Use Campus Alternative

Nonsignificant Impacts

No significant land use impacts would result from implementation of the Single Use Campus Alternative, because no disruption of existing surrounding land uses would occur, and no major incompatible land uses would be introduced.

Public Access. Restrictions on public access to the site may be required by the campus development. If such restrictions affect considerable portions of the site, this would not be consistent with city policies on increasing access to open space and recreation. However, since public access is presently limited, and since policy consistency is not a criterion for impact significance, access restrictions are considered nonsignificant.

Land Use Conflicts. There may be some minor land use conflicts due to changes in levels of human activity on the site, and due to the introduction of a small neighborhood retail area near existing housing on Keller Avenue. However, these minor conflicts that remain are considered nonsignificant because they do not substantially disrupt surrounding land uses.

The majority of the area (101 acres) is devoted to open space, which is consistent with city policies protecting the natural setting, and which to some extent buffer changes in land use within the NMCO site from adjacent residential uses. The expansion of the open space network along the Rifle Range Creek corridor also represents a beneficial impact, due to the potential for linkage of the I-580 corridor with the Leona Regional Open Space trail system.

4.1.6 Residential Alternative

Nonsignificant Impacts

No significant land use impacts would result from the implementation of the Residential Alternative, because no disruption of existing surrounding land uses would occur, and no major incompatible land uses would be introduced.

Public Access. Minor changes in levels of human activity and minor localized conflicts arising from increases in public access are considered nonsignificant, because such changes and increased access would not disrupt or divide the physical land use configurations.

The increase in access to public recreation and open space represents a slightly beneficial impact to the community at large by increasing the amount of recreational facilities available to it. This is consistent with the city's existing open space, conservation, and recreation policies. The retention of 46 acres of open space is consistent with city policies relating to conservation of the natural setting. The expansion of the open space network along the Rifle Range Creek corridor also represents a beneficial impact, due to the potential for linkage of the I-580 corridor with the Leona Regional Open Space trail system.

No Impacts

Land Use Conflicts. The single family housing, neighborhood retail, active recreation, and open space uses of this alternative would be similar to, and compatible with surrounding land uses. No adverse impacts would occur due to this compatibility.

4.1.7 No Action Alternative

No Impacts

No land use impacts would result from the No Action Alternative, because no disruption of existing surrounding land uses would occur; and no incompatible land uses would be introduced.

The continuing maintenance of existing facilities under caretaker status in the No Action Alternative would result in no adverse impacts since there would be no new impacts on surrounding residential land uses or on-site recreational uses. This alternative would have none of the benefits of the reuse alternatives in terms of increasing the area of park and recreation facilities open to the public, or maximizing the potential of the creek corridor for open space networks.

4.2 SOCIOECONOMICS

This section analyzes socioeconomic impacts resulting from the four development alternatives and the No Action Alternative. The socioeconomic analysis addresses the impacts on jobs, income, population, housing, schools, and recreation that would result from the disposal and implementation of the development alternatives at the NMCO site. Alameda County is the region of influence (ROI) for social and economic impacts. This definition was selected because 70 percent of Alameda County residents also work within the county (California Employment Development Department 1994). Thus the county population and economy will be the area primarily affected by the NMCO site development alternative.

Environmental Justice issues are discussed separately in Section 5.6 of this report.

Neighborhood Level of Analysis for Environmental Justice

For environmental justice issues (which are discussed in detail in Section 5.6), the regional analysis is supplemented by a discussion of the specific characterization of the Oak Knoll Study Area, since the impact of the development alternatives would be felt most strongly by neighboring areas. The Oak Knoll Study Area, which is made up of census tracts 4081, 4099, 4100, 4083, 4101 and 4098, was included in the neighborhood level analysis because it was designated in the Existing Conditions Report (Theresa Hughes and Associates 1994), which was prepared in support of the NMCO Reuse Plan as the appropriate study area for assessing the opportunities and constraints for various land uses at the NMCO site (see Section 3.2 for map of the Oak Knoll Study Area). This analysis is consistent with that reasoning.

To determine the impact of disposal and the development alternatives on the regional economy, the increase in economic activity between 1996 and 2020 that could occur under each reuse alternative is evaluated. Year 2020 projections of future jobs, income, population, and households have been developed using the Association of Bay Area Governments (ABAG) document titled "Projections '94."

The impact of each alternative is first evaluated according to the estimated number of jobs generated, because the level and type of job generation affects the other socioeconomic conditions in a region. Employment created from the alternative being analyzed would result in more jobs at the regional level, since people that would be hired to work at such jobs can reasonably be assumed to live in the region. Jobs create income for spending, spending

supports local businesses, creates additional jobs, and generates more income. When job opportunities exist, new residents move in, adding to the regional population. New households mean additional demand for housing construction and additional revenues and demand for local government services.

Note that a difference exists between employment created within an area and employment created for the residents of an area. Although jobs will be created in Oakland, Oakland residents would not necessarily get most of the jobs created at the NMCO site. The type of uses which would ultimately locate at the NMCO site would determine the type of qualifications and experience required of employees. Some uses, such as research and technology, may attract people from the larger San Francisco Bay Area while retail jobs may attract more local residents. This attraction pattern is common for such facilities regardless of where they may locate.

The impact analysis quantifies only those long-term jobs that would be directly generated by the alternatives on site. Indirect jobs would also be generated but are not likely to be contained within the City of Oakland or Alameda County. For this reason, indirect jobs are not likely to have significant impacts on the region of influence, and are not analyzed.

4.2.1 Significance Criteria

The significance of socioeconomic impacts is relative to the economic characteristics of the geographic area and the time period being evaluated. For this analysis, all four reuse alternatives are compared to the closed NMCO facility (see Table 4-2). In evaluating the relative impact of one alternative over another, the more numerous the jobs generated, the more beneficial the impact. Regional changes in population and housing are considered neither beneficial nor adverse impacts. These changes reflect the normal range of fluctuations in population and housing. Population and housing can change in response to several changes in the regional economy. For example, large scale residential projects can attract construction workers in a rapidly growing area, or the entry of a large firm into a city can attract workers at all levels of skill and education. Depending on these trends, both regionally and locally, people move to respond to job opportunities.

Population and housing in a given area can result in beneficial or adverse impacts to the extent that such changes would be expected to result in environmental and socioeconomic effects. However, increasing population in and of itself is not an environmental effect. For example, additional housing may be deemed positive by the children of long-time residents who would like to stay in the area. However, for landlords who would like to

Table 4-2 Summary of Land Uses and Employment Generation by Alternative

		WATER THE		Alternative	S	WE HAVE TO CHANGE A TOP OF
Land Uses	Unit of Measure	Maximum Capacity	Mixed Use Village	Single Use Campus	Residential	No Action
Neighborhood Retail	sq ft	-	65,000	22,000	39,000	
Educational campus ¹	sq ft	-	-	762,000	-	
Cultural/meeting facilities	sq ft .	-	59,000	-	- [-
Research & development	sq ft.		261,000	-	- 1	-
Mixed use ²	sq ft	500,000	300,000	-	-	_
Housing	units	584	90	(see note 2)	357 or 600	-
Executive golf course	acres	54	-	· _		-
Active recreation	sq ft	44,000	44,000	44,000	44,000	-
Open space	acres	32	86	101	46	-
Total Acres ³	acres	· 183	183	183	183	183
Total Built Area	sq ft	544,000	729,000	828,000	83,000	529,200
Total Housing Units	units	584	90	-	357 or 600	-
Total Employment		717	1,140	1,150	170 or 190	8 (estimated)

¹ The Single Use Campus Alternative is not limited to educational facilities. Conference center/hotel facility and institutional headquarters are also being considered.

3 See Tables 2-2 (its footnote number 2), 2-3, 2-4, and 2-5 for estimates of areas to be set aside for unbuildable slopes and roads.

Source: Theresa Hughes & Associates 1995; Thomas 1996.

maximize rental prices, additional housing may be perceived as having a negative impact on rental prices and landlords' real estate investments.

In addition, increases in population and housing would be constrained by local planning regulations. In other words, there would only be as much housing built in the area as the General Plan allows. However, population and housing growth could lead to secondary impacts that may be adverse, such as the potential traffic and infrastructure cost improvements that growth may induce.

With respect to recreation and schools, impacts that lead to additional recreational facilities are considered beneficial. Classroom overcrowding constitutes a significant impact on the environment only if the overcrowding results in physical changes to the environment (such as new school construction). Minor changes in annual operating budgets and cash flows (fiscal impacts) are not considered to be environmental impacts and are therefore not discussed in this section.

The Single Use Campus Alternative would include student/guest facility housing but no estimates regarding number of units developed.

Note that under the discussion for each alternative, the level of impact (e.g. significant, nonsignificant, no impact, beneficial) is stated in the first paragraph. The following paragraphs explain why or how a specific conclusion was reached.

Table 4-3 summarizes the impacts on jobs and income, population and housing, schools, and recreational opportunities.

Table 4-3
Summary Of Socioeconomic Impact Determinations

and the second s	NAVY	ACTIONS		ALTER	NATIVES	
IMPACTISSUES	Navy Disposal	No Action Alternative	Maximum Capacity Alternative	Mixed Use Village Alternative	Single Use Campus Alternative	Residential Alternative
Schools (K-12)	0	0	•	•	•	•
Population and housing	0	0	0	0	0	0
Employment and income	0	0	0		0	0
Recreation	0	0	0	0	0	0

LEGEND:

Level of Impact

Significant and not mitigable

Significant and mitigable

= Non significant= None

4.2.2 Navy Disposal

No Impacts

No significant impacts would result from Navy disposal of the NMCO properties since disposal is simply a transfer of title, and is in and of itself not an environmentally disruptive action.

Schools (K-12). Federal disposal would have no impact on student enrollments since it would not involve construction of housing.

Population and Housing. Disposal would not involve construction of housing, it would have no impact on housing demand or population levels.

Regional Economy— Employment and Income. Federal disposal would create minimal additional employment in Alameda County and therefore would have no effect on jobs and regional personal income levels.

Recreation. Federal disposal would result in no change to existing recreation opportunities.

4.2.3 Maximum Capacity Alternative

Significant Impacts

The Maximum Capacity Alternative may have significant and mitigable impacts on schools. All other socioeconomic parameters included in this analysis will not be significantly affected.

Schools (K-12)

Impact 1: A significant and mitigable impact may result from overcrowding in the Oakland Unified School District (OUSD). The Maximum Capacity Alternative would generate 261 students by 2020, assuming full build-out (Table 4-4). This increase would represent less than one percent of the total 1994 Oakland Unified School District (OUSD) enrollment. Since the OUSD has not included the students generated from this alternative in their facilities planning, and since most schools in the OUSD are at or near capacity, the Maximum Capacity Alternative may result in overcrowding, which may, in turn, lead to new school construction.

Table 4-4
Impact on School District Enrollments

		A	ternatives		
	Maximum	Mixed-Use	Single-Use	Resid	ential
	Capacity	Village	Campus ⁴	Option 1	Option 2
No. of new households due to employment ¹ No. of households due to family housing units Gain in households due to alternative	134	214	216	32	36
	584	90	0	357	600
	718	304	216	389	636
Impact on the Oakland Unified School District ^{2,3} Total 1994 OUSD enrollment Percent of total 1994 School District enrollment	261	110 :	79	141	231
	51,594	51,594	51,594	51,594	51,594
	<1%	< 1%	<1%	<1%	<1%
Impact on schools in the Oak Knoll Study Area ^{2,3} Total 1994 Oak Knoll Study Area enrollment Percent of total 1994 School District enrollment	213	33	0	130	218
	2,786	2,786	2,786	2,786	2,786
	8%	1%	0%	5%	8%

Assume that 75 percent of the jobs would attract new residents in the ROI (Alameda County and City of Oakland). Oakland is assumed to receive a quarter of the new households.

3 The estimated impact on OUSD by grade groupings is as follows:

	OUSD	Maximum	Mixed-Use	Single Use		
Estimated Impact on OUSD by Grade Groupings:	Yield Factor	Capacity	Village	Campus	Option 1	Option 2
Grades K-6	0.230	165	70	50	89	146
Grades 7-8	0.054	39	16	12	21	34
Grades 9-12	0.080	57	24	17	31	_51
Total students	0.364	261	110	79	141	231

The Single Use Campus Alternative would include student and/or guest facility housing but no estimates regarding number of units were developed.

Source: OUSD 1996; Economics Research Associates



Estimates based on 0.364 students per household (OUSD 1996). Only the housing units proposed at the NMCO site are included in the analysis of impact to the Oak Knoll CTA. Number could be higher if jobs induce additional housing construction in the area.

The housing units proposed on the NMCO site under this alternative would generate approximately 213 students in the three schools that serve the Oak Knoll area. This increase would represent eight percent of the total 1994 enrollments in the Oak Knoll Study Area schools and may be a significant and mitigable impact if it results in new school construction.

Mitigation 1: Mitigation measures to reduce overcrowding to less than significant levels would include the following: (1) reassigning students among district schools to account for changing population and new development; (2) continuation and expansion of year-round schools; (3) more efficient use of underutilized and/or abandoned school facilities; (4) the addition of portable classrooms; and (5) the busing of students to less crowded schools. If these measures do not reduce overcrowding, OUSD may have to expand existing schools or construct new schools. All of these measures would require varying amounts of funding. If current sources of funding, including the City of Oakland school mitigation fees, increases in property tax and sales tax revenues, and increases in state funding are insufficient to pay for the cost of mitigating overcrowding, the OUSD would formulate and implement specific measures to raise additional funds. Funding sources which may be considered by the OUSD include: adjustments of school mitigation fees on commercial and residential development; (2) the creation of special assessment or Mello Roos districts or annexation to a Community Facilities District; (3) sale of surplus OUSD property; and (4) any other funding mechanism available to the OUSD by state law or local ordinances, including those measures identified in the OUSD's Developer Fee Justification Study (OUSD 1996).

No Impacts

Population and Housing. In the year 2020, under the Maximum Capacity Alternative, the population of Oakland and the ROI would increase by 3,006 persons (Table 4-5).

Population and housing growth is considered neither adverse nor beneficial in and of itself because growth can be perceived either way, depending upon the point of view of the people being considered. For example, prospective home buyers and renters would benefit from additional housing units in the market while landlords might consider additional housing detrimental to their income and property values.

However, population and housing growth could lead to secondary impacts that may be adverse, such as the potential traffic and infrastructure cost improvements that growth may induce growth.



Table 4-5
Analysis of Population Impacts in Oakland and the ROI

	The state of the s	A	lternatives		
Population Impact	Maximum	Mixed Use	Single Use	Resid	ential
	Capacity	Village	Campus ⁵	Option 1 357 D.U.	Option 2 600 D.U.
Jobs in the ROI due to alternative	717	1,140	1,150	170	190
Alternative employees who may be new ROI residents ¹	538	855	863	128	143
Workers' dependents ² Gain in population due to jobs	903 1,441	1,436 2,291	1,449 2,312	$\frac{214}{342}$	239 382
Number of housing units Gain in population due to family housing units	584 1,565	90 241	(see note 5) (see note 5)	357 957	600 1,608
Total change in population due to Alternative	3,006	2,532	2,312	1,299	1,990
Population Impact in Oakland Projected population growth in the City of Oakland between 1995 & 2020 Percentage population change due to alternative as percent of population growth in the City of Oakland ³	21,000 14%	21,000 12%	21,000	21,000	21,000
Propulation Impact in Alameda County Projected population growth in Alameda County between 1995 and 2020	143,972	143,972	143,972	143,972	143,972
Percentage population change due to alternative as percent of population growth in Alameda County ⁴	2%	2%	2%	1%	1%

¹Assumes that 75 percent of jobs would attract new residents in the ROI (Alameda County and City of Oakland).

Increases in population would come primarily from people attracted to live within the ROI because of jobs created as a result of the alternative. Any increase in population would be accommodated by projected or planned increases in housing supply and would stimulate a corresponding level of new housing construction in the ROI (Alameda County).

Since it is difficult to project the number of future employees on the NMCO site who will be new residents in the ROI, it is assumed, based on our professional judgement, that 75 percent of all future employees would



² Average household size for the ROI in 1995 is 2.68 persons per household (employee = 1, dependents = 1.68).

³ Estimates would be lower if more jobs go to existing City of Oakland residents or residents of other cities instead of attracting new residents into the City of Oakland.

^{*} Estimates would be lower if more jobs go to existing Alameda County residents or residents of other counties instead of attracting new residents into Alameda County.

⁵ The Single Use Campus Alternative would include student or guest facility housing but no estimates regarding number of units developed. Source: Association of Bay Area Governments 1995; Economics Research Associates.

be attracted to the ROI for analysis purposes. This assumption implies that the remaining jobs would go to people already living in Alameda County or people living outside Alameda County who are willing to commute to the NMCO site to work.

The 75 percent assumption allows for conservatively analyzing the impact of potentially large population growth in the area. In other words, the 75 percent assumption is probably on the high side but for purposes of estimating environmental impacts, it is better to err on the side that might lead to the identification of adverse impacts (versus erring on the low side) so that mitigation measures can be formulated.

Based on the 75 percent assumption, the ROI would add 1,441 new residents (based on the ROI average of 2.68 persons per household) from jobs created. In addition, the housing units planned on the NMCO site would accommodate another 1,565 residents, for a total of 3,006 new residents in the ROI. When compared to the projected 2020 population, the increase in population as a result of this alternative is quite small, representing a two percent increase to the total ROI population (Table 4-5).

Assuming that 3,006 new residents in the ROI were to live in the City of Oakland, the increase in population due to this alternative would represent approximately 14 percent of the projected population growth in the city between 1995 and 2020.

Regional Economy - Employment and Income. Implementation of the Maximum Capacity Alternative would develop employment-generating land uses creating an estimated 717 jobs in the ROI by 2020 (Table 4-6), a beneficial impact.

Projected job growth for this alternative would increase the 2020 employment projections by less than two percent in Oakland (Table 4-6). The overall increase in job growth in the ROI would be less than one percent. Because regional personal income is closely tied to the change in the number of jobs, it would be affected similarly. That is, regional personal income, which refers to the sum of wages, salaries, and proprietors' income, would increase as regional employment increases. This would be a beneficial impact.

Recreation. Beneficial impacts would result from increased public access to recreational facilities. Under this alternative, 44,000 square feet of active recreation area would be open to the public. An additional 32 acres are designated for open space.



4.2.4 Mixed Use Village Alternative

Significant Impacts

The Mixed Use Village Alternative may have significant and mitigable impacts on schools. All other socioeconomic parameters included in this analysis will not be significantly affected.

Table 4-6 Analysis of Job Impacts in Oakland and the ROI

		Altern	atives	
Job Limpact	Maximum Capacity	Mixed Use Village	Single Use Campus	Residential
Jobs generated by the alternative ¹	717	1,140	1,150	170-190
Job Impact in Oakland	•			. [
Projected job growth in Oakland between 1995 & 2020	54,000	54,000	54,000	54,000
Percentage change in jobs due to the alternative as percent of job growth in Oakland	<2%	2%	2%	<1%
Job Impact in Alameda County				
Projected job growth in Alameda County between 1995 & 2020	257,000	257,000	257,000	257,000
Percentage change in jobs due to the alternative as percent of job growth in Alameda County	<1%	<1%	<1%	<1%

¹ Jobs generated was based on the total jobs presented on Table 4-5 for each alternative.

Source: Association of Bay Area Governments 1995; Economics Research Associates.

Schools (K-12)

Impact 1: A significant and mitigable impact may result from overcrowding in the OUSD. The Mixed Use Village Alternative would generate approximately 110 students by 2020, assuming full build-out (Table 4-4). This increase would represent less than one percent of the total 1994 OUSD enrollment. Since the OUSD has not included the students generated from this alternative in their facilities planning and since most schools in the OUSD are at or near capacity, the Mixed Use Village Alternative could result in overcrowding, which may, in turn, lead to new school construction.

The housing units proposed on the NMCO site under this alternative would generate approximately 33 students in the three schools that serve the Oak

Knoll area. This increase would represent one percent of the total 1994 enrollments in the Oak Knoll Study Area schools and may be a significant and mitigable impact if it results in new school construction.

Mitigation 1: Mitigation measures to reduce overcrowding to less than significant levels would include the following: (1) reassigning students among district schools to account for changing population and new development; (2) continuation and expansion of year-round schools; (3) more efficient use of underutilized and/or abandoned school facilities; (4) the addition of portable classrooms; and (5) the busing of students to less crowded schools. If these measures do not reduce overcrowding, OUSD may have to expand existing schools or construct new schools. All of these measures would require varying amounts of funding. If current sources of funding, including the City of Oakland school mitigation fees, increases in property tax and sales tax revenues, and increases in state funding are insufficient to pay for the cost of mitigating overcrowding, the OUSD would formulate and implement specific measures to raise additional funds. Funding sources which may be considered by the OUSD include: (1) adjustments of school mitigation fees on commercial and residential development; (2) the creation of special assessment or Mello Roos districts or annexation to a Community Facilities District; (3) sale of surplus OUSD property; and (4) any other funding mechanism available to the OUSD by state law or local ordinances, including those measures identified in the OUSD's Developer Fee Justification Study (OUSD 1996).

No Impacts

Population and Housing. In the year 2020, under the Mixed Use Village Alternative, the population in the City of Oakland and the ROI would increase by 2,532 persons (Table 4-5). The population and housing impacts are neither beneficial nor adverse in and of themselves and are the natural consequences of fluctuations in the employment level in the region; that is people follow jobs. Therefore, jobs attract people to move into an area.

Population and housing growth is considered neither adverse nor beneficial in and of itself because growth can be perceived either way, depending upon the point of view of the people being considered. For example, prospective home buyers and renters would benefit from additional housing units in the market while landlords might consider additional housing detrimental to their income and property values.

However, population and housing growth could lead to secondary impacts that may be adverse, such as the potential traffic and infrastructure cost improvements that growth may induce.



Increases in population would come primarily from people attracted to live within the ROI because of jobs created as a result of this alternative. Any increase in population would be accommodated by projected or planned increases in housing supply and would stimulate a corresponding level of new housing construction in the ROI (Alameda County).

Since it is difficult to project the number of future employees on the NMCO site who will be new residents in the ROI, it is assumed that 75 percent of all future employees would be attracted to the ROI for analysis purposes. This assumption implies that the remaining jobs would go to people already residing in Alameda County or people residing outside Alameda County who are willing to commute to the NMCO site to work.

The 75 percent assumption allows for conservatively analyzing the impact of potentially large population growth in the area. In other words, the 75 percent assumption is probably on the high side but for purposes of estimating environmental impacts, it is better to err on the side that might lead to adverse impacts so that mitigation measures could be formulated, particularly for the secondary impacts of growth.

Based on the 75 percent assumption, the ROI would add 2,291 new residents (based on the ROI average of 2.68 persons per household) from jobs created at the NMCO site. In addition, the housing units planned on the NMCO site would accommodate another 241 residents, for a total of 2,532 new residents in the ROI. When compared to the projected year 2020 population, the increase in population as a result of this alternative is small, representing a two percent increase to the total ROI population (Table 4-5).

Assuming that all the new residents (2,532 persons) in the ROI were to live in the City of Oakland, the increase in population due to this alternative would represent approximately 12 percent of the projected population growth in the city between 1995 and 2020. This level of impact is neither adverse nor beneficial as previously explained.

Regional Economy - Employment and Income. Implementation of the Mixed Use Village Alternative would develop employment-generating land uses creating an estimated 1,140 jobs in the ROI by 2020 (Table 4-6). This would be a beneficial impact.

Projected job growth under this alternative would increase the 2020 employment projections by two percent in the City of Oakland (Table 4-6). The overall increase in job growth in the ROI would be less than one percent. Because regional personal income is closely tied to the change in the number of jobs, it would be affected similarly. As regional employment



increases, regional personal income, which is the sum of wages, salaries and proprietors' income, would also increase.

Recreation. Impacts would be beneficial under the Mixed Use Alternative. Like the Maximum Capacity Alternative, 44,000 square feet of active recreation area would be open to the public. An additional 86 acres are designated for open space.

4.2.5 Single Use Campus Alternative

Significant Impacts

The Single Use Campus Alternative may have significant and mitigable impacts on schools. All other socioeconomic parameters included in this analysis will not be significantly affected.

Schools (K-12)

Impact 1: A significant and mitigable impact may result from overcrowding in the OUSD. The Single Use Campus Alternative would generate approximately 79 students by 2020, assuming full build-out (Table 4-4). This increase would represent less than one percent of the total 1994 OUSD enrollment. Since the OUSD has not included the students generated from this alternative in their facilities planning, and since most schools in the OUSD are at or near capacity, the Single Use Campus Alternative could result in overcrowding, which may, in turn, lead to new school construction.

The Single Use Campus Alternative does not propose housing units other than student/guest facilities that would temporarily accommodate guests or students using the on site educational campus. Since the alternative would therefore propose no housing to support full time residents of the area, it would have no impact on schools in the Oak Knoll Study Area (indicated as generating zero (0) students on Table 4-4).

Mitigation 1: Mitigation measures to reduce overcrowding to less than significant levels would include the following: (1) reassigning students among district schools to account for changing population and new development; (2) continuation and expansion of year-round schools; (3) more efficient use of underutilized and/or abandoned school facilities; (4) the addition of portable classrooms; and (5) the busing of students to less crowded schools. If these measures do not reduce overcrowding, OUSD may have to expand existing schools or construct new schools. All of these measures would require varying amounts of funding. If current sources of funding, including the City of Oakland school mitigation fees, increases in



property tax and sales tax revenues, and increases in state funding are insufficient to pay for the cost of mitigating overcrowding, the OUSD would formulate and implement specific measures to raise additional funds. Funding sources which may be considered by the OUSD include: (1) adjustments of school mitigation fees on commercial and residential development; (2) the creation of special assessment or Mello Roos districts or annexation to a Community Facilities District; (3) sale of surplus OUSD property; and (4) any other funding mechanism available to the OUSD by state law or local ordinances, including those measures identified in the OUSD's Developer Fee Justification Study (OUSD 1996).

No Impacts

Population and Housing. In the year 2020, under the Single Use Campus Alternative, the population in the City of Oakland and the ROI would increase by 2,312 persons (Table 4-5). The population and housing impacts are neither beneficial nor adverse in and of themselves and are the natural consequences of fluctuations in the employment level in the region; that is people follow jobs. Therefore, jobs attract people to move into an area.

Population and housing growth is considered neither adverse nor beneficial in and of itself because growth can be perceived either way, depending upon the point of view of the people being considered. For example, prospective home buyers and renters would benefit from additional housing units in the market while landlords might consider additional housing detrimental to their income and property values.

However, population and housing growth could lead to secondary impacts that may be adverse, such as the potential traffic and infrastructure cost improvements that growth may induce.

Increases in population would come primarily from people attracted to live within the ROI because of jobs created as a result of the alternative. Any increase in population would be accommodated by projected or planned increases in housing supply and would stimulate a corresponding level of new housing construction in the ROI (Alameda County).

Since it is difficult to project the number of future employees on the NMCO site who will be new residents in the ROI, it is assumed that 75 percent of all future employees would be attracted to the ROI for analysis purposes. This assumption implies that the remaining jobs would go to people already residing in Alameda County or people residing outside Alameda County who are willing to commute to the NMCO site to work.

The 75 percent assumption allows for conservatively analyzing the impact of potentially large population growth in the area. In other words, the 75 percent assumption is probably on the high side but for purposes of estimating environmental impacts, it is better to err on the side that might lead to adverse impacts so that mitigation measures could be formulated, particularly for the secondary impacts of growth.

Based on the 75 percent assumption, the ROI would add 2,312 new residents (based on the ROI average of 2.68 persons per household) from jobs created at the NMCO site. There are no housing units planned on the NMCO site under this alternative.

When compared to the projected 2020 population, the increase in population as a result of this alternative is quite small, representing a two percent increase to the total ROI population (Table 4-5).

Assuming that all the new residents (2,312 persons) in the ROI were to live in the City of Oakland, the increase in population due to this alternative would represent approximately 11 percent of the projected population growth in the city between 1995 and 2020. This level of impact is neither adverse nor beneficial as previously explained.

Regional Economy - Employment and Income Implementation of the Single Use Campus Alternative would develop employment-generating land uses, creating an estimated 1,150 jobs in the ROI by 2020 (Table 4-6). This would be a beneficial impact.

Projected job growth under this alternative would increase the 2020 employment projections by two percent in the city (Table 4-6). The overall increase in job growth in the ROI would be less than one percent. Because regional personal income is closely tied to the change in the number of jobs, it would be affected similarly. As regional employment increases, regional personal income, which is the sum of wages, salaries and proprietors income, would also increase.

Recreation. Impacts would be beneficial under the Single Use Campus Alternative. Like the Maximum Capacity Alternative, 44,000 square feet of active recreation area would be open to the public. An additional 101 acres are designated for open space.

4.2.6 Residential Alternative

Significant Impacts

The Residential Alternative may have significant and mitigable impacts on schools. All other socioeconomic parameters included in this analysis will not be significantly affected.

Schools (K-12)

Impact 1: A significant and mitigable impact may result from overcrowding in the OUSD. The Residential Alternative would generate approximately 141 to 231 students by the year 2020, assuming full build-out (Table 4-4). This increase would represent less than one percent for both Option 1 and Option 2 of the total 1994 OUSD enrollment. Impact on schools in the Oak Knoll CTA area ranges from 130 to 218 students, or five to eight percent of the area's schools. Since the OUSD has not included the students generated from this alternative in their facilities planning, and since most schools in the OUSD are at or near capacity, the Single Use Campus Alternative could result in overcrowding, which may, in turn, lead to new school construction.

The housing units proposed on the NMCO site under this alternative would generate approximately 130 (Option 1) or 218 (Option 2) students in the three schools that serve the Oak Knoll Study Area. These increases would represent either five percent (Option 1) or nine percent (Option 2) of the total 1994 enrollments in the Oak Knoll Study Area, and would be a significant and mitigable impact if it results in new school construction.

Mitigation 1: Mitigation measures to reduce overcrowding to less than significant levels would include the following: (1) reassigning students among district schools to account for changing population and new development; (2) continuation and expansion of year-round schools; (3) more efficient use of underutilized and/or abandoned school facilities; (4) the addition of portable classrooms; and (5) the busing of students to less crowded schools. If these measures do not reduce overcrowding, OUSD may have to expand existing schools or construct new schools. All of these measures would require varying amounts of funding. If current sources of funding, including the City of Oakland school mitigation fees, increases in property tax and sales tax revenues, and increases in state funding are insufficient to pay for the cost of mitigating overcrowding, the OUSD would formulate and implement specific measures to raise additional funds. Funding sources which may be considered by the OUSD include: (1) adjustments of school mitigation fees on commercial and residential development; (2) the creation of special assessment or Mello Roos districts or annexation to a Community Facilities District; (3) sale of surplus OUSD property; and (4) any other funding mechanism available to the OUSD by state law or local ordinances, including those measures identified in the OUSD's Developer Fee Justification Study (OUSD 1996).

No Impacts

Population and Housing. In the year 2020, under the Residential Alternative, the population in the City of Oakland and the ROI would increase by 1,299 (Option 1) to 1,990 (Option 2) persons. The population and housing impacts are neither beneficial nor adverse in and of themselves and are the natural consequences of fluctuations in the employment level in the region; that is people follow jobs. Therefore, jobs attract people to move into an area.

Population and housing growth is considered neither adverse nor beneficial in and of itself because growth can be perceived either way, depending upon the point of view of the people being considered. For example, prospective home buyers and renters would benefit from additional housing units in the market while landlords might consider additional housing detrimental to their income and property values.

However, population and housing growth could lead to secondary impacts that may be adverse, such as the potential traffic and infrastructure cost improvements that growth may induce.

Increases in population would come primarily from people attracted to live within the ROI because of jobs created as a result of this alternative. Any increase in population would be accommodated by projected or planned increases in housing supply and would stimulate a corresponding level of new housing construction in the ROI (Alameda County).

Since it is difficult to project the number of future employees on the NMCO site who will be new residents in the ROI, it is assumed that 75 percent of all future employees would be attracted to the ROI for analysis purposes. This assumption implies that the remaining jobs would go to people already residing in Alameda County or people residing outside Alameda County who are willing to commute to the NMCO site to work.

The 75 percent assumption allows for conservatively analyzing the impact of potentially large population growth in the area. In other words, the 75 percent assumption is probably on the high side but for purposes of estimating environmental impacts, it is better to err on the side that might lead to adverse impacts so that mitigation measures could be formulated, particularly for the secondary impacts of growth.



Based on the 75 percent assumption, the ROI would add 342 (Option 1) to 382 (Option 2) new residents (based on the ROI average of 2.68 persons per household) from jobs created at the NMCO site. In addition, approximately 357 (Option 1) to 600 (Option 2) housing units are proposed for the NMCO site under this alternative, which would add another 957 (Option 1) to 1,608 (Option 2) residents for a total of 1,299 to 1,990 new residents in the ROI. When compared to the projected 2020 population, the increase in population as a result of this alternative is quite small, representing a one percent increase for both Option 1 and Option 2 to the total ROI population (Table 4-5).

Assuming that all new residents (1,299 to 1,990 persons) in the ROI were to live in the City of Oakland, the increase in population due to this alternative would represent approximately six to 10 percent of the projected population growth in the city between 1995 and 2020.

Regional Economy - Employment and Income. Implementation of the Residential Alternative would develop employment-generating land uses, creating an estimated 170 to 190 jobs in the ROI by 2020 (Table 4-6). This would be a beneficial impact.

Projected job growth with this alternative would increase the 2020 employment projections by less than one percent in the city (Table 4-6). The overall increase in job growth in the ROI would be less than one percent. Because regional personal income is closely tied to the change in the number of jobs, it would be affected similarly. As regional employment increases, regional personal income, which is the sum of wages, salaries and proprietors' income, would also increase.

Recreation. Impacts would be beneficial under the Residential Alternative. Like the Maximum Capacity Alternative, 44,000 square feet of active recreation area would be open to the public. An additional 46 acres are designated for open space.

4.2.7 No Action Alternative

No Impacts

Under caretaker status, there would be minimal employment associated with maintenance. As previously explained under the significance criteria, all the alternatives are being compared to a closed NMCO facility. The No Action Alternative would essentially represent a closed NMCO facility. Only maintenance of the buildings and facilities are planned, and no new construction would occur. Therefore, no additional housing, population, or



employment would be generated and no impacts on any of the socioeconomic parameters discussed in this section would occur.

Schools (K-12). The No Action Alternative would not involve re-occupation of housing units and would not generate jobs on site. Therefore no population growth is expected. The school district would not be affected.

Population and Housing The No Action Alternative would not create additional housing or employment and therefore would have no impact on housing or population.

Regional Economy - Employment and Income. The No Action Alternative would not create additional employment in the ROI compared to a closed NMCO facility. Therefore, this alternative would have no impact.

Recreation. The recreational facilities would remain off limits to the public under the No Action Alternative. This would represent no change compared to a closed NMCO facility.

4.3 PUBLIC SERVICES

This section analyzes impacts to public services. Public services include police, fire, and emergency ambulance services. The region of influence (ROI) for this section includes the City of Oakland, selected because the city will almost certainly be the provider of municipal services following disposal by the Navy. Because the development alternatives would have varying impacts during different states of implementation, impacts are evaluated for the planning, construction, and buildout of each alternative.

4.3.1 Significance Criteria

A project may have a significant impact on public services if it would result in hazardous conditions, emergency response times exceeding city goals; a need for additional facilities, or substantially increased staffing levels. A summary of impacts and their significance is provided in Table 4-7.

Table 4-7
Summary of Public Services Impacts and Significance

	NAVY ACTIONS ALTERNATIVES					
IMPACT ISSUES	Navy Disposal	No Action Alternative	Maximum Capacity Alternative	Mixed Use Village Alternative	Single Use Campus Alternative	Residential Alternative
Increased demand for City of Oakland police services.	0	0	•	•	•	•
Increased demand for City of Oakland fire protection services.	0	0	Φ	•	Φ	Ф
Increased demand for emergency medical services.	0	. 0	0	. ①	Φ.	Φ.

LEGEND:

Level of Impact

Significant and not mitigable

Significant and mitigable

U = Nonsignificant

4.3.2 Navy Disposal

No Impacts

No impacts to public services would result from the Navy disposing of NMCO because disposal is simply a transfer of title, and is in and of itself not an environmentally disruptive action.

4.3.3 Maximum Capacity Alternative

Significant Impacts

Impact 1: A significant and mitigable impact would result from an increase in demand for City of Oakland police services. The impact at the time of buildout of this alternative would be significant because the City of Oakland Police Department has determined that the mix of residential, retail, recreation/golf course and open space areas would require one new full-time police officer working 40 hours per week in Beat 35 to adequately respond and provide coverage at the Naval Medical Center Oakland (NMCO). This determination is based on current crime levels in surrounding areas and a site-specific analysis of the alternative (McMahon 1995). The addition of one City of Oakland police officer represents an increase of less than one percent in the number of sworn officers.

The project would not create hazardous conditions, the need for additional police facilities, or emergency response times exceeding current levels (Hare 1995).

Mitigation 1: The impact of increased demand for one additional police officer could be mitigated by the City of Oakland utilizing general fund money to pay for the new officer. In the event that the general fund is insufficient to pay for the increased demand, an alternative method would be for the site developer, in consultation with the City of Oakland, to explore methods of providing for an additional officer.

Nonsignificant Impacts

Police Protection

The Police Department has indicated that hillside construction zones have historically experienced high crime levels and that a large construction site such as the NMCO site could result in increased demand for police services (Hare 1995). Impacts to police services during planning and construction of this alternative would be minimal because it is assumed that public access to the site would not be allowed until areas are secure and safe for public access. Reduced access would serve to reduce crime levels and the associated need for additional police services during construction.

Fire Protection

No significant impacts to fire protection services would occur under this alternative because the project would not create hazardous conditions, the need for additional fire protection facilities, or emergency response times

exceeding current levels (Baker 1995). Nonsignificant impacts caused by minimal increases on the demand for City of Oakland fire protection services are described below.

Fire services during construction. Impacts to fire protection services would be nonsignificant because the Oakland Fire Department has determined that adequate services to meet the increased demand resulting from this alternative could be provided by existing personnel operating from existing fire stations. These services would primarily be provided by Oakland Fire Station numbers 26 and 21, each of which has the capability to respond to the site within the five minute goal established by the fire department (Baker 1995).

Emergency Ambulance Services. No significant impacts to emergency ambulance services would result from this alternative because the project would not create hazardous conditions, the need for additional ambulance facilities, or emergency response times exceeding current levels (Akers 1995). This alternative would result in increased demand for ambulance services at NMCO. The impact is nonsignificant because the Alameda County Emergency Services District has determined that, based on the proposed development, the increased demand could be met by the current level of service and would not require additional ambulance units (Akers 1995).

Applicable Laws, Regulations, and Standards

Potentially hazardous conditions could result from the need for emergency site access and the need for fire prevention regulations for new construction and vegetation management. Approval of specific development projects at the site would require compliance with the construction and vegetation management regulations for the Oakland Fire Prevention and Protection District and would require Oakland Fire Department approval of emergency access routes on the northeast hillside areas of NMCO. This approval process would assure that hazardous conditions resulting from new development are minimized prior to implementation of the new development.

4.3.4 Mixed Use Village Alternative

Significant Impacts

Impact 1: A significant and mitigable impact would result from an increase in demand for City of Oakland police services. The impact at the time of buildout of this alternative would be significant and mitigable because the City of Oakland Police Department has determined that the mix of residential, retail, and open space areas would require one new full-time



police officer working 40 hours per week in Beat 35 to adequately respond and provide coverage at the NMCO. This determination is based on current crime levels in surrounding areas and a site-specific analysis of the alternative (McMahon 1995). The addition of one City of Oakland police officer represents an increase of less than one percent in the number of sworn officers.

The project would not create hazardous conditions, the need for additional police facilities, or emergency response times exceeding current levels (Hare 1995).

Mitigation 1: The impact of increased demand for one additional police officer could be mitigated by the City of Oakland utilizing general fund money to pay for the new officer. In the event that the general fund is insufficient to pay for the increased demand, an alternative method would be for the site developer, in consultation with the City of Oakland, to explore methods of providing for an additional officer.

Nonsignificant Impacts

Police services during construction. Less than significant impacts due to increased demand for police services would occur during the planning and construction of this alternative. The Police Department has indicated that hillside construction zones have historically experienced high crime levels and that a large construction site such as the NMCO could result in increased demand for police services (Hare 1995). This impact would be less than significant during this period because it is assumed that public access to the site would not be allowed until areas are secure and safe public for access.

Fire Protection. No significant impacts to fire protection services would occur under this alternative because the project would not create hazardous conditions, the need for additional fire protection facilities, or emergency response times exceeding current levels (Baker 1995). As identified for the Maximum Capacity Alternative, nonsignificant impacts due to increased demand for fire protection services would result from this alternative. The impact would be nonsignificant because the fire department has determined that adequate services to meet the increased demand resulting from this alternative could be provided by existing personnel operating from the existing fire stations. Adequate services could be provided by Oakland Fire Station numbers 26 and 21, each of which has the capability to respond to the site within the five minute goal established by the fire department (Baker 1995).

Emergency Ambulance Services. No significant impacts to emergency ambulance services would result from this alternative because the project



would not create hazardous conditions, the need for additional ambulance facilities, or emergency response times exceeding current levels (Akers 1995). As described under the Maximum Capacity Alternative, buildout of this alternative would result in a minimal demand increase to emergency medical services, and this demand increase would constitute a nonsignificant impact.

Applicable Laws, Regulations, and Standards

Potentially hazardous conditions could result from the need for emergency site access and the need for fire prevention regulations for new construction and vegetation management. Approval of specific development projects at the site would require compliance with the construction and vegetation management regulations for the Oakland Fire Prevention and Protection District and would require Oakland Fire Department approval of emergency access routes on the northeast hillside areas of NMCO. This approval process would assure that hazardous conditions resulting from new development are minimized prior to implementation of the new development.

4.3.5 Single Use Campus Alternative

Significant Impacts

Impact 1: A significant and mitigable impact would result from an increase in demand for City of Oakland police services. The impact at the time of buildout of this alternative would be significant and mitigable because the City of Oakland Police Department has determined that the mix of educational campus, retail, and open space areas would require one new full-time police officer to adequately respond and provide coverage at the NMCO. This determination is based on current crime levels in surrounding areas and a site-specific analysis of the alternative (McMahon 1995). The addition of one City of Oakland police officer represents an increase of less than one percent in the number of sworn officers.

The project would not create hazardous conditions, the need for additional police facilities, or emergency response times exceeding current levels (Hare 1995).

Mitigation 1: The impact of increased demand for one additional police officer could be mitigated by the City of Oakland utilizing general fund money to pay for the new officer. In the event that the general fund is insufficient to pay for the increased demand, an alternative method would be for the site developer, in consultation with the City of Oakland, to explore methods of providing for an additional officer. It is foreseeable that private security guards would be used for the type of development described under



this alternative. This would serve to lessen the impacts to new service demands on the Oakland Police Department.

Nonsignificant Impacts

Fire Protection. No significant impacts to fire protection services would occur under this alternative because the project would not create hazardous conditions, the need for additional fire protection facilities, or emergency response times exceeding current levels (Baker 1995). As under the Maximum Capacity Alternative, less than significant impacts due to increased demand for fire protection services would result from this alternative. The impact would be less than significant because the fire department has determined that adequate services to meet the increased demand resulting from this alternative could be provided by existing personnel operating from the existing fire stations. Adequate services could be provided by Oakland Fire Station numbers 26 and 21, each of which has the capability to respond to the site within the five minute goal established by the fire department (Baker 1995).

Emergency Ambulance Services. No significant impacts to emergency ambulance services would result from this alternative because the project would not create hazardous conditions, the need for additional ambulance facilities, or emergency response times exceeding current levels (Akers 1995). As described under the Maximum Capacity Alternative, buildout of this alternative would result in a minimal demand increase to emergency medical services. This demand increase would not constitute a significant impact.

Applicable Laws, Regulations, and Standards

Potentially hazardous conditions could result from the need for emergency site access and the need for fire prevention regulations for new construction and vegetation management. Approval of specific development projects at the site would require compliance with the construction and vegetation management regulations for the Oakland Fire Prevention and Protection District and would require Oakland Fire Department approval of emergency access routes on the northeast hillside areas of NMCO. This approval process would assure that hazardous conditions resulting from new development are minimized prior to implementation of the new development.

4.3.6 Residential Alternative

Significant Impacts

Impact 1: A significant and mitigable impact would result from an increase in demand for City of Oakland police services. Buildout of this alternative would require one new police officer (McMahon 1995). Although Option 2, with 600 residential units, would generate more demand than Option 1, with 357 units, both options would require one additional officer. The addition of one City of Oakland police officer represents an increase of less than one percent in the number of sworn officers.

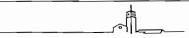
The project would not create hazardous conditions, the need for additional police facilities, or emergency response times exceeding current levels (Hare 1995).

Mitigation 1: The impact of increased demand for one additional police officer could be mitigated by the City of Oakland utilizing general fund money to pay for the new officer. In the event that the general fund is insufficient to pay for the increased demand, an alternative method would be for the site developer, in consultation with the City of Oakland, to explore methods of providing for an additional officer.

Nonsignificant Impacts

Nonsignificant impacts due to increased demand for police services would also occur during the planning and construction of this alternative. The Police Department has indicated that hillside construction zones have historically experienced high crime levels and that a large construction site such as the NMCO could result in increased demand for police services (Hare 1995). This impact would be nonsignificant during this period because it is assumed that public access to the site would not be allowed until areas are secure and safe for public access.

Fire Protection. No significant impacts to fire protection services would occur under this alternative because the project would not create hazardous conditions, the need for additional fire protection facilities, or emergency response times exceeding current levels (Baker 1995). As under the Maximum Capacity Alternative, nonsignificant impacts due to increased demand for fire protection services would result from this alternative. The impact would be nonsignificant because the fire department has determined that adequate services to meet the increased demand resulting from this alternative could be provided by existing personnel operating from the existing fire stations. Adequate services could be provided by Oakland Fire Station numbers 26 and 21, each of which has the capability to respond to



the site within the five minute goal established by the fire department (Baker 1995).

Emergency Ambulance Services. No significant impacts to emergency ambulance services would result from this alternative because the project would not create hazardous conditions, the need for additional ambulance facilities, or emergency response times exceeding current levels (Akers 1995). As described under the Maximum Capacity Alternative, buildout of this alternative would result in a minimal demand increase to emergency medical services, and this demand increase would not constitute a significant impact.

Applicable Laws, Regulations, and Standards

Potentially hazardous conditions could result from the need for emergency site access and the need for fire prevention regulations for new construction and vegetation management. Approval of specific development projects at the site would require compliance with the construction and vegetation management regulations for the Oakland Fire Prevention and Protection District and would require Oakland Fire Department approval of emergency access routes on the northeast hillside areas of NMCO. This approval process would assure that hazardous conditions resulting from new development are minimized prior to implementation of the new development.

4.3.7 No Action Alternative

No Impacts

Under the No Action Alternative, the Navy would continue to have responsibility for NMCO public services and would provide adequate police, fire, and emergency services to support caretaker activities at the site unless jurisdiction is changed (retroceded). Until jurisdiction is changed, Oakland Police Department actions on NMCO are limited to continuing active pursuit of persons from outside the boundaries of NMCO. Public services other than police may be provided by Navy personnel or may be contracted to qualified public or private providers. However, unless jurisdiction is changed, police services may only be provided by federal officers.

The Navy will provide one fire engine company at the NMCO site until jurisdiction is retroceded. That company will consist of one pumper truck with a four-person compliment. The extent of fire protection and prevention services may also include:



- Fire inspection of leased and nonleased buildings;
- Inspection of fixed fire protection features and first aid appliances (fire extinguishers);
- · Issuing of hot work permits for welding and cutting torch operations;
- Coordination with the Public Works Center San Francisco Bay for the maintenance of firefighting water supply systems, fixed protective systems (e.g., sprinklers, alarm systems), and minor repair and maintenance of fixed systems by fire personnel;
- Training briefings for prospective tenants and occupants on the reporting of fires and other emergencies, the use of extinguishers, and alarm activation;
- · Servicing of fire extinguishers; and
- Monitoring of an alarm/dispatch center.

Vegetation will be controlled during caretaker and reuse operations to the extent necessary as required by all applicable laws and regulations. These operations would include fire breaks and weed control.

4.4 CULTURAL RESOURCES

This section analyzes impacts from disposal and reuse to cultural resources. The region of influence for cultural resources is Naval Medical Center Oakland (NMCO) property, because only cultural resources within the boundary of the property would potentially be affected by disposal and reuse of the property. Table 4-8 provides a summary of impact determinations made in this section for Navy disposal and implementation of the reuse alternatives.

Table 4-8 Summary of Cultural Resources Impact Determinations

	NAVY ACTIONS ALTERNATIVES					
IMPACT/ISSUES	Navy Disposal	No Action Alternative	Maximum Capacity Alternative	Mixed Use Village Alternative	Single Use Campus Alternative	Residential Alternative
Archeological resources	0	0	0	0	0	0
Architectural resources	0	0	0	0	0	0
Native American resources	0	0	0	0	0	0

LEGEND:

Level of Impact

Significant and not mitigable

Significant and mitigable

O = Not significant

O = None

4.4.1 Significance Criteria

Impacts to cultural resources have been assessed using the following criteria of significance. Impacts to cultural resources listed on or eligible for the National Register of Historic Places (NRHP) are considered significant. Impacts to buildings, structures, or archeological sites which do not qualify for inclusion in the NRHP are not considered to be significant impacts to cultural resources.

Prehistoric, Historic, World War II and Cold War Era Resources

Impact assessments focus mainly on those properties likely to be eligible for the National Register of Historic Places (NRHP). The NRHP eligibility (i.e., importance) of prehistoric and historic sites is evaluated according to criteria contained in US Department of Interior regulations (Code of Federal Regulations 1987d, 36 CFR § 60.4). The quality of significance is present in districts, sites, buildings, structures, and objects that possess integrity and that:

- Are associated with events that have made a significant contribution to the broad patterns of history;
- Are associated with the lives of persons significant in history;
- Embody the distinctive characteristics of a type, period, or method of
 construction, or that represent the work of an acknowledged master, or
 that possess high artistic values, or that represent a significant and
 distinguishable entity whose components may lack individual
 distinction; or
- Have yielded, or may be likely to yield, information important in prehistory (i.e. before written records, or about the 1600's) or history (after written records).

The evaluation of resources with regard to these criteria is accomplished through consultation with the State Historic Preservation Office and Advisory Council on Historic Preservation in accordance with the National Historic Preservation Act (NHPA).

Criteria for impacts to cultural resources are based on §800.9 of the NHPA (Criteria of Effect and Adverse Effect). Potential impacts to cultural resources are considered significant if the proposed development alternative diminishes the integrity or alters the characteristics of the NRHP-eligible property.

Native American Resources

Impact significance criteria for Native American resources focuses on the importance of the individual resource type, the proximity, or nearness, of impact areas to the resource type, if present, and the likely duration, or length of time, that impacts to Native American resources could occur.

Impacts on Native American resources would be considered significant if professional judgment indicates that either of the following conditions could occur as a result of the proposed development alternative:

- Implementation of the alternative has the potential to affect sites important for their position in the Native American physical universe or belief system; or
- Implementation of the alternative has the possibility to reduce access to traditional Native American use areas or sacred sites.

4.4.2 Navy Disposal

No Impacts

The Navy property disposal will have no impact on cultural resources listed on or eligible for the NRHP because no such resources are present at NMCO. Future owners will be advised at the time of transfer regarding applicable regulations should previously unknown subsurface cultural resources be discovered during reuse activities.

4.4.3 Maximum Capacity Alternative

No Impacts

Implementation of the Maximum Capacity Alternative will have no impact on cultural resources listed on or eligible for the NRHP because no such resources are present at NMCO. Future owners will be advised at the time of transfer regarding applicable regulations should previously unknown subsurface cultural resources be discovered during reuse activities. Although not eligible for the NRHP, Club Knoll is proposed for preservation and reuse by the public under this alternative.

4.4.4 Mixed Use Village Alternative

No Impacts

Implementation of the Mixed Use Village Alternative will have no impact on cultural resources listed on or eligible for the NRHP because no such resources are present at NMCO. Future owners will be advised at the time of transfer regarding applicable regulations should previously unknown subsurface cultural resources be discovered during reuse activities. Although not eligible for the NRHP, Club Knoll is proposed for preservation and reuse by the public under this alternative.

4.4.5 Single Use Campus Alternative

No Impacts

Implementation of the Single Use Campus Alternative will have no impact on cultural resources listed on or eligible for the NRHP because no such resources are present at NMCO. Future owners will be advised at the time of transfer regarding applicable regulations should previously unknown subsurface cultural resources be discovered during reuse activities. Although not eligible for the NRHP, Club Knoll is proposed for preservation and reuse by the public under this alternative.

4.4.6 Residential Alternative

No Impacts

Implementation of the Residential Alternative will have no impact on cultural resources listed on or eligible for the NRHP because no such resources are present at NMCO. Future owners will be advised at the time of transfer regarding applicable regulations should previously unknown subsurface cultural resources be discovered during reuse activities. Although not eligible for the NRHP, Club Knoll is proposed for preservation and reuse by the public under this alternative.

4.4.7 No Action Alternative

No Impacts

Implementation of the No Action Alternative will have no impact on cultural resources listed on or eligible for the NRHP because no such resources are present at NMCO. Club Knoll would receive sufficient maintenance in caretaker status so it would not be subject to deterioration.

4.5 AESTHETICS AND SCENIC RESOURCES

This section describes impacts to aesthetics and scenic resources. The analysis focuses on impacts due to implementation of the reuse alternatives, which are compared to existing visual resources. The region of influence for this analysis includes the Naval Medical Center Oakland (NMCO) site and surrounding areas within the general viewshed of the NMCO site, (i.e., areas that can be seen from, or that have views toward the NMCO). This includes adjacent residential neighborhoods, open space areas of the East Bay Hills (west of the ridge top), the I-580 corridor, and some parts of the greater Bay Area having long-distance views toward the East Bay Hills.

4.5.1 Significance Criteria

Impacts to visual resources were qualitatively evaluated by assessing the potential degree of visual contrast that proposed modifications under each of the alternatives would create with the existing landscape character, in terms of scale, form, line, color, and texture. The analysis addresses visual contrast as seen from viewpoints within the visual/aesthetic region of influence (limited to within five miles of NMCO). An impact is considered significant if it would noticeably increase visual contrast and reduce scenic quality, as seen from any foreground or middleground viewpoint with a high level of sensitivity. Temporary visual effects (defined as lasting one year or less, such as construction effects) are not considered to be significant. Only visual effects that would last beyond construction are considered significant.

A general analysis of visual components and resulting potential visual contrasts of each alternative can be provided at this time. Where necessary, assumptions on the visual character of the project components have been provided for individual alternatives.

Effects on visual contrast and scenic quality are described in terms of impacts on natural landscape features and open space (e.g., hillsides and ridges, creek corridors, and mature landscaped areas) and impacts on the built environment (e.g., hospital area, Club Knoll, and other NMCO facilities and associated paved areas). These impacts can be either adverse (reduction in scenic quality) or beneficial (enhancement of existing scenic qualities).

In addition, significant impacts can arise from changes in the public's availability of opportunities to view scenic resources. A summary of impacts and their significance is provided in Table 4-9.

Table 4-9
Summary of Aesthetics and Scenic Resources Impact Determinations

IMPACT ISSUES	NAVY ACTIONS			137 137 138		
	Navy Disposal	No Action Alternative	Maximum Capacity Alternative	Mixed Use Village Alternative	Single Use Campus Alternative	Residential Alternative (Options 1 and 2)
Visual effect on natural landscapes and open space.	0	0	•	0	. Ф	Ф
Preservation and enhancement of the Rifle Range Creek corridor	0	Ο.	Ф	Φ	Φ,	Ф
Demolition of the hospital building and redevelopment of surrounding areas in the north quadrant	. O	0	Φ	Φ.	Φ.	Ф
Demolition and redevelopment of the west quadrant	0	0	Ф	Φ	Φ	Ф
Preservation of Club Knoll and surroundings	0	0	0	0.	0	0
Development of mixed uses/retail at Mountain Boulevard/Keller		0	0	Ф	Φ	0
Changes in viewing opportunities		0		0	Φ	Ф
Consistency with plan and policies	0	Ö	0		0	0
Light and glare	0	0	O	0	0	0

LEGEND:

Level of Impact

Significant and not mitigable

Significant and mitigable

O = Non significant

O = None

4.5.2 Navy Disposal

No Impacts

Because disposal would not entail any changes to the physical environment, the disposal action would not affect visual resources. Disposal is simply a transfer of title, and is in and of itself not an environmentally disruptive action.

4.5.3 Maximum Capacity Alternative

Significant Impacts

This alternative would potentially introduce significant and mitigable adverse impacts to aesthetic resources with respect to views from new housing in the Admiral's Hill area. No other significant impacts would result to aesthetic resources.



Visual Components of this Alternative. The principal aspects of the Maximum Capacity Alternative that would affect aesthetic and scenic resources include the following:

- Retention of some of the steeper hillsides and knolls in their existing condition, but with construction of 16 ridgetop homes on Admiral's Hill;
- Retention, enhancement, and extension (by approximately 1,200 feet) of the Rifle Range Creek corridor through the site, with substantial removal and revegetation of paved areas (approximately 360,000 square feet);
- Demolition of the hospital building and redevelopment of the area with residential buildings with heights of one- to three-stories, and new landscaping;
- Retention of the Club Knoll area in its existing condition;
- Integration of a golf course with residential development in the northwest quadrant of the site;
- Mixed use development at the Mountain Boulevard gateway, with the assumption that some of the existing trees that screen the site from Mountain Boulevard would be retained; and
- Demolition and redevelopment of the west quadrant with predominantly one- to three-story buildings, with loss of some existing trees, and some retail development along the Keller Avenue frontage.

Impact 1: A significant and mitigable impact would result from visual contrasts due to the introduction of new structures and grading on the crest and northern end of Admiral's Hill, together with potential loss of trees at the northern end. These would be seen in views from NMCO use areas, Keller Avenue, and existing residences to the north, east, and south within foreground and middleground viewing distances. Admiral's Hill forms a prominent scenic feature in the immediate area, and visual contrasts could be augmented by "skylining" of houses (appearance of houses along ridge of hills) in some closer views from the NMCO site.

Mitigation 1: The impact is mitigable to a level that is less than significant through careful siting and design of new construction and minimizing losses of mature trees at the northern end of the hill. Contour grading should be used to minimize cuts and fills. Building design should avoid blank walls, flat roofs, and simple geometric forms which would increase the apparent



scale and contrast of the structures. Buildings on steep slopes should be stepped down to avoid massive (3+) story facades. Design controls on building color, material reflectivity, and fencing should be established to reduce visual contrasts. Landscaping that is consistent with the more natural appearing vegetation on the surrounding hills should be developed to provide some screening and shade for new buildings. It is recommended that a site survey and detailed visual analysis be prepared prior to final design approval in order to identify the appropriate number, location, and design theme of ridgetop buildings, consistent with retaining scenic quality.

Nonsignificant Impacts

Some nonsignificant adverse impacts would result from the loss of "vintage" buildings and mature landscaping in some areas. Beneficial effects are also likely, due to the enhancement of the riparian corridor, removal of existing parking and utilitarian buildings, and provision of public access affording new viewing opportunities, especially those that would result from the integration of the executive golf course.

Preservation and enhancement of the Rifle Range Creek corridor. The development of a landscaped open space area along the restored creek through the center of the project would have a beneficial effect, as seen from on-site and from adjacent elevated residential areas (e.g., Sequoyah Hills and Ridgemont). It is assumed that the landscaping would restore native vegetation along the creek (outside the 50-foot restricted access buffer), with integration to the more formal landscaping of the developed areas on both sides. There would be no adverse visual impacts. A landscape/creek restoration plan should be prepared to ensure that landscape enhancement opportunities are realized, that the design is consistent with the overall NMCO landscape theme and access restrictions recommended along the Rifle Range Creek corridor for biological resources (see Section 4.6.3 of this EIS/EIR).

Demolition of the hospital building and redevelopment of Surrounding Areas in the North Quadrant. Demolition of the hospital building and redevelopment of single family, clustered, and townhouse dwellings in the north quadrant would enhance existing parking lots and open up views on site. Removal of the most dominant and largest scale structure on the site would generally enhance views from on- and off-site to the backdrop of the hills. This would have a beneficial effect on visual quality of the site and surrounding area. The integration of an executive 9-hole golf course may improve the scenic quality of some hillslopes while being consistent with the existing open space landscape form.

Demolition and redevelopment of the west quadrant. The redevelopment of mixed uses in this area would have some beneficial effects on visual, or scenic quality due to the removal of some asphalt parking areas and utilitarian buildings. However, the loss of mature landscape trees and construction of new buildings would lead to adverse but nonsignificant impacts, particularly in views from residences at higher elevations in the Sequoyah Hills/Oak Knoll area. The development of commercial neighborhood retail buildings, parking, and signage would introduce a new visual character to a short area of frontage along Keller Avenue, visible from the residential development across the street. While different from the existing undeveloped character of the site in that location, it is assumed to be compatible in architectural design and landscape treatment with the nearby existing residential and proposed mixed use development. Depending upon the design, some minor view blockage towards the hills to the east could be experienced for drivers along Keller Avenue eastbound, for a distance of approximately 1,000 feet. This is not considered a significant impact on sensitive viewpoints because the level of visual contrast of its high level of compatibility with surrounding structure design landscape treatment with the nearby existing residential and proposed mixed use development.

No Impacts

Preservation of Club Knoll and Surroundings. The retention of these landscape features would lead to no impacts.

Development of mixed uses at Mountain Boulevard. The development of new buildings, associated signs, and parking in this area would increase development density at the entry to the site. However, the retention of existing vegetation as a buffer and a more unified design theme for new construction would lead to a negligible change in scenic quality overall, or no impacts. The integration of the golf course would further soften visual impacts by providing a relatively relaxed backdrop to immediate visual impacts and reducing even further any adverse scenic quality aspects of these developments.

Changes in viewing opportunities. The provision of public access to new viewing locations with some panoramic views of high visual interest represents a beneficial impact. The principal locations that could potentially offer these views to the public include Admiral's Hill and the helipad area. In addition, views from the expanded trail system would increase viewing opportunities.

Light and Glare. Evaluation of potential light and glare problems requires detailed lighting system design plans. These plans are seldom developed prior to the drafting of detailed construction design plans. Since detailed

design plans are not available, this EIS/EIR does not provide such an analysis. None of the land uses can be readily identified as capable of causing significant light and glare problems. Any land uses that propose to use high intensity outdoor lighting should be reviewed by the City of Oakland prior to issuance of building permits to ensure proper design and shielding of outdoor lighting. Particular attention should be given to nighttime recreational activities often requiring such lighting, including but not limited to ball fields, the golf course driving range, or similar uses.

Consistency with Plans and Policies

While the housing on Admiral's Hill may be visible from scenic highways (I-580 and Skyline Boulevard), the middleground viewing distance and limited duration of motorists' views would not result in an appearance that is inharmonious with the surrounding landscape in accordance with city policy 4, described in Section 3.5). It is assumed that new development and signage would be consistent with applicable zoning regulations. Consequently, no conflicts with City of Oakland policies on aesthetics have been identified.

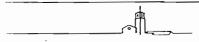
4.5.4 Mixed Use Village Alternative

Nonsignificant Impacts

This alternative would not introduce significant adverse effects to visual resources. The retention of Admiral's Hill in its existing aesthetic and scenic condition as open space would lead to reduced visual impacts as compared with the Maximum Capacity Alternative. However, the Mixed Use Village Alternative provides less dramatic public viewing opportunities due to access restrictions at Admiral's Hill.

Visual Components of this Alternative. This alternative would retain the prominent hillsides in their existing open condition. Similarly, the area and buildings at Club Knoll would be retained. Principal aspects of the visual appearance of this alternative include the following:

- Retention and enhancement/extension of the creek corridor through the site by approximately 1,200 feet, with an adjacent small open area at the edge of the west quadrant created by demolition of existing structures and paved surfaces. There would be slightly more removal and revegetation/landscaping of previously paved areas (approximately 480,000 square feet) than with the Maximum Capacity Alternative;
- Demolition of the hospital building with redevelopment of the area around it as a research and development biotech facility, with unified



architectural treatment, an assumed height of one to two stories, and new landscaping;

- Retail development at the Mountain Boulevard gateway, with the assumption that many of the existing trees that screen the site from Mountain Boulevard would be removed; and
- Demolition and mixed use redevelopment of the west quadrant, with predominantly one- to three-story buildings; it is assumed that some of the existing trees on the site would remain.

Some nonsignificant adverse impacts would result from loss of "vintage" buildings and mature landscaping in some areas due to reduction in scenic quality. Beneficial effects are likely because of enhancement to the riparian corridor, removal of existing parking and utilitarian buildings, and provision of limited public access affording some new scenic quality as viewing opportunities in the western half of the site.

Preservation and enhancement of the Rifle Range Creek corridor. The development of open space along the restored creek would have a beneficial effect on site scenic quality, with retention of the natural landscape. A landscape/creek restoration plan should be prepared to ensure that landscape enhancement opportunities are realized and that the design is consistent with the overall NMCO landscape theme and access restrictions recommended along the Rifle Range Creek corridor for biological resources (see Section 4.6.4 of this EIS/EIR).

Demolition of the hospital building and redevelopment of surrounding areas in the north quadrant. Demolition of the hospital building and redevelopment of a research and development facility in the north quadrant would enhance existing parking lots and open up views on-site. Removal of the most dominant and largest structure on the site would generally enhance views from on- and off-site to the backdrop of the hills. This would have a beneficial effect on visual quality of the site and surrounding area.

Development of retail at Mountain Boulevard. The development of buildings and associated signs and parking in this area would increase development density at the entry area. The main difference between this alternative and the Maximum Capacity Alternative is in the loss of the tree belt along Mountain Boulevard and the more extensive retail frontage in this alternative. The visual effect would be adverse but nonsignificant. New landscape planting and architectural treatment consistent with an NMCO landscape plan would reduce visual impacts to scenic quality.

Demolition and redevelopment of the west quadrant. The redevelopment of mixed uses in this area would have some beneficial effects on visual quality due to the removal of some asphalt parking areas and utilitarian buildings. However, the loss of mature landscape trees and construction of new buildings would lead to adverse but nonsignificant impacts, particularly with respect to the scenic quality of views from residences at higher elevations in the Sequoyah Hills/Oak Knoll area. The adversity of these impacts to local scenic quality could be further reduced by retaining mature specimen trees where possible, and by applying appropriate architectural and landscape design consistent with the overall NMCO landscape character. In the commercial areas in particular, sign and architectural controls are recommended to ensure that the new development fits with the surrounding land uses and prevailing design themes so that the objectives of developers and merchants do not introduce adverse visual impacts that could increase visual contrast or reduce scenic quality to surrounding homeowners.

No Impacts:

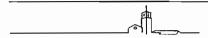
Preservation of Club Knoll and Surroundings. The retention of these landscape features would lead to no impacts.

Changes in viewing opportunities. Limited public access to new viewing locations would be provided. The principal location that could offer these views to the public would be the expanded trail system. The limitations on public access to the eastern half of the site, due to the nature of the biotech facility, could remove some of the more dramatic viewing opportunities from this alternative. Since these views are not currently available to the public, no adverse impact would result and no mitigations are required.

Light and Glare. Evaluation of potential light and glare problems requires detailed lighting system design plans. These plans are seldom developed prior to the drafting of detailed construction design plans. Since detailed design plans are not available, this EIS/EIR does not provide such an analysis. None of the land uses can be readily identified as capable of causing significant light and glare problems. Any land uses that propose to use high intensity outdoor lighting should be reviewed by the City of Oakland prior to issuance of building permits to ensure proper design and shielding of outdoor lighting. Particular attention should be given to nighttime recreational activities often requiring such lighting, including but not limited to ball fields, the golf course driving range, or similar uses.

Consistency with Plans and Policies

No conflicts with existing policies on aesthetics have been identified.



4.5.5 Single Use Campus Alternative

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Nonsignificant Impacts

The Single Use Campus Alternative would introduce no significant adverse aesthetic or scenic effects. The retention of Admiral's Hill as open space would lead to reduced visual impacts as compared with the Maximum Capacity Alternative. The increase in landscaped open space and public viewing opportunities throughout the site would lead to more beneficial impacts than the Mixed Use Village Alternative.

Visual Components of this Alternative. This alternative retains the prominent hillsides in their existing open condition, and retains Club Knoll. Principal aspects of the visual appearance of this alternative include the following:

- Retention and enhancement/extension of the creek corridor through the site by approximately 1,200 feet created by demolition of existing structures and paved surfaces. There would be somewhat more removal and revegetation/landscaping of previously paved areas in the creek corridor (approximately 480,000 square feet) than with the Maximum Capacity Alternative;
- Demolition of the hospital building with redevelopment of the area around it as classrooms, laboratories, and conference facilities with unified architectural treatment, an assumed height of one to two stories, and new landscaping;
- Combinations of student, administration, and related buildings and recreation areas at the Mountain Boulevard gateway. A strip of open space would be left between the buildings and the road, and retention of the existing trees. This strip would partly screen the site from Mountain Boulevard;
- Location of a small neighborhood retail development west of the Keller Avenue entry, requiring some regrading and removal of existing vegetation; and
- Demolition and partial redevelopment of the west quadrant with student/guest facilities and administration buildings, assumed to be predominantly one to three stories high; and a large central area of the lower slopes would be returned to open space, with many existing trees remaining.

Some nonsignificant adverse impacts would result from loss of "vintage" buildings and mature landscaping in some areas. Some beneficial effects are

likely due to the enhancement of the riparian corridor and open space in the west quadrant, demolition of the hospital building, and provision of public access, affording increased viewing opportunities. Improved appearance of several areas is expected where existing parking and utilitarian buildings are removed and replaced with landscaping.

Preservation and enhancement of the Rifle Range Creek corridor. The development of a landscaped open space along the restored creek would have a beneficial effect, as described for the Mixed Use Village Alternative. A landscape/creek restoration plan should be prepared to ensure that landscape enhancement opportunities are realized and that the design is consistent with the overall NMCO landscape theme and access restrictions recommended along the Rifle Range Creek corridor for biological resources (see Section 4.6.5 of this EIS/EIR).

Demolition of the hospital building and redevelopment of surrounding areas in the north quadrant. Demolition of the hospital building and redevelopment of an educational/corporate campus would enhance existing parking lots and would open up views on-site. Removal of the most dominant and largest structure on the site would generally enhance views from on- and off-site to the backdrop of the hills. This would have a beneficial effect on visual quality of the site and surrounding area.

Redevelopment at the entry from Mountain Boulevard. The development of buildings north of the entry and demolition south of it, with a landscaped buffer on the north side, would increase visual quality and consistency with the more natural image of much of the rest of the open space areas.

Retail development near the Keller Avenue entry: The development of commercial neighborhood retail buildings, parking, and signage would introduce a new visual character to a short area of frontage along Keller Avenue, visible from the residential development across the street. While different from the existing undeveloped character of the site in that location, it is assumed to be compatible in architectural design and landscape treatment with the nearby existing residential and proposed campus development. Depending upon the design, some minor view blockage towards the hills to the east could be experienced for drivers along Keller Avenue eastbound, for a distance of approximately 1,000 feet. This is considered a nonsignificant impact on sensitive viewpoints because it does not reduce scenic quality substantially.

Demolition and redevelopment of the west quadrant. The reduction and redevelopment of structures and large increases in open space in this area would have a beneficial effect on visual quality. Assuming that architectural design and massing of new structures is consistent with the character of the



rest of the site, the overall appearance of this area would improve, particularly for views from elevated residences in the adjacent Sequoyah Hills/Oak Knoll area.

Changes in viewing opportunities. The provision of public access to new viewing locations with some panoramic views of high visual interest represents a beneficial impact. This assumes that public access would be granted to the principal locations potentially offering these views to the public (e.g., Admiral's Hill, the area of the helipad, and the trail system).

No Impacts

Preservation of Club Knoll and Surroundings. The retention of these landscape features would lead to no impacts.

Light and Glare. Evaluation of potential light and glare problems requires detailed lighting system design plans. These plans are seldom developed prior to the drafting of detailed construction design plans. Since detailed design plans are not available, this EIS/EIR does not provide such an analysis. None of the land uses can be readily identified as capable of causing significant light and glare problems. Any land uses that propose to use high intensity outdoor lighting should be reviewed by the City of Oakland prior to issuance of building permits to ensure proper design and shielding of outdoor lighting. Particular attention should be given to nighttime recreational activities often requiring such lighting, including but not limited to ball fields, the golf course driving range, or similar uses.

Consistency with Plans and Policies

No conflicts with existing policies or standards on aesthetics have been identified.

4.5.6 Residential Alternative

Nonsignificant Impacts

The Residential Alternative would not introduce significant adverse effects on aesthetic or scenic resources. This alternative is similar in overall effect to the Maximum Capacity Alternative, except without the adverse impacts of development on Admiral's Hill. The Residential Alternative provides less open space and fewer beneficial visual effects than either the Mixed Use Village or Single Use Campus Alternatives.



The alternative contains two options, with residential development of 357 and 600 units, respectively. These would have noticeable differences in density but no major difference in overall scenic quality or visual impact.

Visual Components of this Alternative. This alternative retains the prominent hillsides in their existing open condition and Club Knoll. Principal aspects of the visual appearance of the Residential Alternative (Option 1 - 357 units) include the following:

- Retention, enhancement, and extension by approximately 1,200 feet of the creek corridor through the site, with substantial removal and revegetation of paved areas (approximately 360,000 square feet), forming a relatively narrow corridor through most of the site;
- Demolition of the hospital building and redevelopment of the area with residential buildings with heights of one to two stories (single family homes) and new landscaping;
- Retail development at the Mountain Boulevard gateway, with the assumption that many of the existing trees that screen the site from Mountain Boulevard would be removed; and
- Demolition of existing structures and redevelopment of the west quadrant with predominantly one- to two-story residences, with loss of many existing trees.

Option 2 (600 units) is assumed to occupy the same geographic footprint as Option 1 but with increased density of residential development in the north and west quadrants. This amounts to smaller lots for primarily single family dwellings. Building heights in these areas are assumed to range from one to three stories.

Option 1

Some less than significant adverse impacts would result from loss of "vintage" buildings and mature landscaping in some areas. Beneficial effects are also likely due to the enhancement of the riparian corridor, removal of existing hospital building, parking, and utilitarian buildings, and provision of public access affording new viewing opportunities.

Preservation and enhancement of the Rifle Range Creek corridor. The development of a landscaped open space area along the restored creek through the center of the project would have a beneficial effect, as seen from on-site and from adjacent elevated residential areas (e.g., Sequoyah Hills and Ridgemont) by improving scenic quality. It is assumed that the landscaping



would restore native vegetation along the creek, with integration to the more formal landscaping of the developed areas on both sides. There would be no adverse visual impacts. A landscape/creek restoration plan should be prepared to ensure that landscape enhancement opportunities are realized and that the design is consistent with the overall NMCO landscape theme and access restrictions recommended along the Rifle Range Creek corridor for biological resources (see Section 4.6.6 of this EIS/EIR).

Demolition of the hospital building and redevelopment of surrounding areas in the north quadrant. Demolition of the hospital building and redevelopment of residential dwellings in the north quadrant would enhance existing parking lots and would open up views on-site. Removal of the most dominant and largest structure on the site would generally enhance views from on- and off-site to the backdrop of the hills. This would have a beneficial effect on visual quality of the site and surrounding area.

Development of neighborhood retail at Mountain Boulevard. The development of buildings and associated signs and parking in this area would increase development density at the entry area, although not to the extent of the community retail development proposed for the Mixed Use Village Alternative. As with the Mixed Use Village Alternative, the loss of the tree belt along Mountain Boulevard is likely. The visual effect would be adverse but nonsignificant since no sensitive views of higher scenic quality are affected. Mitigation measures could include retention of existing trees along the Mountain Boulevard frontage where possible. If substantial numbers of trees were removed, mitigation by new landscape planting and increased attention to architectural treatment would be required.

Demolition and redevelopment of the west quadrant. The residential development and associated landscaping in this area would have a beneficial effect on visual quality due to the removal of some asphalt parking areas and utilitarian buildings. However, the loss of mature landscape trees and construction of new buildings would lead to adverse but nonsignificant impacts, particularly in views from residences at higher elevations in the Sequoyah Hills/Oak Knoll area.

Changes in viewing opportunities. The provision of public access to new viewing locations with some panoramic views of high visual interest and quality represents a beneficial impact. The principal locations that could potentially offer these views to the public include Admiral's Hill and the helipad area. In addition, views from the expanded trail system would increase viewing opportunities.

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Option 2

Some less than significant adverse impacts would result from loss of "vintage" buildings and mature landscaping in some areas. Beneficial effects are also likely due to the enhancement of the riparian corridor, removal of existing hospital building, parking, and utilitarian buildings, and provision of public access affording new viewing opportunities.

Visual impacts for this option in the north and west quadrants would be slightly greater than those of Option 1. The potentially increased height of residential development would have negligible effects on view blockage or scenic quality in views from sensitive off-site viewpoints. Within the NMCO site itself, the higher density of residential development would be noticeably different from Option 1, with reduced visibility of the East Bay Hills and surrounding landforms where screened by housing and garden landscaping as this matures. The higher density would also reduce the opportunities to preserve mature trees. However, the resulting visual contrast effects would not be significant because they would be offset by the beneficial effects to the same visual resources through removal of the hospital and creek restoration. The higher densities would still be consistent with the appearance of the surrounding neighborhood.

No Impacts

Preservation of Club Knoll and Surroundings. The retention of these landscape features would lead to no impacts.

Light and Glare. Evaluation of potential light and glare problems requires detailed lighting system design plans. These plans are seldom developed prior to the drafting of detailed construction design plans. Since detailed design plans are not available, this EIS/EIR does not provide such an analysis. None of the land uses can be readily identified as capable of causing significant light and glare problems. Any land uses that propose to use high intensity outdoor lighting should be reviewed by the City of Oakland prior to issuance of building permits to ensure proper design and shielding of outdoor lighting. Particular attention should be given to nighttime recreational activities often requiring such lighting, including but not limited to ball fields, the golf course driving range, or similar uses.

Consistency with Plans and Policies

No conflicts with existing policies on aesthetics have been identified for either option.

4.5.7 No Action Alternative

No Impacts

Preservation of Club Knoll and Surroundings. The retention of these landscape features would lead to no impacts.

There would not be any impacts on visual resources. The No Action (caretaker) Alternative would maintain the site in a condition similar to that which exists today. Some landscape maintenance will continue, including mowing of lawns, tending of the existing gardens and landscaping, maintenance of recreational facilities, and necessary tree removal and landscape cleanup. The visual quality of the NMCO site will be retained. It is assumed that public access would be restricted in the same manner as it is currently.

4.6 BIOLOGICAL RESOURCES

This section analyzes potential impacts on biological resources. The region of influence for biological resources impacts includes the Naval Medical Center Oakland (NMCO) site and surrounding native habitats within a half-mile radius. Much of the existing native habitat at NMCO would be retained under all alternatives.

4.6.1 Significance Criteria

The determination of significant impacts to biological resources includes direct and indirect impacts. Direct impacts are those in which activities reduce or remove a biological resource, such as the results of construction or grading. Indirect impacts could occur when the activity causes other actions that affect biological resources. For example, if more people lived on NMCO and used the riparian (stream corridor) areas for recreation, then indirect impacts to these areas could result from heavier pedestrian use. Indirect impacts may also occur from the introduction of runoff materials into sensitive habitats.

Endangered and Threatened Species

Significance criteria used to measure impacts to biological resources are derived from the legal requirements to protect sensitive species and habitats and from the extent to which that resource elicits concern among natural resource management agencies or scientific authorities. Impacts to biological resources are considered significant if development alternatives result in the loss of any endangered or threatened species (including species proposed for listing), their habitat, migration corridors, or breeding areas. Alternatives resulting in the loss of a substantial number of individuals of any plant or animal species (sensitive or nonsensitive species) that could reduce abundance or diversity of that species beyond normal variability are also considered significant.

Impacts to smaller numbers of other sensitive species that have lesser protections from the U.S. Fish and Wildlife Service and California Department of Fish and Game, such as candidate species with no other protection, California species of special concern, and those on the California Native Plant Society lists would be considered adverse but not significant.

Sensitive Habitats

Significant impacts could result from the measurable degradation of sensitive habitats, including wetlands, other legally protected sensitive habitats, and habitats that could support species listed or proposed for listing under the



federal or state Endangered Species Acts. Substantial disruptions of the Rifle Range Creek corridor would be considered significant impacts and could require project specific mitigation measures. Most native habitat on the facility outside of the Rifle Range Creek riparian area is on slopes of greater than 30 percent that would not be substantially developed under any of the development alternatives.

The NMCO site is within the geographical range of the Alameda whipsnake and is a physically suitable habitat for the whipsnake. The Alameda whipsnake has been found in a variety of chapparal and scrub communities, including chamise chapparal, which is found on the NMCO site.

Due to the small amount of habitat present, the isolation of that habitat by surrounding development, and the fact that no Alameda whipsnakes were captured or observed during the survey, no Alameda whipsnakes are likely to occur at NMCO. Appendix F summarizes the results of that survey.

Nonsensitive Species and Habitats

Populations of plants and animals and the diversity of species within communities fluctuate naturally. Impacts to nonsensitive vegetation and wildlife species and communities at NMCO would not be considered significant unless an action could substantially disturb the ecosystem beyond the normal variability of the species or community. Removal of trees protected under the City of Oakland Tree Ordinance would result in a significant but mitigable impact.

Table 4-10 summarizes impacts to biological resources from the federal disposal of the property, the development alternatives, and the No Action Alternative.

4.6.2 Navy Disparal

No Impacts

The disposal of the NMCO property out of federal ownership would not result in any impacts to sensitive or nonsensitive habitats. It is a transfer of title out of federal ownership and no physical impacts would occur as a result of the transfer. The Navy would no longer own the property, but applicable laws, regulations, and standards would continue to provide their required habitat protections. Nonsensitive species have no legal protection, except under the City of Oakland Tree Ordinance, and also would not be affected by Navy disposal of the property. To meet the requirements of Executive Order 11990, (Protection of Wetlands) the Navy will include a



notification in the property deed that wetlands occur on the property in the riparian (streamside) area.

Table 4-10 Summary of Biological Resources Impact Determinations

	NAVY ACTIONS		ALTERNATIVES			
IMPACT ISSUES	Navy Disposal	No Action Alternative	Maximum Capacity Alternative	Mixed Use Village Alternative	Single Use Campus Alternative	Residential Alternative
Sensitive species	0	0	0	0	0	0
Sensitive habitat	0	0	•	•	•	•
Nonsensitive species and habitats	0	0 .	O ,	() : *	<u> </u>	. •

a = CEQA purposes only.

LEGEND:

Level of Impact

Significant and not mitigable

Significant and mitigable

U = Nonsignificant

O = None

4.6.3 Maximum Capacity Alternative

Significant Impacts

Impact 1: Significant and mitigable impacts could occur if the proposed greenbelt along Rifle Range Creek is not maintained for the entire length of the creek on site. The removal of native vegetation surrounding Rifle Range Creek and its tributaries, including oaks and other native trees, shrubs, and ground cover, would adversely impact the riparian corridor. Direct reuse impacts could occur from the removal of vegetation. Indirect reuse impacts could occur from increased erosion and sedimentation in the creek and its tributaries, adjacent demolition or construction activities, including grading, cutting, filling, and other earth moving that may be needed to accommodate the implementation of this alternative. Impacts also could occur if habitat restoration activities or the building of trails were to adversely affect native vegetation. These impacts would be considered as significant and mitigable through the degradation that would result to sensitive habitats.

Mitigation 1: Avoid the removal of native vegetation within the riparian corridor during demolition, earth moving, construction, habitat restoration, and trail-building activities. Establish a permanent 50-foot wide restricted access buffer zone to protect the Rifle Range Creek corridor. Locate all staging areas in already disturbed sites. A qualified biologist shall develop a detailed habitat restoration plan for restoration activities in Rifle Range

Creek, its tributaries, and the surrounding riparian corridor that includes ongoing maintenance of this buffer zone. This plan, to be prepared by the project applicant prior to construction, should specify all activities necessary to restore the drainage with minimal erosion, and should be supervised by restoration specialists. If some vegetation removal is required, project developers should confer with the City of Oakland and the California Department of Fish and Game regarding the type of vegetation to be removed, the extent of removal, and corresponding revegetation mitigation requirements.

<u>Impact 2</u>: A significant and mitigable impact, for CEQA purposes only, would result from removal of nonsensitive species of trees protected under the City of Oakland Tree Ordinance. Mitigation planning requires more specific site grading and development plans in order to account for the number of trees that could be affected.

Mitigation 2: When a more specific site plan for development (i.e. grading) of the area is presented to the City, a tree removal permit would have to be obtained for any protected trees that are to be removed. The applicant would have to conduct a site-specific survey of which trees would be removed and comply with all other requirements of the ordinance.

Nonsignificant Impacts

No significant impacts are expected to occur from the potential removal of nonsensitive species and habitat on the facility, except for trees protected under the City of Oakland Tree Ordinance. Several of the areas on the facility are densely developed or paved and do not support significant biological resources. Landscaped areas are dominated by nonnative plants that do not provide significant habitat for native wildlife. Nonsensitive species use this remaining habitat only minimally. Much of this habitat is nonnative vegetation, and therefore does not provide the higher food, cover, and nesting values associated with riparian habitats or habitats important for candidate species. The potential removal of such habitat represents a nonsignificant impact in that such removal of nonnative vegetation will not substantially degrade the use of the site by native plant and animal species beyond the ranges of normal variability of use associated with nonsensitive species.

4.6.4 Mixed Use Village Alternative

Significant Impacts

Impact 1: Significant and mitigable impacts could occur if the proposed greenbelt along Rifle Range Creek is not maintained for the entire length of



the creek on site. The removal of native vegetation surrounding Rifle Range Creek and its tributaries, including oaks and other native trees, shrubs, and ground cover, would adversely impact the riparian corridor. Direct reuse impacts could occur from the removal of vegetation. Indirect reuse impacts could occur from increased erosion and sedimentation in the creek and its tributaries, adjacent demolition or construction activities, including grading, cutting, filling, and other earth moving that may be needed to accommodate the implementation of this alternative. Impacts also could occur if habitat restoration activities or the building of trails were to adversely affect native vegetation. These impacts would be considered as significant and mitigable through the degradation that would result to sensitive habitats.

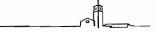
Mitigation 1: Avoid the removal of native vegetation in the riparian corridor during demolition, earth moving, construction, habitat restoration, and trail-building activities. Establish a permanent 50-foot wide restricted access buffer zone to protect the Rifle Range Creek corridor. Locate all staging areas in already disturbed sites. A qualified biologist shall develop a detailed habitat restoration plan for restoration activities in Rifle Range Creek, its tributaries, and the surrounding riparian corridor that includes ongoing maintenance of this buffer zone. This plan, to be prepared by the project applicant prior to construction, should specify all activities necessary to restore the drainage with minimal erosion, and should be supervised by restoration specialists. If some vegetation removal is required, project developers should confer with the City of Oakland and the California Department of Fish and Game regarding the type of vegetation to be removed, the extent of removal, and corresponding revegetation mitigation requirements.

<u>Impact 2</u>: A significant and mitigable impact, for CEQA purposes only, would result from removal of nonsensitive species of trees protected under the City of Oakland Tree Ordinance. Mitigation planning requires more specific site grading and development plans in order to account for the number of trees that could be affected.

Mitigation 2: When a more specific site plan for development (i.e. grading) of the area is presented to the City, a tree removal permit would have to be obtained for any protected trees that are to be removed. The applicant would have to conduct a site-specific survey of which trees would be removed and comply with all other requirements of the ordinance.

Nonsignificant Impacts

No significant impacts are expected to occur from the potential removal of nonsensitive species and habitat on the facility, except for trees protected under the City of Oakland Tree Ordinance. Several of the areas on the



facility are densely developed or paved and do not support significant biological resources. Landscaped areas are dominated by nonnative plants that do not provide significant habitat for native wildlife. Nonsensitive species use this remaining habitat only minimally. Much of this habitat is nonnative vegetation, and therefore does not provide the higher food, cover, and nesting values associated with riparian habitats or habitats important for candidate species. The potential removal of such habitat represents a nonsignificant impact in that such removal of nonnative vegetation will not substantially degrade the use of the site by native plant and animal species beyond the ranges of normal variability of use associated with nonsensitive species.

4.6.5 Single Use Campus Alternative

Significant Impacts

Impact 1: Significant and mitigable impacts could occur if the proposed greenbelt along Rifle Range Creek is not maintained for the entire length of the creek on site. The removal of native vegetation surrounding Rifle Range Creek and its tributaries, including oaks and other native trees, shrubs, and ground cover, would adversely impact the riparian corridor. Direct reuse impacts could occur from the removal of vegetation. Indirect reuse impacts could occur from increased erosion and sedimentation in the creek and its tributaries, adjacent demolition or construction activities, including grading, cutting, filling, and other earth moving that may be needed to accommodate the implementation of this alternative. Impacts also could occur if habitat restoration activities or the building of trails were to adversely affect native vegetation. These impacts would be considered as significant and mitigable through the degradation that would result to sensitive habitats.

Mitigation 1: Avoid the removal of native vegetation in the riparian corridor during demolition, earth moving, construction, habitat restoration, and trail-building activities. Establish a permanent 50-foot wide restricted access buffer zone to protect the Rifle Range Creek corridor. Locate all staging areas in already disturbed sites. A qualified biologist shall develop a detailed habitat restoration plan for restoration activities in Rifle Range Creek, its tributaries, and the surrounding riparian corridor that includes ongoing maintenance of this buffer zone. This plan, to be prepared by the project applicant prior to construction, should specify all activities necessary to restore the drainage with minimal erosion, and should be supervised by restoration specialists. If some vegetation removal is required, project developers should confer with the City of Oakland and the California Department of Fish and Game regarding the type of vegetation to be removed, the extent of removal, and corresponding revegetation mitigation requirements. Subsequent tree removal permits and related surveys may be



required consistent with the City of Oakland Tree Ordinance (Article 6, Section 7-6).

<u>Impact 2</u>: A significant and mitigable impact, for CEQA purposes only, would result from removal of nonsensitive species of trees protected under the City of Oakland Tree Ordinance. Mitigation planning requires more specific site grading and development plans in order to account for the number of trees that could be affected.

Mitigation 2: When a more specific site plan for development (i.e. grading) of the area is presented to the City, a tree removal permit would have to be obtained for any protected trees that are to be removed. The applicant would have to conduct a site-specific survey of which trees would be removed and comply with all other requirements of the ordinance.

Nonsignificant Impacts

No significant impacts are expected to occur from the potential removal of nonsensitive species and habitat on the facility, except for trees protected under the City of Oakland Tree Ordinance. Several of the areas on the facility are densely developed or paved and do not support significant biological resources. Landscaped areas are dominated by nonnative plants that do not provide significant habitat for native wildlife. Nonsensitive species use this remaining habitat only minimally. Much of this habitat is nonnative vegetation, and therefore does not provide the higher food, cover, and nesting values associated with riparian habitats or habitats important for candidate species. The potential removal of such habitat represents a nonsignificant impact in that such removal of nonnative vegetation will not substantially degrade the use of the site by native plant and animal species beyond the ranges of normal variability of use associated with nonsensitive species.

4.6.6 Residential Alternative

Significant Impacts

Impact 1: Significant and mitigable impacts could occur if the proposed greenbelt along Rifle Range Creek is not maintained for the entire length of the creek on site. The removal of native vegetation surrounding Rifle Range Creek and its tributaries, including oaks and other native trees, shrubs, and ground cover, would adversely impact the riparian corridor. Direct reuse impacts could occur from the removal of vegetation. Indirect reuse impacts could occur from increased erosion and sedimentation in the creek and its tributaries, adjacent demolition or construction activities, including grading, cutting, filling, and other earth moving that may be needed to accommodate



the implementation of this alternative. Impacts also could occur if habitat restoration activities or the building of trails were to adversely affect native vegetation. These impacts would be considered as significant and mitigable through the degradation that would result to sensitive habitats.

Mitigation 1: Avoid the removal of native vegetation in the riparian corridor during demolition, earth moving, construction, habitat restoration, and trail-building activities. Establish a permanent 50-foot wide restricted access buffer zone to protect the Rifle Range Creek corridor. Locate all staging areas in already disturbed sites. A qualified biologist shall develop a detailed habitat restoration plan for restoration activities in Rifle Range Creek, its tributaries, and the surrounding riparian corridor that includes ongoing maintenance of this buffer zone. This plan, to be prepared by the project applicant prior to construction, should specify all activities necessary to restore the drainage with minimal erosion, and should be supervised by restoration specialists. If some vegetation removal is required, project developers should confer with the City of Oakland and the California Department of Fish and Game regarding the type of vegetation mitigation requirements.

<u>Impact 2</u>: A significant and mitigable impact, for CEQA purposes only, would result from removal of nonsensitive species of trees protected under the City of Oakland Tree Ordinance. Mitigation planning requires more specific site grading and development plans in order to account for the number of trees that could be affected.

Mitigation 2: When a more specific site plan for development (i.e. gnading) of the area is presented to the City, a tree removal permit would have to be obtained for any protected trees that are to be removed. The applicant would have to conduct a site-specific survey of which trees would be removed and comply with all other requirements of the ordinance.

Nonsignificant Impacts

No significant impacts are expected to occur from the potential removal of nonsensitive species and habitat on the facility, except for trees protected under the City of Oakland Tree Ordinance. Several of the areas on the facility, except for trees protected under the City of Oakland Tree Ordinance. Landscaped areas are dominated by nonnative plants that do not provide significant habitat for native wildlife. Nonsensitive species use this remaining habitat only minimally. Much of this habitat is nonnative vegetation, and therefore does not provide the higher food, cover, and nesting values associated with riparian habitats or habitats important for candidate species. The potential removal of such habitat represents a

nonsignificant impact in that such removal of nonnative vegetation will not substantially degrade the use of the site by native plant and animal species beyond the ranges of normal variability of use associated with nonsensitive species.

4.6.7 No Action Alternative

No Impacts

Under the No Action Alternative, no change would occur to the existing biological resources as described in Section 3.6. Therefore, no impacts would occur to biological resources under this alternative.

Vegetation will be controlled during caretaker and reuse operations to the extent necessary as required by all applicable laws and regulations. These operations would include fire breaks and weed control.

4.6.8 Applicable Laws, Regulations, and Standards

The following is a summary of applicable laws, regulations, and standards that would continue for biological resources once NMCO is transferred out of federal ownership.

The Navy used the Draft EIS/EIR as a biological assessment for purposes of completing federal Endangered Species Act, Section 7 conferences and consultations with the U.S. Fish and Wildlife Service.

Endangered and Threatened Species

A survey for the Alameda whipsnake, a state threatened species proposed for federal endangered status, confirmed that this species did not inhabit the NMCO site.

Riparian Corridor (Rifle Range Creek)

Portions of streamside (riparian) habitat along Rifle Range Creek and its tributaries on NMCO would likely be considered wetlands for purposes of jurisdiction under the Clean Water Act. Should any adverse impacts to wetland areas be anticipated under any of the development alternatives, a formal wetlands delineation would need to be conducted as a basis for assessing impacts to wetlands. Notification of the U.S. Army Corps of Engineers and California Department of Fish and Game would be required, and the need for any permits or mitigation would be determined. Depending on the extent of impacts, the U.S. Army Corps of Engineers and/or California Department of Fish and Game could require the



development of detailed wetlands and sensitive species mitigation plans prior to the issuance of any permits. Under Section 404 of the Clean Water Act, the U.S. Army Corps of Engineers must issue a permit for any action proposing to fill wetlands. The establishment of a 50-foot wide restricted access buffer zone to protect the Rifle Range Creek riparian corridor, consistent with mitigation recommendations for each of the reuse alternatives, would address much of the concerns related to these regulations.

To the fullest extent legally required, the proposed 50-foot wide restricted access corridor for Rifle Range Creek may be expanded, as necessary, to account for the protection of wetlands and important upland drainage areas, as such areas may be affected by subsequent development proposals. Although no upland drainage areas have been identified, subsequent development proposals will need to address this issue if legally required to do so.

Nonsensitive Species and Habitats

The Oakland area contains a variety of plant and animal resources. Urban development can have major impacts on vegetation and wildlife - partly through direct removal of habitat, and also through secondary impacts to habitat associated with soil and water contamination. Nine City of Oakland policies that are relevant to the implementation of any of the development alternatives include the following:

- Under the Oakland Tree Ordinance, protected trees require a permit to be removed. Protected trees include coast live oak larger than four inches and all other trees larger than nine inches in diameter at 4.5 feet above the ground, except Monterey pine and eucalyptus. A permit is also required for the removal of more than five Monterey pines per acre;
- Efforts should be made to perpetuate the full range of plant types and plant communities, and therefore also wildlife variety found in the Oakland area;
- Special attention should be given to the protection of rare and endangered species;
- Where new development occurs, examples of native vegetation should be retained and, where feasible, large sections should be left undisturbed for ecological, educational, and aesthetic benefit. Where appropriate, the development should incorporate a diversity of suitable new plant materials to provide food and shelter for wildlife;



- As much as feasible, wooded tracts of open land should be preserved, with only careful inroads for development allowed;
- The removal of large live trees, wherever they occur, should be avoided for desirable species of trees;
- Extensive tree planting programs should take place in most residential and commercial areas;
- Wildlife and natural vegetation should be protected from the indiscriminate use of dangerous pesticides and herbicides, especially in areas where topography and wind can facilitate the spread of these substances and promote the accidental poisoning of plants and animals; and
- Wherever practicable, landscaping should include the use of native plant species.



4.7 WATER RESOURCES

This section analyzes impacts to water resources. The region of influence considered for water resources includes the Naval Medical Center Oakland (NMCO) property. Under this definition, any off-property impacts that may occur are considered to be indirect or cumulative impacts. Water resources include permanent and ephemeral surface water bodies and ground water.

4.7.1 Significance Criteria

A project may have a significant impact on water resources if it causes substantial flooding or erosion, adversely affects the quality of any significant water body, such as stream, lake, or bay, exposes people to reasonably foreseeable hydrologic hazards, such as flooding, or adversely affects surface or ground water quality or quantity. The 100-year recurrence interval for floodplains is used as the significance criterion for flood impacts. Applicable federal and state water quality laws, regulations, and standards are cited as appropriate. It is assumed that compliance with those laws will be conditions of approval for any of the reuse alternatives. Downstream or other impacts outside the NMCO boundary are considered in the context of cumulative or indirect impacts. Table 4-11 summarizes the impacts and their significance.

Table 4-11 Summary of Water Resources Impact Determinations

	NAVY	ACTIONS		No. of St.		
IMPACT ISSUES	Navy No Action Disposal Alternative		Maximum Capacity Alternative	Mixed Use Village Alternative	Single Use Campus Alternative	Residential Alternative
Substantial flooding, erosion, or degradation of water quality	0	0	Ф	Ф	Ф	0
Local flooding	0	0	Ф	Φ ,	. Ф	Φ
Contaminant spills	0	0	Ф	Ф	Ф	0
Surface water quality	. 0	0.	Φ.	Ф	Ф	. D .

LEGEND:

Level of Impact

Significant and not mitigable

Significant and mitigable

D = Nonsignificant

O = None

4.7.2 Navy Disposal

No Impacts

Disposal is simply a transfer of title, and is in and of itself not an environmentally disruptive action. No water resources impacts will result from this transfer of title.

Applicable Laws, Regulations, and Standards

Ground Water. Depending on how they are constructed and their current condition, the former domestic wells at NMCO may represent an existing or potential conduit for poor quality surface water to enter ground water. According to California Department of Water Resources requirements (California Water Code Section 13751), a well owner must properly abandon wells that are no longer functioning or that have been taken out of service. Alternatively, after an evaluation of their condition and suitability for future use, the existing wells might be reconditioned and placed in service as a potential supplemental water supply, such as for irrigation or fire suppression.

4.7.3 Maximum Capacity Alternative

Nonsignificant Impacts

No significant water resources impacts would result from implementation of the Maximum Capacity Alternative, because no substantial flooding or erosion, adverse impacts to the quality of any significant water body, such as stream, lake, or bay, or exposure of people to reasonably foreseeable hydrologic hazards, such as flooding would occur. Potentially adverse impacts to surface or ground water quality or quantity can be avoided by compliance with applicable laws, regulations, and standards discussed below. Such compliances are assumed to be conditions for approval of this alternative.

Local Flooding. The Maximum Capacity Alternative would result in a reduction in the paved area within the riparian corridor and in several other areas of NMCO compared to the existing conditions. This would probably help to reduce peak storm discharges to Rifle Range Creek because a portion of the incident stormwater would have an opportunity to percolate below the ground surface before reaching the stream.

An accurate estimate of paved areas with each alternative is not available, and is beyond the scope of this program level document. A net decrease in paved surface area is expected with alternatives that allow for increased open



space. The difference in paved surface area under different alternatives is illustrated by Figures 2-5, 2-6, 2-7, and 2-8, showing proposed uses of the site. The increased unpaved surface area may increase storm water retention time on the site, thus potentially reducing peak flows downstream of the site. However, Alameda County runoff volume estimates indicated that the net effect would not be significant enough to increase capacities of additional downstream flood mitigation measures already planned by Alameda County (Saleh 1995). This is because the contribution to downstream flood flows from the watershed in which the NMCO site is located is relatively small compared to contributions of adjacent watersheds.

It is assumed that storm water collection systems for proposed development areas would continue to direct storm water from these areas to the streams. A reduction in peak storm flows in streams would have a beneficial impact downstream (see discussion of cumulative impacts in Chapter 5), but the impact to NMCO would not be significant because none of NMCO is currently within the 100-year floodplain.

Contaminant spills. Construction equipment and operations may result in petroleum hydrocarbon spills and other accidental emissions of pollutants that could enter and contaminate streams. This impact is considered nonsignificant because spill control measures would be addressed in the construction Storm Water Pollution Prevention Plan (SWPPP).

Surface Water Quality. The application of fertilizers, and pesticides and herbicides, needed for establishing and maintaining a golf course could potentially generate periodically high levels of chemicals in runoff that could adversely impact surface water quality if the runoff entered stormwater discharge. Golf courses are not specifically covered by the non-point source NPDES permit requirement. This is not expected to result in a significant adverse impact under modern pesticide and fertilizer management practices, which include minimizing pesticide/herbicide use and limiting applications to the dry season, when the least stormwater runoff occurs. In addition, golf course planning, including operations and maintenance activities involving the use of herbicides, pesticides, fertilizers, or other potentially toxic chemicals capable of entering Rifle Range Creek or its tributaries will be subject to the terms of the SWPPP's prepared for the site. Applicable state and federal laws, regulations, and standards intended to control the volume and timing of nonpoint source pollutants also will apply, including the requirement that certified Pest Control Advisor supervise the formulation of all chemical application rates.

Grading, demolition, and construction of new buildings would result in soil disturbance and increased erosion potential. These impacts would be significant if the eroded sediments were allowed to be carried into Rifle



Range Creek or its tributaries. Along with the potential for significant impacts to water quality because of particulate loading, increased sediment deposition could occur in the channels of creeks on the NMCO property or further downstream, potentially affecting stream capacity.

Applicable Laws, Regulations, and Standards

In order to avoid potential project contributions to the deterioration of stormwater runoff quality in the City of Oakland, the project shall include the preparation and implementation of an adequate SWPPP consistent with National Pollution Discharge Elimination System and Regional Water Quality Control Board requirements. A Construction SWPPP shall be submitted for review and approval by the Regional Water Quality Control Board before the start of construction. Prior to the issuance of grading permits for the project, a letter from the Regional Water Control Board showing approval of the SWPPP is to be submitted to the director of city planning. Requirements in the Construction SWPPP shall be implemented prior to the issuance of building permits for the project.

Activities at certain types of commercial facilities that could be developed under this alternative may have the potential for generating non-point source pollutants that could impact stormwater runoff. Such facilities also would be required to prepare Industrial SWPPPs.

4.7.4 Mixed Use Village Alternative

Nonsignificant Impacts

No significant water resources impacts would result from implementation of the Mixed Use Village Alternative, because no substantial flooding or erosion, adverse impacts to the quality of any significant water body, such as stream, lake, or bay, or exposure of people to reasonably foreseeable hydrologic hazards, such as flooding would occur. Potentially adverse impacts to surface or ground water quality or quantity can be avoided by compliance with applicable laws, regulations, and standards discussed below. Such compliances are assumed to be conditions for approval of this alternative.

Local Flooding. The Mixed Use Village would result in a slight increase in the paved area within the riparian corridor and in several other areas of NMCO compared to the Maximum Capacity Alternative, but still less than existing conditions. This would probably help to reduce peak storm discharges to Rifle Range Creek because a portion of the incident stormwater would have an opportunity to percolate below the ground surface before reaching the stream.



An accurate estimate of paved areas with each alternative is not available, and is beyond the scope of this program level document. A net decrease in paved surface area is expected with alternatives that allow for increased open space. The difference in paved surface area under different alternatives is illustrated by Figures 2-5, 2-6, 2-7, and 2-8, showing proposed uses of the site. The increased unpaved surface area may increase storm water retention time on the site, thus potentially reducing peak flows downstream of the site. However, Alameda County runoff volume estimates indicated that the net effect would not be significant enough to increase capacities of additional downstream flood mitigation measures already planned by Alameda County (Saleh 1995). This is because the contribution to downstream flood flows from the watershed in which the NMCO site is located is relatively small compared to contributions of adjacent watersheds.

It is assumed that storm water collection systems for proposed development areas would continue to direct storm water from these areas to the streams. A reduction in peak storm flows in streams would have a beneficial impact downstream (see discussion of cumulative impacts in Chapter 5), but the impact to NMCO would not be significant because none of NMCO is currently within the 100-year floodplain.

Section 1

Contaminant spills. Construction equipment and operations may result in petroleum hydrocarbon spills and other accidental emissions of pollutants that could enter and contaminate streams. This impact is considered nonsignificant because spill control measures would be addressed in the construction SWPPP. The potential for spills of industrial chemicals would be greater than under the Maximum Capacity Alternative because the Mixed Use Village Alternative features a research and development/biotech facility where industrial chemicals may be used.

Surface Water Quality. Grading, demolition, and construction of new buildings would result in soil disturbance and increased erosion potential. These impacts would be significant if the eroded sediments were allowed to be carried into Rifle Range Creek or its tributaries. Along with the potential for significant impacts to water quality because of particulate loading, increased sediment deposition could occur in the channels of creeks on the NMCO property or further downstream, potentially affecting stream capacity.

Applicable Laws, Regulations, and Standards

In order to avoid potential project contributions to the deterioration of stormwater runoff quality in the City of Oakland, the project shall include the preparation and implementation of an adequate Storm Water Pollution Prevention Plan (SWPPP) consistent with National Pollution Discharge Elimination System and Regional Water Quality Control Board requirements. The SWPPP shall be submitted for review and approval by the Regional Water Quality Control Board before the start of construction. Prior to the issuance of grading permits for the project, a letter from the Regional Water Control Board showing approval of the SWPPP is to be submitted to the director of city planning. Requirements in the SWPPP shall be implemented prior to the issuance of building permits for the project.

4.7.5 Single Use Campus Alternative

Nonsignificant Impacts

No significant water resources impacts would result from implementation of the Single Use Campus Alternative, because no substantial flooding or erosion, adverse impacts to the quality of any significant water body, such as stream, lake, or bay, or exposure of people to reasonably foreseeable hydrologic hazards, such as flooding would occur. Potentially adverse impacts to surface or ground water quality or quantity can be avoided by compliance with applicable laws, regulations, and standards discussed below. Such compliances are assumed to be conditions for approval of this alternative.

Local Flooding. The Single Use Campus Alternative would result in more paved area than the Maximum Capacity Alternative, but a net overall reduction in the paved area within the riparian corridor and in several other areas of NMCO compared to the existing conditions. This would probably help to reduce peak storm discharges to Rifle Range Creek because a portion of the incident stormwater would have an opportunity to percolate below the ground surface before reaching the stream.

An accurate estimate of paved areas with each alternative is not available, and is beyond the scope of this program level document. A net decrease in paved surface area is expected with alternatives that allow for increased open space. The difference in paved surface area under different alternatives is illustrated by Figures 2-5, 2-6, 2-7, and 2-8, showing proposed uses of the site. The increased unpaved surface area may increase storm water retention time on the site, thus potentially reducing peak flows downstream of the site. However, Alameda County runoff volume estimates indicated that the net effect would not be significant enough to increase capacities of additional downstream flood mitigation measures already planned by Alameda County (Saleh 1995). This is because the contribution to downstream flood flows from the watershed in which the NMCO site is located is relatively small compared to contributions of adjacent watersheds.



It is assumed that storm water collection systems for proposed development areas would continue to direct storm water from these areas to the streams. A reduction in peak storm flows in streams would have a beneficial impact downstream (see discussion of cumulative impacts in Chapter 5), but the impact to NMCO would not be significant because none of NMCO is currently within the 100-year floodplain.

Contaminant spills. Construction equipment and operations may result in petroleum hydrocarbon spills and other accidental emissions of pollutants that could enter and contaminate streams. This impact is considered nonsignificant because spill control measures would be addressed in the construction SWPPP's.

Surface Water Quality. Grading, demolition, and construction of new buildings would result in soil disturbance and increased erosion potential. These impacts would be significant if the eroded sediments were allowed to be carried into Rifle Range Creek or its tributaries. Along with the potential for significant impacts to water quality because of particulate loading, increased sediment deposition could occur in the channels of creeks on the NMCO property or further downstream, potentially affecting stream capacity.

Applicable Laws, Regulations, and Standards

In order to avoid potential project contributions to the deterioration of stormwater runoff quality in the City of Oakland, the project shall include the preparation and implementation of an adequate Storm Water Pollution Prevention Plan (SWPPP) consistent with National Pollution Discharge Elimination System and Regional Water Quality Control Board requirements. The SWPPP shall be submitted for review and approval by the Regional Water Quality Control Board before the start of construction. Prior to the issuance of grading permits for the project, a letter from the Regional Water Control Board showing approval of the SWPPP is to be submitted to the director of city planning. Requirements in the SWPPP shall be implemented prior to the issuance of building permits for the project.

4.7.6 Residential Alternative

Nonsignificant Impacts

No significant water resources impacts would result from implementation of the Residential Alternative, because no substantial flooding or erosion, adverse impacts to the quality of any significant water body, such as stream, lake, or bay, or exposure of people to reasonably foreseeable hydrologic hazards, such as flooding would occur. Potentially adverse impacts to surface or ground water quality or quantity can be avoided by compliance with applicable laws, regulations, and standards discussed below. Such compliances are assumed to be conditions for approval of this alternative.

Local Flooding. The Residential Alternative would result in about the same extent of paved area as the Maximum Capacity Alternative, which represents a net overall reduction in the paved area within the riparian corridor and in several other areas of NMCO compared to the existing conditions. This would probably help to reduce peak storm discharges to Rifle Range Creek because a portion of the incident stormwater would have an opportunity to percolate below the ground surface before reaching the stream.

An accurate estimate of paved areas with each alternative is not available, and is beyond the scope of this program level document. A net decrease in paved surface area is expected with alternatives that allow for increased open space. The difference in paved surface area under different alternatives is illustrated by Figures 2-5, 2-6, 2-7, and 2-8, showing proposed uses of the site. The increased unpaved surface area may increase storm water retention time on the site, thus potentially reducing peak flows downstream of the site. However, Alameda County runoff volume estimates indicated that the net effect would not be significant enough to increase capacities of additional downstream flood mitigation measures already planned by Alameda County (Saleh 1995). This is because the contribution to downstream flood flows from the watershed in which the NMCO site is located is relatively small compared to contributions of adjacent watersheds.

It is assumed that storm water collection systems for proposed development areas would continue to direct storm water from these areas to the streams. A reduction in peak storm flows in streams would have a beneficial impact downstream (see discussion of cumulative impacts in Chapter 5), but the impact to NMCO would not be significant because none of NMCO is currently within the 100-year floodplain.

Contaminant spills. Construction equipment and operations may result in petroleum hydrocarbon spills and other accidental emissions of pollutants that could enter and contaminate streams. This impact is considered nonsignificant because spill control measures would be addressed in the construction SWPPP's.

Surface Water Quality. Grading, demolition, and construction of new buildings would result in soil disturbance and increased erosion potential. These impacts would be significant if the eroded sediments were allowed to be carried into Rifle Range Creek or its tributaries. Along with the potential for significant impacts to water quality because of particulate



loading, increased sediment deposition could occur in the channels of creeks on the NMCO property or further downstream, potentially affecting stream capacity. The potential for chemical spills would be minimal in the Residential Alternative. Potential sources would be limited to household chemical use, petroleum hydrocarbons from vehicles on residential streets, and the possible use of industrial chemicals by retail businesses.

Applicable Laws, Regulations, and Standards

In order to avoid potential project contributions to the deterioration of stormwater runoff quality in the City of Oakland, the project shall include the preparation and implementation of an adequate Storm Water Pollution Prevention Plan (SWPPP) consistent with National Pollution Discharge Elimination System and Regional Water Quality Control Board requirements. The SWPPP shall be submitted for review and approval by the Regional Water Quality Control Board before the start of construction. Prior to the issuance of grading permits for the project, a letter from the Regional Water Control Board showing approval of the SWPPP is to be submitted to the director of city planning. Requirements in the SWPPP shall be implemented prior to the issuance of building permits for the project.

4.7.7 No Action Alternative

No Impacts

Under the No Action Alternative there would be no construction activity to create a potential for soil erosion. Only minimal chemical use would occur, which is considerably less than existing conditions. Hence, there would be no impacts to surface water quality.

Applicable Laws, Regulations, and Standards

The potential for impacts to ground water associated with the existing outof-service wells would be less than significant if the wells are abandoned. They would need to be properly sealed and maintained, according to applicable laws, regulations, and standards governing well abandonment.

4.8 GEOLOGY AND SOILS

The region of influence (ROI) for soils and geologic resources includes lands within the property boundaries of the Naval Medical Center Oakland (NMCO) and adjacent contiguous land.

4.8.1 Significance Criteria

A project may result in a significant geologic impact if it increases the likelihood of earthquake damage, loss of mineral resources, slope, and/or foundation instability, erosion, or sedimentation, land subsidence, or other severe problems of a geologic nature. Any physical changes to the property that would increase the likelihood of these events would be considered a significant impact.

For CEQA purposes only, an additional significance criterion is identified. Under the CEQA guidelines, a project that exposes people or structures to a major geologic hazard such as an active earthquake fault is considered a significant impact. No physical change to the environment is required for this environmental impact to be considered significant under CEQA.

Table 4-12 provides a summary of the geologic impacts and their significance.

Table 4-12 Summary of Geologic and Soils Impact Determinations

	NAVY.	ACTIONS	ALTERNATIVES						
IMPACT ISSUES	Navy Disposal	No Action Alternative	Maximum Capacity Alternative	Mixed Use Village Alternative	Single Use Campus Alternative	Residential Alternative			
Public Exposure to Earthquakes	0	0	① ,	① ,	① 1	O .			
Slope stability	. 0	. 0	•	•	•	•			
Differential settlement	0	0	0	Ф	Ф	Ф			
Soil erosion		0 .	Ф	①	Φ	Ф			
Likelihood of Earthquakes	0	0	0	0_	0	. 0			

LEGEND:

Level of Impact

Significant and not mitigable

Significant and mitigable

W = Nonsignificant

O = None

CEQA purposes only

4.8.2 Navy Disposal

No geologic impacts have been identified for disposal of the NMCO property by the Navy, because disposal is simply a transfer of title, and is in and of itself not an environmentally disruptive action.

4.8.3 Maximum Capacity Alternative

Significant Impacts

Public Exposure to Earthquakes

Seismic impacts are public health and welfare concerns of NEPA [40 CFR Part 1504.1 (b)] and CEQA [Cal. Pub. Res. Code § 21000 et. seq; CEQA Guidelines Appx. I, III (b)]. Public safety issues are addressed in this impacts analysis as they separately relate to the Navy's NEPA disposal responsibilities and to the City of Oakland's reuse development responsibilities.

Impact 1: A significant and mitigable impact, for purposes of CEQA only, would result from increasing the number of people and structures near the geologically active Hayward Earthquake Fault by implementing the Maximum Capacity Alternative. Although the physical changes required to implement the Maximum Capacity Alternative will not change the likelihood of an earthquake, increasing the number of people and structures in the vicinity of an active earthquake fault is considered a significant (and mitigable) impact under the CEQA guidelines.

Mitigation 1: At a minimum, seismic upgrades to reduce life safety risks associated with structural failures of the "H-shaped Buildings" (except Building 69 which has already been upgraded), for a moderate-probability earthquake, should be performed prior to reuse to meet life safety criteria. In addition, any existing structures identified for retention for future use should be evaluated in detail to determine the cost-effectiveness of seismic upgrades subject to site-specific dynamic stress conditions, as described in the current California Building Code. Existing utilities needed to support emergency services or utilities whose failure might increase safety hazards, such as natural gas lines, should be evaluated prior to reuse to determine if upgrades are needed to meet existing code requirements.

Slope Stability

<u>Impact 2</u>: Significant and mitigable impacts would result from slope failure under the Maximum Capacity Alternative. The Maximum Capacity Alternative proposes development on most of the remaining land in which



slopes are less than 30 percent, except in the riparian corridor and the open space area at the south end of NMCO. Since most of the areas proposed for future development are already developed, significant and mitigable impacts on slope stability probably would be limited to those areas at the base of steep slopes, where development alters existing drainage conditions, or where new development increases upslope loading.

Mitigation 2: Grading permits from the City of Oakland will be required for site preparation work involving movement of more than five cubic yards of soil or on slopes greater than 20 percent. Compliance with requirements of the grading permit should reduce risks of slope failure in new development areas. Geotechnical investigations should be conducted to identify potential geologic hazards that may affect new building or road sites in potentially vulnerable areas, adjacent to or including slopes greater than 20 percent. Stability of the slope underlain by existing landslide deposits at the north end of the site should be specifically evaluated to identify potential hazards to development in this area. A geotechnical engineer should review design plans and details and other improvement plans to determine whether they are compatible with the geotechnical conditions of the site. A geotechnical engineer and engineering geologist also should inspect site grading and should document placement of engineered fills, stability of cut and fill slopes, and placement of subdrains.

Nonsignificant Impacts

Differential Settlement. Differential settlement (i.e. different rates of settling of soils) of expansive clay soils is a potential concern for building sites in areas underlain by Climara clay on the southwestern side of NMCO, by Bottela loam in the south central portion of NMCO, and by the Los Osos-Millsholm soil complex.

A geotechnical investigation of soils will be conducted at new construction sites where expansive soils may be present. Drainage will be directed away from foundations and roadways. Foundation studies will be undertaken to identify appropriate site specific measures.

Erosion potential. Demolition and construction activities would result in an increased potential for soil loss due to erosion. Soils on many slopes are thin and highly vulnerable to erosion. Soil loss on these slopes would make revegetation difficult. Soil loss is not likely to be a significant impact because development will be confined mostly to areas with less than 30 percent slopes. The potential for soil loss on slopes greater than 30 percent will be reduced by implementing best management practices, including crosscontour earth moving operations whenever possible, the use of inert soil stabilizers (matting, re-seeding, etc.), topsoil stockpiling, seeding, and cross-



contour soil redistribution and revegetation upon the completion of construction. Areas from which pavement and structures are removed, such as along the riparian corridor, may require placement of topsoil and stronger means of stabilization (e.g. matting, hay bales, etc.) until vegetative cover is established.

No Impacts

Likelihood of Earthquakes. The Maximum Capacity Alternative would have no impact on the likelihood, size, or strength of future earthquakes. As described in Section 3.8, NMCO is in a seismically active area, and this would not be changed by implementation of the Maximum Capacity Alternative.

4.8.4 Mixed Use Village Alternative

Significant Impacts

Public Exposure to Earthquakes

Seismic impacts are public health and welfare concerns of NEPA [40 CFR Part 1504.1 (b)] and CEQA [Cal. Pub. Res. Code § 21000 et. seq; CEQA Guidelines Appx. I, III (b)]. Public safety issues are addressed in this impacts analysis as they separately relate to the Navy's NEPA disposal responsibilities and to the City of Oakland's reuse development responsibilities.

Impact 1: A significant and mitigable impact, for purposes of CEQA only, would result from increasing the number of people and structures near the geologically active Hayward Earthquake Fault by implementing the Mixed Use Village Alternative. Although the physical changes required to implement the Mixed Use Village Alternative will not change the likelihood of an earthquake, increasing the number of people and structures in the vicinity of an active earthquake fault is considered a significant (and mitigable) impact under the CEQA guidelines.

Mitigation 1: A detailed, site-specific seismic evaluation should be performed to identify and quantify the potential hazards associated with reuse of existing structures. Because of the proximity of NMCO to the Hayward Fault, all new structures should be designed to meet the site specific seismic design criteria of the California Building Code.



Slope Stability

Impact 2: Significant and mitigable impacts would result from slope failure under the Mixed Use Village Alternative. Impacts would be similar to the Maximum Capacity Alternative, except that no development is planned on the ridgetop in the northern corner of the property, nearest the existing landslide deposits.

Mitigation 2: Mitigation measures are the same as described for the Maximum Capacity Alternative.

Nonsignificant Impacts

Differential Settlement. The potential for differential settlement of expansive clay soil, will be addressed by designing foundation based on site specific geotechnical studies as described for the Maximum Capacity Alternative.

Erosion potential. During demolition and construction activities, there would be a temporary increased but nonsignificant potential for soil loss due to erosion, as described under the Maximum Capacity Alternative. After project buildout, the amount of open space land area will be greater than under the Maximum Capacity Alternative. Some of this newly-created open space may require stabilization to limit soil loss until vegetation is established.

No Impacts

Likelihood of Earthquakes. The Mixed Use Village Alternative would have no impact on the likelihood, size, or strength of future earthquakes. As described in Section 3.8, NMCO is in a seismically active area, and this would not be changed by implementation of the Mixed Use Village Alternative.

4.8.5 Single Use Campus Alternative

Significant Impacts

Public Exposure to Earthquakes

Seismic impacts are public health and welfare concerns of NEPA [40 CFR Part 1504.1 (b)] and CEQA [Cal. Pub. Res. Code § 21000 et. seq; CEQA Guidelines Appx. I, III (b)]. Public safety issues are addressed in this impacts analysis as they separately relate to the Navy's NEPA disposal responsibilities and to the City of Oakland's reuse development responsibilities.



Impact 1: A significant and mitigable impact, for purposes of CEQA only, would result from increasing the number of people and structures present near the geologically active Hayward Earthquake Fault by implementing the Single Use Campus Alternative. Although the physical changes required to implement the Single Use Campus Alternative will not change the likelihood of an earthquake, increasing the number of people and structures in the vicinity of an active earthquake fault is considered a significant (and mitigable) impact under the CEQA guidelines.

Mitigation 1: Mitigation of the seismic impacts would be the same as described under the Mixed Use Village Alternative.

Slope Stability

<u>Impact 2</u>: Significant and mitigable impacts would result from slope failure under the Single Use Campus Alternative. Impacts would be similar to the Maximum Capacity Alternative, except that no development is planned on the ridgetop in the northern corner of the property, nearest the existing landslide deposits.

Mitigation 2: The mitigation measures for this alternative would be the same as described for the Maximum Capacity Alternative.

Nonsignificant Impacts

Differential Settlement. This alternative involves fewer structures than the Maximum Capacity Alternative, and these structures would probably be smaller and lighter than in the Maximum Capacity Alternative. Consequently, the potential for damage to structures from differential settlement will be less. Less of the proposed project area would be located on expansive soils. Building foundations will be designed based on the results of site specific geotechnical studies.

Erosion potential. Since a larger area would be devoted to open space under this alternative, more land area would be subject to erosion by stormwater runoff after project build out than under the Maximum Capacity Alternative. However, because soil erosion must be addressed to prevent impacts to streams (see Section 4.7, Water Resources), the resulting impacts should remain nonsignificant.

No Impacts

Likelihood of Earthquakes. The Single Use Campus Alternative would have no impact on the likelihood, size, or strength of future earthquakes. As described in Section 3.8, NMCO is in a seismically active area, and this



would not be changed by implementation of the Single Use Campus Alternative.

4.8.6 Residential Alternative

Impacts under the Residential Alternative would be similar to the Maximum Capacity Alternative. The Residential Alternative proposes more intensive residential development than the Maximum Capacity Alternative, using more of the available land area on the east side of Rifle Range Creek. However, no development would occur on the ridgetop in the northern corner of NMCO. There would be less commercial/retail development west of Rifle Range Creek, with the result that there would be minimal reuse of existing buildings under this option.

Significant Impacts

Public Exposure to Earthquakes

Seismic impacts are public health and welfare concerns of NEPA [40 CFR Part 1504.1 (b)] and CEQA [Cal. Pub. Res. Code § 21000 et. seq; CEQA Guidelines Appx. I, III (b)]. Public safety issues are addressed in this impacts analysis as they separately relate to the Navy's NEPA disposal responsibilities and to the City of Oakland's reuse development responsibilities.

Impact 1: A significant and mitigable impact, for purposes of CEQA only, would result from increasing the number of people and structures present near the geologically active Hayward Earthquake Fault by implementing the Residential Alternative (Options 1 and 2). Although the physical changes required to implement the Residential Alternative (Options 1 and 2) would not change the likelihood of an earthquake, increasing the number of people and structures in the vicinity of an active earthquake fault is considered a significant (and mitigable) impact under the CEQA guidelines.

Mitigation 1: New housing units would be designed, at a minimum, to meet the requirements of the applicable version of the California Building Code. Because NMCO is located very close to the Hayward Fault and because some of the proposed development would be in areas underlain by thick alluvium, the structures should be designed to account for site specific conditions.

Slope Stability

<u>Impact 2</u>: Significant and mitigable impacts would result from slope failure under the Residential Alternative. The potential for slope failures to impact



developed areas under the Residential Alternative would be similar to the potential for failures under the Maximum Capacity Alternative, except that no development is proposed in the northern corner of the property above the existing landslide deposit identified by Nilsen (1975). The proposed development area corresponds with the area of existing development, so that it is unlikely that slope failure would occur provided that the existing terrain is not severely altered.

Mitigation 2: Mitigation measures under the Residential Alternative would be the same as those identified under the Maximum Capacity Alternative.

Nonsignificant Impacts

Differential Settlement. The Residential Alternative involves the largest number of new structures, and development would cover more of the areas underlain by expansive soils. Building foundations will be designed based on geotechnical studies, as described for the Maximum Capacity Alternative.

The potential for soil loss due to erosion would be similar to the Maximum Capacity Alternative during construction but less than under the Maximum Capacity Alternative after project build-out because more land area would be covered or landscaped over the long-term.

No Impacts

Likelihood of Earthquakes. The Residential Alternative (both options) would have no impact on the likelihood, size, or strength of future earthquakes. As described in Section 3.8, NMCO is in a seismically active area, and this would not be changed by implementation of the Residential Alternative.

4.8.7 No Action Alternative

No Impacts

Under the No Action Alternative seismic impacts to structures or infrastructure from earthquakes or slope failure could still occur. However, the potential for injuries or loss of life would be minimal because only a small caretaker population would be present on NMCO at any given time. Impacts from slope failure may occur, but are not likely because the existing terrain would not be altered.

Reducing the vulnerability of utilities is essential to the caretaker mission. Under the No Action Alternative the Navy will continue to protect utilities sufficiently to maintain essential firefighting services during caretaker status.



4.9 TRAFFIC AND CIRCULATION

This section presents the traffic and circulation analysis of disposal, development alternatives, and the No Action Alternative. Impacts are evaluated based upon their reduction to transportation system capacity (i.e. the amount they can affect traffic and road conditions). The region of influence for traffic and circulation includes regional and local access routes and the Naval Medical Center Oakland (NMCO) street system.

4.9.1 Significance Criteria

Traffic and circulation impacts are identified as significant based on the "level of service," or "LOS" criteria. As the volume of traffic at any intersection affected by a project alternative increases, the "capacity" of that intersection to handle that increased volume (i.e. number of cars per unit time) is affected. As the level of service becomes worse, delays at intersections increase, as described in Section 3.9, Table 3-16. The City of Oakland has identified level of service (LOS) D as the minimum acceptable operating condition for intersections that are already operating at LOS D or better. Thus, a particular reuse alternative would be considered to create a significant impact if the addition of its traffic resulted in a LOS E or F. In addition, if an intersection operating at LOS E were to deteriorate to LOS F, the alternative could be considered to have a significant effect. For any intersection operating at LOS F, an increase in overall intersection delay of four percent or greater is considered to represent a significant impact. These criteria apply only if ten or more vehicles at an intersection are affected. A particular reuse alternative would be considered to create a significant transit impact if addition of project transit demand would result in more anticipated passengers than available seats (i.e., a load factor greater than 1.00) or the project would add length to existing bus routes.

This section assesses the traffic, parking, transit, and pedestrian impacts of each alternative. It provides an impact overview and then a detailed discussion of the impacts of each alternative. Table 4-13 summarizes impacts discussed in this section.

4.9.2 Assumptions and Methodology

Future Transportation Network

Transportation conditions have been analyzed assuming completion of the 98th Avenue Unit III project, which is currently under construction. This project consists of widening and restriping of some segments of 98th Avenue and Golf Links Road from two to four lanes. The project includes the

Table 4-13
Summary of Traffic and Circulation Impacts and Significance

	NAVÝ	ACTIONS	COMMUNITY REUSE ALTERNATIVES						
IMPACT ISSUES	Navy Disposal	No Action Alternative	Maximum Capacity Alternative	Mixed Use Village Alternative	Single Use Campus Alternative	Residential Alternative			
Traffic impacts		Ö	•	•	0	•			
Parking impacts	0	0	Ф	· . ①	Φ.	Ф			
Transit impacts	0	0	Ф	Ф	. Ф	Φ			
Bicycle and pedestrian system impacts	0	0	Φ	Φ.	Φ	Φ			
Consistency with transportation plans and regulations	0	. 0.	Φ	Ф	Ф	(

LEGEND:

Level of Impact

Significant and not mitigable

Significant and mitigable

U = Nonsignificant

) → None

installation of new traffic signals at the intersection of 98th Avenue/Golf Links Road/I-580 southbound off-ramp and the Golf Links Road/I-580 northbound ramps intersection. No other transportation system improvements are assumed to be in place when the alternative is built.

Trip Generation

Preclosure traffic generated by NMCO was removed from the existing traffic volumes. The resulting traffic volume was assumed to represent conditions of the site at closure. The trip generation for each reuse alternative (Table 4-14) was then added to the volume which remained when the NMCO traffic volume was removed. The No Action Alternative would generate about 15 trips during the morning and evening peak hours. Peak hours are those hours, or actually periods of time in the morning and evening when traffic volumes are highest, usually due to a high number of commuters when compared to other periods of the day.

Trip Distribution

The percentage of project trips distributed to area roadways outside the NMCO site are shown in Table 4-15. The trip distribution percentages apply to all alternatives. I-580 accounts for about 75 percent of these trips, with the remaining 25 percent of the trips occurring on portions of 98th and Keller Avenues, Golf Links Road, and Mountain Boulevard. Project trips to

Table 4-14 Total Trip Generation

	Al	M Peak Hot	ır	· · · · · · · · · · · · · · · · · · ·			
Alternative	In (to NMCO)	Out (from NMCO)	Total	In (to NMCO)	Out (from NMCO)	Total	Average Daily Traffic ¹
Preclosure conditions	622	111	733	187	490	677	4,804
Maximum Capacity Alternative	655	388	1,043	671	904	1,575	13,090
Mixed Use Village Alternative	512	164	676	532	806	1,338	10,070
Single Use Campus Alternative	1,558	121	1,679	386	703	1,089	13,840
Residential Alternative (Option 1)	187	289	476	479	408	887	6,815
Residential Alternative (Option 2)	229	408	637	623	486	1,109	8,730
No Action Alternative	10	5	· 15	5	10	15	150

¹See Table 4-31 for details regarding average daily trip calculations.

Source: Standard rates from the Institute of Transportation Engineers (1991, 1995); the San Diego Association of Governments (1991); Theresa Hughes & Associates (1995).

Table 4-15 Trip Distribution

Origin / Destination	Percent of Trips
I-580 north of Keller Avenue	45%
I-580 south of Golf Links Road	30%
98th Avenue west of I-580	12%
Keller Avenue west of I-580	5%
Golf Links Road west of I-580	3%
Mountain Boulevard north of Keller Avenue	3%
Keller Avenue east of Canyon Oaks Drive	2%

Source: The trip distribution rates were developed by Dowling Associates, based on existing traffic patterns and land use distribution within the Bay Area.

and from the east along Keller Avenue were assigned to the Keller Avenue Gate. Traffic to and from I-580 was distributed 80 percent to the main gate at Mountain Boulevard and 20 percent to the Keller Avenue Gate. The distribution was based on consideration of the shortest paths to and from the land area being served.

Linked Trips

Five percent of the automobile trips generated by each alternative were assumed to be linked to another trip within NMCO.

Level of Service Methodology

Analysis of intersection capacity was performed for the twelve study intersections during the AM (morning) and PM (afternoon or evening) peak hours. The methodologies contained in the 1994 Highway Capacity Manual were used to compute levels of service at all study area intersections.

Parking Demand

Estimated parking demand for the proposed action and alternatives was developed from the Parking Generation Manual, produced by the Institute of Transportation Engineers. The parking demand generated by each alternative is summarized in Table 4-16.

Table 4-16 Parking Demand

Alternative	Parking Demand
Maximum Capacity Alternative	2,364
Mixed Use Village Alternative	1,342
Single Use Campus Alternative	1,862
Residential Alternative (Option 1)	740
Residential Alternative (Option 2)	1,010
No Action Alternative	10

Source: Institute of Transportation Engineers, 1987.

Transit Service

Table 4-17 shows the peak hour transit ridership for the NMCO project alternatives based on an assumption that eight percent of total peak hour project trip generation would use transit. The eight percent transit share was obtained from census data documented in the final Reuse Plan for the



Naval Medical Center (OBRA 1996). It was assumed that the alternative reuse plans would generate transit ridership consistent with historic ridership.

Table 4-17
Peak Hour Transit Ridership for Project Alternatives

Project Generated Ridership = 8 percent of Total Trip Generation

	A	M Peak Hour		PM Peak Hour				
Alternative	Lin (to NMCO)	Out (from NMCO)	Total	In (to NMCO)	Out (from NMCO)	Total		
Existing Conditions (preclosure)	50	9~.	59	- 15	39	54		
Maximum Capacity Alternative	53	31	84	54	72	126		
Mixed Use Village Alternative	:41	13	54	-43	64	107		
Single Use Campus Alternative	125	10	135	31	56	. 87		
Residential Alternative (Option 1)	15	23	38.	38	33	71		
Residential Alternative (Option 2)	18	33	51	50	39	89		
No action Alternative	1	0 .	1	0	1	· 1		

Source: Oakland Base Reuse Authority (OBRA). 1996. Final Reuse Plan for the Naval Medical Center, Oakland. August 1996.

Table 4-18 shows the ridership (number of people potentially riding AC Transit) and average load factors for AC Transit service to NMCO for the alternative reuse plans. The analysis has resulted in the following conclusions:

- The existing average load factor (demand/seat capacity) for the transit routes directly serving the NMCO site is 0.28 during the AM peak hour and 0.35 during the PM peak hour.
- Ridership on individual transit routes varies from the average by ± 0.03
 (11 percent) during the AM peak hour, and by ± 0.04 (11 percent)
 during the PM peak hour.
- Implementation of the Maximum Capacity Alternative would increase
 the average load factor to 0.42 during the AM peak hour and 0.58 during
 the PM peak hour. The Maximum Capacity Alternative would generate
 the highest PM peak hour demand of all the reuse alternatives.
- The Single Use Campus Alternative would generate the highest AM peak hour demand of all the reuse alternatives, resulting in an average load factor of 0.51.



Table 4-18
Total Peak Hour Ridership for Project Alternatives

	Section 1	AND TO	LTOTAL SACE	- C.	4865 30 3 5 WO			
		AND FE	k Hour		100 A	riyi Pea	k Hour	
	ď	p			P	Д		
	ish rsh	age dy ishi	age dy olfy	d/ acity	ot rahir	age dy: ishi	age dy city	// cirs
	ide ide	Ner Hou Ride	ver Iou ape	ap	roje	ver lou ide	ver loui	oad ape
	E E	A H R	e G	110	P,	A IF R	A H C	T C
Existing Conditions (preclosure)	59	159	575	0.28	54	188	539	0.35
Maximum Capacity Alternative	84	242	575	0.42	126	313	539	0.58
Mixed Use Village Alternative	54	212	575	0.37	107	294	539	0.55
Single Use Campus Alternative	135	293	575	0.51	87	· 274	539	0.51
Residential Alternative (Option 1)	38	196	575	0.34	71	258	539	0.48
Residential Alternative (Option 2)	51	209	575	0.36	89	276	539	0.51
No action Alternative	1	159	575	0.28	1	188	539	0.35

• The highest load factor for any individual route would be 0.57 (57 percent of seat capacity) for the Single Use Campus Alternative during the AM peak hour and 0.64 (64 percent of seat capacity) for the Maximum Capacity Alternative during the PM peak hour. (These load factors are based on the assumption that, after implementation of reuse alternatives, the load factors for individual transit routes would vary from the average by the same percentage as for preclosure conditions).

Analysis indicates that additional transit service would not need to be provided unless the load factor for any individual route exceeded 1.00 (i.e., demand exceeded the seat capacity). Therefore, none of the reuse alternatives would result in significant transit impacts.

4.9.3 Navy Disposal

No Impacts

Disposal, essentially a transfer of title, would not affect traffic or circulation. Disposal of NMCO would not create any traffic or parking impacts.

4.9.4 Impacts Resulting from the Reuse Alternatives and from the No Action Alternative

All reuse alternatives would add traffic to area roadways. The impacts are generally expected not to be significant except at certain intersections near the project site. All significant impacts can be mitigated without acquisition of additional right of way. Twelve nearby intersections were analyzed for their potential to increase traffic delays (in seconds). Implementation of the Maximum Capacity Alternative would result in significant and mitigable delays at five intersections. Implementation of the Mixed Use Village

Alternative would also result in significant and mitigable delays at five intersections. Implementation of the Single Use Campus Alternative would result in significant and mitigable delays at four intersections. Implementation of the Residential Alternative (Option 1) would result in significant and mitigable delays at two intersections, and implementation of the Residential Alternative (Option 2) would result in significant and mitigable delays at four intersections. Impacts at all of these intersections could be mitigated by installing traffic signals and restriping some lanes. No impacts would result from the No Action Alternative.

4.9.5 Maximum Capacity Alternative

The Maximum Capacity Alternative would generate 1,043 AM peak hour trips, 1,575 PM peak hour trips, and 13,090 average daily trips. The resulting impact of the additional peak hour trips to the transportation network has been determined through calculations of the resulting LOS at the twelve potentially affected intersections serving the project area. A summary of the LOS analysis and potentially significant impacts is shown in Table 4-19.

Reading the Traffic Tables in this Report

In summary, one can look at the large table to identify which intersections may experience significant impacts, and can see how those impacts are determined, and then can look at the shorter "Intersection Operations - Mitigated" tables that follow each of the large tables to see how the significant impacts are mitigated. Tables 4-19, 4-21, 4-23, 4-25, and 4-27 include shaded rows for all intersection locations experiencing significant and mitigable level of service / delay impacts.

Significant Impacts

Impact 1: A significant and mitigable impact would result from a substantial increase in traffic congestion at five project area intersections due to peak hour traffic from the Maximum Capacity Alternative. Traffic congestion is expressed in delays, in seconds. Ranges in delays at the intersections that would have significant and mitigable impacts are estimated as follows by subtracting delays experienced under preclosure conditions (left side of Table 4-19) from delays estimated as the sum of preclosure conditions and delays added by traffic from the Maximum Capacity Alternative (right side of Table 4-19) for each peak hour and affected intersection:

 Keller/I-580 southbound off-ramp would experience project-caused delays ranging from about 19 to 64 seconds;



Table 4-19 Maximum Capacity Alternative Intersection Operations

			_	SCCLION							
		Preclosure Gonditions (with current construction completed*)					Maxim		ive		
	Intersection	Traffic Control		ik Hour Delay ⁱ	PM Pa	k Hour Delay	Traffic Control	AMPe LOS	ak Hour Delay	PMPe LOS	6.00
1.	Keller / I-580 SB off-ramp			· · ·			· · · · · · · · · · · · · · · · · · ·	-			
	southbound	Stop sign.	Mar -	67	F	76	Stop sign	F	862	F	THAT
I THE PROPERTY.	eastbound	Stop sign	F	High	F	High	Stop sign	F	High	F	High
	westbound 1	Stop sign	EE.	7136	Ď	20	Stopsign	\mathbf{F}^{2}	High	\mathbf{F}^2	72
2.	Keller / Mountain Blvd.		- '			-				-	- Taken and a second
	and the second second second	Stop sign	LC.	16.83	Est.	38	Stop sign	E.	31	F2%	59
	southbound	Stop sign	Α	2	A	3	Stop sign	A	2	Α	4
	eastbound	Stop sign	NC.	3712 m	ĕ F	1,5	Stop sign	Do	26	F	Hell's
	westbound	Stop sign	<u>E</u> _	32	В	5	Stop sign	_ E	39	С	11
3.	Mountain Blvd. / I-580 NB on										
	northbound left	None	A	4	A	3	None	В	5	Α	5
·	southbound left	None	, A.	2	· . A	2	None	` A	2	Α	2
	westbound	Stop sign	D	23	C	-13	Stop sign	E ³	38	D	24
4.	Mountain Blvd. / I-580 NB off	XIII		OTHER BETTER SURVEY	THERED MAYOR STREET MAY				CONTRACTOR OF THE SECOND	CONTRACTOR SERVICE	
	Stressbound a series #4. bit	– Stop sign –	e.c.	18	$\mathbb{Z}[D]$	20	Stop sign	ΕŽ	36	F2	High
	westbound	Stop sign	В	5	В	5	Stop sign	В_	6	В	7.
5.	Keller / Canyon Oaks (bk entr)	_	_ `								7
H	northbound	Stop sign	C .	10	В	6	Stop sign	С	14	С	11
	southbound	Stop sign	A	4	Α	3	Stop sign	Α	4	A	3
	eastbound left	None	A	4	A	2	None.	Α	4	A	2
	westbound left	None	A	2	A	3	None	_A_	2	A	3
6.	Mountain Blvd. / Main Entr.		١.		Ι.			_	١.		l .
	southbound left	None	В	5 12	A B	2	None	В	5 38	A	4
	westbound a second	Stop sign	C	調整しと表示	B	37 S 7 7 5 6	Stop sign	E'	32.08	Figur	High
7.	Mountain Blvd. / Golf Links	Stop sign	D.								SECTION .
	northbound =southbound		B	35	E B	19.53	Stop sign	E .	39	F _D	48
	eastbound	Stop sign None	В	7	A	5	Stop sign None	B B	8 5	В	7 3
]	westbound	Stop sign	В	1 6	B	7		C	12	A	9.
8.	Golf Links / I-580 NB ramps		D	26	C	18	Stop sign	· c	20	B,	19
 ° ∙	northbound	Signal	٦ ا	- 26		18	Signal		20		19
1	eastbound left										
9.	Golf Links / 98th Ave.	Signal	С	-21	С	17	Signal	\overline{c}	24	C	18
)	northbound	Jighai	`	.21	`	' '.	Jigilai		27		1.0
	southbound	1									
	eastbound			ł	1						
ł	westbound	, ,		:							
10	98th Ave. / I-580 SB on	7.	:	<u> </u>			· · · · · ·	-	-		
1.0.	northbound left	None	R	6	A	4	None	В	6	A	4
	southbound left	None	В	5	Ċ	10	None	В	5	Ĉ	13
H	eastbound (driveway)	Stop	В	9	В	6	Stop	В	9	В	6.
11.					- 	<u> </u>	Diop.		<u> </u>		, v.
II ***	southbound left	None	A	,	A	,	None	A	2] A-	3
j.:	westbound	Stop sign	B	2 5	Â	. 2	Stop sign	В	5.	В	8
12.		Stop sigit	1.	 	_ A	-	Stop sign	<u> </u>		 	۰
12.	southbound left	None	Α	. ,	A	3	None	_	3 .	. A	3
	westbound	Stop sign	B	2 8	B	6.	Stop sign	A C	12	C	11
<u></u>	westooning	1 200 sign	<u> </u>			<u> </u>	1 Stop sign		12		1 11

¹Delay in seconds.

Note: "High" delay indicates extreme values, which are outside the range of the analysis method (generally more than 100 seconds). Shading indicates location that may experience significant level of service/delay impacts if no mitigation is implemented.

Naval Medical Center Oakland Disposal and Reuse Final EIS/EIR

Indicates significant and mitigable impact.

³Not significant because only four vehicles are affected.

^{*:} Current construction refers to the widening being done on some segments of 98th Avenue and Golf Links Road

- Keller/Mountain Boulevard intersection would experience projectcaused delays ranging from about 7 to 46 seconds;
- Mountain Boulevard/I-580 northbound off-ramp would experience project-caused delays ranging from about 18 to 80 seconds;
- Mountain Boulevard/Main Entrance intersection would experience project-caused delays ranging from about 26 to 91 seconds; and
- Mountain Boulevard/Golf Links Road intersection would experience project-caused delays ranging from about 4 to 29 seconds.

Mitigation 1a: The installation of traffic signals at the above locations along with minor lane changes (restriping) would mitigate the impacts to a level of nonsignificance, as indicated on the right side of Table 4-20:

- Keller/I-580 southbound off-ramp would be mitigated to delays ranging from about 16 to 23 seconds;
- Keller/Mountain Boulevard intersection would be mitigated to delays ranging from about 10 to 12 seconds;
- Mountain Boulevard/I-580 northbound off-ramp would be mitigated to delays ranging from about 12 to 13 seconds;
- Mountain Boulevard/Main Entrance intersection would be mitigated to delays ranging from about 15 to 20 seconds; and
- Mountain Boulevard/Golf Links Road intersection would be mitigated to delays ranging from about 16 to 18 seconds.

Peak hour traffic volumes at the Mountain Boulevard / I-580 northbound off-ramp, the Mountain Boulevard / Main Entrance, and the Mountain Boulevard / Golf Links Road intersections would not warrant (i.e. officially need) a traffic signal (Warrant 11, Caltrans Traffic Manual); however, these intersections would be close to warranting a signal. Signal warrants should be monitored at these locations and traffic signals installed when one or more signal warrants are satisfied. The City of Oakland has no formal policy regarding responsibilities for traffic signal installations. In the event that the city chooses to enter into a development agreement for this alternative, it is assumed that the developer of the alternative will be responsible for a fair share of traffic signal installation costs.

Mitigation 1b: Along with the installation of traffic signals at the Keller Avenue intersections, it would be necessary to restripe the traffic lanes on the Keller Avenue / I-580 overcrossing to provide two lanes eastbound and one lane westbound. This would require reversing the direction of the center lane, which currently serves westbound traffic.

The mitigation measures described above would reduce the traffic impacts to a level of nonsignificance, as shown in Table 4-20.



Table 4-20 Maximum Capacity Alternative Intersection Operations - Mitigated

	Pi	eclosur	e Cond	itions		V	itigated	Cond	tions	
	(with cuit	Section of the second section of the	的一种工作的	AMMENDE SERVICES	leted*)			THE PROPERTY OF THE PARTY OF	Section of English	ive
Intersection	Traffic	AM Pe	k I kur	PM Pe	k Hour	Traffic			PMPe	
	Control	LOS	Ddy'	LOS	'Delay	Control	LOS	Dday	LOS	Delay
1. Keller / I-580 SB off-ramp	-	1. 72			,	Signal	-C	16	С	23
southbound	Stop sign	F	.67	F.	76				İ	·
eastbound	Stop sign	F	High	F	High					
westbound	Stop sign	· E	36	D	20					
2. Keller / Mountain Blvd.						Signal	В	10	В	12
northbound	Stop sign	С	16	E	38					ľ
southbound	Stop sign	À	2 .	` A	.3	1			1	
eastbound	Stop sign	С	19	F	.54					
westbound	Stop sign	E	32	В	5			1	ļ	
4. Mountain Blvd. / I-580 NB off						Signal	В	12 ·	В	13
eastbound	Stop sign	С	18	D	20	l .		l		
westbound .	Stop sign	В	5	B	5			1		
6. Mountain Blvd. / Main Entr.						Signal	С	15	C	20
southbound left	None	В	5	A	2 .					
westbound	Stop sign	l c	12	В	9		ſ			l `
7. Mountain Blvd. / Golf Links						Signal	С	16	С	18
northbound	Stop sign	E .	35	С	19	ľ				
southbound	Stop sign	В	7	В	5					
eastbound	None	В	6	Α	3					
westbound	Stop sign	В	9	В	7					

¹Delay in seconds.

Nonsignificant Impacts

Parking. Future parking demand generated by the proposed land uses would total approximately 2,364 spaces. This alternative would provide adequate parking on-site; therefore, the impact to parking would not be significant.

Transit Service. Some increase in demand for transit services could result from this alternative, NMCO is currently served by AC Transit Lines 56, 46, and NV, and the potential increase in demand should be met by these services. There would be a need to modify the bus routes associated with reconfiguration of the on-site roadway system. This would require coordination with AC Transit but is not expected to require major changes in service. Transit impacts are not expected to be significant.

Bicycle and Pedestrian System Impacts. Reuse of this alternative property could increase the number of pedestrians and bicyclists in the area. The Maximum Capacity Alternative would provide sidewalks and bicycle facilities, according to City of Oakland standards, for all new roadways within the project site. The improved bicycle and pedestrian systems would

^{*:} Current construction refers to the widening being done on some segments of 98th Avenue and Golf Links Road.

accommodate adequately the pedestrian and bicycle traffic generated by this alternative.

Consistency with Transportation Plans and Regulations. The Maximum Capacity Alternative would be consistent with the city's transportation goals and objectives. Two intersections (Keller at the southbound I-580 off-ramp, and Keller at Mountain Boulevard), which currently operate below city standards, would be brought into compliance. Improvements at these two intersections also would comply with Caltrans, Metropolitan Transportation Commission, and U.S. Department of Transportation policies. Regionally critical roadways would not be significantly impacted by this alternative.

4.9.6 Mixed Use Village Alternative

The Mixed Use Village Alternative would generate 676 AM peak hour trips, 1,338 PM peak hour trips, and 10,070 average daily trips. The resulting impact of the additional peak hour trips to the transportation network (i.e. the roads, intersections, parking etc.) has been determined through calculations of the resulting LOS at the twelve critical intersections serving the project area. A summary of the LOS analysis and potentially significant impacts is shown in Table 4-21.

Significant Impacts

Impact 1: A significant and mitigable impact would result from a substantial increase in traffic congestion at five project area intersections due to peak hour traffic from the Mixed Use Village Alternative. Traffic congestion is expressed as delays, in seconds. Ranges in delays at the intersections that would have significant and mitigable impacts are estimated as follows by subtracting delays experienced under preclosure conditions (left side of Table 4-21) from delays estimated as the sum of preclosure conditions and delays added by traffic from the Mixed Use Village Alternative (right side of Table 4-21) for each peak hour and affected intersection:

- Keller/I-580 southbound off-ramp would experience project-caused delays ranging from about 0 to 46 seconds;
- Keller/Mountain Boulevard intersection would experience projectcaused delays ranging from about 0 to 46 seconds;
- Mountain Boulevard/I-580 northbound off-ramp would experience project-caused delays ranging from about 0 to 64 seconds;
- Mountain Boulevard/Main Entrance intersection would experience project-caused delays ranging from about 0 to 91 seconds; and
- Mountain Boulevard/Golf Links Road intersection would experience project-caused delays ranging from about 0 to 18 seconds.



Table 4-21 Mixed Use Village Alternative Intersection Operations

		<u> </u>	inters	ection	Operat.	ions					
		Pr	eclosur	e Cond	itions		Prec	ositre (Sonditio	ans Plu	é
(c)	5.00	(with curr			1. Car 20 1 1				llage A		
3 9		202 M. Am . Sale 3 . 2026 4.		k Hour			1440 Th Free 1332 172 2007 174				
int	tersection	Traffic			PMPe	V MC/XXXXXXXXXX	Traffic	12 17 15 CAUCULOS	ak Hour	A Commence of the commence of	
100	And the second second second	Control	LOS	Delay	LOS	Delay	Control :	LOS -	Delay"	LOS .	Delay
1.	Keller / I-580 SB off-ramp	•									
	contibound	Stop sign	F	67	F	76	Stop sign	7.5	- 49	St. F	Tall?
	eastbound	Stop sign	F	High	F.	High	Stop sign	F	High	F	High
	westbound .	Stop sign	νŒ.	36	. D	20	AStop signise	- F2	82	\mathbf{F}^{1}	574
2.	Keller / Mountain Blvd.									Charles of San San San San	STATE OF THE STATE
	nombound	Stop sign	C.C.	E06	E	4 38	Stop sign a	v D	20	F2	46
	southbound	Stop sign	A C	.2	Α	3	Stop sign	A	2	A	3
	Pureasibound () (Stop sign	C	4319 .55	P.	54	Nor agn	C.	16	VF s	Hel?
	westbound .	Stop sign	E	32	- B	- 5	Stop sign	E	31	С	10
.]] 3.	Mountain Blvd. / I-580 NB on	-									
i	northbound left	None	·A	4	A.	`3	None	A	4	·A	4
.	southbound left	None	Α ΄	2	A	2	None	Α	2	Α	2
	westbound	Stop sign	.D	.23	. C	13	Stop sign	D	25	D	20
4.	Mountain Blvd. / I-580 NB off			(Animal Personal	Series Communication	in construction			300 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(SIN) ASSISTANCE OF THE SECOND	CHARLES AND A SECTION OF
	esthound	Stop sign	C.	i 18	D	20	Stop sign	E.C	18	EF.	84
<u> </u>	westbound	Stop sign .	B	5 .	В	5	Stop sign	В	5	В	6
5.	Keller / Canyon Oaks (bk entr)				l					_	lí
-	northbound	Stop sign	С	10	В	. 6	Stop sign	C	12	С	10
1	southbound	Stop sign	Α.	4	A	- 3	Stop sign	A.	4	A	3
.	eastbound left	None	A	4	A	2	None	Α.	4	Α	2
1	westbound left	None	A	2	A	3	None	Α_	2	A	3
6.	Mountain Blvd. / Main Entr.	.,		٠ ـ ا							
1000 E	southbound left	None	B	5 12	A B	2	None	В	4	A	3
製造機	Mountain Blvd. / Golf Links	Stop signific		SEPTEMBER 1	遊戲D 網準	3.36736	Stop sign		200	Ties.	High
7.	mountain blvd. / Golf Links	Stop sign	T. E.	35	6 12	19	. Stopsien	(To ()	26	AE.	37
	southbound	Stop sign	В	7	B	5	Stop sign	В	6	B	6
- 11	eastbound	None	В	6	A	-3	None	B.	5	A	3
	westbound	Stop sign	В	9	B	7	.Stop sign	В	9	B	9
8.	Golf Links / I-580 NB ramps	Signal	D	. 26	c	18	Signal	c	22	G	23
4 **	northbound	0.8	-			"	Olgina.	~	. 22	, 4	
1	eastbound left				ŀ						
9.	Golf Links / 98th Ave.	Signal	С	21	C ·	17	Signal	· c	22	С	18
	northbound					-		Ĭ.			
	southbound					:				ļ ·	ļ.
,	eastbound							1			
	westbound							·			
10.										N	
	northbound left	Noņe	В.	6	Α.	:4	None	В	6	'A	4
	southbound left	None] в .	5 .	. C	10	None	В	; 5	C.	12
	eastbound (driveway)	Stop	В	9	В	6	Stop	В	9	• B	6
: 11.	Mountain Blvd. / Sequoyah						-				
	southbound left	None	, , A	2	Α.	2	None	A	2	A:	3
<u> </u>	westbound	Stop sign	В	5	Α	4	Stop sign	В	. 5	В	7
12.	Mountain Blvd. / Fontaine				1.						
	southbound left	None	A	. 2	Α.	3	None	Α	. 2	A	3
L	westbound	Stop sign	В	8	B _.	6	Stop sign	В	8	<u>B</u>	9

¹Delay in seconds.

Indicates significant and mitigable impact

Note: "High" delay indicates extreme values, which are outside the range of the analysis method (generally more than 100 seconds).

Shading indicates location that may experience significant level of service/delay impacts if no mitigation is implemented.

*: Current construction refers to the widening being done on some segments of 98th Avenue and Golf Links Road.

Mitigation 1a: The installation of traffic signals at the above locations along with the minor lane changes (e.g. restriping) would mitigate the impacts to a level of nonsignificance, as indicated in Table 4-22:

- Keller/I-580 southbound off-ramp would be mitigated to delays ranging from about 15 to 19 seconds;
- Keller/Mountain Boulevard intersection would be mitigated to delays ranging from about 9 to 11 seconds;
- Mountain Boulevard/I-580 northbound off-ramp would be mitigated to delays ranging from about 12 to 13 seconds;
- Mountain Boulevard/Main Entrance intersection would be mitigated to delays ranging from about 12 to 23 seconds; and
- Mountain Boulevard/Golf Links Road intersection would be mitigated to delays ranging from about 13 to 16 seconds.

Traffic volumes at the Mountain Boulevard/I-580 northbound off-ramp and the Mountain Boulevard/Golf Links Road intersections would not satisfy the peak hour signal warrant; however, these intersections would be close to satisfying the warrant.

Signal warrants should be monitored at these locations and traffic signals should be installed when one or more signal warrants are satisfied. The City of Oakland has no formal policy regarding responsibilities for traffic signal installations. In the event that the city chooses to enter into a development agreement for this alternative, it is assumed that the developer of the alternative will be responsible for a fair share of traffic signal installation costs.

Mitigation 1b: Along with the installation of traffic signals at the Keller Avenue intersections, it would be necessary to restripe the traffic lanes on the Keller Avenue/I-580 overcrossing, as described for the Maximum Capacity Alternative.

These mitigation measures would reduce the traffic impacts to a level of nonsignificance, as shown in Table 4-22.

Nonsignificant Impacts

Parking. Future parking demand generated by the proposed land uses would total approximately 1,342 spaces. This alternative would provide adequate parking on-site; therefore, the impact to parking would not be significant.



Table 4-22 Mixed Use Village Alternative Intersection Operations - Mitigated

E-24-Days		A S W. A. T. T. C. T. SWIPPING	CWG SCHARGE R	-	- Autoritari Santural	statuter reside	WARE CALLED AND AND AND AND AND AND AND AND AND AN	cited at the same 2 of	W 1874 Te. C.		22 T-20 M at 10 at
		Pi	eclosur	e Cond	itions			itigated			
		(with curr	ent cons	truction	ncompl	eted*)-	Mixed	Üse Vi	llage A	lternati	ve :
	Intersection	Traffic	AMPe	k Hour	PM Per	kHom	Traffic	AM Pe	k Hour	PMPe	k Hour
		Control	LOS	Delay!	LOS	Delay	Control		Delay	LOS	Delay
1.	Keller / I-580 SB off-ramp		The september of the	THE RESIDENCE NAME.		Secretarion services de	Signal	C	15	C	19
1.	southbound	Stop sign	F	67	F ~	76 ~	Jigitai	~	13	١ ٠. ١	17
1	eastbound	Stop sign	F	High	F	High					
4	westbound		E	36	D	20					
-		Stop sign	E .		<u> , , , , , , , , , , , , , , , , , , ,</u>	20	C: 1	_ n			
2.	Keller / Mountain Blvd.	٠. ا		4.	F. 1		Signal	В	9	В	11
1	northbound	Stop sign	С	16	E	38			١.	l	
	southbound	Stop sign	A	2	. A F	3			1		i
	eastbound	Stop sign	С	19 ~		54				·	
·I	westbound	Stop sign	. E	32	В	5					
4.	Mountain Blvd. / I-580 NB off						Signal	В	12	В	13
`∦	eastbound	Stop sign	C	18	D	20					
.1	westbound	Stop sign	В	5 ·	B	. 5				l ·	
6.	Mountain Blvd. / Main Entr.						Signal	В	12 ·	С	23
	southbound left	None	В	·5	A	2	_			l 1	
Ħ	westbound	Stop sign	С	12 ·	В.	9				ĺ	
7.	Mountain Blvd. / Golf Links						Signal	В	13	С	16
	northbound	Stop sign	E	35	·C	. 19	_				
Į.	southbound	Stop sign	'B	7	В	· 5					
	eastbound	None	В	6 .	A	3					
	westbound	Stop sign	-B	9	В	7					

Delay in seconds.

Transit Service. As with the Maximum Capacity Alternative, a nonsignificant increase in demand for transit services on AC Transit Lines 56, 46, and NV could result from this alternative. There would be a need to modify the bus routes associated with reconfiguration of the on-site roadway system.

Bicycle and Pedestrian System Impacts. The Mixed Use Village Alternative would provide adequate sidewalks and bicycle facilities, according to City of Oakland standards, for all new roadways within the project site.

Consistency with Transportation Plans and Regulations. As with the Maximum Capacity Alternative, the Mixed Use Village Alternative would be consistent with the city's transportation goals and objectives. Two intersections (Keller at the southbound I-580 off-ramp and Keller at Mountain Boulevard), which currently operate below city standards, would be brought into compliance with city, regional, state, and federal standards.

^{*:} Current construction refers to the widening being done on some segments of 98th Avenue and Golf Links Road.

4.9.7 Single Use Campus Alternative

The Single Use Campus Alternative would generate 1,679 AM peak hour trips, 1,089 PM peak hour trips, and 13,840 average daily trips. The resulting impact of the additional peak hour trips to the transportation network has been determined through calculations of the resulting LOS at the twelve critical intersections serving the project area. A summary of the LOS analysis and potentially significant impacts is shown in Table 4-23.

Significant Impacts

Impact 1: A significant and mitigable impact would result from a substantial increase in traffic congestion at four project area intersections due to peak hour traffic from the Single Use Campus Alternative. Traffic congestion is expressed in delays, in seconds. Ranges in delays at the intersections that would have significant and mitigable impacts are estimated as follows by subtracting delays experienced under preclosure conditions (left side of Table 4-23) from delays estimated as the sum of preclosure conditions and delays added by traffic from the Single Use Campus Alternative (right side of Table 4-23) for each peak hour and affected intersection:

- Keller/I-580 southbound off-ramps would experience project-caused delays ranging from about 24 to 64 seconds;
- Keller/Mountain Boulevard northbound and eastbound would experience project-caused delays ranging from about 0 to 81 seconds;
- Mountain Boulevard/I-580 northbound off-ramp intersection would experience project-caused delays ranging from about 16 to 82 seconds; and
- Mountain Boulevard/Main Entrance intersection would experience project-caused delays ranging from about 1 to 95 seconds.

Mitigation 1a: The installation of traffic signals at the above locations, along with minor lane changes (e.g. restriping) described for the Maximum Capacity Alternative, would mitigate the impacts to a level of nonsignificance, as indicated in Table 4-24:

- Keller/I-580 southbound off-ramp would be mitigated to delays ranging from about 17 to 34 seconds;
- Keller/Mountain Boulevard intersection would be mitigated to delays ranging from about 10 to 11 seconds;
- Mountain Boulevard/I-580 northbound off-ramp would be mitigated to delays ranging from about 2 to 16 seconds; and
- Mountain Boulevard/Main Entrance intersection would be mitigated to delays ranging from about 13 to 17 seconds.



Table 4-23 Single Use Campus Alternative Intersection Operations

Preclosure Conditions
Intersection
Traffic AMPekHour PMPekHour PMPekHour Traffic AMPekHour PMPekHour Tools To
1. Keller / 1-580 SB off-ramp Stop sign F Stubbind Stop sign F High High F High H
1. Keller / 1-580 SB off-ramp Stop sign F G/J F High F High Stop sign F High F High Stop sign F High
Southbound
Southbound
Stop sign
2. Keller / Mountain Blvd. Stop sign A 2 A 3 Stop sign A 2 A A Stop sign A 2 A B Stop sign A A A A A A A A A
2. Keller / Mountain Blvd. Stop sign A 2 A 3 Stop sign A 2 A A 3 Stop sign A 2 A B Stop sign A A A A A A A A A
Stop sign A 2 A 3 Stop sign B 5 Stop sign D 24 B B Stop sign D 25 C Stop sign D Stop sign D Stop sign D Stop sign B 7 B Stop sign D Stop sign
Southbound
Stop sign E 32 B 5 Stop sign D 24 B
Westbound
3. Mountain Blvd. / I-580 NB on northbound left southbound left None A 2 A 2 None A 2 A 2 None A 2 A 4 A 2 None A 2 A 2 None A 2 A 4 A 3 Stop sign D 25 C 1 A 4 Mountain Blvd. / I-580 NB off
None
Southbound left None A 2 A 2 None A 2 A
Westbound
4. Mountain Blvd. / I-580 NB off Stop Sign Stop Sign B S Stop Sign C I2 C Stop Sign C I2 C Stop Sign C I3 C Stop Sign C I4 C C Stop Sign C I4 C C C C C C C C C
Stop sign Stop sign B S B S Stop sign B T B
westbound Stop sign B 5 B 5 Stop sign B 7 B 5. Keller / Canyon Oaks (bk entr) northbound Stop sign C 10 B 6 Stop sign C 12 C southbound Stop sign A 4 A 3 Stop sign A 4 A eastbound left None A 4 A 2 None A 4 A westbound left None A 2 A 3 None A 3 A 6. Mountain Blvd. / Main Entr. Stop sign B 5 A 2 None F' High A westbound Stop sign E 35 C 19 Stop sign F' High D northbound Stop sign E 35 C 19 Stop sign F' 102 D D southbound Stop sign B 7 B 5 Stop sign C 11 B eastbound None B 6 A 3 None C 13 A westbound Stop sign B 9
5. Keller / Canyon Oaks (bk entr) northbound southbound Stop sign C 10 B 6 Stop sign C 12 C southbound southbound Stop sign A 4 A 3 Stop sign A 4 A eastbound left None A 4 A 2 None A 4 A westbound left None A 2 A 3 None A 3 A 6. Mountain Blvd. / Main Entr. Stop sign C 12 C None A 4 A A 2 None A 4 A A 3 Stop sign A 4 A A 4 A A 5 None A 5 A A 6 Stop sign B 7 B 5 Stop sign C 11 B eastbound None B 6 A 3 None C 13 A westbound Stop sign B 7 B 5 Stop sign C 11 B westbound Stop sign B 7 B 5 Stop sign C 11 B westbound Stop sign B 7 B 5 Stop sign C 11 B westbound Stop sign B 7 B 5 Stop sign C 11 B westbound Stop sign B 7 Stop sign B 9 B 9 B 7 Stop sign B 9 B 9 B 7 Stop sign B 9 B 9 B 9 B 9 B 9 B 9 B 9 B 9 B 9 B
northbound Stop sign C 10 B 6 Stop sign C 12 C 1 Stop sign A 4 A 3 Stop sign A 4 A A 2 None A 4 A A 2 None A 4 A A 3 None A 3 A A 4 A A A 4 A A A 4 A A A 4 A A A 4 A A A A 4 A
southbound stop sign A 4 A 3 Stop sign A 4 A A 2 None A 4 A A A 4 A A A 4 A A A A A A A A A
eastbound left None A 4 A 2 None A 3 A 6. Mountain Blvd. / Main Entr. Southbound left None B 5 A 2 None F High B 5 A 3 None A 3 A 7. Mountain Blvd. / Golf Links northbound Stop sign E 35 C 19 Stop sign F 102 D 5 Stop sign B 7 B 5 Stop sign C 11 B eastbound None B 6 A 3 None C 13 A westbound Stop sign B 9 B 7 Stop sign B 9 B 9 B 7 Stop sign B 9 B 9 B 9 B 9 B 9 B 9 B 9 B 9 B 9 B
westbound left None A 2 A 3 None A 3 A 6. Mountain Blvd. / Main Entr. Southbound left None B 5 A 2 None F 5 High A 3 A 5 None B 5 None B 5 Stop sign B 7 B 5 Stop sign C 11 B 6 A 3 None B 6 A 3 None C 13 A 6 Westbound Stop sign B 7 Stop si
6. Mountain Blvd. / Main Entr. Southbound leit None AB S S A 2 None F High A 3 Stopsign C 3 Stopsign F High B S S Stopsign B S S Stopsign C High B S S Stopsign B S S Stopsign B S S Stopsign B S S S S S S S S S S S S S S S S S S
None B 5 A 2 None F 5 High A 7 Stop sign F 3 102 D 6 Stop sign B 7 B 5 Stop sign C 11 B 6 Stop sign B 6 A 3 None C 13 A 8 Stop sign B 7 Stop sign B 9 B 9 B 7 Stop sign B 9 B 9 B 9 B 9 B 9 B 9 B 9 B 9 B 9 B
This is a second of the control of
7. Mountain Blvd. / Golf Links northbound Stop sign E 35 C 19 Stop sign F³ 102 D 2 southbound Stop sign B 7 B 5 Stop sign C 11 B eastbound None B 6 A 3 None C 13 A westbound Stop sign B 9 B 7 Stop sign B 9 B
northbound Stop sign E 35 C 19 Stop sign F³ 102 D G southbound Stop sign B 7 B 5 Stop sign C 11 B eastbound None B 6 A 3 None C 13 A westbound Stop sign B 9 B 7 Stop sign B 9 B
southbound Stop sign B 7 B 5 Stop sign C 11 B eastbound None B 6 A 3 None C 13 A westbound Stop sign B 9 B 7 Stop sign B 9 B
eastbound None B 6 A 3 None C 13 A westbound Stop sign B 9 B 7 Stop sign B 9 B 7
westbound Stop sign B 9 B 7 Stop sign B 9 B 1
8 Golf Links / I-580 NB ramps Signal D 26 C 18 Signal D 31 C 1
I or corresponding terms original or original or original or original or original or original or original
northbound
eastbound left
9. Golf Links / 98th Ave. Signal C 21 C 17 Signal D 31 C
northbound
southbound
eastbound
westbound
10. 98th Ave. / I-580 SB on
northbound left None B 6 A 4 None B 6 A
southbound left None B 5 C 10 None B 5 C
eastbound (driveway) Stop B 9 B 6 Stop B 9 B
11 Mountain Rhyd / Seguovah
II weathered Cromeion D' E A A Cromeion D A D
westbound Stop sign B 5 A 4 Stop sign B 9 B
12. Mountain Blvd. / Fontaine

Delay in seconds.

Note: "High" delay indicates extreme values, which are outside the range of the analysis method (generally more than 100 seconds).

Shading indicates location that may experience significant level of service/delay impacts if no mitigation is implemented.

*: Current construction refers to the widening being done on some segments of 98th Avenue and Golf Links Road.



²Indicates significant and mitigable impact.

³Not significant - only four vehicles are affected.

Signals at all of the above intersections would satisfy the peak hour volume warrant for the Single Use Campus Alternative. The City of Oakland has no formal policy regarding responsibilities for traffic signal installations. In the event that the city chooses to enter into a development agreement for this alternative, it is assumed that the developer of the alternative will be responsible for a fair share of traffic signal installation costs.

Mitigation 1b: Along with the installation of traffic signals at the Keller Avenue intersections, it would be necessary to restripe the traffic lanes on the Keller Avenue/I-580 overcrossing, as described for the Maximum Capacity Alternative. These mitigation measures would reduce the traffic impacts to a level of nonsignificance, as shown in Table 4-24.

Table 4-24
Single Use Campus Alternative
Intersection Operations - Mitigated

	(with curr	ent cons	tructio	п сотр	leted*)	· Single	Use Ca		Iternat	
Intersection	Traffic	AM Pe	ik Hour	PM Pe	k Hour	Traffic	AM Pe	ak Hour	PM Per	kHour
	Control	LOS	'Delay	LOS	Delay!	Control	LOS	Delay	LOS	Deby
1. Keller / I-580 SB off-ramp						Signal	D	34	С	17
southbound	Stop sign	F	67	F	76					1
eastbound	Stop sign	F	High	F.	Hìgh			l		
westbound	Stop sign	E	36	D	20					
2. Keller / Mountain Blvd.						Signal	В	10	В	. 11
northbound	Stop sign	С	16	E	38					•
southbound	Stop sign	Α	2	A	3.		l		1	1 [
eastbound	Stop sign	С	19	F	54					·
westbound	Stop sign	E	32	В	5			. •		
4. Mountain Blvd. / I-580 NB off						Signal	С	16	A	2
eastbound	Stop sign	С	18	D	20		1			
westbound	Stop sign	В	. 5	В	5			11.	, j.,	
6. Mountain Blvd. / Main Entr.						Signal	C.	17	В	13
southbound left .	None	В	5	A	2	' '				
westbound	Stop sign	С	12	В.	9					

¹Delay in seconds.

Nonsignificant Impacts

Parking. Future parking demand generated by the proposed land uses would total approximately 1,862 spaces. This alternative would provide adequate parking on-site; therefore, the impact to parking would not be significant.

Transit Service. As with the Maximum Capacity Alternative, a less than significant increase in demand for transit services on Alameda-Contra Costa Transit District (AC Transit) Lines 56, 46, and NV could result from this alternative. There would be a need to modify the bus routes associated with reconfiguration of the on-site roadway system.



^{*:} Current construction refers to the widening being done on some segments of 98th Avenue and Golf Links Road.

Bicycle and Pedestrian System Impacts. The Single Use Campus Alternative would provide adequate sidewalks and bicycle facilities, according to City of Oakland standards, for all new roadways within the project site.

Consistency with Transportation Plans and Regulations. As with the Maximum Capacity Alternative, the Single Use Campus Alternative would be consistent with the city's transportation goals and objectives. Two intersections (Keller at the southbound I-580 off-ramp and Keller at Mountain Boulevard), which currently operate below city standards, would be brought into compliance with all applicable standards.

4.9.8 Residential Alternative

Two options were evaluated for the Residential Alternative. The basic difference in the two options are the number of residential units that would be provided. Option 1 would have 357 residential dwelling units, and Option 2 would have 600 dwelling units.

Option 1

The Residential Alternative (Option 1) would generate 476 AM peak hour trips, 887 PM peak hour trips, and 6,815 average daily trips. The resulting impact of the additional peak hour trips to the transportation network has been determined through calculations of the resulting LOS at the twelve critical intersections serving the project area. A summary of the LOS analysis and potentially significant impacts is shown in Table 4-25.

Significant Impacts

<u>Impact 1:</u> A significant and mitigable impact would result from a substantial increase in traffic congestion at two project area intersections due to peak hour traffic from the Residential Alternative (Option 1).

Traffic congestion is expressed in delays, in seconds. Ranges in delays at the intersections that would have significant and mitigable impacts are estimated as follows by subtracting delays experienced under preclosure conditions (left side of Table 4-25) from delays estimated as the sum of preclosure conditions and delays added by traffic from the Residential Alternative (Option 1) (right side of Table 4-25) for each peak hour and affected intersection:

 Keller/I-580 southbound off-ramp would experience project-caused delays ranging from about 0 to 24 seconds; and

Naval Medical Center Oakland
Disposal and Reuse Final EIS/EIR

Table 4-25 Residential Alternative (Option 1) Intersection Operations

		Pr (with curre	149 2 7 7 7 7 7 7	e Cond	PRODUCTIVE CONTRACTOR	eted*)	Pred Resident	osure (
	Intersection	Traffic			PMPea		Traffic	AMPe		PMPe	
	meisceion	52	7 4100 - 177	Delay	いるのではないのからいいい	to a second	SEE MANAGEMENT AND AND ASSESSED TO THE PARTY OF THE PARTY	CO. 19 W. W. 15 - 55 C.	AND AND THE STATE OF		
		Control	LUS.	LATI	LUS.	Leav	Control	LOS	Deby!	LOS	Delay!
1.	Keller / I-580 SB off-ramp	SEASONODAY, W. 1844-BYOK, UNING	Name of Street, Street		stretmer part report	damara da	an a Marie Carllett de Marie Carlett de Carl	- Charles and Branches or The Colon Fred	delicental and the street of		
	Southbound,	Stop sign		67	L E	76	Stop sign	C.V	315	-SF	11117
- house destricts at	eastbound	Stop sign	F	High	F	High	Stop sign	F	High	F	High
經濟	westbounds ()	Stop sign 🔮	E	196°44	D.	20	Stôp sign 🖟	\mathbb{P}^2	54	E ²	43.
2.	Keller / Mountain Blvd.	c		47	<u>.</u> .	20					ا ا
ı	northbound	Stop sign	C .	16	E	38	Stop sign	D	21	. D	23
(Feedom)	southbound	Stop sign	A C	2 19	A	3 54	Stop sign	A B	1	A	3 Helfa
	westbound	Stop sign & Stop sign	E	32	В	5	Stop sign Stop sign	E	41	B	6
3.	Mountain Blvd. / I-580 NB on	Stop sign					Stop sign	 -	71.	В	-
] 3.	northbound left	None	Α	4.	. А	3.	None	A	4 .	Α	3
1	southbound left	None	A	2	A	2	None	A	2	A	2
	westbound	Stop sign	D	23	Ĉ.	13	Stop sign	E3	30	Ĉ	11
4.	Mountain Blvd. / I-580 NB off		-						T	- <u>-</u> -	
"	eastbound	Stop sign	С	18	D	20	Stop sign	С	13	D	24
H	westbound	Stop sign	В	5	В	5	Stop sign	В	5	B	5
5.	Keller / Canyon Oaks (bk entr)										
	northbound	Stop sign	С	10	В	6	Stop sign	С	13	В	8
	southbound	Stop sign	Α	4	Α	3	Stop sign	Α	4	A	3
1	eastbound left	None	A	4	A	2	None	Α	4	Α.	2
	westbound left	None	A	2	A ·	3	None	A	_ 2	Α	3
6.	Mountain Blvd. / Main Entr.							,		i	
	southbound left	None	В	5	A	2	None	Α	3	- A	3
	westbound	Stop sign	Ç	12	В.	9	Stop sign	В	7	С	13
7.	Mountain Blvd. / Golf Links		! _		i .			l _			
.	northbound	Stop sign	E	35	C	19	Stop sign	D	- 21	D	23
	southbound	Stop sign	В.	-7	В	5	Stop sign	В	7	В	5
1	eastbound westbound	None	B B	6	A B	3 7	None	A	4 .	A	3
-		Stop sign	D	9	C	<u> </u>	Stop sign	C	10	B	6
8.	Golf Links / I-580 NB ramps northbound	Signal	טו	26	'	18	Signal	С	, 23	. Cx.	20
	eastbound left	·									ĺ
9.	Golf Links / 98th Ave.	Signal	С	21	c	17	Signal	c	21	С	17
('	northbound	Jigitai	, ~	2,		1′	Signal .] 21		["
1	southbound		1								
	eastbound									l	
	westbound		ĺ	٠.							
10.	98th Ave. / I-580 SB on									·	
	northbound left	None	В	6.	A	4 .	None	В	6	A	4
	southbound left	None	B	5	ic.	10	None	В	5	В	9
·L	eastbound (driveway)	Stop	В	9	В	6	Stop	В	9	В	6
11.	Mountain Blvd. / Sequoyah	·									
-	southbound left	None	Α.	2	Α.	2	None	A	2	·A	3
	westbound	Stop sign	В	.5	A	4	Stop sign	A	4	· В	5
12.	Mountain Blvd. / Fontaine										
	southbound left	None	A	. 2	Α .	3	None	A	3	A	2
	westbound	Stop sign	<u>B</u>	8	B :	6	Stop sign	В	7	В	7

¹Delay in seconds.

Note: "High" delay indicates extreme values, which are outside the range of the analysis method (generally more than 100 seconds). Shading indicates location that may experience significant level of service/delay impacts if no mitigation is implemented.

^{*:} Current construction refers to the widening being done on some segments of 98th Avenue and Golf Links Road.



²Indicates significant and mitigable impact.

³Not significant - only four vehicles are affected.

 Keller/Mountain Boulevard intersection would experience projectcaused delays ranging from about 0 to 46 seconds.

Mitigation 1a: The installation of traffic signals at the above locations, along with minor lane changes (e.g. restriping) described for the Maximum Capacity Alternative, would mitigate the impacts to a level of nonsignificance, as indicated in Table 4-26:

- Keller/I-580 southbound off-ramp would be mitigated to delays ranging from about 15 to 17 seconds; and
- Keller/Mountain Boulevard intersection would be mitigated to delays ranging from about 9 to 10 seconds.

Signals at the above intersections would satisfy the peak hour volume warrant for the Residential Alternative (Option 1). The City of Oakland has no formal policy regarding responsibilities for traffic signal installations. In the event that the city chooses to enter into a development agreement for this alternative, it is assumed that the developer of the alternative will be responsible for a fair share of traffic signal installation costs.

Mitigation 1b: Along with the installation of traffic signals at the Keller Avenue intersections, it would be necessary to restripe the traffic lanes on the Keller Avenue / I-580 overcrossing, as described for the Maximum Capacity Alternative. These mitigation measures would reduce the traffic impacts to a level of nonsignificance, as shown in Table 4-26.

Table 4-26 Residential Alternative (Option 1) Intersection Operations - Mitigated

		(with cu	Preclosur			der)	Reside				
100	intersection	Traffic	MANAGED AND THE PARTY OF AT A P.	2 10 1 1000 11 11 11 11	COLLEGETTS OF ACCOUNTY OF	THE STATE OF THE OWNER, AS	Traffic	The contract of the contract o	WY ANDROY THE WATER CARE	SHOWING AND THE COMMUNICATION	12 Vest (Aug. 1. 2) 1 (2)
L	<u> </u>	Control	LOS	Delay	LOS	Delay!	Control	LOS	Delay!	LOS-	Deby!
I	1. Keller / I-580 SB off-ramp		*				Signal	С.	15	С	17
ı	southbound	Stop sign	. F	67	F	76				:	i l
ı	eastbound	Stop sign	F	High	F	High					
Ħ	westbound	Stop sign	· E	36	Ď	20					
I	2. Keller / Mountain Blvd.						Signal	В	9	В	10
	northbound	Stop sign	. C	. 16	E	38					1 1
1	southbound	. Stop sign	A	-2	A	3					
1	· eastbound	Stop sign	С	19	F	54					
	westbound	Stop sign	E	32	В	5.					

¹Delay in seconds.

Victorial Company

^{*:} Current construction refers to the widening being done on some segments of 98th Avenue and Golf Links Road.

Nonsignificant Impacts

Parking. Future parking demand generated by this alternative would be approximately 740 spaces. This alternative would provide adequate parking on-site; therefore, the impact to parking would be nonsignificant.

Transit Service. A nonsignificant increase in demand for transit services on AC Transit Lines 56, 46, and NV could result from this alternative, with the need to modify the bus routes associated with the on site roadway system.

Bicycle and Pedestrian System Impacts. The Residential Alternative (Option 1) would provide adequate sidewalks and bicycle facilities, according to City of Oakland standards, for all new roadways within the project site.

Consistency with Transportation Plans and Regulations. The Residential Alternative (Option 1) would be consistent with the city's transportation goals and objectives. The two intersections (Keller at the southbound I-580 off-ramp and Keller at Mountain Boulevard), which currently operate below city standards, would be brought into compliance with all applicable standards.

Option 2

The Residential Alternative (Option 2) would generate 637 AM peak hour trips, 1,109 PM peak hour trips, and 8,730 average daily trips. The resulting impact of the additional peak hour trips to the transportation network has been determined through calculations of the resulting LOS at the twelve critical intersections serving the project area. A summary of the LOS analysis and potentially significant impacts is shown in Table 4-27.

Significant Impacts

<u>Impact 1:</u> A significant and mitigable impact would result from a substantial increase in traffic congestion at four project area intersections due to peak hour traffic from the Residential Alternative (Option 2).

Traffic congestion is expressed in delays, in seconds. Ranges in delays at the intersections that would have significant and mitigable impacts are estimated as follows by subtracting delays experienced under preclosure conditions (left side of Table 4-27) from delays estimated as the sum of preclosure conditions and delays added by traffic from the Residential Alternative (Option 2) (right side of Table 4-27) for each peak hour and affected intersection:

Table 4-27 Residential Alternative (Option 2) Intersection Operations

					CI atioi	2012/21/21/21	50× 10° 11 1 132 16-12 111	4 - 1 Web / 94 V 70 44			
		Pro	eclosur	Cond	tions	建物联网	Precl	osure C	Condition	ons Plui	
		Per management of the service of the	《大文》,"我们就是一个	ACCURACY SERVICE			Resident	4454 750 80000 7000	With the same of the same	SERVICE PRODUCTION	ACCESS (\$100)
		(with curre									
	Intersection	Traffic :	AMIRea	kHour	PM Pea	kHour	Traffic	AM Pe	k Hour	PM Pea	k Hour
		Control	LOS	Tabel	LOS	Delay!	Control	LOS	Dalait	LOS	വചം
	SECTION OF THE PROPERTY OF THE	Concion		Seminario (470)	20 - CANA				EXTENSION FOR		
1.	Keller / 1-580 SB off-ramp				**************************************	95/8ca+6.//6.// 71/6/1	- Criman Juris 1880 - Carring a 275 A Sandharing in	200-Anna Annanos Anna Anna	(Name and American Action)		Armited Services
	southbound	Stop sign .	# (FW)	67	- F	760	Stop sign 🧎	bC .	18	TF.	High
namouna	eastbound	Stop sign	F	High	F	High	Stop sign	F	High	F	High
1000	et westbound: 74 1 2 4 4 4 4	Stop sign	E S	36.	. D.⊸	20 🚟	-Stop sign A	\mathbf{F}^{2}	60	\mathbf{F}^{\prime}	W53 s
2.	Keller / Mountain Blvd.	,									
2.	northbound	Stop sign	. с	16	E	38	Stop sign	D	26	D	28
1	southbound	Stop sign	Ā	2	Ã	3	Stop sign	Ā	1	A	4 .
CROPERS	eastbound	Stop sign	G	19	F	54.	Stop sign	B	D4.8	湿下	Heli
THE REAL PROPERTY.	大学の大学は、大学の学士の中人のは、大学であるが、というないというない。 あっというはん はまる Banda Ba	THE RESIDENCE OF THE PARTY OF T	E	32	В	5	Stop sign	F ²	SCHOOL HOLD WATER STATE OF	stimetrate a property said	
1—	westbound	Stop sign	E	32.	ь		Stop sign		47	·B	7
3.	Mountain Blvd. / I-580 NB on						,,			,	_
	northbound left	None	A	4	A	3	None	В	. 5	A	3
1	southbound left	None	A	. 2	A	2	None	A	2	A	2
1	westbound	'Stop sign	. D.	23	C	13	Stop sign	E^3	37	С	13
4.	Mountain Blvd. / I-580 NB off		•			,,					
	estbound at the state of the st	groß alkü 🖟	Col	18	Date	20	- Stop sign	EC A	116	E	44.5
	westbound	Stop sign	В	5	В	5	Stop sign	В	5	B	5
5.	Keller / Canyon Oaks (bk entr)	Grob Great				-					
٥.	northbound	Stop sign	·C	10	В	6	Stop sign	····C	14	В	9
·			A	4	A	3		A	4	A	3
1	southbound .	Stop sign		l '			Stop sign				
1	eastbound left	None	A	4	Α.	2	None	A	4	A	2
	westbound left	None	A	_2	A	3_	None	A	2	A	3
6.	Mountain Blvd. / Main Entr.				i .						·
	southbound left	None	В	5	A	2	None	A	3	A	4
	westbound as	Stop sign	& C 87	32 12	BB	9.	«Stop sign	\mathbf{C}	10	E E	#193 III
7.	Mountain Blvd. / Golf Links										
li .	northbound	Stop sign	E	35	С	19	Stop sign	D .	26	D	29
`∦	southbound	Stop sign	В	7	В	5	Stop sign	В	7 .	В	5
1	eastbound	None	В	6	A	3 .	None	Α	4	A	3
1 .	westbound	Stop sign	В	9	В	7	Stop sign	C	12	В	7
8.	Golf Links / I-580 NB ramps	Signal	D .	19	C	16	Signal	Č	23	C	17
∥ °.	northbound	Signai			~	1 40	Jigilai		1 2	l. C	l ''
1						1			٠,	N'	
								,	,		l
	eastbound left					1	6: 1	,	,		17
9.	eastbound left Golf Links / 98th Ave.	Signal	С	. 21	С	17	Signal	D	22	С	17
9.	eastbound left Golf Links / 98th Ave. northbound	Signal	С	21	С	17	Signal	D	22	С	17
9.	eastbound left Golf Links / 98th Ave. northbound southbound	Signal	C	21	С	17	Signal	D	22	С	17
9.	eastbound left Golf Links / 98th Ave. northbound	Signal	С	21	С	17	Signal	D	22	С	. 17
9.	eastbound left Golf Links / 98th Ave. northbound southbound	Signal	С	21	C	17	Signal	D	22	С	17
	eastbound left Golf Links / 98th Ave. northbound southbound eastbound	Signal	С	21	С	17	Signal	D	22	C	17
	eastbound left Golf Links / 98th Ave. northbound southbound eastbound westbound 98th Ave. / I-580 SB on					17		_		C	17
	eastbound left Golf Links / 98th Ave. northbound southbound eastbound westbound 98th Ave. / I-580 SB on northbound left	None	В	6	A	4	None	В	6		:
	eastbound left Golf Links / 98th Ave. northbound southbound eastbound westbound 98th Ave. / I-580 SB on northbound left southbound left	None None	B B	6 5	A C	4 10	None None	B B	6 5	A B	4 9
10.	eastbound left Golf Links / 98th Ave. northbound southbound eastbound westbound 98th Ave. / I-580 SB on northbound left southbound left eastbound (driveway)	None	В	6	A	4	None	В	6	· A	:
10.	eastbound left Golf Links / 98th Ave. northbound southbound eastbound westbound 98th Ave. / I-580 SB on northbound left southbound left eastbound (driveway) Mountain Blvd. / Sequoyah	None None Stop	B B B	6 5 9	A C B	4 10 6	None None Stop	B B B	6 5 9	A B B	: 4 9 6
10.	eastbound left Golf Links / 98th Ave. northbound southbound eastbound westbound 98th Ave. / I-580 SB on northbound left southbound left eastbound (driveway) Mountain Blvd. / Sequoyah southbound left	None None Stop	B B B	6 5 9	A C B	4 10 6	None None Stop	B B B	6 5 9	A B B	4 9 6
10.	eastbound left Golf Links / 98th Ave. northbound southbound eastbound westbound 98th Ave. / I-580 SB on northbound left southbound left eastbound (driveway) Mountain Blvd. / Sequoyah southbound left westbound	None None Stop	B B B	6 5 9	A C B	4 10 6	None None Stop	B B B	6 5 9	A B B	: 4 9 6
10.	eastbound left Golf Links / 98th Ave. northbound southbound eastbound westbound 98th Ave. / I-580 SB on northbound left southbound left eastbound (driveway) Mountain Blvd. / Sequoyah southbound left westbound Mountain Blvd. / Fontaine	None None Stop None Stop sign	B B B	6 5 9	A C B	4 10 6	None None Stop None Stop sign	B B B	6 5 9	A B B	. 3 6
10.	eastbound left Golf Links / 98th Ave. northbound southbound eastbound westbound 98th Ave. / I-580 SB on northbound left southbound left eastbound (driveway) Mountain Blvd. / Sequoyah southbound left westbound	None None Stop	B B B	6 5 9 2 5	A C B A A	4 10 6	None None Stop	B B B	6 5 9 2 4	A B B	4 9 6 . 3 6 . 2
10.	eastbound left Golf Links / 98th Ave. northbound southbound eastbound westbound 98th Ave. / I-580 SB on northbound left southbound left eastbound (driveway) Mountain Blvd. / Sequoyah southbound left westbound Mountain Blvd. / Fontaine	None None Stop None Stop sign	B B B	6 5 9 2 5	A C B	4 10 6	None None Stop None Stop sign	B B B	6 5 9 2 4	A B B	. 3 6

Delay in seconds.

Note: "High" delay indicates extreme values, which are outside the range of the analysis method (generally more than 100 seconds).

Shading indicates location that may experience significant level of service/delay impacts if no mitigation is implemented.

Naval Medical Center Oakland Disposal and Reuse Final EIS/EIR



²Indicates significant and mitigable impact.

³ Not significant - only four vehicles are affected.

^{*:} Current construction refers to the widening being done on some segments of 98th Avenue and Golf Links Road.

- Keller/I-580 southbound off-ramp would experience project-caused delays ranging from about 0 to 33 seconds;
- Keller/Mountain Boulevard intersection would experience projectcaused delays ranging from about 0 to 46 seconds;
- Mountain Boulevard/I-580 northbound off-ramp would experience project-caused delays ranging from about 0 to 24 seconds and
- Mountain Boulevard/Main Entrance intersection would experience project-caused delays ranging from about 0 to 24 seconds.

The same traffic mitigation measures would be required for the Residential Alternative (Option 2) as would be required for the Maximum Capacity Alternative.

Mitigation 1a: The installation of traffic signals at the above locations, along with minor lane changes, would mitigate the impacts to a level of nonsignificance, as indicated in Table 4-28:

- Keller/I-580 southbound off-ramp would be mitigated to delays ranging from about 15 to 20 seconds;
- Keller/Mountain Boulevard intersection would be mitigated to delays ranging from about 10 seconds;
- Mountain Boulevard/I-580 northbound off-ramp would be mitigated to delays ranging from about 1 to 12 seconds; and
- Mountain Boulevard/Main Entrance intersection would be mitigated to delays ranging from about 12 to 17 seconds.

The City of Oakland has no formal policy regarding responsibilities for traffic signal installations. In the event that the city chooses to enter into a development agreement for this alternative, it is assumed that the developer of the alternative will be responsible for a fair share of traffic signal installation costs.

Traffic volumes at the Mountain Boulevard / I-580 northbound off-ramp and Mountain Boulevard / Main Entrance intersections would not satisfy the peak hour signal warrant specified in Warrant 11 of the Caltrans Traffic Manual; however, these intersections are close to satisfying the warrant (California Department of Transportation 1993). Signal warrants should be monitored at these locations and traffic signals installed when one or more signal warrants are satisfied.

Mitigation 1b: Along with the installation of traffic signals at the Keller Avenue intersections, it would be necessary to restripe the traffic lanes on the Keller Avenue/I-580 overcrossing, as described for the other reuse alternatives.



These mitigation measures would reduce the traffic impacts to a level of nonsignificance, as shown in Table 4-28.

Table 4-28
Residential Alternative (Option 2)
Intersection Operations - Mitigated

		with cu	rrenticon	struction	complete	d*)	Resido	ential Alt	ernative (Option 2	2)
	Intersection	. Irattic	AM Pe	ak I lour	PMPe	k Hour	Traffic	AMPe	k Hour	PM Pe	kHour
4		Control	LOS	Delay	LOS	Deby 3	Control	LOS.	Delay	LOS	Delay ¹
1.	Keller / I-580 SB off-ramp				·		Signal	C	15	C.	20
	southbound	Stop sign	F	67	F	76	· .				ļ
	eastbound	Stop sign	F	High	F	High					
	westbound	Stop sign	Ε.	. 36	D	20					
2.	Keller / Mountain Blvd.		:				Signal	В	10	В	10
	northbound	Stop sign	C ·	· 16	E	38					İ
	southbound	Stop sign	A	. 2	· A	. 3					
	eastbound	Stop sign	C	19	F	54					
	westbound	Stop sign	E	32	В	5					
4.	Mountain Blvd. / I-580 NB off						Signal	В	12	A	· 1
i	eastbound	Stop sign	С	18	D	20				ί.	
	westbound	Stop sign	В	5	В	5	•				
6.	Mountain Blvd. / Main Entr.						Signal	В	12	С	17
ľ	southbound left	None	В	5	A	2					
	westbound	Stop sign	С	12	В	9					

¹Delay in seconds.

Nonsignificant Impacts

Parking. Future parking demand generated by this alternative would total approximately 1,010 spaces. The reuse plan would provide adequate parking on-site; therefore, the impact to parking would not be significant.

Transit Service. As with the Maximum Capacity Alternative, a less than significant increase in demand for transit services on AC Transit Lines 56, 46, and NV could result from this alternative. There will be a need to modify the bus routes associated with reconfiguration of the on-site roadway system.

Bicycle and Pedestrian System Impacts. The Residential Alternative (Option 2) would provide adequate sidewalks and bicycle facilities, according to City of Oakland standards, for all new roadways within the project site. The improved bicycle and pedestrian systems would accommodate the pedestrian and bicycle traffic generated by this alternative.

Consistency with Transportation Plans and Regulations. The Residential Alternative (Option 2) would be consistent with the city's transportation goals and objectives. The two intersections (Keller at the southbound I-580

Naval Medical Center Oakland
Disposal and Reuse Final EIS/EIR

^{*:} Current construction refers to the widening being done on some segments of 98th Avenue and Golf Links Road.

off-ramp, and Keller at Mountain Boulevard), which currently operate below city standards, would be brought into compliance with all applicable standards.

4.9.9 No Action Alternative

No Impacts

The No Action Alternative would be limited to actions associated with federal caretaker status. A work force of about five to ten people is assumed for this traffic and circulation analysis, even though the Navy has not determined the number of caretaker staff that will be on site at NMCO. A minimal number of trips would be generated by this alternative, and these trips would not affect the local or regional transportation system. Intersection operations for the No Action Alternative are shown in Table 4-29.

Table 4-29 No Action Alternative Intersection Operations

		Pr (with curr	** X 175 X 27 X 24 X 24 X 24 X 24 X 24 X 24 X 24	e Cond	なからせい こうしゅうこくい	eted?)	第177 次系 · · · · · · · · · · · · · · · · · ·	osure C	A	The second of th	S
	Intersection	Traffic			PM Pe		Traffic	ÂM Pe		PMPe	k Horr
	intersection	Control	かん との 大学を	Delay!	J. 1988 J. L. 1985 A.	のない。	Control	1 (2 · X	Delay ¹	and the state of t	马拉拉斯 医水水水水
		COHEFOLS	100		- EO5-1	TOTAL STATE OF THE	senition.		LULY .		ALCENYA
1.	Keller / I-580 SB off-ramp		_ ``		_ "	``			_	l · _	
1	southbound	Stop sign	F	67	F	76	Stop sign	. В	7	E	31
II.	eastbound	Stop sign	F E	High	F	High	Stop sign	F	High	F	High
_	westbound	Stop sign	Ŀ	36	D	20	Stop sign	E	36	<u> </u>	. 19
2.	Keller / Mountain Blvd.				l	20				_	_
l	northbound .	Stop sign	С	16	E	38	Stop sign	С	12	B	9
	southbound	Stop sign	·A	2	, ¥	3	Stop sign	A	1	A	3
1	eastbound	Stop sign	C E	19	F	54	Stop sign	A	4	D	29
ļ	westbound	Stop sign	E ·	32	В	5	Stop sign	E	31.	В	5
3.	Mountain Blvd. / I-580 NB on		١.	l- ,-	١.						l . I
1.	northbound left	None	A.	4	A	3	None	A	4	A	3
	southbound left	None	A	2	. A	2	None	A	2	A	2
	westbound	Stop sign	D	23 ;	С	13	Stop sign	C	19	В	7
4.	Mountain Blvd. / I-580 NB off						c			n.	
H	eastbound	Stop sign	C B	18	D	20	Stop sign	В	. 8	B.	7 3
-	westbound	Stop sign	В	5	В	5	Stop sign	A	4	Α	3
5.				10		,	C			_	_
Ĭ.	northbound	Stop sign	C	10	B A	6.	Stop sign	C	10	В	7
	southbound	Stop sign	A	4		3	Stop sign	A	4	A	
H	eastbound left	None	A	4	A	2 3	None	A	4	A	2 3
1	westbound left	None	A	2	A	,	None	Α	2	Ą	3
6.	Mountain Blvd. / Main Entr.	.,	١ ,	_ ا	. .		l 🔭	١.	١ ,	١.	ا ۾ ا
	southbound left	None	B ·	5	A B	2 9	None	A	2	A A	2 3.
 -	westbound	Stop sign	С	12	Ь	 	Stop sign	Α	- 1 -		
7.	Mountain Blvd. / Golf Links	C	. E	35	С	19	S	C	13	С	11
1	northbound	Stop sign	1	35	B	5	Stop sign	В	5	A	4
	southbound	Stop sign	B	7	A	3	Stop sign None	I -	2	A	. 2
H	eastbound	None	B B	6	B	7		A B	8	B	5
1	westbound	Stop sign	D	26	C	18	Stop sign	C	19	C	17
8.	Golf Links / I-580 NB ramps	Signal	"	. 26	•	19	Signal	'	, 13		17
H	northbound eastbound left		'								
9.	Golf Links / 98th Ave.	C	C	21	C	17	Signal	С	19	$\frac{1}{C}$	16
٦,	northbound	Signal	.	21	'	1/	Signal ·	•	17		10
	southbound	1 .		l		1				l	
	eastbound	1		'							l
H	westbound westbound					'			İ		
10			 			 	-			-	l. —-
10	northbound left	None	∣ _{(B}	_	A	. 4	None	В	6	A	4
-		None	B	6 5	C	10	None	A	4	B	7
ł	southbound left eastbound (driveway)	Stop	В	9	В	6	Stop	B	9	В	6
11		. эсор	B	 	+ B	 	Згор	- B	 	B	
11	. Mountain Blvd. / Sequoyah	N		2		,	None			Δ.	,
	southbound left	None	A B	5	A A	2 4		A	2 3	A	2 3
1	westbound	Stop sign	В	1 -	^	4	Stop sign	A	+ -	^	
12	. Mountain Blvd. / Fontaine	N.		_	_	,	N	_ ^	1	۸.	,
	southbound left	None	A	2	A B	3 6	None	A B	2 5	A	2 4
L	westbound	Stop sign	<u>B</u>	8	B	6	Stop sign	B	<u> </u>	^_	4

¹Delay in seconds.

Notes: No significant impacts were identified for this alternative.

^{*:} Current construction refers to the widening being done on some segments of 98th Avenue and Golf Links Road.

[&]quot;High" delay indicates extreme values, which are outside the range of the analysis method (generally more than 100 seconds).

4.10 AIR QUALITY

This section addresses air quality impacts. It focuses on carbon monoxide, ozone, small-diameter particulates, asbestos, and lead impacts. The region of influence (ROI) for air quality issues varies according to the type of air pollution being discussed. Pollutants that are directly emitted (such as carbon monoxide and some particulate matter) have a localized ROI generally restricted to areas in the immediate vicinity of the emission source. Pollutants produced by chemical reactions in the atmosphere (such as ozone and secondary particulate matter) have an ROI that includes the entire San Francisco Bay Area.

4.10.1 Significance Criteria

Air quality impacts are judged to be significant if project implementation would directly or indirectly:

- Produce emissions that would cause or contribute to a violation of state or federal ambient air quality standards;
- Cause pollutant emissions in excess of Bay Area Air Quality Management
 District (BAAQMD) impact significance thresholds (80 pounds per day
 for reactive organic compounds, nitrogen oxides, or PM₁₀); and
- Conflict with specific Air Quality Management Plan policies or programs.

The significance criteria for physical air quality impact issues are set largely by the technical procedures used for the impact assessment. When dispersion modeling analyses are performed, the most appropriate impact significance criteria relate to the potential for causing or contributing to violations of federal or state ambient air quality standards. When dispersion modeling analyses are not performed, impact significance is evaluated in the context of appropriate emission thresholds (BAAQMD 1996). Table 4-30 summarizes the air quality impacts of the alternatives. Air emission increases are compared against a closed facility in caretaker status to determine significance. Air emissions based on previous use of NMCO are provided for comparison.

4.10.2 Navy Disposal

Navy disposal of Naval Medical Center Oakland (NMCO) would not affect any of the air quality parameters considered in this section, because Navy disposal is simply a transfer of title, and is in and of itself not an environmentally disruptive action.



Table 4-30 Summary of Air Quality Impact Determinations

	NAVY	ACTIONS:	Salar and	ALTÉR	NATIVES .	
IMPACT ISSUES	Navy Disposal	*No Action- Alternative	Maximum Capacity Alternative	Mixed Use Village Alternative	Single Use Campus Alternative	Residential Alternative
Traffic-related ozone precursor emissions	O	Ф		•	•	•
Traffic-related PM ₁₀ emissions	O	Φ	•	•		•
Dust from demolition and construction	0	0	•	•	•	•
Asbestos and lead particles from demolition and remodeling activities	· O	0	Ф	Φ	Φ.	Ф
Carbon monoxide hot spots	0	Ф	Ф	Ф	· .0	Ф
Consistency with air quality plans	. 0	0	Ф	Ф	Ф	Ф
Federal Agency Clean Air Act conformity regulations	0	· O:	0	0	.0	O :

LEGEND:

Level of Impact

= Signific	ant and not	mitigable
------------	-------------	-----------

Significant and mitigable

O = Nonsignificant

O - None

4.10.3 Maximum Capacity Alternative

Significant Impacts

Traffic-related Ozone Precursor Emissions

Impact 1: A significant and unmitigable impact would result from an increase in traffic-related ozone precursor emissions. Table 4-31 summarizes the estimated daily emissions of reactive organic compounds and nitrogen oxides for the various alternatives (including the No Action Alternative). The Maximum Capacity Alternative would generate emissions above the BAAQMD significance threshold of 80 pounds per day for reactive organic compounds and nitrogen oxide emissions.

The Maximum Capacity Alternative would result in a net increase of approximately 40 pounds per day of reactive organic compounds and 68 pounds per day of nitrogen oxide emissions compared to preclosure emissions from this facility (Table 4-31).

No Mitigation: The air emissions analysis for the Maximum Capacity Alternative already incorporates a general consideration of the number of trips that are reduced by transit use (five percent of total trips) and by linked trips (five percent of total trips). This reduction in trips slightly decreases the estimated volume of air emissions. New roadways within the NMCO site would include sidewalks and bicycle facilities according to City of Oakland standards, which also would decrease the estimated emissions slightly. Current state law effectively requires that trip reduction programs in the Bay Area be voluntary, rather than mandatory. Consequently, there are few mechanisms available to the City of Oakland to achieve significant additional reductions in projected reactive organic compounds and nitrogen oxide emissions from vehicle traffic.

Table 4-31 Estimated Air Emissions

Altemative	Estimated Average Daily Trips	Estimated Daily VMT	3.515.59 (20 x 12 x 12 x 12 x 12 x 12 x 12 x 12 x	ited Emis ounds/da NOx	y)	Preclo (P	Increase Conc oure Conc ounds/da NOx	litions
Preclosure Activity	4,804	74,904	54	112	151	None	None	None
No Action	150	1,649	1	2	3	None	None	None
Maximum Capacity	13,090	143,859	94	180	289	40	68	138
Mixed Use Village	10,070	110,669	72	139	222	18	27	71
Single Use Campus	13,840	152,102	99	191	306	45	79	155
Residential Option 1	6,815	74,897	. 49	94	150	None	None	None
Residential Option 2	8,730	95,943	63	120	193	9	8	42

Notes: ROG = reactive organic compounds

NOx = nitrogen oxides

PM₁₀ = inhalable particulate matter

VMT = vehicle miles traveled

NA - not applicable

Vehicle trip, VMT, and emission estimates for a continuation of preclosure activity levels are based on estimated annual values (Radian corporation 1997), assuming 240 work days per year.

Preclosure scenario emission estimates have adjusted the original 2001 emission rates to reflect 2010 emission rates.

Vehicle trip estimates for reuse alternatives and the No Action Alternative are extrapolated from peak hour trip projections, assuming that 20 percent of daily trips occur during the morning and afternoon peak hour periods.

VMT estimates assumes an average trip distance of about 11 miles for reuse alternatives and 15.6 miles for preclosure activity. Vehicle emission rates calculated with the EMFAC7F emission rate model for the year 2010.

PM₁₀ emission rates include a resuspended roadway dust component (0.69 grams per vmt) as recommended by BAAQMD

Net emission changes are based on a comparison to preclosure activity levels since the current Clean Air Plan assumed an active facility.

Traffic-related PM₁₀ Emissions

<u>Impact</u>: A significant and unmitigable impact would result from an increase in traffic-related PM₁₀ emissions. As indicated by the emission estimates in Table 4-31, traffic associated with the Maximum Capacity Alternative would generate

 PM_{10} emissions above the BAAQMD significance threshold of 80 pounds per day for PM_{10} emissions.

The Maximum Capacity Alternative would result in a net increase of approximately 138 pounds per day of PM₁₀ emissions compared to preclosure PM₁₀ emissions from this facility (Table 4-31).

No Mitigation: The air emissions analysis for the Maximum Capacity Alternative already incorporates a general consideration of the number of trips that are reduced by transit use (five percent of total trips) and by linked trips (five percent of total trips). This reduction in trips slightly decreases the estimated volume of air emissions. New roadways within the NMCO site would include sidewalks and bicycle facilities according to City of Oakland standards, which also would decrease the estimated emissions slightly. Current state law effectively requires that trip reduction programs in the Bay Area be voluntary, rather than mandatory. Consequently, there are few mechanisms available to the City of Oakland to achieve significant additional reductions in projected PM₁₀ emissions from vehicle traffic.

Dust from Demolition and Construction

<u>Impact 3</u>: A significant and mitigable impact would result from dust generation associated with building demolition, renovation, and construction activities. Demolition, construction, and building renovation under the Maximum Capacity Alternative would occur incrementally over an extended buildout period, precluding specific estimates of construction-related emissions for any particular year. Construction-related dust can be reduced to acceptable (nonsignificant) levels by following normal dust control measures.

Mitigation 3: Use the following dust control practices during demolition, construction, and renovation activities:

- Use mowing rather than discing for weed control, thus minimizing ground disturbance and leaving a soil cover in place;
- Seed and water inactive portions of construction sites to maintain a grass cover;
- Minimize the area disturbed by clearing, earthmoving, or excavation activities;
- Prevent excessive dust generation by using water or dust control solutions on all unpaved areas subject to vehicle traffic, grading or excavation;
- Ensure that any petroleum-based dust control products used on the site meet BAAQMD regulations for cutback asphalt paving materials;



- Halt all site clearing, grading, earthmoving, and excavation activities during periods of sustained strong winds (hourly average wind speeds of 20 mph or greater);
- Sweep streets adjacent to the construction site as necessary to remove accumulated dust and soil; and
- Properly maintain all construction vehicles and avoid excessive idling of inactive equipment.

Nonsignificant Impacts

Asbestos and Lead Particles from Demolition and Remodeling Activities. Older buildings on the NMCO site may have lead-based paints and materials containing friable asbestos. Building renovation or demolition activities have the potential to release lead- or asbestos-contaminated materials into the air. Compliance with existing federal state, and BAAQMD regulations during building demolition or remodeling would prevent significant airborne releases of these materials. Consequently, this impact is considered nonsignificant.

Carbon Monoxide Hot Spots. Traffic impact analyses discussed in Section 4.9 identified several roadway intersections that would experience increased traffic congestion under the various alternatives. The potential for localized carbon monoxide problems near these intersections was evaluated with the CALINE4 dispersion model. A comparison of modeling results for the various alternatives (including the No Action Alternative) is presented in Table 4-32. Carbon monoxide emissions generated by the Maximum Capacity Alternative would be below all federal and state carbon monoxide standards as shown in Table 4-32, so this impact is considered nonsignificant.

Consistency with State and Federal Air Quality Plans. Both state and federal air quality legislation require adoption of regional air quality plans that are coordinated with local and regional land use and transportation plans. The 1994 Bay Area Clean Air Plan is based on development patterns and plans that existed in the early 1990s. Consequently, reuse plans for NMCO are not incorporated into the land use, transportation, and air quality forecasts used by current air quality plans.

Differences in development assumptions might represent an environmental impact if regional air quality plans were not regularly updated. State law requires updating of regional air quality plans every three years. A revision to the Bay Area Clean Air Plan is already in progress. Because the required updating of state and federal air quality plans provides an automatic mechanism for addressing the regional air quality impacts of changing land use and transportation plans, this issue is not considered a significant impact.

Summary of Carbon Monoxide Dispersion Modeling Results Table 4-32

					_						
(ppm) Residential Option2	2.3	2.0	2.0	2.3	2.7	2.1	2.2	1.9	2.0	2.0	2.0
ide Concentration (ppm) ative ingletise Residential Residential campus Options	2.3	2.0	2.0	2.2	2.7	2.0	2.0	1.9	2.0	. 2.0	2.0
n:Monoxide Gon. by Alternative. 	2.3	2.0	. 2.0	2.3	2.7	2.1	2.2	1.9	2.0	2.0	2.0
ibon Mon by Alfe Mixed Ute	2.4	2.0	2.0	2.3	2.7	2.2	2.3	1.9	2.0	2.0	2.0
Peal: 8-Hour Carlbon Monoxide Concentration (ppm) by Alternative. Single Use Residents Residents Conton Capacity Compuse Option Option	2.4	2.0	2.0	2.3	2.7	2:2	23	1.9	2.0	2.0	2.0
Peak No Aetion	2.2	. 1.9	1.9	2.2	2.5	2.0	2.0	1.9	1.9	2.0	1.9
ppm) Residențial	3.3	2.9	2.9	3,3	3,8	3.0	3.1	2.7	2.8	.2.9	2.8
Mondylde Concentration (ppm) V.Alternative Single Use Residental Residential duties Coption 2	3.3	2.9	2.9	3.2	. 3.8	2.8	2.9	2.7	2.8	2.8	2.8
Mondylde Cond	3.3	2.8	2.8	3.3	3.8	3.0	3.1	2.7	2.8	. 5.8	2.8
100 m 40 kg - 20 contraction 500	3.4	2.9	2.9	3.3	3.8	3.2	3.3	2.7	2.9 · ·	2.9	5.8
Peak 1:Hour Carbon 	3.4	2.9	2.9	3.3	3.8	3.2	3.3	2.7	2.8	2.9	2.8
Peak 1	3.2	2.7	2.7	3.2	3.6	2.8	2.8	2.7	2.7	2.8	2.7
Receptor Location	NE of Keller Ave. and Mountain Blvd. SE of Keller Ave. and Mountain Blvd.	NW of Keller Ave, and Fontaine St.	SW of Keller Ave. and Fontaine St.	NE of Mountain Blvd. and Shone Ave.	SE of Mountain Blvd, and Shone Ave.	NE of the Main Entrance	SE of the Main Entrance	NW of Mountain Blvd, and Golf Links Rd.	NE of Mountain Blvd. and Golf Links Rd.	SW of Golf Links Rd. and Zoo Drive	SE of Golf Links Rd. and Zoo Drive
	NE of I	NW of	SW of I	NE of I	SE of M	NE of t	SE of th	NW of	NE of 1	SW of C	SE of G

Notes:

ppm = parts per million, by volume NE = northeast, NW = northwest, SE = southeast, SW = southwest.

Modeling results were generated using the CALINE4 dispersion model and EMFAC7F emission rates for the year 2010. Modeled receptor locations are 75 feet from the centerlines of the adjacent roadways.

Emissions from extended vehicle idling at congested intersections are included in the modeling analysis.

Modeling analyses assumed poor dispersion conditions (mild temperature inversion [stability class E.], 2.2 mph wind speed, 50-meter mixing height limit, and 10 degree wind direction fluctuation parameter), with wind directions varied in 10 degree increments.

A background carbon monoxide value of 2 ppm has been added to the peak one-hour modeling results.

Peak eight-hour carbon monoxide concentrations are estimated as 70 percent of the peak one-hour concentration. California carbon monoxide standards are 20 ppm for a one-hour average and 9 ppm for an eight-hour average. Federal carbon monoxide standards are 35 ppm for a one-hour average and 9 ppm for an eight-hour average.

Naval Medical Center Oakland Disposal and Reuse Final EIS/EIR

No Impact

Federal Agency Clean Air Act Conformity Requirements. Section 176 of the Clean Air Act, 42 U.S.C. § 7506, as amended, requires federal agencies to review their activities to ensure that they do not hamper local efforts to control air pollution. This statute prevents federal agencies from conducting activities that do not conform to an approved implementation plan but recognizes certain categorically exempt activities. The conveyance of real property, regardless of the method, is such a categorically exempt activity. Accordingly, disposal of the NMCO property does not require the Navy to conduct a conformity analysis. Interim lease arrangements, however, might be subject to the requirements of the general conformity rule if the proposed use generated significant emissions and the Navy retained some type of control over the land uses associated with the lease. Because the Bay Area either has achieved or would soon achieve all federal air quality standards, the emissions threshold for requiring a formal conformity determination is 100 tons per year. Emissions from any individual interim lease arrangement are not likely to exceed that threshold. Implementation of the Maximum Capacity Alternative would not interfere with plans for achieving and maintaining the federal air quality standards in the Bay Area.

4.10.4 Mixed Use Village Alternative

Significant Impacts

Traffic-related Ozone Precursor Emissions

<u>Impact 1</u>: A significant and unmitigable impact would result from an increase in traffic-related ozone precursor emissions. As indicated by the emission estimates presented in Table 4-31, traffic associated with the Mixed Use Village Alternative would exceed the BAAQMD significance threshold of 80 pounds per day for nitrogen oxide emissions.

The Mixed Use Village Alternative would result in a net increase of approximately 18 pounds per day of reactive organic compounds and 27 pounds per day of nitrogen oxide emissions compared to preclosure emissions from this facility (Table 4-31).

No Mitigation: The air emissions analysis for the Mixed Use Village Alternative already incorporates a general consideration of the number of trips that are reduced by transit use (five percent of total trips) and by linked trips (five percent of total trips). This reduction in trips slightly decreases the estimated volume of air emissions. New roadways within the NMCO site would include sidewalks and bicycle facilities according to City of Oakland

standards, which also would decrease the estimated emissions slightly. Current state law effectively requires that trip reduction programs in the Bay Area be voluntary, rather than mandatory. Consequently, there are few mechanisms available to the City of Oakland to achieve significant additional reductions in projected nitrogen oxide emissions from vehicle traffic.

Traffic-related PM₁₀ Emissions

Impact: A significant and unmitigable impact would result from an increase in traffic-related PM₁₀ emissions. As indicated by the emission estimates presented in Table 4-31, traffic associated with the Mixed Use Village Alternative would exceed the BAAQMD significance threshold of 80 pounds per day for PM₁₀ emissions.

The Mixed Use Village Alternative would result in a net increase of approximately 71 pounds per day of PM₁₀ emissions compared to PM₁₀ emissions from previous use (preclosure activity) of this facility (Table 4-31).

No Mitigation: The air emissions analysis for the Mixed Use Village Alternative already incorporates a general consideration of the number of trips that are reduced by transit use (five percent of total trips) and by linked trips (five percent of total trips). This reduction in trips slightly decreases the estimated volume of air emissions. New roadways within the NMCO site would include sidewalks and bicycle facilities according to City of Oakland standards, which also would decrease the estimated emissions slightly. Current state law effectively requires that trip reduction programs in the Bay Area be voluntary, rather than mandatory. Consequently, there are few mechanisms available to the City of Oakland to achieve significant additional reductions in projected PM₁₀ emissions from vehicle traffic.

Dust from Demolition and Construction

<u>Impact 3:</u> A significant and mitigable impact would result from dust generation associated with building demolition, renovation, and construction activities. This impact would be similar to that discussed for the Maximum Capacity Alternative. Construction-related dust can be reduced to acceptable (nonsignificant) levels by following normal dust control measures.

Mitigation 3: Same as for the Maximum Capacity Alternative.

Nonsignificant Impacts

Asbestos and Lead Particles from Demolition and Remodeling Activities. The potential for airborne release of lead- or asbestos-contaminated materials would



be similar to that discussed for the Maximum Capacity Alternative. Compliance with existing federal, state, and BAAQMD regulations during building demolition or remodeling would prevent significant airborne releases of these materials. Consequently, this impact is considered to be less than significant.

Carbon Monoxide Hot Spots. As indicated by the dispersion modeling results presented in Table 4-32, the Mixed Use Village Alternative would not have a significant impact on local carbon monoxide levels.

Consistency with State and Federal Air Quality Plans. Because required updating of state and federal air quality plans provides an automatic mechanism for addressing the regional air quality impacts of military facility reuse plans, this issue is not considered a significant impact.

No Impact.

Federal Agency Clean Air Act Conformity Requirements. As noted for the Maximum Capacity Alternative, property transfers associated with disposal of the NMCO site are excluded from the requirements of the EPA general conformity rule. In addition, interim lease arrangements are not likely to exceed the de minimis thresholds applicable to the Bay Area. Consequently, implementation of the Mixed Use Village Alternative would not interfere with plans for achieving and maintaining the federal air quality standards in the Bay Area

4.10.5 Single Use Campus Alternative

Significant Impacts

Traffic-related Ozone Precursor Emissions

<u>Impact 1</u>: A significant and unmitigable impact would result from an increase in traffic-related ozone precursor emissions. As indicated by the emission estimates presented in Table 4-31, traffic associated with the Single Use Campus Alternative would exceed the BAAQMD significance threshold of 80 pounds per day for reactive organic compound and nitrogen oxide emissions.

The Single Use Campus Alternative would result in a net increase of approximately 45 pounds per day of reactive organic compounds and 79 pounds per day of nitrogen oxide emissions compared to preclosure emissions from this facility (Table 4-31).

No Mitigation: The air emissions analysis for the Single Use Campus Alternative already incorporates a general consideration of the number of trips



that are reduced by transit use (five percent of total trips) and by linked trips (five percent of total trips). This reduction in trips slightly decreases the estimated volume of air emissions. New roadways within the NMCO site would include sidewalks and bicycle facilities according to City of Oakland standards, which also would decrease the estimated emissions slightly. Current state law effectively requires that trip reduction programs in the Bay Area be voluntary, rather than mandatory. Consequently, there are few mechanisms available to the City of Oakland to achieve significant additional reductions in projected ozone precursor emissions from vehicle traffic.

Traffic-related PM₁₀ Emissions

Control of the Contro

<u>Impact</u>: A significant and unmitigable impact would result from an increase in traffic-related PM₁₀ emissions. As indicated by the emission estimates presented in Table 4-31, traffic associated with the Single Use Campus Alternative would exceed the BAAQMD significance threshold of 80 pounds per day for PM₁₀ emissions.

The Single Use Campus Alternative would result in a net increase of approximately 155 pounds per day of PM₁₀ emissions compared to PM₁₀ emissions from previous use (preclosure activity) of this facility (Table 4-31).

No Mitigation: The air emissions analysis for the Single Use Campus Alternative already incorporates a general consideration of the number of trips that are reduced by transit use (five percent of total trips) and by linked trips (five percent of total trips). This reduction in trips slightly decreases the estimated volume of air emissions. New roadways within the NMCO site would include sidewalks and bicycle facilities according to City of Oakland standards, which also would decrease the estimated emissions slightly. Current state law effectively requires that trip reduction programs in the Bay Area be voluntary, rather than mandatory. Consequently, there are few mechanisms available to the City of Oakland to achieve significant additional reductions in projected PM₁₀ emissions from vehicle traffic.

Dust from Demolition and Construction

<u>Impact 3</u>: A significant and mitigable impact would result from dust generation associated with building demolition, renovation, and construction activities. This impact would be similar to that discussed for the Maximum Capacity Alternative. Construction-related dust is a significant and mitigable impact that can be reduced to acceptable (nonsignificant) levels by following normal dust control measures.

Mitigation 3: Same as for Maximum Capacity Alternative.



Nonsignificant Impacts

Asbestos and Lead Particles from Demolition and Remodeling Activities. The potential for airborne release of lead- or asbestos-contaminated materials would be similar to that discussed for the Maximum Capacity Alternative. Compliance with existing federal, state, and BAAQMD regulations during building demolition or remodeling would prevent significant airborne releases of these materials. Consequently, this impact is considered to be less than significant.

Carbon Monoxide Hot Spots. As indicated by the dispersion modeling results presented in Table 4-32, the Single Use Campus Alternative would not have a significant impact on local carbon monoxide levels.

Consistency with State and Federal Air Quality Plans. Because required updating of state and federal air quality plans provides an automatic mechanism for addressing the regional air quality impacts of military facility reuse plans, this issue is not considered a significant impact.

No Impact

Federal Agency Clean Air Act Conformity Requirements. As noted for the Maximum Capacity Alternative, property transfers associated with disposal of the NMCO site are excluded from the requirements of the EPA general conformity rule. In addition, interim lease arrangements are not likely to exceed the de minimis thresholds applicable to the Bay Area. Consequently, implementation of the Single Use Campus Alternative would not interfere with plans for achieving and maintaining the federal air quality standards in the Bay Area.

4.10.6 Residential Alternative Significant Impacts

Significant Impacts

Traffic-Related Ozone Precursor Emissions

<u>Impact 1</u>: A significant and unmitigable impact would result from an increase in traffic-related ozone precursor emissions. As indicated by the emission estimates presented in Table 4-31, traffic associated with the Residential Alternative (Option 1 or Option 2) would exceed the BAAQMD significance threshold of 80 pounds per day for nitrogen oxide emissions.

Option 2 of the Residential Alternative would result in a net increase of approximately 9 pounds per day of reactive organic compounds and 8 pounds



per day of nitrogen oxide emissions compared to preclosure emissions from this facility (Table 4-31).

No Mitigation: The air emissions analysis for the Residential Alternative already incorporates a general consideration of the number of trips that are reduced by transit use (five percent of total trips) and by linked trips (five percent of total trips). This reduction in trips slightly decreases the estimated volume of air emissions. New roadways within the NMCO site would include sidewalks and bicycle facilities according to City of Oakland standards, which also would decrease the estimated emissions slightly. Current state law effectively requires that trip reduction programs in the Bay Area be voluntary, rather than mandatory. Consequently, there are few mechanisms available to the City of Oakland to achieve significant additional reductions in projected nitrogen oxide emissions from vehicle traffic.

Traffic-Related PM₁₀ Emissions

<u>Impact</u>: A significant and unmitigable impact would result from an increase in traffic-related PM₁₀ emissions. As indicated by the emission estimates presented in Table 4-31, traffic associated with the Residential Alternative (Option 1 or Option 2) would exceed the BAAQMD significance threshold of 80 pounds per day for PM₁₀ emissions.

The Residential Alternative (Option 2) would result in a net increase of approximately 42 pounds per day of PM₁₀ emissions compared to PM₁₀ emissions from previous use (preclosure activity) of this facility (Table 4-31).

No Mitigation: The air emissions analysis for the Residential Alternative already incorporates a general consideration of the number of trips that are reduced by transit use (five percent of total trips) and by linked trips (five percent of total trips). This reduction in trips slightly decreases the estimated volume of air emissions. New roadways within the NMCO site would include sidewalks and bicycle facilities according to City of Oakland standards, which also would decrease the estimated emissions slightly. Current state law effectively requires that trip reduction programs in the Bay Area be voluntary, rather than mandatory. Consequently, there are few mechanisms available to the City of Oakland to achieve significant additional reductions in projected PM₁₀ emissions form vehicle traffic.

Dust from Demolition and Construction

Impact 3: A significant and mitigable impact would result from dust generation associated with building demolition, renovation, and construction activities. Impacts for either Residential Alternative option (Option 1 = 357 units;



Option 2 = 600 units) would be similar to that discussed for the Maximum Capacity Alternative. Construction-related dust is a potentially significant and mitigable impact that can be reduced to acceptable (nonsignificant) levels by following normal dust control measures.

Mitigation 3: Same as for the Maximum Capacity Alternative.

Nonsignificant Impacts

Asbestos and Lead Particles from Demolition and Remodeling Activities. The potential for airborne release of lead- or asbestos-contaminated materials would be similar to that discussed for the Maximum Capacity Alternative. Compliance with existing federal, state, and BAAQMD regulations during building demolition or remodeling would prevent significant airborne releases of these materials. Consequently, this impact is considered to be nonsignificant.

Carbon Monoxide Hot Spots. As indicated by the dispersion modeling results presented in Table 4-32, the Residential Alternative (Option 1) would not have a significant impact on local carbon monoxide levels.

Consistency with State and Federal Air Quality Plans. Because required updating of state and federal air quality plans provides an automatic mechanism for addressing the regional air quality impacts of military facility reuse plans, this issue is not considered a significant impact.

No Impact

Federal Agency Clean Air Act Conformity Requirements. As noted for the Maximum Capacity Alternative, property transfers associated with disposal of the NMCO site are excluded from the requirements of the EPA general conformity rule. In addition, interim lease arrangements are not likely to exceed the de minimis thresholds applicable to the Bay Area. Consequently, implementation of this Residential Alternative would not interfere with plans for achieving and maintaining the federal air quality standards in the Bay Area.

4.10.7 No Action Alternative

Nonsignificant Impacts

Traffic-related Ozone Precursor Emissions. As indicated in Table 4-31, the No Action Alternative would generate only minor amounts of vehicle traffic and ozone precursor emissions are below the BAAQMD threshold.

Traffic related PM_{10} Emissions. As indicated in Table 4-31, the No Action Alternative would generate only minor amounts of vehicle traffic and PM_{10} emissions are below the BAAQMD threshold.

Carbon Monoxide Hot Spots. Caretaker status under the No Action Alternative would generate only minor amounts of additional traffic. As indicated in Table 4-32, this would not have any impact on localized carbon monoxide concentrations.

No Impacts

E-market rate

and the second

100 mm

Dust from Demolition and Construction. The No Action Alternative would not require any significant construction or demolition activity. Consequently, no impacts are anticipated.

Asbestos and Lead Particles from Demolition and Remodeling Activities. The No Action Alternative would not require any significant construction or demolition activity. Consequently, no impacts are anticipated.

Consistency with State and Federal Air Quality Plans. As indicated in Table 4-31, the No Action Alternative would generate minimal vehicle travel and fewer emissions than projected in the existing 1994 Clean Air Plan.

Federal Agency Clean Air Act Conformity Requirements. Retention of the NMCO site in caretaker status under the No Action Alternative is not a federal agency action subject to Clean Air Act conformity determination requirements.

This section addresses noise impacts resulting from project implementation, and determines potential effects of that noise on nearby and on-site sensitive receptors. The region of influence (ROI) for noise impacts is the range of distances at which the human ear is sensitive to varying noise frequencies in the City of Oakland. The introduction to Section 3.11, earlier in this report, describes how noise is analyzed as an environmental impact.

4.11.1 Significance Criteria

Criteria used to analyze the significance of noise impacts are derived from applicable land use compatibility guidelines or from regulatory thresholds established by state or local codes. The noise element of the Oakland Comprehensive Plan discusses land use compatibility criteria used by other agencies, but does not establish precise noise policy guidance for the City of Oakland. Consequently, the state general plan guidelines have been used as a general source of numerical criteria.

Two factors complicate the interpretation of land use compatibility guidelines, such as those presented in the state general plan guidelines. The land use compatibility guidelines are presented in an ambiguous manner, with multiple categories of overlapping noise level ranges, rather than clear distinctions between acceptable and unacceptable noise levels. In addition, land use compatibility criteria are designed for relatively continuous noise sources and may be inadequate for assessing intermittent or temporary noise conditions. Consequently, it is often necessary to develop supplemental criteria that clarify the use and interpretation of land use compatibility guidelines when judging impact significance.

Annoyance effects are the primary consideration for most noise impact assessments. Because the reaction to noise level changes involves both physiological and psychological factors, the magnitude (i.e. amount) of a noise level change can be as important as the resulting overall noise level. A readily noticeable increase in noise levels often will be considered a significant effect by local residents even if the overall noise level is still within land use compatibility guidelines. On the other hand, noise level increases that are not noticeable to most people generally are not considered a significant change, even if the overall noise level is somewhat above land use compatibility guidelines.

The region of influence (ROI) for noise impacts is usually determined on a site-specific basis. For the NMCO site, the ROI includes the site, and nearby areas that are affected primarily by roadway noise. Adjacent roadways and intersections are included in the ROI to the extent that they

have the potential to cause conflicts with land use. It can generally be considered, for the NMCO site, to include about a one-half mile radius around the site, but may vary slightly based on how sound travels locally. Background traffic noise levels are the prime component of the noise ROI as background noise. Other noise sources that could be considered background noise are much quieter than traffic and intersections.

The following noise impact significance criteria are used in this EIS/EIR:

 An adverse impact will occur if an alternative would expose noisesensitive land uses (e.g. residential, educational, and health care uses) to ambient noise levels that are higher than the 60 decibel (dB) land use compatibility criterion.

In addition, alternative-generated noise levels will be considered a significant noise impact under the following conditions:

- A Community Noise Equivalent Level (CNEL) increase of 3 decibels (dB) or more is considered a significant impact if noise-sensitive residential, medical, or educational land uses are affected and if the resulting overall noise level is within 5 dB of the applicable land use compatibility criteria (60 dB for noise-sensitive uses); and
- If a project-related CNEL increase of 1 dB or more affects noise-sensitive land uses (residential, medical, or educational uses) and results in an overall noise level that is 5 dB or more above the applicable land use compatibility criteria.

Temporary noise sources that are restricted to daytime hours (such as most construction and demolition equipment and activities) are considered a significant impact only of they result in noise levels 10 dB or more above the applicable land use compatibility criteria. Noise impacts and their significance are summarized on Table 4-33.

4.11.2 Navy Disposal

No Impacts

Navy disposal is simply a transfer of title, and is in and of itself not an environmentally disruptive action. It would not result in any demolition, construction, or new uses of the facility. Therefore it would cause no significant noise impacts.

Naval Medical Center Oakland Disposal and Reuse Final EIS/EIR



Table 4-33
Summary of Noise Impact Determinations

- 	NAVY ACTIONS ACTERNATIVES								
IMPACT ISSUES	Navy Disposal	No Action Alternative	Maximum Capacity Alternative	Mixed Use Village Alternative	Campus	Residential Alternative			
Construction and demolition	0	· · · O.	. •	O .	•	•			
Noise exposure of proposed land uses	0	0	. •	•	•	•			
Noise/land use compatibility conflicts	0	Ö	, Ф.	Ф	Φ.	Φ			
Noise generated by traffic associated with reuse	0	. 0	Ф	Ф	Ф	Ф			

LEGEND:

Level of Impact

- Significant and not mitigable
- Significant but mitigable
- O Nonsignificant
- O None

4.11.3 Maximum Capacity Alternative

Significant Impacts

Construction and Demolition

Impact 1: A significant and mitigable impact would result from temporary noise disturbance to adjacent land uses associated with demolition, construction, and remodeling of buildings on the NMCO site. Building demolition, new building construction, and roadway reconstruction would be the most prevalent noise sources. Table 4-34 summarizes heavy equipment noise estimates for typical building demolition and roadway reconstruction sites. If heavy equipment operations occur over a daytime eight-hour workday, CNEL increments could exceed 70 dB for locations within about 400 feet of the work site.

Any occupied residential locations within 400 feet of construction sites could experience significant temporary disturbance from construction noise. The Maximum Capacity Alternative is dominated by land uses that are considered noise-sensitive. The phasing of construction and occupancy would determine the extent to which demolition and construction activities cause impacts to on-site land uses. Most existing off-site residential development is far enough away from the major construction areas to avoid significant noise impacts. Construction activities within 400 feet of the

NMCO site boundary could cause temporary noise impacts on the surrounding property.

Table 4-34
Typical Noise Levels During Building Demolition and
Roadway Construction

Receptor	Noise Lev	oise Level Increment (dBA) per Equipment Unit					Combined Equipment Noise (dBA)				
Distance	Bulldozer		Backhoe	Jack-	Truck	Daytime	Evening	Night	CNEL Increment (dB)		
50	85.0	80.0	83.0	. 90.0	85.0	95.2	0.0	0.0	90.5		
100	78.9	73.9	76.9	83.8	79.0	89.1	0.0	0.0	84.3		
. 200	72.7	67.8	. 70.8	77.4 .	72.9	82.8	0.0	0.0	78.0		
400	66.2	61.5	64.5	70.5	66.7	76.2	0.0	0.0	71.4		
600	62.2	57.7	60.7	66.2	- 63.0	72.1	0.0	0.0	67.4		
800	59.3	54.9	57.9	62.9	60.3	69.1	0.0	0.0	64.3		
1,000	56.9	52.6	55.6	60.1	58.1	66.6	0.0	0.0	61.8		
1,500	52.2	48.3	51.3	54.5	54.1	61.8	0.0	0.0	57.1		
2,000	48.6	45.1	48.1	50.0	51.2	58.2	0.0	0.0	53.4		
2,500	45.5	42.4	45.4	46.0	48.7	55.2	0.0	0.0	50.5		
3,000	42.8	40.1	43.1	42.3	46.7	52.7	0.0	0.0	47.9		
4,000	38.0	36.0	39.0	35.7	43.2	48.6	0.0	0.0	43.8		
5,280	32.7	31.7	34.7	28.0	39.6	44.3	. 0.0	0.0	39.6		
7,500	24.6	25.3	28.3	15.7	34.4	38.6	0.0	0.0	33.8		
9,000	19.6	21.4	24.4	7.9	31.3	35.3	0.0	0.0	30.5		
10,560	14.6	. 17.6	20.6	0.1	28.4	32.2	0.0	, 0.0	27.4		

Notes:

Combined equipment noise level and CNEL increment calculations assume one bulldozer, two front end loaders, one backhoe, two jackhammers, and two heavy trucks operating concurrently in proximity to each other over an eight-hour workday.

Distance attenuation calculations include minimum atmospheric absorption rates of 0.229 dB/100 feet for bulldozers, 0.152 dB/100 feet for front-end loaders and backhoes, 0.415 dB/100 feet for jackhammers, and 0.098 dB/100 feet for heavy trucks.

Atmospheric noise absorption rates were calculated from source spectrum data over a range of temperature and humidity conditions; minimum absorption rates (cool temperatures and high humidity) were used for noise calculations to simulate worst-case conditions.

Except for sounds with highly distinctive tonal characteristics, noise from a particular source will not be identifiable when its incremental noise level contribution is significantly less than background noise levels.

Sources: U.S. Environmental Protection Agency 1971; Gharabegian 1985; Acoustical Society of America 1978

Mitigation 1: Construction noise impacts could be reduced by restricting most construction activity to normal daytime periods. Careful phasing of demolition, construction, and remodeling activities should be implemented to minimize the extent to which occupied areas are exposed to construction noise.

Noise Exposure of Proposed Land Uses

Impact 2: A significant and mitigable impact would result from traffic noise. The western side of the NMCO site would experience high noise levels from traffic on I-580 and, to a lesser extent, Mountain Boulevard. Areas within 500 feet of Mountain Boulevard will generally be exposed to CNEL levels above 65 dB. CNEL levels above 65 dB are higher than normally acceptable levels for residential or other noise-sensitive land uses.

Mitigation 2: Indoor noise levels could be adequately reduced through building design. Outdoor noise levels could be controlled through the use of berms/soundwalls, vegetation buffer areas, building configurations, and other site planning tools, or by placing sensitive land uses beyond 500 feet from Mountain Boulevard.

Nonsignificant Impacts

Land Use Compatibility. The Maximum Capacity Alternative does not include any land use categories that would generate potentially significant noise beyond construction. Consequently, no significant noise-related land use conflicts are anticipated.

Noise Generated by Traffic Associated with Reuse. Traffic generated by reuse is not expected to cause any significant noise impacts under the Maximum Capacity Alternative. Although this alternative will add traffic to the local highway system, the amount of new traffic will add less than 0.5 dB to ambient CNEL levels. This alternative will not cause a significant increase in ambient noise levels.

4.11.4 Mixed Use Village Alternative

Significant Impacts

Construction and Demolition

<u>Impact 1</u>: A significant and mitigable impact would result from temporary noise disturbance associated with demolition, construction, and remodeling of buildings at the NMCO site. This impact would be similar to that discussed for the Maximum Capacity Alternative.

Mitigation 1: Construction noise impacts should be reduced to acceptable levels by restricting most construction activity to normal daytime periods. Careful phasing of demolition, construction, and remodeling activities should be implemented to minimize the extent to which occupied areas are exposed to construction noise.

Noise Exposure of Proposed Land Uses

Impact 2: A significant and mitigable impact would result from traffic noise. As discussed under the Maximum Capacity Alternative, noise-sensitive land uses planned for the western side of the NMCO site would experience high noise levels from traffic.

Mitigation 2: Indoor noise levels could be adequately reduced through building design. Outdoor noise levels could be controlled through the use of berms/soundwalls, vegetation buffer areas, building configurations, and other site planning tools, or by placing sensitive land uses beyond 500 feet from Mountain Boulevard.

Nonsignificant Impacts

Land Use Compatibility. The Mixed Use Village Alternative does not include any land use categories that would generate potentially significant noise. Consequently, no significant noise-related land use conflicts are anticipated.

Noise Generated by Traffic Associated with Reuse. Traffic generated by reuse is not expected to cause any significant noise impacts under the Mixed Use Village Alternative. Although this alternative will add traffic to the local highway system, the amount of new traffic will add less than 0.5 dB to ambient CNEL levels. This alternative will not cause a significant increase in ambient noise levels.

4.11.5 Single Use Campus Alternative

Significant Impacts

Construction and Demolition

Impact 1: A significant and mitigable impact would result from temporary noise disturbance associated with demolition, construction, and remodeling of buildings at the NMCO site. This impact would be similar to that discussed for the Maximum Capacity Alternative.

Mitigation 1: Construction noise impacts should be reduced to acceptable levels by restricting most construction activity to normal daytime periods. Careful phasing of demolition, construction, and remodeling activities should be implemented to minimize the extent to which occupied areas are exposed to construction noise.

Noise Exposure of Proposed Land Uses

Impact 2: A significant and mitigable impact would result from traffic noise. As discussed under the Maximum Capacity Alternative, noise-sensitive land uses planned for the western side of the NMCO site would experience high noise levels from traffic.

Mitigation 2: Indoor noise levels could be adequately reduced through building design. Outdoor noise levels could be controlled through the use of berms/soundwalls, vegetation buffer areas, building configurations, and other site planning tools, or by placing sensitive land uses beyond 500 feet from Mountain Boulevard.

Nonsignificant Impacts

Land Use Compatibility. The Single Use Campus Alternative does not include any land use categories that would generate potentially significant noise. Consequently, no significant noise-related land use conflicts are anticipated.

Noise Generated by Traffic Associated with Reuse. Traffic generated by reuse is not expected to cause any significant noise impacts under the Single Use Campus Alternative. Although this alternative will add traffic to the local highway system, the amount of new traffic will add less than 0.5 dB to ambient CNEL levels. This alternative will not cause a significant increase in ambient noise levels.

4.11.6 Residential Alternative

Significant Impacts

Construction and Demolition

<u>Impact 1</u>: A significant and mitigable impact would result from temporary noise disturbance associated with demolition, construction, and remodeling of buildings at the NMCO site. This impact would be similar to that discussed for the Maximum Capacity Alternative.

Mitigation 1: Construction noise impacts should be reduced to acceptable levels by restricting most construction activity to normal daytime periods. Careful phasing of demolition, construction, and remodeling activities should be implemented to minimize the extent to which occupied areas are exposed to construction noise.

Noise Exposure of Proposed Land Uses

Impact 2: A significant and mitigable impact would result from traffic noise. As discussed under the Maximum Capacity Alternative, noise-sensitive land uses planned for the western side of the NMCO site would experience high noise levels from traffic.

Mitigation 2: Indoor noise levels could be adequately reduced through building design. Outdoor noise levels could be controlled through the use of berms/soundwalls, vegetation buffer areas, building configurations, and other site planning tools, or by placing sensitive land uses beyond 500 feet from Mountain Boulevard.

Nonsignificant Impacts

Land Use Compatibility. The Residential Alternative does not include any land use categories that would include potentially significant noise sources. Consequently, no significant noise-related land use conflicts are anticipated.

Noise Generated by Traffic Associated with Reuse. Traffic generated by reuse is not expected to cause any significant noise impacts under the Residential Alternative. Although this alternative will add traffic to the local highway system, the amount of new traffic will add less than 0.5 dB to ambient CNEL levels. This alternative will not cause a significant increase in ambient noise levels.

4.11.7 No Action Alternative

No Impacts

Construction and Demolition. The No Action Alternative would not require any significant construction activities. Consequently, no construction-related noise impacts are anticipated.

Noise Exposure of Proposed Land Uses. Caretaker status would not develop noise-sensitive land uses in areas of high noise levels. Consequently, no impacts are expected.

Land Use Compatibility. Caretaker status under the No Action Alternative would not produce any significant active land uses at the NMCO site. No noise-related land use compatibility impacts are anticipated.

Traffic. The No Action Alternative would not generate any significant onsite or off-site traffic. Consequently, there would be no traffic-related onsite or off-site noise impacts.

Naval Medical Center Oakland
Disposal and Reuse Final EIS/EIR

4.12 UTILITIES

This section analyzes the impacts of Naval Medical Center Oakland (NMCO) disposal and the development alternatives on existing utilities. Utilities covered include the water distribution, wastewater, storm drainage, electrical, natural gas, telephone, and solid waste management systems. The region of influence used in this analysis is the NMCO property boundaries, and, in the case of solid waste, regional landfill capacity that could be affected by demolition waste.

4.12.1 Significance Criteria

An alternative may have significant effects on a utility or service if it would increase demand in excess of utility system or service capacity to the point that substantial expansion would be necessary. Significant environmental impacts also could result from system deterioration due to improper maintenance or extension of service beyond its useful life. Effects also would be identified as significant if federal, state, or local standards or requirements regulating a public utility system would be violated.

Table 4-35
Summary of Utilities Impact Determinations

42.4.2	NAVY	ACTIONS	ALTERNATIVES				
IMPACTISSUES	Navy Disposal	No Action Alternative	Capacity	Mixed Use Village Alternative	Campus	Residential Alternative	
Landfill capacity (due to demolition)	0	0	Ф	Φ	Ф	Ф	
Water distribution system	. 0	O	Ф	Ф	. Ф	Φ	
Potable water supply	0	0	•	Ф	Φ ,	, Ф,	
Sanitary sewer system	0	0	Ф	Ф	. •	Ф	
Stormwater drainage system	. 0	0	. Φ	Ф	Φ	. Ф	
Electrical system	0	0	Ф	Φ .	<u>,</u> (1)	Ф	
Natural gas system	0	0	0	. 0	0	0	
Telephone system	0 '	0	0	0	0	10	

LEGEND:

Level of Impact

Significant and not mitigable

Significant and mitigable

Wonsignificant

O - None

Each of the four reuse alternatives include the types and quantities of development, such as commercial and residential, that result in nominally similar utilities demands. None of the alternatives include land uses such as industrial plants or manufacturing that would require relatively large quantities of utilities to

support their operations. The alternative with maximum employment is the Single Use Campus Alternative, which projects 1,150 employees. The existing utilities infrastructure at NMCO was sized to serve up to 3,000 employees. Therefore, in applying these significance criteria, it does not appear that development of any of the four reuse alternatives would pose capacity problems for the existing utilities systems.

4.12.2 Navy Disposal

- F.

No Impacts

No impacts to utility systems are anticipated as a result of Navy disposal. Disposal is simply a transfer of title, and is in and of itself not an environmentally disruptive action.

4.12.3 Maximum Capacity Alternative

Significant Impacts

Impact 1: Potable Water Supply. A significant and mitigable impact would result from an increased water supply demand of about 112 percent over the historic annual demand. The Maximum Capacity Alternative is estimated to increase population in the region of influence by 3,006 which includes 1,565 residential users, and 1,441 commercial users (please see Table 4-5). Multiplying 1,565 residential users times an estimated 120 gallons per day per residential user (Department of Water Resources 1994a) equals 187, 800 gallons of residential use per day. Multiplying 1,441 commercial users times an estimated 70 gallons per day per commercial user (Department of Water Resources 1994b) equals 100,870 gallons of commercial use per day. Adding these estimated daily residential (187,800 gallons) and commercial (100,870 gallons) uses equals 288,670 gallons per day estimated water use on-site. Multiplying this use rate times 365 days subtotals 105,364,550 gallons per year. Adding an estimated 85,490,000 gallons per year to irrigate the 83-acre golf course (based on an irrigation rate of 1.03 million gallons per acre per year) totals 190,854,550 gallons per year estimated potable water demand. This represents an increase of about 112 percent over the estimated historic annual use of 90,000,000 gallons per year.

Mitigation 1: The City of Oakland will expressly identify the water supplier(s) that will provide water service to the alternative (Cal. Pub. Res. Code Section 21151.9; Cal. Wat. Code Sections 10910-10915). The City will ask those suppliers whether the water demand associated with the alternative has been included and assessed in the suppliers' urban water management plans, and will require such plans to be updated to account for estimated demand from this alternative. Government Code Sections 65352 and 65352.5 require cities to consult with water suppliers in connection with such proposed projects. Moreover, Government Code Section

65302, subdivision (d), requires cities to coordinate with such suppliers in preparing the conservation elements of their general plans. That coordination is required to include the discussion and evaluation of any water supply and demand information described in Section 65352.5, if that information has been submitted by the water agency to the city. In addition to supplier identification and coordination, the following best management practices will be implemented by future site developers:

- Interior and exterior water audits and incentive programs for single family residential, multi-family residential, and commercial users;
- requirement of ultra low flush toilets in all new construction;
- distribution system water audits, leak detection and repair;
- metering for all new connections and billing by volume of use;
- large landscape water audits (golf course and recreational areas);
- landscape water conservation for new single family homes; and
- water waste prohibitions.

Implementation of these water conservation practices will be consistent with the guidelines and schedules set forth in the Memorandum of Understanding Regarding Urban Water Conservation in California (California Urban Water Conservation Council 1994). Supplier identification, coordination, and best management practices implementation would reduce water supply impacts to a less than significant level by ensuring that the water supply system will have adequate capacity prior to development approval.

Nonsignificant Impacts

Landfill Capacity. For normal continuation of solid waste disposal at the NMCO property after buildout of the Maximum Capacity Alternative, it is anticipated that disposal would be handled by the City of Oakland through a private contractor. However, the demolition of unwanted structures and paving would result in the generation of significant amounts of construction and demolition debris.

At the end of 1994, estimated remaining refuse capacity for the Altamont Landfill was about 19 million tons. At the 1994 rate of fill, the facility would reach capacity in the year 2006 (Alameda County Waste Management Authority 1995). Projections in the Alameda County Integrated Waste Management Plan indicate that total demand for landfill capacity through the 15 year planning period (i.e. through the year 2010) is about 40 million tons. Alameda County landfill capacity

demand (i.e. for waste generated within Alameda County) for that period amounts to about 24 million tons through the year 2010 (Alameda County Waste Management Authority 1995).

Current countywide landfill capacity is 32,440,114 tons, which is equivalent to 45,242,896 cubic yards (Alameda County Waste Management Authority 1995). There is therefore a current capacity shortfall of about eight million tons of landfill capacity to meet projected needs through the year 2010.

Demolition of the hospital and all other buildings that would not be used as part of one of the development alternatives, would result in about 71,346 tons of waste. Of this total, an estimated 36,616 tons, or about 51 percent of the demolition waste would be generated by demolishing the hospital building. Demolition of the remaining buildings would amount to the remaining 34,730 tons. The 71,346 tons of waste represents less than one percent of the existing landfill capacity. Directly, this is considered a nonsignificant impact because the less than one percent impact on available landfill capacity does not cause substantial expansion of existing landfill capacity. However, it is a cumulatively significant impact over the long term, and considered in combination with present and future regional impacts to landfill capacity, and is discussed as such in Chapter 5.

Due to the significant reductions in total structures and the combined employment and total number of residents compared to historical levels at NMCO, the capacity of the existing systems to serve the proposed development for this alternative should not be significantly impacted. Overall utilities consumption may be slightly higher than that of the other alternatives due to the combined residential (584 units) and moderate built area (553,000 square feet).

Water Distribution System. Although many of the system's oldest lines were replaced following the 1985 Bechtel study recommendations (U.S. Navy 1985), many of the cast-iron lines constructed in 1942 are still in place. Many of these lines would require replacement over the next 10 to 20 years. The existing fire protection capacity and hydrant spacing are adequate to meet City of Oakland standards, although mains and hydrants would require replacement to serve new street and building locations.

The low flow pressure that exists in the upper floors of Building #500 (the hospital building) could best be corrected by installation of a standby fire pump, following the recommendations of the Bechtel study (if the hospital were not immediately demolished). In addition, a small booster system was recommended to meet low potable water pressures at the officers quarters above Building #500. The Maximum Capacity Alternative does not indicate contemplated high-rise development on the hillside. If this is not the case, systems similar to those discussed above would need to be included to provide adequate fire protection



and domestic water pressure for such facilities.

Sanitary Sewer System. Considering the good condition and satisfactory capacity of the existing Public Works Center San Francisco Bay mains, combined with the existing 12-inch City of Oakland mains that traverse the NMCO property from north to south, development of the Maximum Capacity Alternative should create no significant impact on the effectiveness of the existing system.

Stommuter Drainage System. The existing stormwater drainage system provides adequate capacity for the NMCO property. The Maximum Capacity Alternative decreases the area covered with impervious surfaces and increases open space or landscaping within the NMCO property, which would decrease stormwater runoff from the property. Therefore, development of this reuse alternative should have no significant impact on the capacity of the existing stormwater drainage system. All new development must be planned specifically to include required best management practices to meet discharge standards in accordance with National Pollution Discharge Elimination System regulations.

Electrical System. With the cessation of the hospital operation, the existing 12-kilovolt system would provide adequate capacity for the Maximum Capacity Alternative. Although many of the existing poles are deteriorated and would need replacement in the near future, it is anticipated that such improvements, including metering and possibly placing transmission lines underground, would be completed on an individual basis as new customers request service.

Natural Gas. The Pacific Gas and Electric Company has indicated that it would have adequate capacity to serve the Maximum Capacity Alternative at the site (Theresa Hughes & Associates 1995). With the abandonment of the extensive steam distribution system that previously served buildings throughout the property, the historical natural gas demand has been reduced significantly in recent years. The Pacific Gas and Electric Company and Public Works Center San Francisco Bay lines within the property are in good condition, so that supply to new customers should involve only minimal rehabilitation work in combination with installation of meters to each new facility.

Telephone System. Pacific Bell has indicated that service can be provided to all new customers associated with the Maximum Capacity Alternative (Theresa Hughes & Associates 1995). Development of this alternative would have no impact on the system capacity.

4.12.4 Mixed Use Village Alternative

Nonsignificant Impacts

Landfill Capacity. For normal continuation of solid waste disposal at the NMCO

property after buildout of the Mixed Use Village Alternative, it is anticipated that disposal would be handled by the City of Oakland through a private contractor. However, the demolition of unwanted structures and paving would result in the generation of significant amounts of construction and demolition debris.

At the end of 1994, estimated remaining refuse capacity for the Altamont Landfill was about 19 million tons. At the 1994 rate of fill, the facility would reach capacity in the year 2006 (Alameda County Waste Management Authority 1995). Projections in the Alameda County Integrated Waste Management Plan indicate that total demand for landfill capacity through the 15 year planning period (i.e. through the year 2010) is about 40 million tons. Alameda County landfill capacity demand (i.e. for waste generated within Alameda County) for that period amounts to about 24 million tons through the year 2010 (Alameda County Waste Management Authority 1995).

Current countywide landfill capacity is 32,440,114 tons, which is equivalent to 45,242,896 cubic yards (Alameda County Waste Management Authority 1995). There is therefore a current capacity shortfall of about eight million tons of landfill capacity to meet projected needs through the year 2010.

Demolition of the hospital and all other buildings that would not be used as part of one of the development alternatives, would result in about 71,346 tons of waste. Of this total, an estimated 36,616 tons, or about 51 percent of the demolition waste would be generated by demolishing the hospital building. Demolition of the remaining buildings would amount to the remaining 34,730 tons. The 71,346 tons of waste represents less than one percent of the existing landfill capacity. Directly, this is considered a nonsignificant impact because the less than one percent impact on available landfill capacity does not cause substantial expansion of existing landfill capacity. However, it is a cumulatively significant impact over the long term, and considered in combination with present and future regional impacts to landfill capacity, and is discussed as such in Chapter 5.

Due to the significant reductions in total structures and the combined employment and total number of residents compared to historical levels at NMCO, the capacity of the existing systems to serve the proposed development for this alternative should not be significantly impacted. Overall utilities consumption may be slightly higher than that of the other alternatives due to the combined residential (90 units) and built area (729,000 square feet).

Water Distribution System. Although many of the system's oldest lines were replaced following the 1985 Bechtel study recommendations (U.S. Navy 1985), many of the cast-iron lines constructed in 1942 are still in place. Many of these lines would require replacement over the next 10 to 20 years. The existing fire protection capacity and hydrant spacing are adequate to meet City of Oakland

standards, although mains and hydrants would require replacement to serve new street and building locations under reuse.

The low flow pressure that exists in the upper floors of Building #500 (the hospital building) could best be corrected by installation of a standby fire pump, following the recommendations of the Bechtel study (if the hospital were not immediately demolished). In addition, a small booster system was recommended to meet low potable water pressures at the officers quarters above Building #500. The Mixed Use Village Alternative does not indicate contemplated high-rise development on the hillside. If this is not the case, systems similar to those discussed above would need to be included to provide adequate fire protection and domestic water pressure for such facilities.

Potable Water Supply. The Mixed Use Village Alternative is estimated to increase population in the region of influence by 2,532 which includes 241 residential users, and 2,291 commercial users (please see Table 4-5). Multiplying 241 residential users times an estimated 120 gallons per day per residential user (Department of Water Resources 1994a) equals 28,920 gallons of residential use per day. Multiplying 2,291 commercial users times an estimated 70 gallons per day per commercial user (Department of Water Resources 1994b) equals 160,370 gallons of commercial use per day. Adding these estimated daily residential (28,920 gallons) and commercial (160,370 gallons) uses equals 189,290 gallons per day estimated water use on-site. Multiplying this use rate times 365 days totals 69,090,850 gallons per year. This represents about 77 percent of the estimated historic annual use of 90,000,000 gallons per year, and is not a significant water supply impact.

Sanitary Sewer System. Considering the good condition and satisfactory capacity of the existing Public Works Center San Francisco Bay mains, combined with the existing 12-inch City of Oakland mains that traverse the NMCO property from north to south, development of any of the Mixed Use Village Alternative should create no significant impact on the effectiveness of the existing system.

Stommuster Drainage System. The existing stormwater drainage system provides adequate capacity for the NMCO property. The Mixed Use Village Alternative decreases the area covered with impervious surfaces and increases open space or landscaping within the NMCO property, which would decrease stormwater runoff from the property. Therefore, development of this reuse alternative should have no significant impact on the capacity of the existing stormwater drainage system. All new development must be planned specifically to include required best management practices to meet discharge standards in accordance with National Pollution Discharge Elimination System regulations.

Electrical System. With the cessation of the hospital operation, the existing 12-kilovolt system would provide adequate capacity for the Mixed Use Village

Alternative. Although many of the existing poles are deteriorated and would need replacement in the near future, it is anticipated that such improvements, including metering and possibly placing transmission lines underground, would be completed on an individual basis as new customers request service.

Natural Gas. The Pacific Gas and Electric Company has indicated it would have adequate capacity to serve the Mixed Use Village Alternative at the site (Theresa Hughes & Associates 1995). With the abandonment of the extensive steam distribution system that previously served buildings throughout the property, the historical natural gas demand has been reduced significantly in recent years. The Pacific Gas and Electric Company and Public Works Center San Francisco Bay lines within the property are in good condition, so that supply to new customers should involve only minimal rehabilitation work in combination with installation of meters to each new facility.

Telephone System. Pacific Bell has indicated that service can be provided to all new customers associated with the Mixed Use Village Alternative (Theresa Hughes & Associates 1995). Development of this alternative would have no impact on the system capacity.

4.12.5 Single Use Campus Alternative

Nonsignificant Impacts

Landfill Capacity. For normal continuation of solid waste disposal at the NMCO property after buildout of the Single Use Campus Alternative, it is anticipated that disposal would be handled by the City of Oakland through a private contractor. However, the demolition of unwanted structures and paving would result in the generation of significant amounts of construction and demolition debris.

At the end of 1994, estimated remaining refuse capacity for the Altamont Landfill was about 19 million tons. At the 1994 rate of fill, the facility would reach capacity in the year 2006 (Alameda County Waste Management Authority 1995). Projections in the Alameda County Integrated Waste Management Plan indicate that total demand for landfill capacity through the 15 year planning period (i.e. through the year 2010) is about 40 million tons. Alameda County landfill capacity demand (i.e. for waste generated within Alameda County) for that period amounts to about 24 million tons through the year 2010 (Alameda County Waste Management Authority 1995).

Current countywide landfill capacity is 32,440,114 tons, which is equivalent to 45,242,896 cubic yards (Alameda County Waste Management Authority 1995). There is therefore a current capacity shortfall of about eight million tons of landfill capacity to meet projected needs through the year 2010.



Demolition of the hospital and all other buildings that would not be used as part of one of the development alternatives, would result in about 71,346 tons of waste. Of this total, an estimated 36,616 tons, or about 51 percent of the demolition waste would be generated by demolishing the hospital building. Demolition of the remaining buildings would amount to the remaining 34,730 tons. The 71,346 tons of waste represents less than one percent of the existing landfill capacity. Directly, this is considered a nonsignificant impact because the less than one percent impact on available landfill capacity does not cause substantial expansion of existing landfill capacity. However, it is a cumulatively significant impact over the long term, and considered in combination with present and future regional impacts to landfill capacity, and is discussed as such in Chapter 5.

Due to the significant reductions in total structures and the combined employment and total number of residents compared to historical levels at NMCO, the capacity of the existing systems to serve the proposed development for this alternative should not be significantly impacted. Overall utilities consumption may be slightly higher than that of the other alternatives due to the built area (828,000 square feet).

Water Distribution System. Although many of the system's oldest lines were replaced following the 1985 Bechtel study recommendations (U.S. Navy 1985), many of the cast-iron lines constructed in 1942 are still in place. Many of these lines would require replacement over the next 10 to 20 years. The existing fire protection capacity and hydrant spacing are adequate to meet City of Oakland standards, although mains and hydrants would require replacement to serve new street and building locations.

The low flow pressure that exists in the upper floors of Building #500 (the hospital building) could best be corrected by installation of a standby fire pump, following the recommendations of the Bechtel study (if the hospital were not immediately demolished). In addition, a small booster system was recommended to meet low potable water pressures at the officers quarters above Building #500. The Single Use Campus Alternative does not indicate contemplated high-rise development on the hillside. If this is not the case, systems similar to those discussed above would need to be included to provide adequate fire protection and domestic water pressure for such facilities.

Potable Water Supply. The Single Use Campus Alternative is estimated to increase population in the region of influence by 2,312 commercial users (please see Table 4-5). Multiplying 2,312 commercial users times an estimated 70 gallons per day per commercial user (Department of Water Resources 1994b) equals 161,840 gallons of commercial use per day. Multiplying this use rate times 365 days totals 59,071,600 gallons per year estimated potable water demand. This represents about 66 percent of the estimated historic annual use of 90,000,000 gallons per

year, and is not a significant water supply impact.

Sanitary Sewer System. Considering the good condition and satisfactory capacity of the existing Public Works Center San Francisco Bay mains, combined with the existing 12-inch City of Oakland mains that traverse the NMCO property from north to south, development of any of the Single Use Campus Alternative should create no significant impact on the effectiveness of the existing system.

Stommuter Drainage System. The existing stormwater drainage system provides adequate capacity for the NMCO property. The Single Use Campus Alternative decreases the area covered with impervious surfaces and increases open space or landscaping within the NMCO property, which would decrease stormwater runoff from the property. Therefore, development of this reuse alternative should have no significant impact on the capacity of the existing stormwater drainage system. All new development must be planned specifically to include required best management practices to meet discharge standards in accordance with National Pollution Discharge Elimination System regulations.

Electrical System. With the cessation of the hospital operation, the existing 12-kilovolt system would provide adequate capacity for the Single Use Campus Alternative. Although many of the existing poles are deteriorated and would need replacement in the near future, it is anticipated that such improvements, including metering and possibly placing transmission lines underground, would be completed on an individual basis as new customers request service.

Natural Gas. The Pacific Gas and Electric Company has indicated it would have adequate capacity to serve the Single Use Campus Alternative at the site (Theresa Hughes & Associates 1995). With the abandonment of the extensive steam distribution system that previously served buildings throughout the property, the historical natural gas demand has been reduced significantly in recent years. The Pacific Gas and Electric Company and Public Works Center San Francisco Bay lines within the property are in good condition, so that supply to new customers should involve only minimal rehabilitation work in combination with installation of meters to each new facility.

Telephone System. Pacific Bell has indicated that service can be provided to all new customers associated with the Single Use Campus Alternative (Theresa Hughes & Associates 1995). Development of this alternative would have no impact on the system capacity.

4.12.6 Residential Alternative

Nonsignificant Impacts

No significant impacts to utilities systems or waste management service and

landfill capacity would result under the Residential Alternative.

Landfill Capacity. For normal continuation of solid waste disposal at the NMCO property after buildout of the Residential Alternative, it is anticipated that disposal would be handled by the City of Oakland through a private contractor. However, the demolition of unwanted structures and paving would result in the generation of significant amounts of construction and demolition debris.

At the end of 1994, estimated remaining refuse capacity for the Altamont Landfill was about 19 million tons. At the 1994 rate of fill, the facility would reach capacity in the year 2006 (Alameda County Waste Management Authority 1995). Projections in the Alameda County Integrated Waste Management Plan indicate that total demand for landfill capacity through the 15 year planning period (i.e. through the year 2010) is about 40 million tons. Alameda County landfill capacity demand (i.e. for waste generated within Alameda County) for that period amounts to about 24 million tons through the year 2010 (Alameda County Waste Management Authority 1995).

Current countywide landfill capacity is 32,440,114 tons, which is equivalent to 45,242,896 cubic yards (Alameda County Waste Management Authority 1995). There is therefore a current capacity shortfall of about eight million tons of landfill capacity to meet projected needs through the year 2010.

Demolition of the hospital and all other buildings that would not be used as part of one of the development alternatives, would result in about 71,346 tons of waste. Of this total, an estimated 36,616 tons, or about 51 percent of the demolition waste would be generated by demolishing the hospital building. Demolition of the remaining buildings would amount to the remaining 34,730 tons. The 71,346 tons of waste represents less than one percent of the existing landfill capacity. Directly, this is considered a nonsignificant impact because the less than one percent impact on available landfill capacity does not cause substantial expansion of existing landfill capacity. However, it is a cumulatively significant impact over the long term, and considered in combination with present and future regional impacts to landfill capacity, and is discussed as such in Chapter

Due to the significant reductions in total structures and the combined employment and total number of residents compared to historical levels at NMCO, the capacity of the existing systems to serve the proposed development for this alternative should not be significantly impacted. Overall utilities consumption would be moderate in comparison to the other alternatives due to the combined residential (357 to 600 units) and moderate built area (83,000 square feet).

Water Distribution System. Although many of the system's oldest lines were

replaced following the 1985 Bechtel study recommendations (U.S. Navy 1985), many of the cast-iron lines constructed in 1942 are still in place. Many of these lines would require replacement over the next 10 to 20 years. The existing fire protection capacity and hydrant spacing are adequate to meet City of Oakland standards, although mains and hydrants would require replacement to serve new street and building locations.

The low flow pressure that exists in the upper floors of Building #500 (the hospital building) could best be corrected by installation of a standby fire pump, following the recommendations of the Bechtel study (if the hospital were not immediately demolished). In addition, a small booster system was recommended to meet low potable water pressures at the officers quarters above Building #500. The Residential Alternative does not indicate contemplated high-rise development on the hillside. If this is not the case, systems similar to those discussed above would need to be included to provide adequate fire protection and domestic water pressure for such facilities.

Potable Water Supply. The Residential Alternative is estimated to increase population in the region of influence from 1,299 (low density option) to 1,990 (high density option). Please see Table 4-5. Residential users could range from 957 to 1,608. Multiplying 957 and 1,608 residential users times an estimated 120 gallons per day per residential user (Department of Water Resources 1994a) equals a range of 114,840 (low density option) to 192,960 (high density option) gallons of residential use per day. Multiplying the range of 342 to 382 commercial users times an estimated 70 gallons per day per commercial user (Department of Water Resources 1994b) equals a range of 23,940 (low density option) to 26,740 (high density option) gallons of commercial use per day. Adding estimated low density option residential (114,840 gallons) and commercial (23,940 gallons) results in an estimated daily water use rate of 138,780 gallons per day. Multiplying this daily rate times 365 days per year totals 50,654,700 gallons per year. This represents about 56 percent of the historic use of 90,000,000 gallons per year, and is not a significant water supply impact.

Adding estimated high density option residential (192,960 gallons) and commercial (26,740 gallons) results in an estimated daily water use rate of 219,700 gallons per day. Multiplying this daily rate times 365 days per year totals 80,190,500 gallons per year. This represents about 89 percent of the historic use of 90,000,000 gallons per year, and is not a significant water supply impact.

Sanitary Sewer System. Considering the good condition and satisfactory capacity of the existing Public Works Center San Francisco Bay mains, combined with the existing 12-inch City of Oakland mains that traverse the NMCO property from north to south, development of any of the Residential Alternative should create no significant impact on the effectiveness of the existing system.

7

Stommuter Drainage System. The existing stormwater drainage system provides adequate capacity for the NMCO property. The Residential Alternative decreases the area covered with impervious surfaces and increases open space or landscaping within the NMCO property, which would decrease stormwater runoff from the property. Therefore, development of this reuse alternative should have no significant impact on the capacity of the existing stormwater drainage system. All new development must be planned specifically to include required best management practices to meet discharge standards in accordance with National Pollution Discharge Elimination System regulations.

Electrical System. With the cessation of the hospital operation, the existing 12-kilovolt system would provide adequate capacity for the Residential Alternative. Although many of the existing poles are deteriorated and would need replacement in the near future, it is anticipated that such improvements, including metering and possibly placing transmission lines underground, would be completed on an individual basis as new customers request service.

Natural Gas. The Pacific Gas and Electric Company has indicated it would have adequate capacity to serve the Residential Alternative at the site (Theresa Hughes & Associates 1995). With the abandonment of the extensive steam distribution system that previously served buildings throughout the property, the historical natural gas demand has been reduced significantly in recent years. The Pacific Gas and Electric Company and Public Works Center San Francisco Bay lines within the property are in good condition, so that supply to new customers should involve only minimal rehabilitation work in combination with installation of meters to each new facility.

Telephone System. Pacific Bell has indicated that service can be provided to all new customers associated with the Residential Alternative (Theresa Hughes & Associates 1995). Development of this alternative would have no impact on the system capacity.

Due to the low amounts of employment and built commercial area (83,000 square feet), both options in this alternative would require lower utilities consumption than the previous three alternatives. Although the single family residential units planned for this alternative would result in more utilities consumption during nonworking hours than the Mixed Use Village and Single Use Campus Alternatives, it is estimated that the usage during working hours would be light compared with the heavy working hours usage of the Mixed Use Village and Single Use Campus alternatives.

4.12.7 No Action Alternative

No Impacts

No utilities impacts would be expected. This alternative would place the NMCO property in a caretaker status. On-site activity would be limited to security, maintenance, and environmental cleanup activities.

4.13 HAZARDOUS MATERIALS AND WASTE

This section addresses the potential for environmental impacts caused by hazardous material and hazardous waste-related activities associated with disposal and with implementation of the development alternatives. Hazardous materials and wastes, asbestos, polychlorinated biphenyls (PCBs), storage tanks, pesticides, lead, nuclear medical materials and waste, medical/biohazardous wastes, and ordnance (i.e. military weapons, ammunition, and related supplies) are discussed in this section. The region of influence relative to hazardous material and waste issues is the Naval Medical Center Oakland (NMCO) site and any surrounding area that may have been affected by hazardous materials or hazardous wastes originating at NMCO or from which hazardous materials or wastes could migrate onto NMCO.

The Navy is committed to all required remediation of contamination at NMCO resulting from Navy activities. Removal of hazardous materials and wastes will be completed prior to disposal of these lands by the Navy. Remediation of any areas identified as contaminated will be commenced prior to transfer. Depending on the extent of contamination, the remediation may be completed prior to transfer. Delays or restrictions in disposal and land uses and activities included in alternatives implementation are possible, depending upon the extent of contamination and the results of the risk assessment and remedial designs developed for contaminated sites. However, because the areas of potential contamination are relatively few and are limited in size on the NMCO site, any such restrictions are likely to be minor. Examples of conditions resulting in possible land use restrictions would be the space required for operation of soil or ground water treatment systems and access to long-term monitoring wells. These conditions would have to be considered in the layout of future development alternatives. Conditional transfer may take place for areas undergoing long-term treatment, such as ground water remediation.

The Navy is required to remediate all hazardous waste sites prior to disposal of the sites. Section 3.13 of this environmental impact statement/environmental impact report (EIS/EIR) details the Navy, regulatory, and public review processes to ensure the protection of human health and the environment. Specifically, the Base Realignment and Closure Cleanup Plan (U.S. Navy 1996) summarizes the status of the compliance programs and presents a strategy for carrying out response actions necessary to protect human health and the environment. Cleanup of sites that have residual contamination is not expected to require substantial time and thus should have no adverse impact on the alternatives implementation schedule.

4.13.1 Significance Criteria

Impacts associated with hazardous materials and hazardous wastes reflect the handling and disposal of such materials under both the disposal of the property and the reuse actions. Negligible quantities of these materials are expected to be generated, handled, or disposed of by operations after base closure. In addition, maintenance operations associated with caretaker status are not expected to generate; handle, or dispose of significant quantities of such materials.

The following criteria were used to identify potential impacts:

- Release of asbestos during the demolition or renovation of a building;
- New operational requirements or service for underground storage tanks and tank systems; and
- Releases that result in exposure of the public or the environment to hazardous substances.

Table 4-36 summarizes hazardous materials and waste impact determinations.

Table 4-36
Summary of Hazardous Material and Waste Impact Determinations

	H-NAVY ACTIONS		AUTERNATIVES				
IMPACT ISSUES		No Action	Maximum Capacity	Mixed Use Village	Single Use Campus	Residential	
	Disposal	Alternative	Alternative	Alternative e	Alternative	Alternative	
Hazardous materials management	Ö	0	Ф	Φ.	Ф	Θ.	
Hazardous waste management	0	. 0	Φ.	· D	Φ.	①	
Asbestos	0		Φ.	Φ.	Φ	Φ.	
PCBs	0	0	. Ф	Ф	Φ .	Ф	
Storage tanks	. 0	Ο	Φ.	Ф	Ф	Ф	
Pesticides	0	0	, O.	, O ,	· 🔾	0	
Lead-based paint	О	. O	Φ	Φ.	Ф	Ф	
Medical materials and waste	0	0	Ф	Ф	. Ф.	Φ.	
Radon	O	.О .	0	O	0 0	· O	

LEGEND:

Level of Impact

- Significant and not mitigable
- Significant and mitigable
- Wonsignificant
-) None

4.13.2 Navy Disposal

No Impacts

No hazardous material or waste-related impacts will occur from disposal of NMCO. The Navy is required to remediate any contamination prior to transfer. Base activities, including those that involve hazardous materials and waste, would cease. Disposal will therefore result in lower quantities of hazardous materials used or stored on federal surplus land or removed for off-site disposal.

4.13.3 Maximum Capacity Alternative

Nonsignificant Impacts

There will be no significant hazardous materials and waste impacts from implementation of the Maximum Capacity Alternative, because the relatively low quantities of such materials and wastes generated would not result in releases that could expose the public or the environment to hazardous levels of substances.

Hazardous Materials Management. The quantity of hazardous materials used, stored, and disposed of under the Maximum Capacity Alternative reuse activities on federal surplus land would likely decrease over current conditions, although specific chemicals and uses are not known. Such uses are tightly controlled under current regulations. Hazardous materials likely to be used for activities in all four of the proposed reuse alternatives are identified in Table 4-37.

No Impacts

Pesticides. Minimal use of pesticides is expected at NMCO following base closure. The types of pesticides are likely to be consistent with those currently in use.

Radon. A radon survey of one building at NMCO found no indication that radon levels are above the U.S. Environmental Protection Agency-recommended action level for further assessment or remediation. In accordance with Department of Defense policy, all available and relevant radon assessment data will be included in any contracts for transfer or lease.

Table 4-37
Hazardous Material Usage by Land Use Category

Land Use	Operation Process	Hazardous Materials
Industrial	Activities associated with light industry, research and development, warehousing, and manufacturing	Petroleum products, solvents, heavy metals, corrosives, catalysts, aerosols, fuels, heating oils, ignitables, pesticides
Institutional	Hospital/clinic, rehabilitation facilities, X-ray unit Public education, higher education, research labs, training facilities, vocational schools	Pharmaceuticals, medical biohazardous materials, chemotherapeutic drugs, nuclear medical sources, heavy metals Laboratory chemicals, corrosives, ignitables, solvents, heating oils, solvents, lubricants, cleaners, pesticides, paints, thinners
Commercial	Activities associated with offices, light industry, research and development, and higher value warehousing, retail, service industries, restaurants	Fuels, heating oils, pesticides, dry cleaning chemicals, solvents, corrosives, ignitables
Residential	Use and maintenance of single-family and multifamily units, landscaping	Pesticides, fertilizers, fuels, oils, chlorine, and household chemicals
Recreation/open space	Maintenance of existing recreational facilities, including golf course, sports complex, swimming pools, and other recreational facilities	Pesticides, fertilizers, chlorine, heating oils, paints, thinners, cleaners, solvents, aerosols

Source: Developed by Tetra Tech

Applicable Laws, Regulations, and Standards

As this, and all other alternatives are implemented, hazardous waste management will be the responsibility of the property recipients under state and federal regulations. Once the responsibilities of hazardous waste management are allocated to individual organizations, proficiency with those materials and spill response plans may be required by the Resource Conservation and Recovery Act regulations. Business plans and risk management programs also may be required under state health and safety code requirements. With implementation of the Maximum Capacity Alternative, separate organizations will be responsible for the management of hazardous materials according to applicable regulations. Depending on the types and quantities of hazardous materials used, each organization would be subject to Resource Conservation and Recovery Act and state hazardous material business plans and risk management prevention programs for emergency planning review and community right-to-know inventory reporting. Mutual aid agreements with surrounding jurisdictions may require additional scrutiny and training of emergency staff.

Hazardous Waste Management Practices. Prior to base closure, operation of the hazardous waste accumulation area is expected to be discontinued. Limited quantities of hazardous wastes may be generated by maintenance



operations. Such wastes would be handled and disposed according to current regulatory guidelines and industry standards.

Under the Maximum Capacity Alternative, the total quantity of hazardous wastes generated and stored on the property would drop significantly. Reduction of on-site storage and off-site disposal of such materials will result in a beneficial environmental impact to NMCO itself.

Asbestos. Under the Maximum Capacity Alternative, a number of buildings and residential structures on federal surplus land with asbestos-containing material (ACM) would be demolished or renovated. Such activities would be subject to all applicable federal, state, and local regulations. Department of Defense policy is that "property with ACM will not be disposed through the BRAC process unless it is determined that the ACM does not pose a threat to human health at the time of transfer." Asbestos removal is generally required prior to building demolition. Since demolition activities would occur following disposal, buildings at NMCO containing ACM may present minor future human health risks because of the potential for release of asbestos fibers during abatement or demolition. Any demolition or renovation would require compliance with Occupational Safety and Health Administration regulations and the National Emissions Standards for Hazardous Air Pollutants, which are intended to minimize the potential for asbestos fiber releases and associated health risks.

Polychlorinated Biphenyls No equipment containing PCBs or PCB release sites have been identified at NMCO. Because any unidentified PCB release sites are likely to be relatively small, the identification, evaluation, and any necessary remediation of such sites is not likely to significantly impact or be impacted by the implementation of the Maximum Capacity Alternative.

The existence of any other known PCB-containing electrical equipment will be disclosed by the Navy at the time of lease or transfer. Ownership of the equipment will be transferred to the new owners, who will be governed by all applicable local, state, and federal requirements in the further use or disposal of the PCB-containing electrical equipment.

Storage Tanks. Reuse activities associated with the Maximum Capacity Alternative may require both aboveground storage tanks and underground storage tanks. The Navy plans to remove all tanks before transfer unless the Oakland Base Reuse Authority expresses a desire to retain them. The existing tanks meet current standards, but may not meet standards that will be in effect in 1998. Reused and new tanks required by the property recipients on federal surplus and state reversionary land would be subject to all applicable federal, state, and local regulations. These regulations include acceptable leak detection methods, spill and overfill protection, cathodic

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Hazardous Materials and Waste Management Practices. Impact determinations are expected to be similar to those identified for the Maximum Capacity Alternative.

No Impacts

Pesticides. Impact determinations are expected to be similar to those identified for the Maximum Capacity Alternative.

Radon. Impacts are expected to be similar to those identified for the Maximum Capacity Alternative.

Applicable Laws, Regulations, and Standards

Asbestos Applicable laws, regulations, and standards are similar to those identified for the Maximum Capacity Alternative.

Polychlorinated Biphenyls. Applicable laws, regulations, and standards are similar to those identified for the Maximum Capacity Alternative.

Storage Tanks. Applicable laws, regulations, and standards are similar to those identified for the Maximum Capacity Alternative.

Lead-Based paint. Applicable laws, regulations, and standards are similar to those identified for the Maximum Capacity Alternative.

Medical Materials and Waste. Applicable laws, regulations, and standards are similar, and slightly less than those identified for the Maximum Capacity Alternative.

4.13.5 Single Use Campus Alternative

The impact determinations for this alternative would be essentially the same as those identified for the Maximum Capacity Alternative. It is estimated that the total built area is similar to that for the Maximum Capacity Alternative. Overall hazardous materials use and hazardous waste generation could change if a corporate facility used or generated hazardous substances during its operations. For example, use of the site for research and development by a biotechnology operation could result in generation of biohazardous wastes. However, heavy industrial use is not contemplated.



Nonsignificant Impacts

There will be no significant hazardous materials and waste impacts from implementation of the Single Use Campus Alternative, because the relatively low quantities of such materials and wastes generated would not result in releases that could expose the public or the environment to hazardous levels of substances.

Hazardous Materials and Waste Management Practices. Under the Single Use Campus Alternative, as under the Maximum Capacity Alternative, the total quantity of hazardous materials generated, used, and stored on the property could increase or decrease slightly compared to current conditions. Such uses are tightly controlled under current regulations.

No Impacts

Pesticides. Impact determinations are expected to be similar to those identified for the Maximum Capacity Alternative.

Radon. Impact determinations are expected to be similar to those identified for the Maximum Capacity Alternative.

Applicable Laws, Regulations, and Standards

Asbestos. Applicable laws, regulations, and standards applicable under the Maximum Capacity Alternative also apply under this alternative.

Polychlorinated Biphenyls Applicable laws, regulations, and standards applicable under the Maximum Capacity Alternative also apply under this alternative.

Storage Tanks. Applicable laws, regulations, and standards applicable under the Maximum Capacity Alternative also apply under this alternative.

Lead-Based Paint. Applicable laws, regulations, and standards applicable under the Maximum Capacity Alternative also apply under this alternative.

Medical Materials and Waste. Applicable laws, regulations, and standards applicable under the Maximum Capacity Alternative also apply under this alternative.

4.13.6 Residential Alternative

Nonsignificant Impacts

There will be no significant hazardous materials and waste impacts from implementation of the Residential Alternative, because the relatively low quantities of such materials and wastes generated would not result in releases that could expose the public or the environment to hazardous levels of substances.

Hazardous Materials and Waste Management. Under the Residential Alternative, the quantity of hazardous materials used, generated, stored and disposed of would be minimal. Only limited quantities of hazardous materials, such as household cleaners and maintenance products or substances associated with facility maintenance activities, would be used.

No Impacts

Pesticides. Impact determinations are expected to be similar to those identified for the Maximum Capacity Alternative.

Radon. Impact determinations are expected to be similar to those identified for the Maximum Capacity Alternative.

Applicable Laws, Regulations, and Standards

Asbestos. Applicable laws, standards, and regulations are similar to those that apply for the Maximum Capacity Alternative.

Polychlorinated Biphenyls. Applicable laws, standards, and regulations are similar to those that apply for the Maximum Capacity Alternative.

Storage Tanks. Applicable laws, standards, and regulations are similar to those that apply for the Maximum Capacity Alternative.

Lead-Based Paint. Applicable laws, standards, and regulations are similar to those that apply for the Maximum Capacity Alternative.

Medical Materials and Waste. Applicable laws, standards, and regulations are similar to those that apply for the Maximum Capacity Alternative.

4.13.7 No Action Alternative

No Impacts

There will be no hazardous materials and waste impacts under the No Action Alternative. Cleanup obligations during disposal and alternatives implementation have been documented previously in Section 3.13 and in the introduction to this Section 4.13.

Hazardous Materials and Waste Management. Under the No Action Alternative, the quantity of hazardous materials used, generated, stored, and disposed of would be minimal. Only limited quantities of hazardous materials associated with facility caretaker activities would be used.

Pesticides. Under the No Action Alternative, minimal use of pesticides would occur. Any pesticides that were used would likely be of the same types currently used.

Radon. No significant radon concentrations have been detected. There would be no uses under this alternative that would warrant further testing. No impacts are expected.

Applicable Laws, Regulations, and Standards

Asbestos. Any demolition or repair of existing buildings performed as part of caretaker activities under this alternative would be performed in accordance with applicable regulations controlling asbestos, emissions and handling procedures.

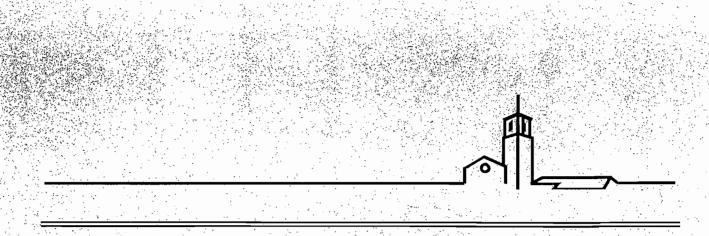
Polychlorinated Biphenyls. No remaining PCB-containing equipment has been identified.

Storage Tanks. Removal of inactive tanks and remediation of any residual contamination would be required at the time the facility was closed.

Lead-Based Paint. The No Action Alternative would not impact lead or required lead remediation activities at NMCO.

Medical Materials and Waste. These materials would be removed prior to closure of the facility.

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5.0 OTHER CONSIDERATIONS REQUIRED BY NEPA AND CEQA

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5.2	SHORT-TERM USES AND LONG-TERM PRODUCTIVITY	5-1
5.3	TRREVERSIBLE/TRRETRIEVABLE COMMITMENT OF RESOURCES	5-2
5.4	GROWTH-INDUCING IMPACTS	5-2
5.5 5.6	CUMULATIVE IMPACTS ENVIRONMENTAL JUSTICE	5-3
5.7	EFFECTS FOUND NOT TO BE SIGNIFICANT	5-26 5-30
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5. OTHER CONSIDERATIONS REQUIRED BY NEPA AND CEQA

This chapter addresses additional topics required by NEPA and/or CEQA in an environmental impact statement/environmental impact report (EIS/EIR). These include, if applicable, the identification of any unavoidable adverse commitment of resources (NEPA), an analysis of significant unavoidable adverse impacts to the environment (NEPA and CEQA), a discussion of the relationship between local short-term user of man's environment and its long-term productivity (NEPA and CEQA), an analysis of cumulative impacts (NEPA and CEQA), and an analysis of growth-inducing impacts (CEQA). Issues related to environmental justice are presented in accordance with Executive Order 12898.

5.1 SIGNIFICANT UNAVOIDABLE ADVERSE IMPACTS

An EIS/EIR must describe any significant unavoidable adverse environmental impacts for which either no mitigation or only partial mitigation is feasible. Mitigation may include imposing an alternative design on a development alternative if that is the only means of avoiding such impacts. One significant unavoidable adverse impact associated with Naval Medical Center Oakland (NMCO) reuse is identified in this EIS/EIR. It is the unmitigable generation of traffic-related ozone precursor and PM₁₀ emissions under all of the reuse alternatives above the Bay Area Air Quality Management District significance threshold of 80 pounds per day. All other potentially significant impacts of the proposed action would be mitigable to a nonsignificant level by the implementation of mitigation measures recommended in this document.

5.2 SHORT-TERM USES AND LONG-TERM PRODUCTIVITY

An EIS/EIR must describe the relationship between local short-term uses of man's environment and the maintenance and enhancement of long-term productivity. The analysis should cover the extent to which both disposal and reuse involve tradeoffs between short-term environmental gains at the expense of long-term losses, or vice versa. It also should include a discussion of the extent to which disposal and reuse each forecloses (i.e. prevents) future options.

The environmental productivity of NMCO has historically been related to its operation as a medical center and the maintenance of existing environmental conditions. Disposal and subsequent reuse of the property will result in both short- and long-term environmental gains. Short-term gains would be achieved through increased public access to open space and

accompanying recreational opportunities on the NMCO site that were previously restricted due to Navy use. Long-term benefits also include provision of jobs, housing, and opportunities for sustained recreational use. The maintenance of open space in the East Bay Hills, and concerted protection of biological resources, represent a proactive effort to increase long-term environmental productivity. No future environmental options are foreclosed as NMCO disposal and site reuse are envisioned.

5.3 IRREVERSIBLE/IRRETRIEVABLE COMMITMENT OF RESOURCES

NEPA requires that an EIS analyze the extent to which the alternatives' primary and secondary effects would commit nonrenewable resources to uses that future generations would be unable to reverse. Federal disposal of NMCO property and structures increases options for site use, and for responsible long-term resource management, and makes no resource commitments.

Implementation of any of the NMCO reuse plan alternatives would require commitments of both renewable and nonrenewable energy and material resources for demolition, and for construction of the structures and improvement of the infrastructure required for its implementation. Development of the site with reuse facilities would commit the NMCO site to that general set of uses for the foreseeable future.

5.4 GROWTH-INDUCING IMPACTS

CEQA requires an EIR to discuss the ways in which all development alternatives could foster economic or population growth, or the construction of additional housing or other development, either directly or indirectly, in the surrounding environment. This analysis includes those characteristics that may encourage and facilitate activities that, either individually or cumulatively, could affect the environment. Population increases, for example, may impose new burdens on existing community service facilities. Similarly, improvement of access routes may encourage growth. Growth may be considered beneficial, adverse, or of little significance environmentally, depending on its actual impacts to the environmental resources present.

Each of the NMCO site reuse alternatives analyzed would induce new economic or population growth in the region. Implementation of the preferred (Maximum Capacity) alternative, or any of the other reuse alternatives would create a substantial number of jobs. These new jobs could provide benefits to local employment and income.

No substantial expansions to existing infrastructure in the site vicinity would be required, and no obstacles to surrounding growth would be removed by reuse. Most of the reuse-related employment would probably be derived from the existing regional labor force. Jobs created directly or indirectly through reuse (for any of the alternatives) could induce limited construction of new housing (in order to accommodate new workers' desires for shorter commutes). The results of any growth inducement resulting from the project would be controlled by existing and undetermined future zoning requirements, general plan designations (both on- and off-site), and specific environmental documentation for separate development projects.

5.5 CUMULATIVE IMPACTS

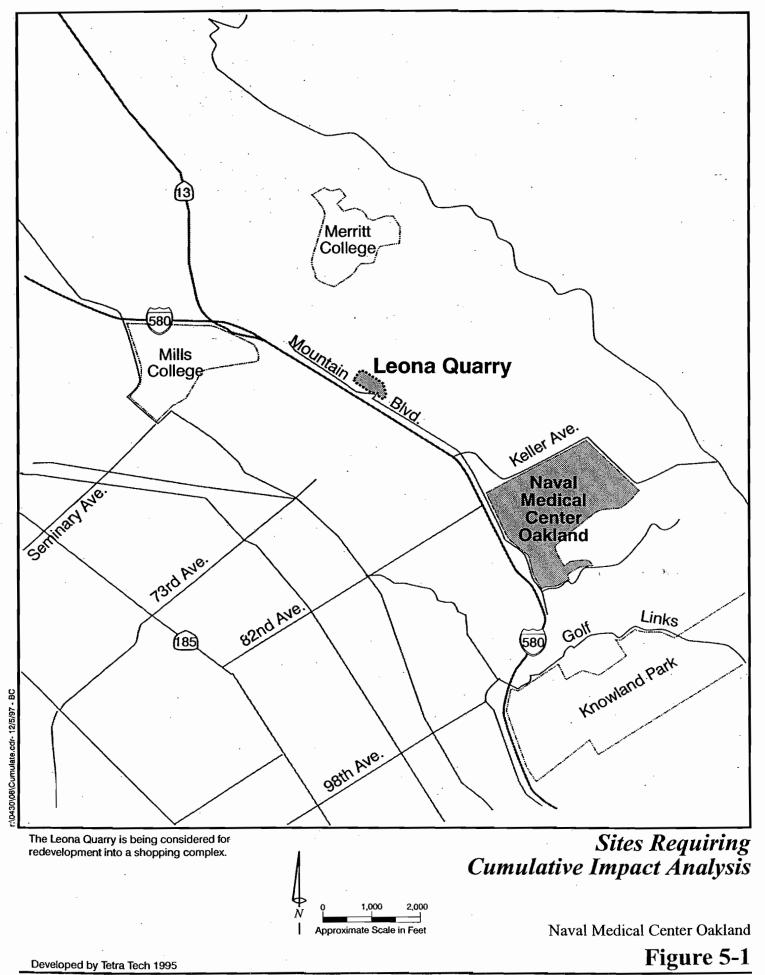
Cumulative impacts are defined as two or more individual effects which, when considered together, are considerable or which compound or increase other environmental impacts. Cumulative impacts may result from interactions of effects of a single project or overlapping effects from a number of separate, but interrelated projects. Cumulative impacts from several projects are derived from the combined incremental impact of the project added to other approved, pending, and reasonably foreseeable future projects. Cumulative impacts can result from individually minor but collectively significant effects.

The region considered in this analysis is the City of Oakland. The proposed Leona Quarry Shopping Center development (Figure 5-1) is located approximately one mile from NMCO. Cumulative impacts associated with the Leona Quarry project are discussed in this section.

Other projects considered for cumulative impacts analysis in the City of Oakland included:

- Reuse of the Navy Fleet and Industrial Supply Center;
- Reuse of the Oakland Army Base;
- Arena Increased Seating Capacity project Oakland-Alameda County Coliseum Complex (Draft EIR released for public review on February 14, 1996);
- Dreyers Headquarters Expansion project (Final EIR approved by the City of Oakland Planning Commission on February 7, 1996); and
- The Chabot Observatory and Science Center project (Final EIR approved by the City of Oakland Planning Commission in 1995).





The Navy Fleet and Industrial Supply Center and the Oakland Army Base are located along the Oakland industrial waterfront and are over 10 miles from NMCO. The Oakland-Alameda County Complex (located 2.5 miles west of NMCO), Dreyers Headquarters (located eight miles northwest of NMCO), and the Chabot Observatory (located three miles north of NMCO) were all determined to be too far away to have cumulative impacts when considered with NMCO disposal and reuse, and were therefore eliminated from further cumulative impacts analysis in this section.

Land Use

The combination of the implementation of one of the reuse alternatives at the NMCO site and the development of the Leona Quarry for shopping center activities would not increase cumulative land use conflicts, because 1) adoption of any reuse plan being considered would effectively establish land use policy for what is now the NMCO site; and 2) both the NMCO reuse plan and the Leona Quarry shopping center development must be consistent with the City of Oakland General Plan. Cumulative land use impacts are therefore not considered significant.

Socioeconomics

The reuse of NMCO in combination with reuse projects planned in the City of Oakland, and with respect to other development projects in Oakland, would generate substantial additional long-term direct and indirect employment. This would be a cumulatively beneficial economic impact.

A significant and mitigable impact may result from adding students, to the capacity-constrained local schools due to the project and cumulative development. Depending on what course of action the OUSD decides to take, there may be a significant impact. This impact could be mitigated through reassigning students among district schools, use of underutilized/ abandoned facilities, year-round schools, the addition of portable classrooms, or busing. All of these measures would require some level of funding. If current sources of funding, including the City of Oakland school mitigation fees, increases in property tax and sales tax revenues, and increases in state funding are insufficient to pay for the cost of mitigating overcrowding, the OUSD would formulate and implement specific measures to raise additional funds. Funding sources which may be considered by the OUSD include: (1) adjustments of school mitigation fees on commercial and residential development; (2) the creation of special assessment or Mello Roos districts or annexation to a Community Facilities District; (3) sale of surplus OUSD property; and (4) any other funding mechanism available to the OUSD by state law or local ordinances, including those measures identified in the OUSD's Developer Fee Justification Study (OUSD 1996).

Public Services

Reuse, along with other planned public and private development in the City of Oakland, would add to cumulative service demands on Oakland's Police and Fire Departments. These impacts would be offset by fair-share funding received from project developers, again as part of a development agreement. Of particular interest is the future of Fire Station number 17 on Grass Valley Road. The station is currently scheduled for seasonal use during periods of high fire danger, and the Fire Department does not plan on opening the station for year-round use. However, the 600-unit Residential Alternative (Option 2) for the site, in combination with the Leona Quarry commercial project may eventually create sufficient need for year-round operation of this station (Baker 1995). Year-round operation would most likely require some type of development agreement provision requiring the site developer(s) to pay a fair share of the increased operational costs attributable to the increased use generated from the Residential Alternative (Option 2).

Cultural Resources

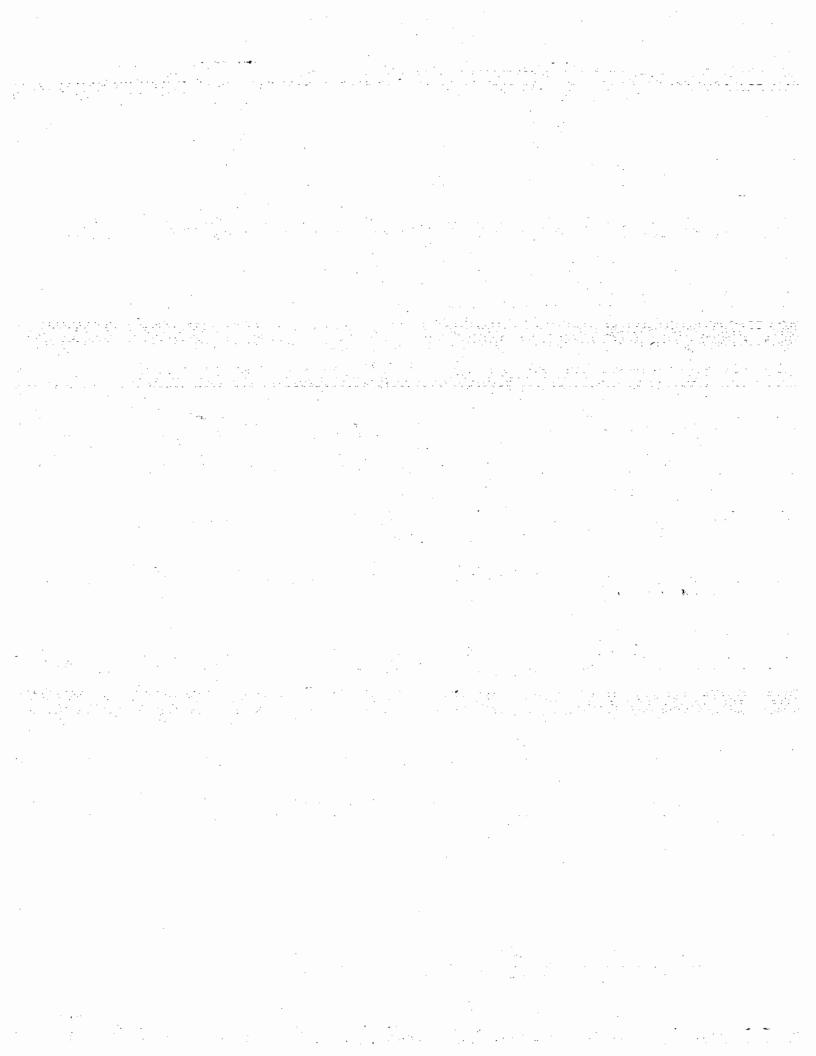
There will be no cumulative impacts to cultural resources on or eligible for the NRHP because none are present at NMCO.

Aesthetics and Scenic Resources

No increased cumulative effect on visual resources is expected from the combination of NMCO and Leona Quarry developments, since the two projects are not within the same viewshed (i.e. visible at the same time from a single viewpoint). The visual experience travelling along the I-580 corridor would vary slightly from existing conditions, depending on the reuse alternative ultimately approved and built. However, due to the planned retention of most, if not all of the vegetation that visually screens the NMCO site from I-580, cumulative adverse impacts on scenic quality and visual quality contributed by the NMCO reuse plan and Leona Quarry project would be considered nonsignificant.

Biological Resources

Reuse of NMCO in combination with other regional development and reuse activities would not significantly contribute cumulatively to the regional loss of sensitive wildlife habitat and native vegetation. Rifle Range Creek riparian corridor is the only sensitive habitat and existing regulations require mitigation for any impacts to this area, including those measures identified in the OUSD's Developer Fee Justification Study (OUSD 1996).



The Leona Quarry site, located adjacent to Mountain Boulevard at Edwards Avenue, could have impacts on the NMCO study area intersections.

The Leona Quarry project would contain a shopping center with 194,000 square feet of retail and commercial uses, plus a 4,000 square foot fast food restaurant with drive-thru window service (Pang Engineers, Inc. 1995).

The traffic and circulation impacts of the NMCO reuse alternatives in combination with the Leona Quarry project are similar to the impacts for the NMCO alternatives without the Leona Quarry development, as described in Chapter 4, except for the Residential Alternative under cumulative conditions. This scenario will require installation of a traffic signal to mitigate cumulative impacts at the intersection of Mountain Boulevard and the I-580 northbound off-ramp. Analysis indicates that additional transit service would not need to be provided unless the load factor for any individual route exceeded 1.00 (i.e., more anticipated passengers than available seats). Therefore, none of the reuse alternatives would result in significant transit impacts. Table 5-1 summarizes impacts discussed in this section.

Table 5-1
Summary of Cumulative Traffic and Circulation Impacts and Significance

: 18 Limpact Essues	Navy Disposal	No Action Alternative	Maximum Capacity Alternative	Mixed Use Village Alternative	Samuel the of American St. 1862	Residential Alternative
Traffic impacts	0	0	•	① ·	•	0
Parking impacts	0	0	. Ф	Ф	Φ.	Φ.
Transit impacts	0	0	. Ф	Ф	Φ	Ф
Bicycle and pedestrian system impacts	0	0	Ф	Φ.	· ①	• Ф

LEGEND:

Level of Impact

Significant and not mitigable

Significant and mitigable

O = Not significant

🜙 🛥 None

Only the significant traffic and circulation impacts are discussed in this section. Tables 5-5, 5-7, 5-9, 5-11, and 5-13 include shaded rows that highlight potentially significant and mitigable impacts. Nonsignificant traffic and circulation impacts are expected to be the same as for existing plus project conditions discussed in the Chapter 4.

5.5.1 Assumptions and Methodology

Future Transportation Network

There are no transportation system improvements assumed to be in place when the reuse plan is completed in the area studied for the analysis of cumulative impacts.

Traffic impacts were evaluated for the combined effects of the Leona Quarry and the NMCO alternatives at the following intersections:

- Keller/I-580 southbound off-ramp;
- Keller/Mountain Blvd.;
- Mountain Blvd./I-580 northbound on-ramp; and
- Mountain Blvd./I-580 northbound off-ramp.

Trip Generation

The Leona Quarry project would generate 274 total AM peak hour trips and 714 total PM peak hour trips as shown in Table 5-2.

Table 5-2 Leona Quarry Trip Generation

	АМ Ре	ak Hou	r Trips	PM Pe	ak Hou	r Trips
Land Use	In :	Out	Total :	In	Out	Total
Shopping center	76	75	151	317	317	634
Fast food restaurant	63	60	123	42	38	80
Total	139	135	274	359	355	714

Source: Trip generation rates were developed by Pang Engineers, Inc., (1995) based on standard rates from the Institute of Transportation Engineers (1991 & 1995).

Trip Distribution

The distribution of Leona Quarry trips is shown in Table 5-3, which shows that a certain percentage of additional traffic associated with the Leona Quarry project would either begin or end at the "Origin or Destination" indicated by the five highway or road locations listed.

The resulting impact of these additional trips to the transportation network has been determined through calculations of the resulting level of service (LOS) at the four intersections studied for cumulative impacts.



Table 5-3 Leona Quarry Trip Distribution

Origin or Destination	Rereent of Trips
I-580 north of Edwards Avenue	75 %
I-580 south of Keller Avenue	10 %
Mountain Boulevard south of Keller Avenue	3 %
Keller Avenue east of Mountain Boulevard	2 %
Edwards Avenue west of I-580	10 %

Source: The trip distribution rates were developed by Pang Engineers, Inc. (1995)

Transit Service

The analysis of cumulative impacts for the EIS/EIR considered the combined effects of the NMCO and the Leona Quarry projects. None of the transit routes directly serving the NMCO site would directly serve the Leona Quarry site; therefore, the transit impacts of these two projects would be independent and there would be no cumulative transit impacts.

5.5.2 Navy Disposal

Disposal of NMCO would not create any direct cumulative traffic impacts.

5.5.3 No Action Alternative

The No Action Alternative would be limited to actions associated with federal caretaker status. A work force of about five to ten people is assumed only for purposes of this analysis. A minimal number of trips would be generated by this alternative, and these trips would not affect the local or regional transportation system. Intersection operations for the No Action Alternative are shown in Table 5-4.

5.5.4 Maximum Capacity Alternative

The impact of adding Maximum Capacity Alternative trips to the transportation network has been determined through calculations of the resulting LOS at the four intersections studied for cumulative conditions. A summary of the cumulative LOS analysis for the Maximum Capacity Alternative is shown in Table 5-5.

Table 5-4 Cumulative No Action Alternative Intersection Operations

		Withou		ction A	İternat	ive	Cumulative Development With No Action Alternatiave					
* 1	Intersection	Traffic	AM Pe	kHour	PM Pe	ik Hour .	Traffic	AM Peak Hour		PM Pe	k Hour	
1. 1		Control	LOS	Delay ²	LOS	Delay ²	Control	LOS	Delay	LOS	Delay?	
1.	Keller/I-580 southbound off-ramp			· · · · · · · · · · · · · · · · · · ·		J						
1	Southbound	Stop Sign	F	[.] 72	F	89	Stop Sign	В.	7	E	33	
	Eastbound	Stop Sign	F	High	. F	High	Stop Sign	. F	High	F	High	
1	Westbound	Stop Sign	E	41	D	29	Stop Sign	E	41	.Đ	28	
2.	Keller/Mountain Blvd.	,										
Į	Northbound	Stop Sign	C.	· 16	E	38	Stop Sign	С	12	С	10	
: [Southbound	Stop Sign	A	` 2	Α	. 5	Stop Sign	Α	2	В	5	
1	Eastbound	Stop Sign	Ð	20	F	60	Stop Sign	Α	4	E	31	
ı	Westbound	Stop Sign	E	34	В	6	Stop Sign	E	33	В	5	
3.	Mountain Blvd./I-580 northbound											
	on-ramp								ŀ			
	Northbound Left	None	A	• 4	Α	4	None	Α	4	Α	3	
ŀ	Southbound Left	None	Α	. 2	Α	2	None	Α	2	Α	.2	
	Westbound	Stop Sign	· D	25	С	16	Stop Sign	D	20	В	11	
4.	Mountain Blvd./I-580 northbound						}					
	off-ramp	·										
	Eastbound	Stop Sign	D	20	D	27	Stop Sign	B	8 -	B.	8	
	Westbound	Stop Sign	В	5	B	5	Stop Sign	A	4	A	. 3	

¹Includes the Leona Quarry project.

Impact 1: A significant and mitigable impact would result from peak hour traffic substantially increasing traffic congestion at three project area intersections, which were analyzed for cumulative conditions. Traffic congestion is expressed in delays, in seconds. Ranges in delays at the intersections that would have significant and mitigable impacts are estimated as follows by subtracting delays experienced under existing conditions (left side of Table 5-5) from delays estimated as the sum of existing conditions and delays added by traffic from the Maximum Capacity Alternative (right side of Table 5-5) for each peak hour and affected intersection. The following intersections have significant and mitigable impacts:

- Keller/I-580 southbound off-ramp would experience project-caused delays ranging from about 11 to 59 seconds;
- Keller/Mountain Boulevard intersection would experience projectcaused delays ranging from about 6 to 40 seconds; and
- Mountain Boulevard/I-580 northbound off-ramp would experience project-caused delays ranging from about 23 to 73 seconds.

²⁴High" delay indicates extreme values, which are outside the range of the analysis method (generally greater than 100 seconds).

Table 5-5 Cumulative Maximum Capacity Alternative Intersection Operations

	Without M		ı Capaci	ty Alter						
Intersection	Traffic					Traffic	AM Pe	ik Hour	PM Pe	k Hour
est of the second secon	Control -	LOS	Deby	LOS	Delay	Control		Delay ²		
1. Keller/I-580 southbound off-ramp										
Southbound Section 1	Stop Sign	F	72	F	89	Stop Sign	F	91	· F	田明,
Eastbound	Stop Sign	F	High	F	High	Stop Sign	F	High	F	High
Westbound William	Stop Sign	SEE SEE	40	$\mathbf{D}_{\mathbf{P}}$	29	Stop Sign	F.	High	StF Sec	83
2. Keller/Mountain Blvd.										
Northbound	Stop Sign	С	16	E	. 38	Stop Sign	E.	31	F	60
Southbound	Stop Sign	A	2	Α .	. 5	Stop Sign	A	2	В	.5
Eastbound	Stop Sign	D.	20	F	4460	Stop Sign	D.	. 26	. F.	A Hell
Westbound	Stop Sign	E	34	В	6	Stop Sign	E	40	С	12
3. Mountain Blvd./I-580 northbound										
on-ramp	.,	, .	l		Ι.					
Northbound Left	None .	A	4	A	4	None	В	5	В	. 5
Southbound Left	None	A	2	·A	2.	None	A	2	A	2
Westbound	Stop Sign	D	25	. С	. 16	Stop Sign	E ⁴	44	E	33
4. Mountain Blvd./I-580 northbound										
off-ramp				(Analysis of Santania		microdiction of the later and common than	Over 1000 treat weeks a something	THE PROPERTY OF THE PROPERTY OF THE PARTY OF	·	TANK LATER AND ADDRESS OF THE PARTY.
Eastbound .	Stop Sign	D.	20.	OD.	27 4	Stop Sign	E	43	F	Ligh
Westbound	Stop Sign	В	_5	В	5	Stop Sign	В	6	B	7

Includes the Leona Quarry project.

"High" delay indicates extreme values, which are outside the range of the analysis method (generally greater than 100 seconds). Shading indicates location that may experience significant level of service/delay impacts if no mitigation is implemented.

Mitigation 1a: The installation of traffic signals at the above locations along with minor lane changes (i.e. restriping, etc.) would mitigate the impacts to a level of nonsignificant, as listed below and indicated in Table 5-6:

- Keller/I-580 southbound off-ramp would be mitigated to delays ranging from about 17 to 26 seconds;
- Keller/Mountain Boulevard intersection would be mitigated to delays ranging from about 10 to 13 seconds; and
- Mountain Boulevard/I-580 northbound off-ramp would be mitigated to delays ranging from about 12 to 14.

Mitigation 1b: Along with the installation of traffic signals at the Keller Avenue intersections, it will be necessary to restripe the traffic lanes on the Keller Avenue/I-580 overcrossing. The restriping will provide two lanes eastbound and one lane westbound. This would require reversing the direction of the center lane, which currently serves westbound traffic.

The mitigation measures described above would reduce the traffic impacts to a level of nonsignificant, as shown in Table 5-6.



Delay in seconds.

³ Indicates significant and mitigable impact.

⁴ Not significant - only four vehicles are affected.

Table 5-6 **Cumulative Maximum Capacity Alternative** Intersection Operations - Mitigated

The second secon		mulativo laximun	A THE RESERVE OF THE PARTY OF T	一种社会企业企业企业	1.1323. (1877) 1.171111	Cumulative Development ^t With Maximum Capacity Alternative						
4 Intersection	Traffic	.AMPe	ak Flour	PMPe	k Hour	Traffic	AM Pe	ak Hour	PM Pe	k Hour		
	Control	LOS.	Delay.	LOS	Delay ²	Control	LOS	Delay ²	LOS	Dday ²		
1. Keller/I-580 southbound off-ramp						Signal	С	17	С	26		
Southbound	Stop Sign	F .	.67	F	76			1	·	1		
Eastbound	Stop Sign	F	· High	F	High			!				
Westbound	Stop Sign	Ε.	·· 36	D	20	<u> </u>	•					
2. Keller/Mountain Blvd.						Signal	В	10	В	13		
Northbound	Stop Sign	С	16	E	· 38							
Southbound	Stop Sign	Α.	2	A	3			1 1				
Eastbound	Stop Sign	C:	19.	F	54			. 1				
Westbound	Stop Sign	E	32	В	5							
4. Mountain Blvd./I-580 northbound						Signal	В	·12	В	14		
off-ramp			i				ľ	[
Eastbound	Stop Sign	С	18	D-	20							
Westbound	Stop Sign	<u>B</u>	5	В	_5							

Includes the Leona Quarry project.

5.5.5 Mixed Use Village Alternative

The impact of adding Mixed Use Village Alternative trips to the transportation network has been determined through calculations of the resulting LOS at the four intersections studied for cumulative conditions. A summary of the cumulative LOS analysis for the Mixed Use Village Alternative is shown in Table 5-7.

Impact 1: A significant and mitigable impact would result from peak hour traffic substantially increasing traffic congestion at three project area intersections, which were analyzed for cumulative conditions. Traffic congestion is expressed in delays, in seconds. Ranges in delays at the intersections that would have significant and mitigable impacts are estimated as follows by subtracting delays experienced under existing conditions (left side of Table 5-7) from delays estimated as the sum of existing conditions and delays added by traffic from the Mixed Use Village Alternative (right side of Table 5-7) for each peak hour and affected intersection. The following intersections have significant and mitigable impacts:

- Keller/I-580 southbound off-ramp would experience project-caused delays ranging from about 0 to 57 seconds;
- Keller/Mountain Boulevard intersection would experience projectcaused delays ranging from about 0 to 40 seconds; and
- Mountain Boulevard/I-580 northbound off-ramp would experience project-caused delays ranging from about 0 to 73 seconds.

^{2 &}quot;High" delay indicates extreme values, which are outside the range of the analysis method (generally greater than 100 seconds).

Table 5-7 Cumulative Mixed Use Village Alternative Intersection Operations

₹05£			nulative	Davisla		o escas.	6	Kall States	Develo	2003 AM	79.6623.174
	CALL SECTION	Without N				ative	With Mi				
	Intersection	Traffic	7,7	k Hour		DANGER CO.	Traffic				
	interection .	Control	LOS	Delay2	LOS	The state of the state of	Control		C STREET C TO THE	4 11 112 W 7 115	
		Control	LUS	тину	1,002	# COLLY	Control	FOS	Leay	LUS	Delay ²
1.	Keller/I-580 southbound off-ramp	e se dessena entrendra se constituto e dela colo decisione.	Zastričnom iku indomniči	n ni ka Mandanian kantan	Transaction of American	OP.JOSECHTHANNESCHANNESCH	Andreas de la companya del companya de la companya del companya de la companya de	OP PROPERTY AND A SECOND			
	- Somitioned St	Stop Sigu	A.F.	72	F	89	Stop Sign 3	F	51	Ε	oHigh).
-	Eastbound	Stop Sign	F	High	F	High	Stop Sign	F	High	F	High
	Westbound with the	Stop Sign C	E	41 .*	\mathbf{D}	29	Stop Sign	P	A 96	P)	286
2.	Keller/Mountain Blvd.										
	Northbound 1982 1984 1984	Stop Sign	C.	16	E	384	Stop Sign	øD 🖜	20	F)	483
100 C 100	Southbound	Stop Sign	Ã	2	Α	. 5	Stop Sign	A	2	В	5
	Exchound	-Stop Sign -	\mathbf{D}	20 3	F	60	Stop Sign	e e	167	F	TIE!
NAME OF TAXABLE PARTY.	Westbound	Stop Sign	E	34	В	6	Stop Sign	E	32	C	11
3.	Mountain Blvd./I-580 northbound	·	_								
1	on-ramp								.		í l
1 .	Northbound Left	None	Α	4	Α	4	None	Α.	-4	В	5
١.	Southbound Left	None	Α	2	Α	2 '	None	A	2	Α	· 2
1	Westbound	Stop Sign	D	25	C	16	Stop Sign	D	28	D	27
4.	Mountain Blvd./I-580 northbound		·								
.	off-ramp				•						
	Ohr Eachound	Stop Sign	$-\mathbf{D}$	20	Ð	27	Stop Sign	D	20 .	\mathbf{F}^{\prime}	High
	Westbound	Stop Sign	В	5	В	5	Stop Sign	В	5	В	6

Includes the Leona Quarry project.

Note: "High" delay indicates extreme values, which are outside the range of the analysis method (generally greater than 100 sesconds). Shading indicates location that may experience significant level of service/delay impacts if no mitigation is implemented.

Mitigation 1a: The installation of traffic signals at the above locations along with minor lane changes (i.e. restriping, etc.) would mitigate the impacts to a level of nonsignificant, as listed below and indicated in Table 5-8:

- Keller/I-580 southbound off-ramp would be mitigated to delays ranging from about 16 to 21 seconds;
- Keller/Mountain Boulevard intersection would be mitigated to delays ranging from about 9 to 12 seconds; and
- Mountain Boulevard/I-580 northbound off-ramp would be mitigated to delays ranging from about 12 to 14 seconds.

Mitigation 1b: Along with the installation of traffic signals at the Keller Avenue intersections, it will be necessary to restripe the traffic lanes on the Keller Avenue/I-580 overcrossing. The restriping will provide two lanes eastbound and one lane westbound. This would require reversing the direction of the center lane, which currently serves westbound traffic.

The mitigation measures described above would reduce the traffic impacts to a level of nonsignificant, as shown in Table 5-8.



² Delay in seconds.

³ Indicates significant and mitigable impact.

Table 5-8 Cumulative Mixed Use Village Alternative Intersection Operations - Mitigated

mersection operations integrated												
			: Develo se Villag			Cumulative Development!						
Intersection				Hour PM Peak I				AM Peak Hour		k Hour		
	Control	LOS	Delay ²	LOS	Delay	Control	LOS	Delay	LOS	Delay .		
1. Keller/I-580 southbound off-ramp						Signal	. C	16	С	21		
Southbound	Stop Sign	F	67	F	76							
Eastbound	Stop Sign	F	High	F ·	High	•				1 1		
Westbound	Stop Sign	E	-36	D	20			-				
2. Keller/Mountain Blvd.						Signal	В	9	В	12		
. Northbound	Stop Sign	С	16	E	38	·						
Southbound	Stop Sign	Α	2	Α	3 .					-1		
Eastbound .	Stop Sign	C	19	F	. 54							
Westbound	Stop Sign	E	32	· В	5							
4. Mountain Blvd./I-580 northbound		· ·			· .	Signal	В	12	В	14		
off-ramp			· ·									
Eastbound	Stop Sign	C	. 18	D	20							
Westbound	Stop Sign	<u> </u>	5	В	5							

¹ Includes the Leona Quarry project.

Note: "High" delay indicates extreme values, which are outside the range of the analysis method (generally greater than 100 seconds).

5.5.6 Single Use Campus Alternative

The impact of adding Single Use Campus Alternative trips to the transportation network has been determined through calculations of the resulting LOS at the four intersections studied for cumulative conditions. A summary of the cumulative LOS analysis for the Single Use Campus Alternative is shown in Table 5-9.

Impact 1 A significant and mitigable impact would result from peak hour traffic substantially increasing traffic congestion at three project area intersections, which were analyzed for cumulative conditions Traffic congestion is expressed in delays, in seconds. Ranges in delays at the intersections that would have significant and mitigable impacts are estimated as follows by subtracting delays experienced under existing conditions (left side of Table 5-9) from delays estimated as the sum of existing conditions and delays added by traffic from the Single Use Campus Alternative (right side of Table 5-9) for each peak hour and affected intersection. The following intersections have significant and mitigable impacts:

- Keller/I-580 southbound off-ramp would experience project-caused delays ranging from about 11 to 59 seconds;
- Keller/Mountain Boulevard intersection would experience projectcaused delays ranging from about 0 to 80 seconds; and
- Mountain Boulevard/I-580 northbound off-ramp would experience project-caused delays ranging from about 38 to 80 seconds.

Naval Medical Center Oakland
Disposal and Reuse Final EIS/EIR

² Delay in seconds.

Table 5-9 Cumulative Single Use Campus Alternative Intersection Operations

		Cur Wathora Si		Develo			Cur <i>With</i> Sin		Develo		
	Intersection	Traffic							ik Hour		
	SZSOVESS COLOR	Control	LOS	Delay ²	LOS	Delay ²	Control 2				
1.	Keller/I-580 southbound off-ramp		·	Harry &	MAC 53	on a	Stop Sign	2410 × 34	Hieh)	S-7.00	E ton
	Eastbound	Stop Sign	F	High	F	High	Stop Sign	F	High	F	High
	Westbound Keller/Mountain Blvd.	Stop Signs	I ID	* 41	(D.)	29	Stop Sign -	#F'	Thigh	P. S.	67
2.	Keller/Mountain blvd. Northbound	Stop Sign	, G	16	ME.	38	Stop Sign	\mathbf{E}^{T}	30, 1	E	38
assandular.	Southbound	Stop Sign	A D	2	A	5	Stop Sign	A	3	В	5
	is Eastbound Westbound	Stop Sign Stop Sign	E	34	B	6	Stop Sign Stop Sign	D	25	C	11
3.	Mountain Blvd./I-580 northbound										
	on-ramp Northbound Left	None	. A	4	A	4	None	Α	5.	A	4
	Southbound Left	None	A	2	A	2	None	A	2	A	2
4	Westbound Mountain Blvd./I-580 northbound	Stop Sign	D	25	С	16	Stop Sign	D	29	D	22
-	off-ramp					450000000000000000000000000000000000000					
	Eastbound Westbound	Stop Sign Stop Sign	D B	.≘ 20.≘ 5	B B	27 5	Stop Sign Stop Sign	B	High 7	В.	65
	11 0000 0 0.1										

Includes the Leona Quarry project.

Note: "High" delay indicates extreme values, which are outside the range of the analysis method (generally greater than 100 seconds).

Shading indicates location that may experience significant level of service/delay impacts if no mitigation is implemented.

Mitigation 1a: The installation of traffic signals at the above locations along with minor lane changes (i.e. restriping) would mitigate the impacts to a level of nonsignificant, as indicated in Table 5-10:

- Keller/I-580 southbound off-ramp would be mitigated to delays ranging from about 18 to 35 seconds;
- Keller/Mountain Boulevard intersection would be mitigated to delays ranging from about 10 to 11 seconds; and
- Mountain Boulevard/I-580 northbound off-ramp would be mitigated to delays ranging from about 2 to 16 seconds.

Mitigation 1b: Along with the installation of traffic signals at the Keller Avenue intersections, it will be necessary to restripe the traffic lanes on the Keller Avenue/I-580 overcrossing. The restriping will provide two lanes eastbound and one lane westbound. This would require reversing the direction of the center lane, which currently serves westbound traffic.

The mitigation measures described above would reduce the traffic impacts to a level of nonsignificant, as shown in Table 5-10.

Delay in seconds.

³ Indicates significant and mitigable impact.

Table 5-10 Cumulative Single Use Campus Alternative Intersection Operations - Mitigated

The second second			Develo e Camp		native	Gumulative Development. ¹ With Single Use Campus Alternative						
Untersection	Traffic			PMPe		Traffic						
	Control	LOS	Delay*	LOS	Delay"	Control	LOS	Delay ²	LOS	Delay ²		
1. Keller/I-580 southbound off-ramp			J			Signal	D	35	С	18		
Southbound	Stop Sign	F	67	F	76							
Eastbound	Stop Sign	F.	High	F	High .	•						
Westbound	Stop Sign	E	36	D	20							
2. Keller/Mountain Blvd.						Signal	В	10	В	11		
Northbound	Stop Sign	С	16	E	38							
Southbound	Stop Sign	Α	. 2	A	· 3							
Eastbound	Stop Sign	С	19	F	54	**						
Westbound	Stop Sign	E	32	В	5							
4. Mountain Blvd./I-580 northbound						Signal	С	16	A	. 2		
off-ramp			J									
Eastbound	Stop Sign	С	18	D	20		1					
Westbound .	Stop Sign	<u>B</u>	5	B	5				•			

Includes the Leona Quarry project.

Note: "High" delay indicates extreme values, which are outside the range of the analysis method (generally greater than 100 seconds).

5.5.7 Residential Alternative (Option 1)

The impact of adding Residential Alternative (Option 1) trips to the transportation network has been determined through calculations of the resulting LOS at the four intersections studied for cumulative conditions. A summary of the cumulative LOS analysis for the Residential Alternative (Option 1) is shown in Table 5-11.

Impact 1: A significant and mitigable impact would result from peak hour traffic substantially increasing traffic congestion at three project area intersections, which were analyzed for cumulative conditions. Traffic congestion is expressed in delays, in seconds. Ranges in delays at the intersections that would have significant and mitigable impacts are estimated as follows by subtracting delays experienced under existing conditions (left side of Table 5-11) from delays estimated as the sum of existing conditions and delays added by traffic from the Residential Alternative (Option 1) (right side of Table 5-11) for each peak hour and affected intersection. The following intersections have significant and mitigable impacts:

- Keller/I-580 southbound off-ramp would experience project-caused delays ranging from about 0 to 36 seconds;
- Keller/Mountain Boulevard intersection would experience projectcaused delays ranging from about 0 to 40 seconds; and

² Delay in seconds.

Table 5-11 Cumulative Residential Alternative (Option 1) Intersection Operations

5		nulative idential			otion 1)	Gumulative Development ^l) With Residential Alternative (Option 1)					
Intersection	Traffic	AM Pe	k Hour	PMPe	k Hour	Traffic	-AMPe	ik Hour	PMPe	kHour	
	Control					Control				Delay ²	
1. Keller/I-580 southbound off-ramp											
Southbound San San San San	Stop Sign	FA	72	(a. F)	89	Stop Sign	61	16	F	HAR	
. Eastbound	Stop Sign	F	High	F	High	Stop Sign	F.	High	F	High	
Westbound	Stop Sign	E	41	· D	29	Stop Sign 2	T F	62	T'	651.4	
2. Keller/Mountain Blvd.								٠			
Northbound	Stop Sign	С	16	E	38	Stop Sign	D	21	Ď	24	
Southbound	Stop Sign	A	2.	Α	5	Stop Sign	A	2	В	5	
Eastbound	Stop Sign	$\mathbf{D}_{\mathbf{x}}$	20	F	60	n Stop Sign	B	7/5	i Far	High	
Westbound	Stop Sign	E	34	В	6	Stop Sign	E	. 43	В	7	
3. Mountain Blvd./I-580 northbound					1						
on-ramp										J	
Northbound Left	None	A	4	A	4	None	В	5	Α	4	
Southbound Left	None	A	2	A	2	None	Α	2	·A	2	
Westbound	Stop Sign	D .	25	C	· 16	Stop Sign	E4	34	С	14	
4. Mountain Blvd./I-580 northbound									,		
off-ramp	MATERIAL PROPERTY OF THE PARTY	(LANCES FOR COSTS SERVE	THE REST OF STREET	NEW PACKAGE STREET	THE STREET STREET		THE RESIDENCE AND ADDRESS AND		NOVEMBER OF THE PROPERTY OF TH	450000000000000000000000000000000000000	
16 st. Eastbound	Stop Sign	D	20 5	D	27	Stop Sign	\mathbf{C}	14	E'	37	
Westbound	Stop Sign	<u>B</u>	5	<u>B</u>	5	Stop Sign	B	5	В	5	

¹ Includes the Leona Quarry project

Note: "High" delay indicates extreme values, which are outside the range of the analysis method (generally greater than 100 seconds).

Shading indicates location that may experience significant level of service/delay impacts if no mitigation is implemented.

 Mountain Boulevard/I-580 northbound off-ramp would experience cumulatively-caused delays ranging from about 0 to 10 seconds (this intersection would not be significantly impacted by the NMCO project, alone).

Mitigation 1a: The installation of traffic signals at the above locations along with minor lane changes (i.e. restriping, etc.) would mitigate the impacts to a level of nonsignificant, as listed below and indicated in Table 5-12.

- Keller/I-580 southbound off-ramp would be mitigated to delays ranging from about 15 to 18 seconds;
- Keller/Mountain Boulevard intersection would be mitigated to delays ranging from about 10 to 11 seconds; and
- Mountain Boulevard/I-580 northbound off-ramp would be mitigated to delays ranging from about 1 to 12 seconds.

Mitigation 1b: Along with the installation of traffic signals at the Keller Avenue intersections, it will be necessary to restripe the traffic lanes on the Keller Avenue/I-580 overcrossing. The restriping will provide two lanes



² Delay in seconds:

³ Indicates significant and mitigable impact.

⁴ Not significant - only four vehicles are affected.

eastbound and one lane westbound. This would require reversing the direction of the center lane, which currently serves westbound traffic.

The mitigation measures described above would reduce the traffic impacts to a level of nonsignificant, as shown in Table 5-12.

Table 5-12
Cumulative Residential Alternative (Option 1)
Intersection Operations - Mitigated

	Without Residential Alternative (Option 1) With R					Cui With Resi	Cumulative Development ¹ esidential Alternative (Option 1)				
Intersection	Traffic	AM Pe	k Hour	PM Pea	k Hour	Traffic	AM Pe	k Hour	PM Pea	k Hour	
	*Control	LOS	Delay?	LOS	Delay ²	Control	LOS	'Dday'	LOS	Dday ²	
1. Keller/I-580 southbound off-ramp						Signal	С	15	. C	18	
Southbound	Stop Sign	F	67	, F	76						
Eastbound	Stop Sign	F	High	F	High						
Westbound	Stop Sign	E	36	Ð	20					·	
2. Keller/Mountain Blvd.						Signal	В	10	В	11	
Northbound	Stop Sign	· C	. 16	E	38						
Southbound	Stop Sign	A	2	Α .	3						
Eastbound	Stop Sign	С	19	F	54	ļ			,		
Westbound	Stop Sign	E	32	В	5						
4. Mountain Blvd./I-580 northbound	-					Signal	В	12	A	1	
off-ramp											
Eastbound	Stop Sign	С	18	D	20	[
Westbound	Stop Sign	В	5	В	5.	L					

¹ Includes the Leona Quarry project.

² Delay in seconds.

Note: "High" delay indicates extreme values, which are outside the range of the analysis method (generally greater than 100 seconds).

5.5.8 Residential Alternative (Option 2)

The impact of adding Residential Alternative (Option 2) trips to the transportation network has been determined through calculations of the resulting LOS at the four intersections studied for cumulative conditions. A summary of the cumulative LOS analysis for the Residential Alternative (Option 2) is shown in Table 5-13.

Impact 1: A significant and mitigable impact would result from peak hour traffic substantially increasing traffic congestion at three project area intersections, which were analyzed for cumulative conditions. Traffic congestion is expressed in delays, in seconds. Ranges in delays at the intersections that would have significant and mitigable impacts are estimated as follows by subtracting delays experienced under existing conditions (left side of Table 5-13) from delays estimated as the sum of existing conditions and delays added by traffic from the Residential Alternative (Option 2) (right side of Table 5-13) for each peak hour and affected intersection. The following intersections have significant and mitigable impacts:

Table 5-13 Cumulative Residential Alternative (Option 2) Intersection Operations

The strain Country of the St. St. St. St. St. St. St. St. St. St.	Sample Service Comment	A SEC SWIFTS	estation les varietés	Paris . A Bearle	STATE OF THE PARTY	ACTIVACE PRODUCT	- X-1 - 7 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	10 EN 100 EN 107 E	delinerate in the second	CASE OF STANSANTAN
	NEXT CONTRACT TO THE SECOND	Chronic Constitution of the Constitution of th	SOUTH PROPERTY	pment ⁱ	PROCEEDING TO			Develo		
	Without Re				being that I have an inches	With Resi	dential 1	Uternat	ve (Opt	ion 2)
Intersection	Traffic.	AMPe	kHour	PMPe	ik Hour	Traffic	AM Pe	k Hour	PM Pe	k Hour
	Control	LOS	Delay?	LOS	Delay ²	Control	LOS	Delay ²	LOS	Deby2
1. Keller/I-580 southbound off-ramp				-						
Southbound to a second second	Stop Sign	ATC.	* 72 · .	Se Fig.	89	Stop Sign	FIC S	19	F	Flight #
Eastbound	Stop Sign	F	High	F	High	Stop Sign	F	High	F	High
Westbound at a second second	Stop Sign a	É	Atta	a Des	29	Stop Sign	- P-2	69	P	83
2. Keller/Mountain Blvd.										
Northbound	Stop Sign	·C	16	E	38	Stop Sign	D.	. 26	D	· 29
Southbound	Stop Sign	A	2	Α	. 5	Stop Sign	A	. 2	В	5
Eastbound as A Section 1	 Stop Sign: 	$_{1}$ D $_{11}$	20.5	I .	60	Stop Sign	$\mathbf{B}_{\mathbf{A}}$. 8	F	Heli
Westbound	Stop Sign	E	34	В	6	Stop Sign	F ³	49	В	7
3. Mountain Blvd./I-580 northbound					ı					
on-ramp							1			
Northbound Left	None	A	· 4	Α	4	None	В.	5	A	4 .
Southbound Left	None	A	2	A	-2	None	Α	2	Α	2
Westbound	Stop Sign	D	25	С	16	Stop Sign	E ⁴	44	С	16
4. Mountain Blvd./I-580 northbound	l									
off-ramp		The state of the	24	SIENOS PRODUCTUM	т поска запанана		Ene merianismostory	- Marie and Arthur and	X-communication accommunication	ONTE COMMISSION DE COMMISSION
Eastbound -	- Stop Sign	D.	20.	D	27	Stop Sign	_ C _	2272	E	89
Westbound	Stop Sign	В	5	B	5	Stop Sign	<u>B</u>	5	В	5

- Includes the Leona Quarry project
- 2 Delay in seconds.
- 3 Indicates significant and mitigable impact.
- ⁴ Not significant only four vehicles are affected.

Note: "High" delay indicates extreme values, which are outside the range of the analysis method (generally greater than 100 seconds).

Shading indicates location that may experience significant level of service/delay impacts if no mitigation is implemented.

- Keller/I-580 southbound off-ramp would experience project-caused delays ranging from about 0 to 54 seconds;
- Keller/Mountain Boulevard intersection would experience projectcaused delays ranging from about 0 to 40 seconds; and
- Mountain Boulevard/I-580 northbound off-ramp would experience project-caused delays ranging from about 0 to 62 seconds.

Mitigation 1a: The installation of traffic signals at the above locations along with minor lane changes would mitigate the impacts to a level of not significant, as listed below and indicated in Table 5-14:

- Keller/I-580 southbound off-ramp would be mitigated to delays ranging from about 15 to 21 seconds;
- Keller/Mountain Boulevard intersection would be mitigated to delays ranging from about 10 to 11 seconds; and
- Mountain Boulevard/I-580 northbound off-ramp would be mitigated to delays ranging from about 12 to 14 seconds.

Mitigation 1b: Along with the installation of traffic signals at the Keller Avenue intersections, it will be necessary to restripe the traffic lanes on the



Keller Avenue/I-580 overcrossing. The restriping will provide two lanes eastbound and one lane westbound. This would require reversing the direction of the center lane, which currently serves westbound traffic.

The mitigation measures described above would reduce the traffic impacts to a level of nonsignificant, as shown in Table 5-14.

Table 5-14 Cumulative Residential Alternative (Option 2) Intersection Operations - Mitigated

	The second secon	t Resid		dternat	Gumulative Development With Residential Alternative (Option 2)									
Intersection		AMPe		PMPe	kHour .	" Traffic –	AM Pe	ık Hour	PM Pe	k Hour				
And the second second	Control	LOS	Delay.	LOS	Dday	Control	LOS	Delay*	LOS	Delay				
1. Keller/I-580 southbound off-ramp						Signal	С	15	С	21				
Southbound	Stop Sign	F	67	F	76									
Eastbound	Stop Sign	F	High	F	High			ĺ						
Westbound	Stop Sign	E	36	D	20									
2. Keller/Mountain Blvd.			-			Signal	В	10	В	11				
Northbound	Stop Sign	C	16	E	. 38									
Southbound	Stop Sign	A	2	A	3									
Eastbound	Stop Sign	. C	19	F	54									
Westbound	Stop Sign	E	32	В	5									
4. Mountain Blvd /I-580 northbound						Signal	В	12	В	14				
off-ramp	}					_								
Eastbound	Stop Sign	·· C	18	D	20									
Westbound	Stop Sign	B	5.	В	5									

¹ Includes the Leona Quarry project.

Note: "High" delay indicates extreme values, which are outside the range of the analysis method (generally greater than 100 seconds).

Impacts to Interstate 580

The traffic effects to Interstate 580 from any one of the four reuse alternatives would be nonsignificant. Table 5-15 shows that the Single Use Campus Alternative would increase AM peak hour traffic north of NMCO by 3.1 percent and the Maximum Capacity Alternative would increase AM peak hour traffic by one percent, both of which are nonsignificant. Implementation of the other two alternatives would result in a decrease in AM traffic compared to preclosure conditions. Decreases in traffic would occur because NMCO trips would no longer occur and some of the reuse alternatives would generate less traffic than under preclosure conditions. Morning (AM) trips generated by reuse alternatives, with the exception of the Single Use Campus Alternative and the Maximum Capacity Alternative, are fewer than the existing NMCO trips. Evening (PM) peak hour traffic entering I-580 from north of the NMCO site would be increased by about one to two percent by the four development alternatives, which is

² Delay in seconds.

nonsignificant. PM peak hour traffic would decrease under the No Action Alternative.

Table 5-15
Percentage of NMCO Traffic Added to I-580 by Alternative

	I-580 Nortl	rof NMCO	I-580 South	of NMCO
Alternative :	AM	PM.	AM .	PM
No Action Alternative	-2.4%	-2.2%	-1.6%	-1.5%
Maximum Capacity Alternative	1.0%	2.9%	0.7%	1.9%
Mixed Use Village Alternative	-0.2%	2.2%	-0.1%	1.4%
Single Use Campus Alternative	3.1%	1.3%	2.1%	0.9%
Residential Alternative (Option 1)	-0.9%	0.7%	-0.6%	0.4%
Residential Alternative (Option 2)	-0.3%	1.4%	-0.2%	0.9%

Source: Total trip generation is derived from Table 4-14. The calculation of percent change in traffic volumes on I-580 is based on the existing 13,600 vehicles during the peak hours and the distribution of NMCO traffic: 45 percent north and 30 percent south on I-580 (see Table 4-15).

Morning traffic impacts to I-580 south of the NMCO site are similar, ranging from decreases of less than two percent for the Mixed Use Village, Residential, and No Action Alternatives to an increase of less than one to two percent if the Maximum Capacity Alternative or Single Use Campus Alternative were implemented. Evening traffic impacts to I-580 south of the NMCO site would range from less than one percent to two percent increases for the four development alternatives, and would decrease under the No Action Alternative, as expected.

Air Quality

The combined effects of reuse and the Leona Quarry project would result in small cumulative increases in traffic congestion at nearby intersections as analyzed in Section 5.5. A comparison of intersection delay analyses in Sections 4.9 and 5.5 shows that traffic added by consideration of the Leona Quarry affects only a few turning movement patterns at the I-580 off-ramps at Keller Road and Mountain Boulevard. The added vehicle delay for these turning movements would not significantly alter the carbon monoxide modeling results presented in Table 4-32. Consequently, the combined effects of reuse and the Leona Quarry project will not have any significant impacts on future carbon monoxide levels near the NMCO site.

Significant and unmitigable impacts would result from regional air emissions of ozone precursor and PM₁₀ concentrations that exceed state air quality standards. These impacts are due to vehicle emissions associated with traffic from project plus cumulative development. Reuse of NMCO plus other major developments in the region will result in a cumulative contribution to

PM₁₀ and ozone precursor emissions in the Bay Area. Cumulative air quality issues in the San Francisco Bay Area are addressed through regional air quality plans developed jointly by the Bay Area Air Quality Management District (BAAQMD), the Association of Bay Area Governments, and the Metropolitan Transportation Commission. These plans reflect anticipated regional land use and transportation patterns, and are subject to periodic review and revision. BAAQMD regulations require most new industrial facilities to fully offset emissions that would be generated by their operations. However, the impacts from the reuse alternatives are related to vehicle emissions, which relies on voluntary reduction in vehicle trips for mitigation. Therefore, this impact cannot be fully mitigated.

Noise

The combination of reuse of the NMCO site and other regional developments would not significantly alter traffic volumes or speeds on major roadways in the NMCO vicinity. Because peak traffic volumes along the I-580 corridor must double before traffic noise levels increase by 3 decibels, there would be no significant noise impacts associated with cumulative development projects.

Utilities

Potable Water Supply. Past, present, and reasonably foreseeable future projects could cumulatively increase demand for potable water. Selection of either the Maximum Capacity, Mixed Use Village, or Single Use Campus reuse alternatives, in combination with other local and regional project approvals will require water suppliers to meet increasing future demands. Providing potable water requires a reliable supply and adequate treatment. Cumulative water demand increases are not potentially significant as long as reliable supplies and adequate treatment facilities are available and cost-efficient. However, increasing pressures on regional water supplies may require future cost increases in order to supply and treat enough water for anticipated regional growth. Compliance with mitigation measures presented in Sections 4.12.3, 4.12.4, and 4.12.5 of this EIS/EIR, and effective urban water management planning, including the requirement to identify adequate water supplies prior to project approvals should maintain these impacts at less than significant levels on a cumulative basis.

Impact 1. Landfill Capacity. A significant and mitigable impact would occur if solid waste diversion (reduction and recycling) goals are not met on a regional basis. This cumulative impact to landfill capacity applies similarly to each of the four reuse alternatives. The same buildings are to be demolished for each of the reuse alternatives, and therefore the volume of demolition waste that will be generated will similarly be the same for the

Maximum Capacity, Mixed Use Village, Single Use Campus, and Residential Alternative (Options 1 and 2) (Hughes 1996).

At the end of 1994, estimated remaining refuse capacity for the Altamont Landfill was about 19 million tons. At the 1994 rate of fill, the facility would reach capacity in the year 2006 (Alameda County Waste Management Authority 1995). Projections in the Alameda County Integrated Waste Management Plan indicate that total demand for landfill capacity through the 15 year planning period (i.e. through the year 2010) is about 40 million tons. Alameda County landfill capacity demand (i.e. for waste generated within Alameda County) for that period amounts to about 24 million tons through the year 2010 (Alameda County Waste Management Authority 1995).

Current countywide landfill capacity is 32,440,114 tons, which is equivalent to 45,242,896 cubic yards (Alameda County Waste Management Authority 1995). There is therefore a current capacity shortfall of about eight million tons of landfill capacity to meet projected needs through the year 2010 (i.e. 40.3 million tons - 32.4 million tons).

Examination of Table 5-16 indicates that demolition of the hospital and all other buildings that would not be used as part of one of the development alternatives, would result in about 71,346 tons of waste. Of this total, an

Table 5-16 Demolition Waste Generation

Buildings to be Demolished	Demolition Waste! (tons)
Hospital	36,616
All other Buildings	34,730
Total	71,346

Source: Theresa Hughes and Associates 1994.

1. Assumptions:

Buildings slated for demolition by the US Navy (not demolished as part of alternative construction): Building numbers 37, 85, 88, and 107

Buildings to be integrated, perhaps with seismic retrofits, as part of each of the four alternatives (not demolished): Building numbers 18 (Club Knoll); 19 (Garage); 69 (Bachelor Quarters); 101 (Post Office); 101-A (Boiler Plant); 131 (Human Resources office); 133 (Command Education and Training); 138 (indoor swimming pool), 147 (indoor and outdoor racquetball courts), 507 (restroom), and 517 (Credit Union).

Buildings to be demolished total 895,485 square feet; 895,485 square feet *
0.03704 cubic yards per 1 cubic feet = 33,168 cubic yards;
33,168 cubic yards * 3 to account for an estimated depth of 3 feet of rubble requiring hauling; = 99,506 cubic yards total volume;
99,506 cubic yards * 0.717 tons per cubic yard (this conversion figure from Alameda County Waste Management Authority



1995; pg III-15) = 71,346 tons.

estimated 36,616 tons, or about 51 percent of the demolition waste would be generated by demolishing the hospital building. Demolition of the remaining buildings would amount to the remaining 34,730 tons.

The 71,346 tons of waste represents less than one percent of the existing landfill capacity. Although it is a very small percentage of available landfill capacity, it still represents a potentially significant and mitigable impact. because of the estimated eight million ton shortfall of landfill capacity in the County. This would significantly impact Alameda County's ability to meet their integrated waste management plan diversion goals (i.e reduction of waste at its sources, recycling, composting, or otherwise reducing the amount of wastes that reach landfills). This would not be an immediate impact, since existing landfill capacity is adequate to absorb NMCO demolition waste. However, over the long term, in combination with other activities that generate substantial quantities of solid waste that will need to be diverted or landfilled, the generation of this demolition waste represents a potentially significant impact. A study titled "Materials Inventory and Evaluation at the Oak Knoll Hospital" ("Inventory") has been completed (Winzler and Kelly 1996). The Inventory estimates that hospital demolition could generate "over 10,000 cubic yards of waste." presented within a broader context advocating extensive reuse and recycling of equipment, items, and materials on site. It is generally consistent with the estimates and mitigation measures in this EIS/EIR. The analysis in this EIS/EIR section estimates a higher volume of generated waste, and therefore informs as a more conservative, worse-case estimation of waste generation from demolition.

If Alameda County is unable to meet the Cal/EPA solid waste reduction standards of 50 percent by the year 2000, the Solid Waste Reduction Act provides for penalties of \$10,000 a day. Even if Alameda County can avoid paying the penalty through waivers or other remedies available from the state, significant economic impacts would result from higher costs of waste disposal and shortened landfill life.

In anticipation of this large quantity of construction and demolition materials, the California Integrated Waste Management Board (CIWMB) has been exploring ways to assist localities in diverting these wastes from landfills through reuse, recycling, and other strategies. An informal CIWMB base closure team has been organized with staff and others to examine the issues and to identify means to assist counties involved in base reuse.

The CIWMB asked the Trade and Commerce Agency for funds to do several projects. The following are those proposed activities applicable to the demolition issue:



- Researching and producing guidebooks on suggested demolition practices to be used to minimize contamination and maximize reuse;
- Developing a local materials exchange program adapted to base reuse;
- Identifying reuse opportunities, processors, and markets for recovered materials;
- Developing local ordinances that require construction and demolition efforts to follow recovery and recycling guidelines; and
- Developing guidelines for handling potentially hazardous materials included in construction and demolition debris.

Taking the lead in addressing recycling associated with military base closures, the Secondary Materials and Technology Branch has been conferring with the Trade and Commerce Agency about the need for funding to support the CIWMB's base closure program. The CIWMB has requested funds from the Trade and Commerce Agency to implement technical assistance activities directed toward communities impacted by base closures. The CIWMB has no direct funding for diversion efforts by affected jurisdictions.

Mitigation: The city shall develop and implement, over the long term and in consultation with the CIWMB, a construction and demolition materials waste diversion program integrating materials exchange, recycling, salvage, and other waste recovery and reuse activities to realize maximum reasonable diversion of such materials from landfills. Effective implementation of that program, combined with the achievement of quantitative estimates of source reduction and recycling attributable to long-term Alameda County policies and plans to expand existing, or acquire and develop new landfill capacity, should accommodate increased volumes of solid waste, thereby resulting in this impact being nonsignificant.

Hazardous Materials and Waste

All hazardous materials and waste have been cleaned up, or will be abated before property disposal. There would be no cumulative cleanup or waste disposal impacts.

5.6 ENVIRONMENTAL JUSTICE

As discussed in Section 3.2.5, the Executive Order on Federal Actions to Address Environmental Justice in Minority and Low-Income Populations requires that "Each Federal agency shall analyze the environmental effects,



including human health, economic and social effects, of Federal actions including effects on minority communities and low-income communities, when such analysis is required, by the National Environmental Policy Act of 1969 (NEPA), 42 U.S.C. § 4321 et seq. Mitigation measures outlined or analyzed in an environmental assessment, environmental impact statement, or record of decision, whenever feasible, should address significant and adverse environmental effects of proposed Federal actions on minority communities and low-income communities."

In order to comply with the executive order, preparation of this EIS/EIR included the following activities:

- Gathering of economic, and demographic information generated from the 1990 census to identify areas of low-income and high-minority populations in the vicinity of areas potentially exposed to project impacts;
- Assessment of the disposal and reuse actions for disproportionate impacts resulting from on-site activities; and
- Solicitation of community participation and input through public hearings and meetings and extensive public notification, as described in Chapter 1 of this document.

Analysis Methodology

Establishing the Region of Influence

The City of Oakland and the Oak Knoll study area have been established as the relevant region of influence for analyzing environmental justice issues. Detailed analysis focuses on the Oak Knoll study area using data from census tracts adjoining NMCO. The nature of the impacts associated with disposal and reuse, if any, would generally occur at the neighborhood level within the immediate vicinity of NMCO.

Identifying Affected Populations

To determine whether a low-income or minority population could be disproportionately affected by the proposed reuse of NMCO, the relationship of potential adverse impacts identified in the EIS/EIR to low-income and minority populations and as the overall impact of reuse actions to proximate low-income and minority populations were considered. A number of census tract tables were used to extract data on low-income and minority populations in the City of Oakland. Minority populations

included in the census tables are identified as African American, American Indian, Eskimo or Aleut, Asian or Pacific Islander, and Hispanic.

Identification of Environmental Justice Reuse Impacts

For NMCO reuse, issues of environmental justice are typically associated primarily with noise, air quality, traffic, land use conflicts, hazardous materials, disruption of and displacement within the community. Geologic and hydrologic issues are not relevant because hazards associated with those conditions (e.g., seismic hazards) in the reuse areas would not disproportionately affect any one group. Any loss of Native American archeological resources could disproportionately impact local Native American populations and would be an issue of environmental justice. However, no such archeological resources are known to occur at NMCO.

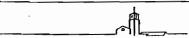
Potential socioeconomic impacts include displacement of low income neighborhoods and local businesses in Oakland. The only neighborhood with low income and higher than city-wide average minority population identified in the Study Area (which consists of census tracts 4081, 4099, 4100, 4083, 4101 and 4098) is located west of I-580 in census tract 4098. The rest of the Study Area has a higher than average household income (Theresa Hughes & Associates 1994). The residents of census tract 4098 are unlikely to be displaced by the reuse of the NMCO site because Interstate 580 acts as a physical barrier between the NMCO site and the neighborhood.

As for local business displacement, the planned retail components of the reuse alternatives would not likely displace existing businesses in the Study Area. There is sufficient market demand to support existing local businesses and the neighborhood retail use proposed at the NMCO site (Theresa Hughes & Associates 1994). According to the Existing Conditions Report, the retail environment in the Study Area is inadequate due to limited shopping opportunities in light of the socio-economic profile of the area.

As described below, no significant impact was identified in the EIS/EIR that could adversely and disproportionally affect low-income and minority populations.

5.6.1 City of Oakland Minority and Low-Income Characteristics

The City of Oakland has a diverse ethnic population. Based on 1990 census data, 32 percent of the City's population are Caucasian, 44 percent are African Americans, 15 percent are Asians and Pacific Islanders, one percent are Native American, and the remaining eight percent comprises other groups. Of the total City population, persons of Hispanic origin make up 14 percent. Persons of Hispanic origin can be of any race.



Approximately 68,000 residents (18 percent of the City's population) have been classified as living in poverty (1990 Census). The census bureau determines poverty-status for families and individuals based on 48 threshold variables, including income and amount spent on food, family size, number of children under 18, and number of family members over 65 years of age. The average poverty threshold for a family of four persons was \$12,674 in 1989. Of the 68,000 residents classified as poor, African Americans, American Indians/Eskimo/Aleutians, and Hispanics are disproportionately represented in the City of Oakland. In addition, over 56 percent of poor residents in the city are African Americans, while total African American population in the city is only 44 percent. Therefore, African Americans are overrepresented in the city's poor population.

According to the socioeconomic impacts analysis in this document (Section 4.2), the long-term overall economic effects of any of the four reuse alternatives would be economically positive to the city as a whole, including minority and low-income groups. Therefore these groups would not be adversely affected on a citywide basis.

5.6.2 Potential For Disproportionate Environmental Impacts On Minority Communities And Low-Income Communities

Navy Disposal. Navy property disposal is simply a transfer of property title and would result in no environmental impacts. No significant and adverse environmental impacts or disproportionate environmental impacts on minority and low-income communities would occur as a result of the Navy property disposal. Disposal is summarized in the Executive Summary and Table ES-1 of the EIS/EIR, and is described in detail in Chapter 4.

No Action Alternative. Retaining the property indefinitely under the No Action Alternative would result in no environmental impacts. No significant and adverse environmental impacts, or disproportionate environmental impacts on minority and low-income communities would occur as a result of the No Action Alternative. The No Action Alternative is described in detail in Chapter 2 and is analyzed for environmental consequences in Chapter 4 of the EIS/EIR.

Community Reuse Alternatives. The only significant and unmitigable environmental impacts produced by the community reuse alternatives is for air quality. Motor vehicle traffic trips associated with community reuse alternatives for NMCO may exceed one or more Bay Area Air Quality Management District air emission thresholds, as shown in Table 4-31. The region of influence for ozone precursors and secondary particulate matter (PM₁₀) is the entire San Francisco Bay Area as discussed in Section 4.10,

because these pollutants are produced by secondary chemical reactions in the atmosphere and occur over a large area. In addition, vehicle traffic is a geographically dispersed source of dilute PM₁₀ emissions. Minority communities and low-income communities would not be disproportionately impacted by this regional air quality impact.

All significant and mitigable environmental impacts identified in the EIS/EIR are associated with implementing of the different community reuse alternatives. If the mitigation measures associated with the community reuse alternatives are implemented as described in the EIS/EIR, no significant and adverse environmental impacts would disproportionately affect minority communities or low-income communities.

5.7 EFFECTS FOUND NOT TO BE SIGNIFICANT

Environmental effects also referred to as environmental impacts have been identified as either significant or not significant. Impacts identified as significant exceeded some or all threshold values expressed in this report as "Significance Criteria." Effects (impacts) found not to be significant did not exceed thresholds stated as "Significance Criteria."



6.0 CONSULTATION AND COORDINATION

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6. CONSULTATION AND COORDINATION

6.1 AGENCY AND REPRESENTATIVES CONTACTED

The federal, state, and local agencies and private organizations and representatives that were contacted during the course of preparing this EIS/EIR are listed below.

U.S. Navy

Engineering Field Activity West, Environmental Planning Department

Doug Pomeroy

Gary Munekawa

Mary Doyle

Louis Wall

Naval Medical Center Oakland

Larry Douchand

Chief Osborn, Police Department

Chief Alianza, Fire Department

Tim Rogers

Public Works Center, San Francisco Bay

John Parsons

U.S. Fish and Wildlife Service

Jim Browning

California Department of Fish and Game

Caitlin Bean

Alameda County

Diane Akers, Alameda County EMS District

City of Oakland

Oakland Base Reuse Authority

Mel Blair

Barry Cromartie

Office of Planning and Building

Chris Buckley

Nixon Lam

Anu Raud

Stan Muraoka

City of Oakland (continued)

Office of Public Works Randy Mach Ty Tekawa Mike Vecchio Richard Pontious

Police Department Lynn Bellman Sgt. Tony Hare Lt. Vierra

Fire Department Gene English Al Nero John Baker Tony Atkission

Office of Parks and Recreation Kerry Jo Ricketts

Oakland Unified School District Bob Long Joanne Camargo

East Bay Regional Park District

Public Information Department

Pacific Bell

Louise Knight

Korve Engineering

Jose I. Farran Duncan Jones Chi-Hsin Shao

Simon Martin-Vegue Winkelstein
Sowmya Parthasarathy

Theresa Hughes & Associates

Theresa Hughes Sue Conaway



6.2 SCOPING

The project mailing list, including agencies, organizations, and individuals that received scoping letters, is provided in Appendix A. The following parties responded to the scoping request:

Federal Agencies

U.S. Environmental Protection Agency

State Agencies

Department of Toxic Substances Control Department of Transportation

Local/Regional Agencies

City of Oakland, Landmarks Preservation Advisory Board East Bay Regional Park District East Bay Municipal Utility District Alameda County Congestion Management Agency

Organizations

Oak Knoll Heights Townhomes Association Oak Knoll Heritage Committee

Individuals

Mr. Thordie Ashley

Mr. Paule F. Aubery

Mr. Lester Cobb

Ms. Lori Dreyer

Mr. Joe Hadley

Mr. Louis Hal

Ms. Anna-Maria Hardenstine

Ms. Gaile Hofmann

Mr. Ken Pementell

Mr. Eugene Rainbow

Ms. Lydia Rocha

Mr. Roger Shephard

Ms. Lee Ann Smith

Ms. Barbara Sutherland

Ms. Judith Thomas

Ms. Winifred Walsh

Mr. Charles Wilson

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7.0 REFERENCES

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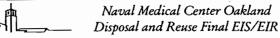
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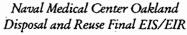
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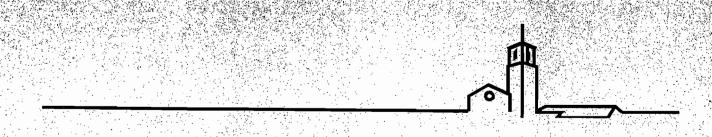
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9.0 GLOSSARY AND INDEX

9.1 GLOSSARY OF TERMS
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7.2 INDEX

GLOSSARY AND INDEX 9.

GLOSSARY OF TERMS 9.1

100-Year Flood Zone Land area having a one percent chance of being flooded during a given year.

A-Weighted Decibel (dBA) A number representing the sound level which is frequency weighted according to a

prescribed frequency response established by the American National Standards

Institute (ANSI-S1.4-1971) and accounts for the response of the human ear.

Referring to the perception of beauty. **Aesthetics**

Ambient Air Quality Standards established on a state or federal level that define the limits for airborne concentrations of designated criteria pollutants (nitrogen dioxide, sulfur dioxide, Standards

carbon monoxide, ozone, lead), to protect public health with an adequate margin of safety (primary standards) and public welfare, including plant and animal life,

visibility, and materials (secondary standards).

Artifact Any product or human cultural activity; more specifically, any tools, weapons,

artworks, etc., found in archeological contexts.

A carcinogenic substance formerly used widely as an insulation material by the Asbestos

construction industry; often found in older buildings.

Assemblage The complete inventory of artifacts from a single, defined archaeological unit (such

as a stratum or component).

An area that meets the National Ambient Air Quality Standards for a criteria Attainment Area

pollutant under the Clean Air Act or meets state air quality standards.

California Environmental CEQA is the California state equivalent to NEPA. It requires an environmental Quality Act (CEQA)

review of projects deemed to have significant environmental impacts and which

require state or local government approval or are publicly funded.

Capacity (Transportation) The maximum rate of flow at which vehicles can be reasonably expected to traverse a point or uniform segment of a lane or roadway during a specified time

period under prevailing roadway, traffic, and control conditions.

Capacity (Utilities) The maximum load a system is capable of carrying under existing service

conditions.

Clean Air Act (CAA) The CAA legislates that air quality standards set by federal, state, and county

regulatory agencies establish maximum allowable emission rates and pollutant concentrations for sources of air pollution on federal and private property. Also regulated under this law is proper removal and safe disposal of asbestos from

buildings other than schools.

The CWA is the major federal legislation concerning improvement of the nations Clean Water Act (CWA)

water resources. It provides for development of municipal and industrial wastewater treatment standards and a permitting system to control wastewater discharges to surface waters. Section 404 of the act regulates disposal into waters

of the United States, including wetlands.

Climate

The prevalent or characteristic meteorological conditions (and their extremes) of any given location or region.

Community Noise Equivalent Level (CNEL) Noise compatibility standard established by California Administrative Code, Title 21, Section 5000. The CNEL is the 24-hour average, A-weighted sound level with a 5 dB penalty added to levels occurring between 10:00 p.m. and 7:00 a.m. to account for increased annoyance due to noise during the night.

Community Environmental Response Facilitation Act (CERFA) A 1992 amendment to CERCLA, CERFA expedites the identification of uncontaminated real property within closing facilities that offer the greatest opportunity for reuse and redevelopment.

Comprehensive Environmental Response, Compensation, And Liability Act (CERCLA) CERCLA, also known as Superfund, was enacted in 1980 to ensure that a source of funds is available to clean up abandoned hazardous waste dumps, compensate victims, address releases of hazardous materials, and establish liability standards for responsible parties. The act also requires creation of a National Priorities List which sets forth the sites considered to have the highest priority for cleanup under Superfund.

Contamination

The degradation of naturally occurring water, air, or soil quality either directly or indirectly as a result of human activities.

Council On Environmental Quality (CEQ)

Established by NEPA, the CEQ consists of three members appointed by the President. CEQ regulations (40 CFR Pts 1500-1508, as of July 1, 1986) describe the process for implementing NEPA, including preparation of environmental assessments and environmental impact statements, and the timing and extent of public participation.

Culture

(1) The nonbiological and socially transmitted system of concepts, institutions, behavior, and materials by which a society adapts to its effective natural and human environment. (2) Similar or related assemblages of approximately the same age from a single locality or district, thought to represent the activities of one social group.

Cultural History

The archeological sequence of cultural activity through time, within a defined geographic space or relating to a particular group.

Cultural Resource

Prehistoric or historic districts, sites, buildings, objects, or any other physical evidence of human activity considered important to a culture, subculture, or community for scientific, traditional, religious, or any other reason.

Cumulative Impacts

"Cumulative impact" is the impact on the environment which results from the incremental impact of the action (federal) or project (state) when added to other past, present, and reasonably foreseeable future actions (or projects). Cumulative impacts can result from individually minor but collectively significant activities taking place over a period of time.

Day-Night Average Sound Level (Ldn) The 24-hour average-energy sound level expressed in decibels, with a 10 decibel penalty added to sound levels between 10:00 p.m. and 7:00 a.m. to account for increased annoyance due to noise during the night.

Decibel (dB)

A unit of measurement on a logarithmic scale which describes the magnitude of a particular quantity of sound pressure or power with respect to a standard reference value.



Defense Environmental Restoration Program (DERP) DERP is the Department of Defense hazardous materials cleanup program. It is separate from CERCLA but follows the same basic procedures, including the same regulatory oversight. The goals of the program are the identification, investigation, remediation, and cleanup of contamination from hazardous substances, pollutants, and contaminants. The funding for DERP is independent of Superfund.

Developed

Said of land, a lot, a parcel, or an area that has been built upon, or where public services have been installed prior to residential or commercial construction.

Direct Impact

Effects resulting solely from the proposed program.

Disposal

Legal transfer of Navy property to other ownership.

Effluent

Waste material discharged into the environment.

Endangered Species

A species with potential for extinction throughout all or a significant portion of its range.

Endangered Species Act (ESA)

The ESA requires federal agencies to determine the effects of their actions on endangered species and their critical habitats.

Environmental Impact Statement (EIS) A document required of federal agencies by NEPA for major projects or legislative proposals significantly affecting the environment. A tool for decision making, the EIS describes the positive and negative effects of the undertaking and analyzes alternative actions.

Equivalent Noise Levels (Leq)

Equivalent noise levels are used to develop single-value descriptions of average noise exposure over various periods of time.

Ethnography

The direct anthropological study of living human groups or the study of recent, historically documented groups.

Fault

Fracture in earth's crust accompanied by a displacement of one side of the fracture with respect to the other and in a direction parallel to the fracture.

Feasibility Study (FS)

The feasibility study (FS) identifies and evaluates all applicable site cleanup alternatives. For most sites, a long list of alternatives are possible. A risk investigation (RI) is performed as part of the study to quantify the level of risk to the public and environment posed by the site. Often, the RI determines which alternative is selected for final remediation. Each alternative is evaluated for effectiveness in protecting human health and the environment, ease of implementation, and overall cost. Typically, the RI and FS are performed concurrently.

Feature

A large, complex artifact or part of a site such as a hearth, cairn, housepit, rock alignment, or activity area.

Ground Water

Water within the earth that supplies wells and springs.

Hazard Ranking System (HRS)

This system provides a uniform method of scoring or ranking of the potential risk of a facility site where a hazardous substance has been present. The EPA developed the HRS to prioritize their cleanup efforts. The EPA evaluates the draft HRS packages and proposes any facilities scoring over 28.5 or higher for inclusion on the National Priorities List (NPL). Facilities which are listed on the NPL receive the highest priority.

Naval Medical Center Oakland Disposal and Reuse Final EIS/EIR Hazardous Material

A substance or mixture of substances that poses a substantial present or potential risk to human health or the environment. Any substance designated by the EPA to be reported if a designated quantity of the substance is spilled in the waters of the United States or if it is otherwise released into the environment.

Hazardous Waste

A waste or combination of wastes that, because of its quantity, concentration, or physical, chemical, or infectious characteristics, may either cause or significantly contribute to an increase in mortality or an increase in serious irreversible illness; or pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, disposed of, or otherwise managed. Regulated under RCRA.

Hazardous Waste Accumulation Area An area which may store hazardous wastes for up to 90 days.

Hazardous Waste Storagè Area An area which may store hazardous waste for up to one year.

Historic (Cultural Resources) A period of time after the advent of written history dating to the time first Euro-American contact in an area. Also refers to items primarily of Euro-American manufacture.

Impacts

An assessment of the meaning of changes in all attributes being studied for a given resource; an aggregation of all the adverse effects, usually measured using a qualitative and nominally subjective technique.

Infrastructure

The basic installations and facilities on which the continuance and growth of a locale depend (roads, schools, power plants, transportation, and communication systems).

Installation Restoration Program (IRP) A program established by the Department of Defense to meet requirements of CERCLA of 1980 and SARA of 1986 which identifies, assesses, and cleans up or controls contamination from past hazardous waste disposal practices and hazardous material spills.

Land Use Plans And Policies Guidelines adopted by governments to direct future land use within their jurisdictions.

Level Of Service (LOS)

In transportation analysis, a qualitative measure describing operational conditions within a traffic stream and how they are perceived by motorists and/or pedestrians. In public services, a measure describing the amount of public services available to community residents, generally expressed as the number of personnel providing service per 1,000 population.

Liquefaction

The transformation during an earthquake of unconsolidated, water-saturated sediment into a liquid form.

Long-Term

Impacts that would occur over an extended period of time, whether they start during the construction or operations phase. Most impacts from the operations phase are expected to be long term since program operations essentially represent a steady-state condition (i.e., impacts resulting from actions that occur repeatedly over a long period of time). However, long-term impacts could also be caused by construction activities if a resource is destroyed or irreparably damaged or of the recovery rate of the resource is very slow.



McKinney Act

The McKinney Act gives recognized providers of assistance to the homeless a high priority in acquiring unneeded land and buildings on federal properties. The property can be used only for the homeless and only for two years. Homeless providers must be able to finance upgrades of facilities, pay a proportionate share of municipal service costs, and fund its program operations.

Migratory Bird Treaty Act

This act prohibits the taking or harming of a migratory bird, its eggs, nests, or young without the appropriate permit.

Mitigation

A method or action to reduce or eliminate program impacts.

Multi-Family Housing

Townhouse or apartment units that accommodate more than one family though each dwelling unit is only occupied by one household.

National Environmental Policy Act (NEPA) Public Law 91-190, passed by Congress in 1969, established a national policy designed to encourage consideration of the influence of human activities on the natural environment. NEPA also established the Council on Environmental Quality. NEPA procedures require that environmental information be made available to the public before decisions are made.

National Historic Preservation Act (NHPA) The NHPA protects cultural resources. Section 106 of the act requires a federal agency to take into account the potential effect of a proposed action on properties listed on or eligible for listing on the National Register of Historic Places.

National Pollution Discharge Elimination System (NPDES) The NPDES is a provision of the Clean Water Act that prohibits discharge of pollutants into waters of the United States unless a special permit is issued by the EPA or state.

National Priorities List (NPL)

A list of sites (federal and state) where releases of hazardous materials may have occurred and may cause an unreasonable risk to the health and safety of individuals, property, or the environment.

National Register of Historic Places A federally maintained register of districts, sites, buildings, structures, architecture, and culture.

National Register Resources

Properties listed on the National Register of Historic Places, properties formally determined eligible for listing on the National Register, and those properties appearing to qualify for listing on the National Register.

Native American Graves Protection and Repatriation Act (NAGPRA) NAGPRA defines the ownership and control of Native American human remains and associated funerary objects discovered or recovered from federal or tribal land.

Native Americans

Used in the collective sense to refer to individuals, bands, or tribes who trace their ancestry to indigenous populations of North America prior to Euro-American contacts.

Native Vegetation

Plant life that occurs naturally in an area without agricultural or cultivational efforts. It does not include species that have been introduced from other geographical areas and have become naturalized.

Natural Gas

A natural fuel containing primarily methane and ethane that occurs in certain geologic formations.

Naval Medical Center Oakland Disposal and Reuse Final EIS/EIR



Nitrogen Oxides (Nox)

Gases formed primarily by methane and ethane that occurs in certain geologic formations.

Noise

Any sound that is undesirable because is interferes with speech and hearing, or intense enough to damage hearing, or is otherwise annoying.

Nonnative species

Species that have invaded or been introduced into an area.

Ozone

A major ingredient of smog. Ozone is produced from reactions of hydrocarbons and nitrogren oxides in the presence of sunlight and heat.

PCB-Contaminated Equipment

Equipment which contains a concentration of PCBs from 50 to 449 ppm or greater. Disposal and removal are regulated by the EPA.

Particulate Matter (PM10)

PM10 is a fractional sampling of particle sizes that approximate the extent to which particles with aerodynamic equivalent diameters smaller than fifty (50) microns penetrate to the lower respitory tract. The "10" in PM10 refers to a 50 percent collection efficiency size range, not an upper size limit.

Peak Hour

The hour of highest traffic volume on a given section of roadway between 7:00 a.m. and 9:00 a.m. or between 4:00 p.m. and 6:00 p.m.

Permit

An authorization, license, or equivalent control document to implement the requirements of an environmental regulation.

Phase

A distinctive archeological unit representing a fairly brief interval of time within a locality or region. A phase may be a single component at one site or a prolonged occupation of numerous related sites.

Polychlorinated Biphenyls

(PCBs)

Any of a family of industrial compounds produced by chlorination of biphenyl. These compounds are noted chiefly as an environmental pollutant that accumulates in organisms and concentrates in the food chain with resultant pathogenic and teratogenic effects. They also decompose very slowly.

Potable Water

Water that is suitable for drinking.

Prehistory/Prehistoric

The archeological record of nonliterate cultures; the cultural past before the advent of written records.

Preliminary Assessment

(PA)

The preliminary assessment identifies areas of potential contamination and evaluates each area to determine if a threat to human health or the environment exists. A PA report is developed from readily available information such as past inventory records, aerial photographs, employee interviews, existing analytical data, and a site visit. A PA may recommend no further action, additional work, or a removal action.

Radon

A colorless naturally occurring, radioactive, inert gaseous element formed by radioactive decay of radium in soil or rocks.

Record Of Decision (ROD)

The document prepared under the federal government that documents the reasoning behind the decision.

Recycling

The process of minimizing the generation of waste by recovering usable products that might otherwise become waste.



Region of Influence (ROI)

For each resource, the region affected by the proposed action or alternatives and used for analysis in the affected environment and impact discussion.

Remedial Action (RA)

During the remedial action (RA) phase, the selected cleanup technology is implemented. RA can be as simple as soil excavation or as complicated as a complete ground water treatment system which may operate for many years. Remedial action work plans for long term remediations will include Operation and Maintenance (O&M) plans. O&M efforts continue until the cleanup is complete.

Remedial Action Plan (RAP)

The document prepared under the state government that documents the reasoning behind the selection of a particular cleanup alternative.

Remedial Design (RD)

After the RAP/ROD is signed, remedial design (RD) can begin. During the RD phase, specific construction parameters and equipment specifications are prepared for the selected cleanup alternative.

Remedial Investigation (RI)

This investigation is performed to more fully define the nature and extent of the contamination at a site and evaluate possible methods of cleaning up the site. During the investigation, ground water, surface water, soil, sediment, and biological samples are collected and analyzed to determine the type and concentration of each contaminant. Samples are collected at different areas and depths to help determine the spread of contamination.

Removal Actions

In the event of an immediate threat or potential threat to human health or the environment, a short term removal or cleanup action may be implemented. The goal of the removal action is to isolate the contamination hot spot and their source from all biological receptors. Usually, removal actions do not completely clean up a site, and additional remediation steps are required.

Resource Conservation And Recovery Act (RCRA) RCRA was enacted in 1976 as the first step in regulating the potential health and environmental problems associated with hazardous waste disposal. RCRA and the regulations developed by EPA to implement its provisions provide the general framework of the national hazardous waste management system, including the determination of whether hazardous wastes are being generated, techniques for tracking wastes to eventual disposal, and the design and permitting of hazardous waste management facilities.

Runoff

The noninfiltrating surface water entering a stream or other conveyance channel shortly after a rainfall event.

Safe Drinking Water Act (SDWA)

The SDWA establishes the amount of concentrated contaminants allowable in public drinking water. The SDWA also reviews federal agencies which maintain public water supply or contribute to groundwater contamination following all applicable requirements issued by the state.

Seismicity

Relative frequency and distribution of earthquakes.

Short Term

Transitory effects of the proposed program that are of limited duration and are generally caused by construction activities or operations start-up.

Significance

The importance of a given impact on a specific resource as defined under the Council on Environmental Quality NEPA regulations, and under the California Environmental Quality Act statutes and guidelines.

Single-Family Housing

A conventionally built house consisting of a single dwelling unit occupied by one household.

Site

The location of past cultural activity; a defined space with more or less continuous archeological evidence. May also refer to specific site where an impact may have emphasis; or to the site occupied by a facility.

Site Discovery (SD)

A site is an area that has or has had the potential for a hazardous substance release. A single facility may contain several sites to be studied. Potential sites are occasionally discovered by searching through records or during construction projects.

Site Inspection (SI)

An inspection conducted after a preliminary assessment when additional information is needed to evaluate the site. The collection and analysis of soil, sediment, and surface or ground water samples may help determine the need for further study. The SI collects any information needed for hazard ranking. The SI may recommend a site for no action, further study, or an immediate removal action.

Soil

A natural body consisting of layers or horizons of mineral and/or organic constituents of variable thickness and differing from the parent material in their morphological, physical, chemical, and mineralogical properties, and biological characteristics.

Soil Types

A category or detailed mapping unit used for soil surveys based on phases or changes within a series (e.g. slope, salinity), that substantially affect one's ability to manage the soil.

Solid Waste Management

Supervised handling of waste materials from their source through recovery processes to disposal.

State Historic Preservation Officer (SHPO)

The official within each state, authorized by the state at the request of the Secretary of the Interior, to act as a liaison for purposes of implementing the National Historic Preservation Act.

Stratigraphy

The study of cultural and natural strata or layers in archeological and geological deposits, particularly with the aim of determining the relative age of strata.

Superfund Amendments And Reauthorization Act (SARA) SASRA was enacted in 1986 to increase the Sueprfund to \$85. Billion, modify contaminated site cleanup criteria scheduling, and revise settlement procedures. It also provides a fund for leaking underground storage tank cleanups and a broad, new emergency planning and community right to know program.

Surface Water

All water naturally open to the atmosphere and all wells, springs, or other collectors which are directly influenced by surface water.

Threatened Species

Plant and wildlife species likely to become endangered in the foreseeable future.

Toxic

Harmful to living organisms.

Toxic Substances Control Act (TSCA) TSCA provides authority to test and regulate chemicals to protect human health. Substances regulated under TSCA included asbestos and PCBs.

Transfer

Deliver US government property accountability to another federal agency.



Tribelet

The basic, autonomous, self-governing, and independent sociopolitical group in aboriginal California; an aggregation of several villages under the authority of a single chief.

US Environmental Protection Agency The independent federal agency established in 1970 to regulate federal environmental matters and oversee the implementation of federal environmental laws.

Waters of the United States

Waters that are subject to Section 404 of the clean Water Act. These include both deep water aquatic habitats and special aquatic sites, including wetlands.

Wetlands

Areas that are inundated or saturated with surface or groundwater at a frequency and duration sufficient to support a prevalence of vegetation typically adapted for life in saturated soil. This classification includes swamps, marshes, bogs, and similar areas. Jurisdictional wetlands are those wetlands that meet the vegetation, soils, and hydrology criteria under normal circumstances (or met the special circumstances as described in the US Army Corps of Engineers, 1987 wetland delineation manual where one or more of these criteria may be absent) and are a subset of "waters of the Untied States."

Zoning

The division of a municipality into districts for the purpose of regulating land use, types of buildings, required yards, necessary off-street parking, and other prerequisites to development. Zones are generally shown on a map and the text of the zoning ordinance species requirement for each zoning category.

9.2 INDEX

\boldsymbol{A}	
aboveground storage tank (AST)	3-115, 3-119, 4-149
Air Resources Board	
Alameda whipsnake	1-14, 3-46, 3-51, 3-53, 4-57, 4-64
Alquist-Priolo Special Studies Zones Act	3-67
Army Corps of Engineers	
Arroyo Viejo	2-6, 3-58, 3-62, 3-64, 5-7
Asbestos Hazardous Emergency Response Act	3-113
asbestos-containing material (ACM)	3-110, 3-113, 3-114, 4-149
asbestos-containing material (ACM) Assembly Bill (AB)	1-11, 3-108
Association of Bay Area Governments (AGAB)	1-14, 2-53, 3-14, 3-16, 3-17,
***************************************	.3-18, 3-69, 3-94, 3-98, 4-10, 4-16, 4-18, 5-23, 7-1, 7-9
average daily trips	17, 4-90, 4-94, 4-98, 4-101, 4-104
A-weighted decibel (dBA)	3-103, 4-126
Base Closure and Realignment Commission	FS-3
Base Closure Community Redevelopment and Homeless Assistance	e Act FS_3 FS_6 1_1 1_8 1_9
Base Realignment and Closure Act (BRAC)	FS-1 FS-4 FS-6 1-1 1-2 1-8 1-15
Dase Realignment and Closure Fee (Die 10)	2-1, 3-110, 3-112, 3-113, 3-118, 3-123, 4-149
Bay Area Air Quality Management District (bAAQMD)	FS-20, 1-18, 1-21, 2-40, 2-41, 2-43, 2-53
3-90, 3-98,	3-99 3-101 4-109 4-110 4-111 4-112 4-1313 4-155
4-116,	
Bay Area Rapid Transit (BART)	3-82, 3-90
biohazardous waste	FS-20, 3-112, 4-145, 4-150, 4-151
BRAC Cleanup Plan (BCP)	FS-4. 1-15. 3-110. 3-115. 3-118
BRAC Commission	1-2
	•
C	y some Maria
California Building Code (CBC)	
California Department of Fish and Game (CDFG)	
3-5	6, 4-56, 4-59, 4-60, 4-61, 4-63, 4-64, 6-1, 7-3, 7-6, 7-14
California Department of Transportation (Caltrans)1-18, 3-	6, 3-82, 3-86, 3-93, 4-92, 4-94, 4-106, 7-2, 7-3, 7-6, 7-8
California Department of Water Resources	3-63, 4-68
California Environmental Protection Agency (Cal/EPA)	
California Environmental Quality Act (CEQA) ES-1, ES-2, I	ES-3, ES-4, ES-9, ES-10, ES-11, ES-13, ES-15, ES-20,
1-1, 1-11, 1-12, 1-13, 1-14, 1-15, 1-20, 1-21	, 2-1, 2-3, 2-5, 2-26, 2-27, 2-35, 2-36, 2-56, 2-57, 2-58,
2-59, 3-36, 3-57, 3-94, 4-3, 4-4, 4-58, 4-59, 4-60	
California Integrated Waste Management Board (CIWMB)	
California Native Plant Society (CNPS)	3-50, 3-51, 3-52, 3-53, 4-56, 7-9
California Species of Special Concern (CSC)	
California Transportation Commission	3-93
California Water Code	
caretaker ES-5, ES-6, ES-10, ES-19,	
4-26, 4-35, 4-36, 4-40, 4-55, 4-6	
Census Tract Area (CTA)	
Chabot Fault	
chaparral	
Clean Air Act	3-100, 3-113, 4-110, 4-115, 4-117, 4-119, 4-121, 4-122



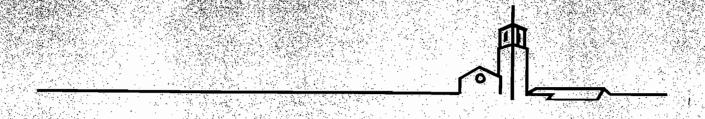
Clean Water Act	ES-2, ES-8, ES-9, ES-14, 1-2, 1-16, 1-18, 2-6,	ES-15, 3-56, 3-62, 4-3, 4-64
Club Knoll	ES-2, ES-8, ES-9, ES-14, 1-2, 1-16, 1-18, 2-6,	2-10, 2-15, 2-16, 2-18, 2-19,
	2-22, 2-24, 2-26, 2-31, 3-2, 3-33, 3-34, 3-35, 3-38,	
	4-40, 4-41, 4-42, 4-43, 4-45, 4-46, 4-48, 4-49, 4-5	01, 4-52, 4-54, 4-55, 7-6, 7-7
Code of California Regulations (CCR)	25 25/ 2444 245 2440 427	1-1, 3-76, 3-119, 3-122
Code of Federal Regulations (CFR)		4-//, 4-/9, 4-80, 4-82, 7-11
Community Environmental Response Pac	ilitation Act (CERFA)	1-15, 3-110, 3-123
Comprehensive Environmental Response	, Compensation, and Liability Act (CERCLA)	E3-4, 3-113, 3-123, 3-124
Congestion Management Flan (CMF)		
Council on Environmental Quality (CEQ)	·	FS_1 Q 1 1 2 24
Country Club Creek	Compensation, and Liability Net (CERCERY)	3.58 3.62
Country Club Creek	···	
D		
Defense Base Closure and Realignment A	ct (DBCRA)	1 2 3 1-1 1-11
Department of Defense (DOD)	ES-3, ES-4, ES-5, 1-1, 1-2,	1-9. 1-15. 1-19. 3-36. 3-101
	3-104 3-113 3-119 3-123	3-124 4-147 4-149 4-150
Department of Health Services		
Department of Public Works		3-76
\boldsymbol{E}		
earthauake	ES-16, 2-36, 3-67, 3-69, 3-70, 3-72, 3-77, 4-76	5 4-77 4-79 4-81 4-82 5-7
Fast Ray Municipal Utility District (EBM	UD)	1-18 3-61 3-105 6-3
Fast Bay Regional Park District (EBRPD))	-20 3-4 3-6 3-20 6-2 7-15
Engineering Field Activity (EFA)	ES-5, ES-10, 1-7, 2-26,	3-105, 3-110, 6-1, 7-7, 7-16
	ES-4, 1	
Environmental Impact Report (EIR)	ES-1, ES-2, ES-3, ES-4, ES-5, ES-6, ES-7, E	ES-10. ES-18. ES-20. ES-22.
	1-8, 1-11, 1-12, 1-13, 1-14, 1-15, 1-16, 1-17, 1-18, 1-	
	-26, 2-27, 2-50, 2-56, 2-61, 2-62, 3-51, 3-90, 4-1, 4-2	
	54, 4-64, 4-124, 4-145, 5-1, 5-2, 5-3, 5-10, 5-23, 5-25	
	ES-1, ES-2, ES-3, ES-4, ES-5, ES-6, ES-7, E	
	1-12, 1-13, 1-14, 1-15, 1-16, 1-17, 1-18, 1-19, 1-20, 1	
	-27, 2-50, 2-56, 2-61, 2-62, 3-51, 3-90, 4-1, 4-2, 4-4,	
	4, 4-64, 4-124, 4-145, 5-1, 5-2, 5-10, 5-23, 5-25, 5-27	
environmental justice	2-57, 3-12	2, 3-21, 4-10, 5-1, 5-27, 5-28
Environmental Protection Agency (EPA)	1-18, 1-19, 1-20, 3-56, 3-96, 3-108, 3-100, 3-111, 3-1	113, 3-114, 3-123, 3-124, 4-
115, 4-117, 4-119, 4-121, 4-126, 4-147,	6-3, 7-10	•
-		
$oldsymbol{F}_{i}$		
Federal Emergency Management Agency	(FEMA)	3-61, 3-70, 7-5, 7-15
Federal Highway Administration (FHWA)	3-93, 7-1, 7-2, 7-6, 7-8
	icide Act	
	ıs (FPMR)	
Finding of Suitability to Lease		1-8
flooding	2-35, 2-36, 4-6	7, 4-68, 4-70, 4-72, 4-73, 5-7
C		
G		
	ES-2, ES-7, ES-14, 1-2, 1-5, 1-13, 2-9,	
	2-30, 2-47, 2-49, 3-2, 3-4, 3-6, 3-20, 3-21	
	4-43, 4-44, 4-45, 4-46, 4-48, 4-51, 4-5	54, 4-69, 4-132, 4-133, 4-148
		· · · · · · · · · · · · · · · · · · ·
	Naval Medical Center Oakland	曲
	Disposal and Reuse Final FIS/FIR	⊘

4-92.4-9	3-6, 3-58, 3-79, 3-82, 3-83, 3-86, 3-87, 3-90, 3-94, 3-95, 4-84, 4-85, 4-86, 4-91, 3, 4-94, 4-95, 4-96, 4-97, 4-99, 4-100, 4-102, 4-103, 4-105, 4-107, 4-109, 4-114
grassland	3-4, 3-38, 3-41, 3-46, 3-50
H	
Hayward Fault	2-36, 3-58, 3-64, 3-65, 3-67, 3-69, 3-77, 4-79, 4-82, 7-7
Hazardous Waste Management Plan	
Homeless Collaborative	1-9
Hospital Creek	
Housing and Gloan Development (100)	
I	
Installation Restoration Program	ES-19, 3-113
interim use	ES-5, 1-8, 2-27 ES-2, ES-17, ES-18, ES-21, 1-2, 2-39, 2-45, 2-52, 3-1, 3-4, 3-6, 3-18, 3-22,
Interstate Route 580 (I-580)	ES-2, ES-17, ES-18, ES-21, 1-2, 2-39, 2-45, 2-52, 3-1, 3-4, 3-6, 3-18, 3-22,
	3-87, 3-93, 3-94, 3-95, 3-104, 4-7, 4-8, 4-9, 4-41, 4-46, 4-85, 4-86, 4-87,
	4-90, 4-91, 4-92, 4-93, 4-94, 4-95, 4-96, 4-97, 4-98, 4-99, 4-100, 4-101,4-102, 4-103, 4-104, 4-105, 4-106, 4-107, 4-109, 4-127, 5-6, 5-8, 5-9, 5-10,
	5-11, 5-12, 5-13, 5-14, 5-15, 5-16, 5-17, 5-18, 5-19, 5-20, 5-21, 5-22, 5-23, 5-28
	, , , , , , , , , , , ==,==,==,==,===,=
<i>K</i>	
Keller Avenue	ES-2, 1-2, 2-5, 2-6, 2-12, 2-20, 2-32, 2-39, 2-52, 3-1, 3-6, 3-8, 3-74, 3-79, 3-82, 3-83, 3-86, 3-88, 3-90, 3-91, 3-95, 3-105, 4-6, 4-8, 4-43, 4-45,
	5, 4-86, 4-87, 4-92, 4-96, 4-100, 4-103, 4-106, 5-10, 5-12, 5-14, 5-16, 5-18, 5-20
\boldsymbol{L}	
landfill ES-19, ES-22, 2-46, 2-49, 2-5	54, 2-55, 3-108, 4-131, 4-134, 4-136, 4-138, 4-139, 4-141, 5-23, 5-24, 5-25, 5-26
Lead Based Paint	3-121
	ES-3, ES-13, ES-18, ES-20, ES-21, 1-11, 1-18, 2-1, 2-12, 2-16, 2-20, 2-32, 2-57,
	4-12, 4-14, 4-15, 4-17, 4-18, 4-19, 4-20, 4-21, 4-22, 4-23, 4-24, 4-25, 4-45, 4-46, 4-54, 4-55, 4-109, 4-110, 4-113, 4-116, 4-119, 4-121, 4-145, 4-150, 4-154, 5-26
Leona Regional Open Space	2-6, 3-4, 3-21, 3-41, 3-42, 3-58, 4-7, 4-8, 4-9
Leona rhyolite	
Level of Service (LOS)	
••••••••••••	. 4-95, 4-97, 4-98, 4-99, 4-100, 4-101, 4-102, 4-103, 4-104, 4-105, 4-107, 4-109,
	5-9, 5-10, 5-11, 5-12, 5-13, 5-14, 5-15, 5-16, 5-17, 5-18, 5-19, 5-20, 5-21
I ocal Redevelopment Authority (IRA)	
	ES-6, ES-22, 1-14, 1-16, 3-21, 5-27, 5-28, 5-29, 5-30
M	•
main entrance	3-58, 3-83, 3-87, 3-90
minority	
Mountain Boulevard	ES-2, ES-17, ES-21, 1-2, 2-5, 2-6, 2-13, 2-19, 2-20, 2-23, 2-26, 2-39, 2-40,
	45, 2-46, 2-52, 2-57, 3-1, 3-4, 3-6, 3-10, 3-41, 3-43, 3-69, 3-82, 3-83, 3-86, 3-90,



### ### #### ########################	4-9	91, 3-95, 3-105, 3-106, 4-42, 4-43, 4-45, 4-47, 4-49, 4-50, 4-52, 4-53, 4-85, 4-86, 87, 4-92, 4-94, 4-96, 4-97, 4-98, 4-101, 4-103, 4-104, 4-106, 4-108, 4-127, 4-128,
National Contingency Plan		
National Contingency Plan	municipal solid waste	3-108
National Contingency Plan	λ7	
National Emissions Standards for Hazardous Air Pollutants		
National Emissions Standards for Hazardous Air Pollutants	National Contingency Plan	3-124
National Environmental Policy Act	National Defense Authorization Act	E5-3
National Historic Preservation Act	National Emissions Standards for Flazard	OUS AIR POLLUTARIES
National Pollutant Discharge Elimination System (NPDES) Astonal Priorities List. Astonal Priorities List. Astonal Register of Historic Places ES-14, 3-34, 3-36, 4-37 National Register 144, 3-34, 3-36, 4-37 National Register 154, 3-34, 3-36, 4-37 Native American Resources ES-3-31, 4-18 Navy Caretaker Site Office. NEPA		
National Register of Historic Places. S123, 3-124 National Register of Historic Places. S23-31, 4-34 National Register (14, 3-34, 3-36, 4-37 National Register (14, 3-34, 3-36, 4-37 National Register (14, 3-34, 3-36, 4-37 Native American Resources (14, 3-34, 3-36, 4-37 Native American Resources (15-3-31, 4-34) Navy Caretaker Site Office (15-3-31, 4-34) Navy Caretaker Site Office (15-3-31, 4-34) Navy Caretaker Site Office (15-3-31, 4-34) Navy Caretaker Site Office (15-3-31, 4-34) Navy Caretaker Site Office (15-3-31, 4-34) NEPA (15-4-2-3-2-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4	National Historic Preservation Ad	System (NIDDES) 4 40
National Register of Historic Places		
National Register	Notional Register of Historic Places	FS-14 3-34 3-36 4-37
Native American Resources	National Register	14 3-34 3-36 4-37
Navy Caretaker Site Office. 1.7 NEPA		
NEÉAES-1, ES-2, ES-3, ES-4, ES-9, ES-10, ES-11, ES-20, ES-22, 1-1, 1-2, 1-8, 1-10, 1-11, 1-12, 1-13, 1-14,		
1-15, 1-20, 1-21, 2-1, 2-3, 2-5, 2-26, 2-27, 2-56, 2-57, 3-21, 4-1, 4-3, 4-77, 4-79, 4-80, 4-82, 5-1, 5-2, 5-27 NHPA	NEPAES-1, ES-2, ES-3, ES-	4, ES-9, ES-10, ES-11, ES-20, ES-22, 1-1, 1-2, 1-8, 1-10, 1-11, 1-12, 1-13, 1-14,
NHPA		
notice of completion		
notice of intent	notice of availability	1-20
notice of preparation		
NPL	notice of intent	1-17, 3-62
Oak Knoll Reuse Plan		
Oak Knoll Reuse Plan		
Oak Knoll Reuse Plan 7-9 Oakland Base Closure/Conversion Task Force (OBC/CTF) ES-6, 2-1, 2-60 Oakland Base Reuse Authority (OBRA) ES-1, ES-3, ES-6, ES-7, ES-8, ES-11, 1-9, 1-10, 1-11, 1-21, 2-1, 2-2, 2-3, 2-5, 2-6, 2-9, 2-12, 2-13, 2-15, 2-16, 2-20, 2-23, 2-60, 2-61, 2-62, 3-12, 4-1, 4-6, 488, 4-149, 6-1, 7-8 Oakland Comprehensive Plan 10, 12, 1-5, 2-5, 3-6, 3-8, 3-10, 3-11, 3-41, 3-104, 3-105, 4-123, 7-5 Oakland Fire Department 2-27, 3-27, 3-28, 3-29, 4-30, 4-32, 4-33, 4-35, 7-14, 7-16, 7-17 Oakland Police Department 2-30, 3-24, 3-25, 4-29, 4-30, 4-32, 4-33, 4-35, 7-4, 7-15, 7-16, 7-17 Oakland Unified School District (OUSD) 2-28, 2-29, 2-30, 2-51, 3-19, 3-20, 4-14, 4-15 Occupational Safety and Health Administration 3-113, 4-14 Office of Parks and Recreation (OPR) 2-15, 3-20, 6-2, 7-17 oil/water separator 3-98, 3-99, 3-100, 4-1, 4-109, 4-110, 4-115, 4-117, 4-118, 4-119, 4-122, 5-1, 5-22, 5-29 P Pacific Bell 3-105, 3-107, 4-135, 4-138, 4-140, 4-143, 6-2 Pacific gas & Electric Company (PG&E) 3-105, 3-107, 4-135, 4-145, 4-147, 4-148, 4-154 Polychlorinated Biphenyl (PCB) ES-19, 3-111, 3-119, 4-66, 4-69, 4-145, 4-147, 4-148, 4-154 Polychlorinated Biphenyl (PCB) ES-19, 3-114, 3-115, 4-145, 149, 4-151, 4-152, 4-153, 4-154, 7-12 Power House Creek 3-4, 3-55	NRHP	2-31, 3-34, 3-35, 3-36, 4-37, 4-39, 4-40, 5-6, /-13
Cakland Comprehensive Plan	Oakland Base Closure/Conversion Task	Force (OBC/CTF)ES-6, 2-1, 2-60
Oakland Comprehensive Plan		
Oakland Police Department 2-30, 3-24, 3-25, 4-29, 4-30, 4-32, 4-33, 4-35, 7-4, 7-15, 7-16, 7-17 Oakland Tree Ordinance 2-35, 3-46, 3-47, 3-49, 3-57, 4-59, 4-60, 4-62, 4-63, 4-65 Oakland Unified School District (OUSD) 2-28, 2-29, 2-30, 2-51, 3-19, 3-20, 4-14, 4-15, 4-18, 4-19, 4-21, 4-24, 5-5, 5-6, 6-2, 7-8, 7-15, 7-16 Occupational Safety and Health Administration 3-113, 4-149 Office of Parks and Recreation (OPR) 2-15, 3-20, 6-2, 7-17 oil/water separator 3-115 ozone ES-11, ES-12, ES-18, ES-20, ES-21, 2-40, 2-53, 2-58, 2-59, 3-95, 3-96, 3-97 manage of Parks and Recreation (OPR) 3-98, 3-99, 3-100, 4-1, 4-109, 4-110, 4-115, 4-117, 4-118, 4-119, 4-122, 5-1, 5-22, 5-29 P Pacific Bell 3-105, 3-107, 4-135, 4-138, 4-140, 4-143, 6-2 Pacific Bell 3-105, 3-107, 4-135, 4-138, 4-140, 4-143, 6-2 Pacific gas & Electric Company (PG&E) 3-105, 3-111, 3-119, 4-66, 4-69, 4-145, 4-147, 4-148, 4-154 Polychlorinated Biphenyl (PCB) ES-19, 3-114, 3-115, 4-145, 149, 4-151, 4-152, 4-153, 4-154, 7-12 Power House Creek 3-4, 3-55 public benefit conveyance 1-13, 2-60 public involvement 1-11, 1-14, 1-15, 1-16 Public Resources Code (PRC) 1-1, 3-36, 7-12		
Oakland Tree Ordinance	Oakland Fire Department	2-27, 3-27, 3-28, 3-29, 4-30, 4-32, 4-33, 4-35, 7-14, 7-16, 7-17
Oakland Unified School District (OUSD)	Oakland Police Department	2-30, 3-24, 3-25, 4-29, 4-30, 4-32, 4-33, 4-35, 7-4, 7-15, 7-16, 7-17
## A-18, 4-19, 4-21, 4-24, 5-5, 5-6, 6-2, 7-8, 7-15, 7-16 Occupational Safety and Health Administration ## 3-113, 4-149 Office of Parks and Recreation (OPR) ## 2-15, 3-20, 6-2, 7-17 oil/water separator ## 3-115 ozone ## ES-11, ES-12, ES-18, ES-20, ES-21, 2-40, 2-53, 2-58, 2-59, 3-95, 3-96, 3-97 ## B-20, Separation ## 3-105, 3-107, 4-135, 4-138, 4-140, 4-143, 6-2 ## Pacific Bell ## 3-105, 3-107, 4-135, 4-138, 4-140, 4-143, 6-2 ## Pacific gas & Electric Company (PG&E) ## 3-105, 3-107, 4-135, 4-145, 4-147, 4-148, 4-154 ## Polychlorinated Biphenyl (PCB) ## ES-19, 3-114, 3-115, 4-145, 149, 4-151, 4-152, 4-153, 4-154, 7-12 ## Power House Creek ## 3-4, 3-58 ## public benefit conveyance ## 1-13, 2-61 ## public Resources Code (PRC) ## 1-11, 3-36, 7-13		
Occupational Safety and Health Administration	Oakland Unified School District (OUSD))2-28, 2-29, 2-30, 2-51, 3-19, 3-20, 4-14, 4-15,
Office of Parks and Recreation (OPR) oil/water separator ES-11, ES-12, ES-18, ES-20, ES-21, 2-40, 2-53, 2-58, 2-59, 3-95, 3-96, 3-97, 3-98, 3-99, 3-100, 4-1, 4-109, 4-110, 4-115, 4-117, 4-118, 4-119, 4-122, 5-1, 5-22, 5-29 Pacific Bell Pacific gas & Electric Company (PG&E) Pacific gas & Electric Company (PG&E) Polychlorinated Biphenyl (PCB) ES-19, 3-111, 3-119, 4-66, 4-69, 4-145, 4-147, 4-148, 4-154, 7-12 Power House Creek S-19, 3-114, 3-115, 4-145, 149, 4-151, 4-152, 4-153, 4-154, 7-12 Power House Creek 1-13, 2-61 public involvement 1-11, 1-14, 1-15, 1-16 Public Resources Code (PRC)		4-18, 4-19, 4-21, 4-24, 5-5, 5-6, 6-2, 7-8, 7-15, 7-16
oil/water separator		
Pacific Bell 3-105, 3-107, 4-135, 4-138, 4-140, 4-143, 6-2 Pacific gas & Electric Company (PG&E) 3-101, 3-111, 3-119, 4-66, 4-69, 4-145, 4-147, 4-148, 4-154 Polychlorinated Biphenyl (PCB) ES-19, 3-114, 3-115, 4-145, 149, 4-151, 4-152, 4-153, 4-154, 7-12 Power House Creek 3-4, 3-58 public benefit conveyance 1-13, 2-61 public Resources Code (PRC) 1-1, 3-36, 7-13		
Pacific Bell 3-105, 3-107, 4-135, 4-138, 4-140, 4-143, 6-2 Pacific gas & Electric Company (PG&E) 3-105, 3-107, 4-135, 4-145, 4-145, 4-145, 4-148, 4-154 Polychlorinated Biphenyl (PCB) ES-19, 3-114, 3-115, 4-145, 149, 4-151, 4-152, 4-153, 4-154, 7-12 Power House Creek 3-4, 3-58 public benefit conveyance 1-13, 2-61 public Resources Code (PRC) 1-1, 3-36, 7-13	oil/water separator	EC 11 EC 12 EC 10 EC 20 EC 21 2 40 2 E2 2 E0 2 E0 2 OE 2 OC 2 OF
Pacific Bell		
Pacific Bell 3-105, 3-107, 4-135, 4-138, 4-140, 4-143, 6-2 Pacific gas & Electric Company (PG&E) 3-105, 3-106, 3-107 pesticides 19, 3-111, 3-119, 4-66, 4-69, 4-145, 4-147, 4-148, 4-154 Polychlorinated Biphenyl (PCB) ES-19, 3-114, 3-115, 4-145, 149, 4-151, 4-152, 4-153, 4-154, 7-12 Power House Creek 3-4, 3-58 public benefit conveyance 1-13, 2-61 public involvement 1-11, 1-14, 1-15, 1-16 Public Resources Code (PRC) 1-1, 3-36, 7-13		3-99, 3-100, 4-1, 4-109, 4-110, 4-113, 4-117, 4-118, 4-119, 4-122, 3-1, 3-22, 3-27
Pacific gas & Electric Company (PG&E) 3-105, 3-106, 3-107 pesticides 19, 3-111, 3-119, 4-66, 4-69, 4-145, 4-147, 4-148, 4-154 Polychlorinated Biphenyl (PCB) ES-19, 3-114, 3-115, 4-145, 149, 4-151, 4-152, 4-153, 4-154, 7-12 Power House Creek 3-4, 3-58 public benefit conveyance 1-13, 2-61 public involvement 1-11, 1-14, 1-15, 1-16 Public Resources Code (PRC) 1-1, 3-36, 7-13	P	
Pacific gas & Electric Company (PG&E) 3-105, 3-106, 3-107 pesticides 19, 3-111, 3-119, 4-66, 4-69, 4-145, 4-147, 4-148, 4-154 Polychlorinated Biphenyl (PCB) ES-19, 3-114, 3-115, 4-145, 149, 4-151, 4-152, 4-153, 4-154, 7-12 Power House Creek 3-4, 3-58 public benefit conveyance 1-13, 2-61 public involvement 1-11, 1-14, 1-15, 1-16 Public Resources Code (PRC) 1-1, 3-36, 7-13	Pacific Bell	
Polychlorinated Biphenyl (PCB) ES-19, 3-111, 3-119, 4-66, 4-69, 4-145, 4-147, 4-148, 4-154 Power House Creek 3-4, 3-58 public benefit conveyance 1-13, 2-61 public involvement 1-11, 1-14, 1-15, 1-16 Public Resources Code (PRC) 1-1, 3-36, 7-13	Pacific gas & Electric Company (PG&E)	3-105, 3-106, 3-107
Polychlorinated Biphenyl (PCB)	pesticides	19, 3-111, 3-119, 4-66, 4-69, 4-145, 4-147, 4-148, 4-154
Power House Creek 3-4, 3-58 public benefit conveyance 1-13, 2-61 public involvement 1-11, 1-14, 1-15, 1-16 Public Resources Code (PRC) 1-1, 3-36, 7-13	Podeciaco	
public involvement 1-11, 1-14, 1-15, 1-16 Public Resources Code (PRC) 1-1, 3-36, 7-13	Polychlorinated Biphenyl (PCB)	ES-19, 3-114, 3-115, 4-145, 149, 4-151, 4-152, 4-153, 4-154, 7-12
Public Resources Code (PRC)	Polychlorinated Biphenyl (PCB) Power House Creek	ES-19, 3-114, 3-115, 4-145, 149, 4-151, 4-152, 4-153, 4-154, 7-12
	Polychlorinated Biphenyl (PCB)	ES-19, 3-114, 3-115, 4-145, 149, 4-151, 4-152, 4-153, 4-154, 7-123-4, 3-581-13, 2-61
public scoping	Polychlorinated Biphenyl (PCB)	ES-19, 3-114, 3-115, 4-145, 149, 4-151, 4-152, 4-153, 4-154, 7-12 3-4, 3-58 1-13, 2-61 1-11, 1-14, 1-15, 1-16
	Polychlorinated Biphenyl (PCB) Power House Creek public benefit conveyance public involvement Public Resources Code (PRC)	ES-19, 3-114, 3-115, 4-145, 149, 4-151, 4-152, 4-153, 4-154, 7-12

Public Works Center San Francisco Bay (PWCS)	FB)3-105, 4-36, 4-135, 4-137, 4-138, 4-140, 4-143, 7-12
R	
radiological	3-121 3-122, 3-123, 3-125, 4-147, 4-154
radon	3-122, 3-123, 3-125, 4-147, 4-154
rainfall	
Record of Decision (ROD	ES-4, 1-12, 1-21 ES-22, 2-54, 2-55, 3-107, 3-111, 5-23, 5-25, 5-26 ES-10, 1-13, 3-1, 3-12, 3-14, 3-15, 3-16, 3-17, 3-21, 3-24, 3-46,
recycling	ES-22, 2-54, 2-55, 3-107, 3-111, 5-23, 5-25, 5-26
Region of Influence (ROI)	ES-10, 1-13, 3-1, 3-12, 3-14, 3-15, 3-16, 3-17, 3-21, 3-24, 3-46,
	8, 3-64, 3-78, 3-95, 3-103, 3-105, 3-110, 4-2, 4-10, 4-14, 4-15, 4-16, 4-17,
4-1	18, 4-19, 4-20, 4-22, 4-23, 4-25, 4-26, 4-27, 4-28, 4-76, 4-109, 4-123, 5-27
	3)3-60, 3-62, 3-119, 4-70, 4-72, 4-73, 4-75, 7-9
	3-111, 3-112
Rifle Range Creek	14, 2-5, 2-6, 2-10, 2-12, 2-16, 2-19, 2-22, 2-26, 2-33, 2-34,
	3-38, 3-40, 3-41, 3-42, 3-43, 3-46, 3-49, 3-50, 3-55, 3-58, 3-60, 3-61, 3-62,
3-74, 3-76, 4-7	7, 4-8, 4-9, 4-42, 4-43, 4-44, 4-47, 4-50, 4-52, 4-57, 4-58, 4-59, 4-60, 4-61,
4-6	2, 4-63, 4-64, 4-65, 4-68, 4-69, 4-70, 4-71, 4-72, 4-73, 4-74, 4-82, 5-6, 5-7
S	
San Andreas Fault	3.64 3.65 7.7 7.13
Senate Bill (SR)	
Solid Waste Management Unit	
State Historic Preservation Office (SHPO)	3-34, 3-35, 4-38, 7-13
	3-98
State Water Resources Control Board	
	3-62, 4-69, 4-70, 4-71, 4-72, 4-73, 4-74, 4-75
	, 4-69, 4-70, 4-71, 4-72, 4-73, 4-74, 4-75, 4-81, 4-135, 4-137, 4-140, 4-143
5.67111 water Lo 17, 5 56, 5 62, 5 65, 1 66,	, 100, 170, 171, 172, 173, 171, 173, 101, 1-133, 1-137, 1-140, 1-143
T	
-	•
Toxic Substances Control Act	3-113, 3-114
	•
U	
and amound stomes took (TICT)	3-115, 3-116, 3-117, 3-118, 4-146, 4-149
Liniform Puilding Code (LIPC)	2.70, 2.71, 3.71
LIS Code (TISC)	3-70, 3-72, 3-76 1-8, 1-9, 3-35, 3-55, 3-98, 3-111, 3-119
LICEISh and Wildlife Coming (LICEIVE)	
Os Fish and whome service (OsF ws)	
W	
Water Ovality Control Plan	7-9
	3-60, 3-61, 3-63, 4-68, 4-75, 4-145
wetlands	
wendend	
Working Comman California Front and Dark	3-4, 3-38, 3-46, 3-47, 3-49
working Group on Camornia Earthquake Proba	abilities



10.0 DISTRIBUTION LIST

	10	M 3	84 E	TC	•	TD	тт			NT	TT	CT				7		9.4	1		100			100		2. 1.	4.1		T. 11	7.1 7				1000	. v.		100	9.5		ALC: N
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1.0	7.		1.0			20.0		tel N				100		7		S		1. /Y			. 3			100	A	1	2.	9. 33						126	3 '44 '5			24.7		100
					1.54		22	333		3				14.77		100	No 15	3-14.5		100			Sec. 21.	1000						200	i Tich	1. A.	2.3	1000			100		100	State

10. DISTRIBUTION LIST

Naval Medical Center Oakland Final EIS/EIR Distribution and Notification List

Title	First	Last	Organization	Branch	City	State
			Elected Officials			
Supervisor	Mary	King	Alameda County	District No. 4	Oakland ·	CA
•			Assemblyman Bates' Office	14th District	Oakland	CA
			Assemblywoman Lee's Office	16th District	Oakland '	CA
Mayor	Ralph	Appezzato	City of Alameda	Office of the Mayor	Alameda	CA
Mayor	Shirley	Dean	City of Berkeley	Office of the Mayor	Berkeley	CA
Mayor	Dick	Kassis	City of Emeryville	Office of the Mayor	Emeryville	CA
Mayor	Elihu	Harris	City of Oakland	Office of the Mayor	Oakland	CA
Councilmember	Nancy	Nadel	City of Oakland	District No. 3	Oakland	CA
Councilmember	Henry	Chang, Jr.	City of Oakland	Member at Large	Oakland	CA
Councilmember	Ignacio	De La Fuente	City of Oakland	District No. 5	Oakland	CA
Councilmember	Jane	Brunner	City of Oakland	District No. 1	Oakland	CA
Councilmember	Nate	Miley	City of Oakland	District No. 6	Oakland	CA
Councilmember	Iohn	Russo	City of Oakland	District No. 2	Oakland	CA
Councilmember	Richard	Spees	City of Oakland	District No. 4	Oakland	CA
Mayor	Milt	Kegley	City of Piedmont	Office of the Mayor	Piedmont	CA
Mayor Mayor	Willie	Brown	City of San Francisco	Office of the Mayor	San Francisco	CA
•	Ellen	Corbitt	City of San Francisco City of San Leandro		San Leandro	CA
Mayor	Ellell	Corbitt	Congressman Dellum's Office	Office of the Mayor	Oakland	CA
			Congressman Stark's Office			CA
	Y . 1	Litera	Senator Boxer's Office	•	Hayward	
Mr. Mr.	John	Hass Lowe			San Francisco	CA
	Russell		Senator Feinstein's Office		San Francisco	CA
Senior Staff Member		Brooks	9th Congressional District		Oakland .	CA
District Director	Sandre	Swanson	9th Congressional District		Oakland	CA
D: 144D	C-	C 1	Federal Agencies	C	<u> </u>	64
Director HUD Office	Steven	Sachs	Department of Housing and Urban Development	Community Planning & Development, 9ADE	San Francisço	CA
Mr.	Jimmy	Prater	Department of Housing and Urban		San Francisco	CA
,	,		Development			
Chief .			Federal Aviation Administration, Air	Branch AWP 530	Los Angeles	CA
			Space & Program	Diane.	200 Tingenes	
Regional Director			Federal Emergency Management	Region IX	San Francisco	CA
Director			Agency	region Dr	Jan I rancisco	٠.٠
			Federal Transit Administration		San Francisco	CA
	Sharel	Gates	General Services Administration		Sacramento	CA
Chief, Northern	Dianne	Cah	General Services Administration	Office of Real Estate	San Francisco	CA
Branch ·	Dianne	Can	General Services Administration	Sales (90R)	San Francisco	CA
Mr.	Tom	Doszkocs	General Services Administration	Interagency Real Estate Coordinator	San Francisco	CA
			Housing and Urban Development	Coordinator	Washington	DC
Mr.	Richard	Brown	Headquarters Library Housing and Urban Development		Washington	DC
			Office of Community Viability	-		
Refuge Manager	Marge	Kolar	San Francisco Bay National Wildlife Refuge		Newark	CA
Ms.	Denise	Klimas	U.S. Dept. of Commerce	National Oceanic & Atmospheric	San Francisco	CA
				Administration		
Mr.	George	Hoops	U.S. Dept. of Education	Federal Real Property Assistance Program	Seattle	WA
Mr.	David	Hakola	U.S. Dept. of Education	Real Property Group	Washington	DC

Title	First	Last	Organization	Branch	City	State
	· · · · · · · · · · · · · · · · · · ·		U.S. Dept. of Energy	Office of EC&E, Environmental Prg. Div.,	Oakland	CA
			U.S. Dept. of State	3G-092 Environmental Affairs	Washington	DC
			•	Office		ЪС
Chief		Environmental Section	U.S. Dept. of the Interior	Bureau of Indian Affairs	Sacramento	CA
Mr.	Ed	Hestey	U.S. Dept. of the Interior	Bureau of Land Management	Sacramento	CA -
Mr.	Stanley	Albright	U.S. Dept. of the Interior	National Park Service	San Francisco	CA
Chief of Planning & Environmental	Ray	Murray	U.S. Dept. of the Interior	National Park Service	San Francisco	CA
Quality Regional	Patricia	Port	U.S. Dept. of the Interior	Office of	San Francisco	· C4
Regional Environmental Officer	r atricia	·	O.S. Dept. of the Interior	Environmental Policy and Compliance	Jan Francisco	CA
Director			U.S. Dept. of the Interior	Office of Environmental Policy and Compliance	Washington	DC
Director's Representative			U.S. Dept. of the Interior, USGS		Menlo Park	CA
Region IX Secretary	Thomas	Patak	U.S. Dept. of Transportation U.S. Dept. of Transportation, Federal Highway Administration	Administration, Region	San Francisco San Francisco	CA CA
			U.S. Dept. of Transportation	IX	Washington	DC
Mr.	David	Farrel	U.S. Environmental Protection Agency, Region IX	Environmental Review Section (E-3-1)	San Francisco	CA
Mr.	David	Tomsovic	U.S. Environmental Protection Agency, Region IX	Office of External Affairs	San Francisco	CA
Ms.	Esther	Hill	U.S. Environmental Protection Agency, Region IX	Reuse Rep.	San Francisco	CA.
Mr.	Barbara	Smith	U.S. Environmental Protection Agency, Region IX		San Francisco	CA
Мг.	Wayne	White	U.S. Fish & Wildlife Service	Ecological Services	Sacramento	CA
			Military			
Mr.	Pat	O'Brien	U.S. Dept. of Defense	Office of Economic Adjustment	Arlington	VA
Mr.	Paul	Ryeff	U.S. Dept. of Defense	Office of Economic Adjustment	Sacramento	CA
District Engineer			U.S. Army Corps of Engineers	A CECDY DVA	San Francisco	CA
District Engineer		•	U.S. Army Corps of Engineers Defense Technical Information	Attn: CESPK-PM-M DTIC Customer	Sacramento Ft. Belvoir	CA VA
			Center	Service Help Desk (DTIC-BLS)		
Env. Planning Manager	Gary	Munekawa	US Navy	EFA West, Code 1852	San Bruno	CA _.
Code N45, Environmental			US Navy	COMNAVBASE San Diego	San Diego	CA
Programs			State America		•	
Mr.	Bob	Fletcher	State Agencies CA Air Resources Board		Sacramento	CA
	ĎOD	rietcher	CA Dept. of Conservation	Division of Mines & Geology	San Francisco	CA
Mr.	Ken	Trott	CA Dept. of Conservation	Office of Land Conservation	Sacramento	CA
Program Coordinator	Dennis	O'Bryant	CA Dept. of Conservation		Sacramento	CA
Mr.	Pete	Phillips	CA Dept. of Fish & Game	Environmental Services Division	Sacramento	CA
Mr.	Brian	Hunter	CA Dept. of Fish & Game	NW Region 3	Yountville	CA



Title	First	Last	Organization	Branch	City	State
Director			CA Dept. of Fish & Game		Sacramento	.CA
Mr.	Douglas	Wickizer	CA Dept. of Forestry	•	Sacramento	CA
Мг.	Jerome	Lucas	CA Dept. of Health Services	Office of Noise Control	Berkeley	CA
Mr.	Steve	Hsu	CA Dept. of Health Services	Radiological Health Dept.	Sacramento	CA
Director			CA Dept. of Health Services		Sacramento	CA
Mr.	Ken	Pierce	CA Dept. of Parks & Recreation	Resource Management Division	Sacramento	CA .
	Terry	Barrie	CA Dept. of Transportation	Transportation Planning	Oakland	CA
Branch Chief	Phillip	Badal	CA Dept. of Transportation, District 4	Office of Transportation Planning, IGR/CEQA Branch	Oakland	CA
Mr.	Walt	Pettit	CA Dept. of Water Resources		Sacramento	CA
Ms	Shirley	Buford	CA Environmental Protection Agency	Dept. of Toxic Substance Control	Berkeley	CA
Ms.	Mary Rose	Cassa	CA Environmental Protection Agency		Berkeley	CA
Ms.	Diana -	Peebler	CA Environmental Protection Agency	Dept. of Toxic Substance Control, Office of Military Facilities - Reuse Rep.	Sacramento .	CA
			CA Environmental Protection Agency	•	Sacramento	CA
Mr.	Mike	White	CA Labor Foundation CA Office of Emergency Services		San Francisco Pleasant Hill	CA CA
Mr.	Mike	Chiaritti	CA Office of Planning & Research		Sacramento	CA
Mr.	.Tom	Gansbury	CA Regional Water Quality Control Board	Basic Planning Unit	Oakland	CA
Mr.	John	Adams	CA Regional Water Quality Control Board	.Land Disposal Section	Sacramento	CA
Ms.	Shin-Rae	Lee	CA Regional Water Quality Control Board		Oakland	CA
Mr.	Dave	Plummer	CA State Clearinghouse CA State Lands Commission	Division of Research & Planning	Sacramento Sacramento	CA CA
Chief	Jane	Sekelsky	CA State Lands Commission	Division of Land Management	Sacramento	CA
Mr. District CEQA Coordinator	Robert	Berry	CA Trade and Commerce CA Dept. of Transportation District #4		Sacramento Oakland	CA CA
Coordinator	Chris	Brittle	Metropolitan Transportation Commission	Metro Center	Oakland	CA
Mr.	Craig	Goldblatt	Metropolitan Transportation Commission	Metro Center	Oakland	CA
Mr.	Marc F.	Roddin	Metropolitan Transportation Commission	Metro Center	Oakland	CA
Mr.	Larry	Myers	Native American Heritage Commission	Executive Secretary	Sacramento	CA
Ms.	Shin Rae	Lee	SF Bay Regional Water Quality Control Board	· · · · · · · · · · · · · · · · · · ·	Oakland	CA
Mr.	Vincent	Christian	SF Bay Regional Water Quality Control Board		Oakland	CA
Mr.	Douglas	Wheeler	The Resources Agency		Sacramento	CA
			Regional and Local Agencies			
	 -		AC Transit	Planning & Development Dept.	Oakland	CA
Ms.	Sharon	Banks	AC Transit		Oakland	CA
Mr.	Kenneth	Shieldig	AC Transit	Office of General Council	Oakland	CA
Mr.	Bruce	Kern	Alameda County	Economic Development Director	Oakland	CA

Naval Medical Center Oakland Disposal and Reuse Final EIS/EIR



Title	First	Last	Organization	Branch	City	State
			Alameda County	Mosquito Abatement District	Hayward	CA
Discosiona Discosor			Alameda County	Planning Department	Llargerand	CA
Planning Director	Rohin	Saleh	Alameda County	Public Works	Hayward	
	_		,		Hayward	CA
Ms.	Jean	Hart	Alameda County	Congestion Management Agency	Oakland	CA
Ms.	Patricia	Perry	Association of Bay Area Governments		Oakland	CA
Planning Director	Gary	Binger	Association of Bay Area Governments	·.	Oakland	CA
	Теггу	Bursztynsky	Association of Bay Area Governments	• •	Oakland	CA
Executive Director	Eugene	Leong	Association of Bay Area Governments		Oakland	CA
Ms.	Margaret	Pryor	BART	**	Oakland	·CA
	Richard	White	BART		Oakland	
Mr.						CA
Mr.	Jeff	Ordway	BART District Planning		Oakland	CA
Co-Chair	Albert	DeWitt	Base Reuse Group		Alameda	CA
Supervising	Niko	Letunic	Bay Area Air Quality Management		San Francisco	CA
Environmental Planner			District			
Mr.	Milton	Feldstein	Bay Area Air Quality Management District		San Francisco	.CA
Planning Director	Colette	Meunier	City of Alameda	Planning Department	Alameda	CA
Director			City of Berkeley	Planning Department	Berkeley	CA
Planning Director	Claudia	Cappio	City of Emeryville	Planning Department	Emeryville	CA
	Patrick	Guiboa	City of Fremont	Employment	Fremont	CA
Mr.	ratrick	Guiboa	City of Fremont	Development Department	Fremont	CA
Planning Director	Bruce	Allred	City of Hayward	Planning Department	Hayward	CA
		Becker	City of Oakland	riaming Department	Oakland	
Ms.	Jayne			Ci A		CA
Mr.	Ralph	Wheeler	City of Oakland	City Attorney's Office	Oakland	CA
Mr.	Robert	Bobb .	City of Oakland	City Manager	Oakland	CA
Director			City of Oakland	Development Services Department	Oakland	CA
Fire Marshal	Jerry	Blueford	City of Oakland	Fire Department	Oakland	CA
Fire Chief			City of Oakland	Fire Department	Oakland ,	CA
Mr.	Andrew	Altman	City of Oakland	CEDA	Oakland	CA
Ms.	Anu	Raud	City of Oakland	CEDA	Oakland	CA
Mr.	Willie	Yee	City of Oakland	CEDA	Oakland	CA
Mr.	Anthony	Batarse, Jr.	City of Oakland	Planning Commission	Oakland	CA
Ms.	Linda	Bytof	City of Oakland	Planning Commission	San Francisco	CA
Mr.	Les	Hausrath	City of Oakland	Planning Commission	Oakland	CA
ll	Glen	Jarvis	City of Oakland	Planning Commission	Berkeley	CA
Ms. Mr.	Anthony		City of Oakland	Planning Commission	Oakland	CA
Mr.		Pegram	•		Oakland	
II .	Vincent	Reyes	City of Oakland	Planning Commission		CA
Mr.	Frazier	Scurry-Scott	City of Oakland	Planning Commission	Oakland	CA
Police Chief			City of Oakland	Police Department	Oakland	CA
Community Services Division			City of Oakland	Police Department	Oakland	CA
			City of Oakland	Police Department Public Works Dept.	Oakland Oakland	CA CA
Managar	Frank	Fanelli	City of Oakland	Real Estate	Oakland	CA
Manager	Frank	ranem		Real Estate		
CPD 4	**	0.	City of Oakland	-	Oakland	CA
CEDA	Kent	Sims	City of Oakland		Oakland	CA
Planning Director			City of Piedmont		Piedmont	CA
Director	James	Farah	City of Richmond	Planning Department	Richmond	CA
Planning Director			City of San Francisco	City Planning	San Francisco	CA
Planning Director	Stephen	Emslie	City of San Leandro	Planning Division	San Leandro	CA
Director	Craig	Monroe	City of San Pablo	Planning Department	San Pablo	CA
Planning Director	B		City of South San Francisco	City Planning Division		CA
2.110101	· ·				Francisco	



Title	First	Last	Organization	Branch	City	State
Community	Harvey	Bragdon	Contra Costa County		Martinez	CA
Development	•	-				
Director			• .	'		
Planning Director			Contra Costra County	Community	Martinez	CA
				Development		
			•	Department		
Senior Civil	Prab	Jog	East Bay Municipal Utility District	•	Oakland	CA
Engineer						-
Manager of Water			East Bay Municipal Utility District,		Oakland	CA
Distribution			M/S 701			
Planning						
	Susan	Smart	East Bay Regional Park District	Finance and Legislation	Oakland	CA
1110.	Gladys	Green	Elmhurst District Board		Oakland	CA
	Dywane	Land	Landmarks Preservation	Advisory Board	Oakland	CA
. :			Oakland Base Reuse Authority	Tiurisory Dourd	Oakland	CA
Mr.	Henry	Gardner	Oakland Base Reuse Authority		Oakland	CA
	•	Nahm	Oakland Base Reuse Authority		Oakland	
Executive Director	Paul .	ivatini				CA
CI · F ·	C Pl -:	Call	Oakland Chamber of Commerce		Oakland	CA.
Chair, Employment	Gay Plair	Cobb	Oakland Private Industry Council		Oakland	CA
& Social	-					
Committees		· .	·			
ll .	Marilyn	Handis	Oakland Private Industry Council		Oakland	CA
	Toni	McElroy	Oakland Private Industry Council		Oakland	CA
Facilities Director			Oakland Unified School District		Oakland	CA
11	Robert	Dias	Oakland Unified School District		Oakland	CA
Superintendent	Carolyn	Getridge	Oakland Unified School District		Oakland	CA
	Mark	Beratta	Office of Economic Development		Oakland	CA
			and Employment			
ļ	Aliza	Gallo	CEDA		Oakland	CA
Manager	Lonnie '	Carter	Office of Housing & Neighborhood	Program Development.	Oakland	CA
			Development.	& Coordinator		-
Director	Tony	Acosta	Office of Parks and Recreation		Oakland	CA
	Brooke	Levin	Office of Public Works	Environmental Affairs	Oakland	CA .
Director	Terry	Roberts	Office of Public Works		Oakland	CA
Ms.	Lorraine	Giordano	Port of Oakland	East Bay Conversion &		CA
1413.	Lorrance	Giordano	1 of to Canada	Reinvestment	Cuidana	0.1
			•	Commission		
Mr.	James	McGrath	Port of Oakland	Environmental Division	Oakland	CA
11	Charles	Foster	Port of Oakland	Environmental Division	Oakland 3	CA
Executive Director	Charles	roster	. Port of Oakland	,	Oakland **	CA
Mr.	Carl	Bobino	Public Health Department	· .	Oakland	CA
			Organizations			
Ms.	Lorine	Hesleph	Ackland International, Inc		Oakland	CA
Ms.	Lavern	Holmes	Apricot Street Home Alert		Oakland	CA
J			ARC Ecology	•	San Francisco	CA
			Asian Immigrant Workers Advocates		Oakland	CA
			Asian Pacific Environmental		Oakland	CA
			Network		Outriand	011
Me	Padaar	Shaphard			Oakland	CA
Mr.	Rodger	Shepherd	Associated Residents of Sequoyah	•	Oakland	CA
\r		D.	Highlands, Inc.	•	0-14-1	C*
Mr.	Austin	Penny	Austin Penny & Associates		Oakland	CA
Ms.	Ellen	Johnck	Bay Planning Coalition		San Francisco	CA
Mr.	Frank	Gilbert	Brookfield Home Improvement		Oakland	CA
		•	Association			
H			CA Council for Environmental. and		San Francisco	CA
			Economic. Balance			
			CA Environmental Trust		San Francisco	CA
			CA Native Plant Society	East Bay Chapter	Berkeley	CA
			CA Network for a New Economy		San Francisco	CA
Ms.	Karen	Crit	California Research Bureau		Sacramento	·CA
			Center for Economic Conversion		Mountain	CA
					View	
Мг.	Ben	Littles	Chabot Park Estates		Oakland	CA
	Dell	Littles	CHADOL I SILV ESPACES		Oaniailu	<u> </u>

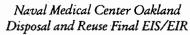
Naval Medical Center Oakland Disposal and Reuse Final EIS/EIR



Title	First	Last	Organization	Branch	City	State
Ms.	Nancy	Van Huffel	Chabot Park Highlands		Oakland	CA
ł	•		Homeowners Association	•		
Ms.	Ethel	Oliver	Concerned Citizens of South Eastmont	. •	Oakland	CA
Mr.	Alfred	Blunt	Crest Avenue Homeowners		Oakland	CA
			Association			
Ms.	Winifred	Walsh	Durant Park Highlands		Oakland	CA
Ms.	Martha	Matsuoka	Earth Island Institute	Urban Habitat Program		CA
Ms.	Wenona	Wilson	Earth Island Institute	Urban Habitat Program		CA
Mr.	Henry	Hemphill	Eastmont Mall		Oakland	CA
Mr.	Charles	Hill	Elmhurst Merchant Association		Oakland	CA
Ms.	Mary Jane	Gallagher	Environmental Defense Fund		Oakland	CA
			Golden Gate Audubon Society		Berkeley	CA
Mr.	Virgil W.	Eaton	Greenpeace Hillcrest Court Homeowners		San Francisco Oakland	CA CA
MIT.	vitgu w.	Laton	Association		Oakiand	CA
Mrs.	Robert H.	Hadley	Hillcrest Estates Improvement		Oakland	CA
WIIS.	Robert 11.	Tradicy	Association		Cartand	CA
Ms.	Sandra	Taylor	Hillcrest Estates Improvement		Oakland	CA
1412.		Taylor .	Association		Cakiand	CA
Mr.	Jeffrey E.	Frazen	Hill Area Coalition Homeowners		Oakland	CA
	Jenne, 2.		Association		Calciand	CA
Ms.	Sonja	Proulx	Homeowners of Crestmont		Oakland	CA
			Association	•		0
Co-Chair, Land	Frank	Dobson	Jordon, Woodman, Dobson		Oakland	CA
Reuse						
Mr.	Michael	Rawson	Legal Aid Society		Oakland	CA
Mr.	Gordon L.	Laverty	Leona Heights Improvement		Oakland	CA
ľ			Association			
Ms.	Shirley	Ware	Local 250		Oakland ·	CA
Mr.	Bruce	Thompson	Metropolitan Horsemans Association		Oakland	CA
· ·			Military Toxics Project		San Francisco	CA
Mr.	Harvey M.	Franklin	Mills Neighborhood Home Alert		Oakland	CA
1			Association			
Ms.	Diane	Daley-Smith	Montclarion		Oakland	CA
Mr.	Bill	Pesonen	Montebello Terrace Homeowners		Oakland	CA
			Association		_	
	** 1		National Rifle Association		Sacramento	CA
Mr.	· Hal	Candee	Natural Resources Defense Council	,	San Francisco	CA
	TT 11		Nature Conservancy		San Francisco	CA
. ·	Harold	Logwood	Northern California MBOC	,	Oakland	CA
Mr. Ms.	Russell L.	Moran Robinson	Oak Knoll Businesses		Oakland	CA
1412.	Sharon Melvin		Oak Knoll Estates Oak Knoll Heights Townhomes		Oakland	CA
•	MEINII	Gage	Association		Oakland	CA
Ms.	Nancy	McDowell	Oak Knoll Heritage Committee	•	Oakland	CA
Mr.	Glen	Daniel	Oak Knoll Homeowners		Oakland	CA
	Olch	Daniel	Improvement Association		Cakiand	CA
Ms.	Barbara	Sutherland	Oak Knoll Kings Estates		Oakland	CA.
Ms.	Laura	Dreyer	Oak Knoll Neighbors		Oakland	CA
		215/-1	·	•		· ·
Ms.	Melody	Магг	Oakland Airport Center, Inc.		Oakland	CA
Ms.	Deborah	Muse	Oakland Community Development		Oakland [*]	CA
J		:	District, Central East Oakland			
Ms.	Gladys	Green	Oakland Community Development		Oakland	CA
			District, Elmhurst			
	Chris	Pattillo	Oakland Design Advocates		Oakland	CA
Mr.	Ken	Ryan	Oakland Design Advocates		Oakland	CA
1			Oakland Heritage Alliance		Oakland	CA
Mr.	David	MacDonald	Oakland Waste Management		Oakland	CA
Ms.	Leola	Теггу	Organized People of Elmhurst		Oakland	CA
	<u>.</u>		Neighborhood Association			



	Title	First	Last	Organization	Branch	City	State
Mr.		Michael	Schonherr	Pacific Gas & Electric		San Francisco	CA .
Ms.	-	Jane	Yura	Pacific Gas & Electric		Oakland	CA
Mr.		Donald R.	Binggeli	Parkside Estates Improvement Association		Oakland	CA
Mr.		Owen	Byrd	People for Open Space-Greenbelt Alliance		San Francisco	CA
Mr.		Mike	Boyle	Redwood Creek Village Neighborhood Association		Oakland	CA
Ms.		Mary M.	O'Toole	Redwood Heights Improvement Association		Oakland.	CA
Мг.		Patrick	Nunar	Redwood Hills Homeowners Association		Oakland	CA
Ms.	-	Pat	Marsh	Ridgemont at Skyline Condominiums		Oakland	CA
Mr.		Larry	Robbin	Robbin & Associates		Oakland	C4
Ms.		Helen	Lore	Sequoyah Highlands		Oakland	CA
Ms.		Sandra	Marburg	Sequoyah Highlands		Oakland	CA CA
Mr.		Rodger	Shepherd	Sequoyah Highlands		Oakland	CA
Mr.		Iames H.	Haskins	Sequoyan Hills Homeowners		Oakland Oakland	CA
IVII.		James 1 F	riamin	Association		Oakiand	CA
Ms.	-	Barbara	Bray	Sequoyah Hills/Oak Knoll Association		Oakland	CA
	-			Sierra Club	San Francisco Bay Chapter	Oakland	CA
				Social Economic Environmental Justice Advocates	Chapter	San Francisco	CA
Mr.		Oscar	Montgomery	Stonehurst Homeowners and Renters Association		Oakland	CA
Ms.		Therea	Hughes	Theresa Hughes & Associates		Oakland	CA
	nair, Housing	Joseph	Newman	Toler Heights		Oakland	CA
& Ho		Joseph				Outballo	
Ms.		Eunice	Robinson	Toler Heights Citizens Council		Oakland	CA
Ms.		Carol	Watson	United Way		Oakland	CA
Ms.		Jacquee	Castain	Webster Tract Neighbors		Oakland	CA
				Individuals			
Mr.		Walter	Allen			Oakland	CA
Mr.		Paul	Allegro			Oakland	CA
Ms.		Thordie	Ashley			Oakland *	CA
Mr.		Paul	Aubery			Oakland	CA
1		Lisa & Mike	Baeta			Oakland	CA
Ms.		Arlene	Bautista			Oakland	CA
h.a.			_				~ .
Ms.		Mary	Bergman			Oakland	CA
		Mary Ken	Bergman Berick			San Leandro	CA
Mr.		•					
Mr.		Ken Sandi Joann & Paul	Berick			San Leandro Oakland Oakland	CA
Ms. Mr. Ms.		Ken Sandi	Berick Bethune			San Leandro Oakland	CA ·CA
Mr. Ms.		Ken Sandi Joann & Paul Marilyn &	Berick Bethune Bierman			San Leandro Oakland Oakland	CA CA
Mr. Ms. Ms.		Ken Sandi Joann & Paul Marilyn & Arden	Berick Bethune Bierman Bishop			San Leandro Oakland Oakland Oakland	CA CA CA
Mr. Ms. Ms. Mr. Ms.		Ken Sandi Joann & Paul Marilyn & Arden Roberta	Berick Bethune Bierman Bishop Bodine			San Leandro Oakland Oakland Oakland Oakland Oakland Oakland Oakland	CA CA CA CA
Mr. Ms. Ms. Mr. Ms. Mr.		Ken Sandi Joann & Paul Marilyn & Arden Roberta Nat Mary Mark	Berick Bethune Bierman Bishop Bodine Bornor Borrelli Braly			San Leandro Oakland Oakland Oakland Oakland Oakland Oakland Oakland Sacramento	CA CA CA CA CA CA
Mr. Ms. Ms. Mr. Ms. Mr.		Ken Sandi Joann & Paul Marilyn & Arden Roberta Nat Mary Mark Valerie	Berick Bethune Bierman Bishop Bodine Bornor Borrelli Braly Brice			San Leandro Oakland Oakland Oakland Oakland Oakland Oakland Oakland Oakland Oakland Sacramento Oakland	CA CA CA CA CA CA CA
Mr. Ms. Ms. Mr. Ms. Mr.		Ken Sandi Joann & Paul Marilyn & Arden Roberta Nat Mary Mark	Berick Bethune Bierman Bishop Bodine Bornor Borrelli Braly			San Leandro Oakland Oakland Oakland Oakland Oakland Oakland Oakland Sacramento	CA CA CA CA CA CA
Mr. Ms. Ms. Mr. Ms. Mr.		Ken Sandi Joann & Paul Marilyn & Arden Roberta Nat Mary Mark Valerie Amelie &	Berick Bethune Bierman Bishop Bodine Bornor Borrelli Braly Brice			San Leandro Oakland Oakland Oakland Oakland Oakland Oakland Oakland Oakland Oakland Sacramento Oakland	CA CA CA CA CA CA CA
Mr. Ms. Ms. Mr. Ms. Mr.		Ken Sandi Joann & Paul Marilyn & Arden Roberta Nat Mary Mark Valerie Amelie & Cordell Richard &	Berick Bethune Bierman Bishop Bodine Bornor Borrelli Braly Brice Brown			San Leandro Oakland Oakland Oakland Oakland Oakland Oakland Oakland Oakland Sacramento Oakland Oakland	CA CA CA CA CA CA CA CA
Mr. Ms. Mr. Ms. Mr. Ms.		Ken Sandi Joann & Paul Marilyn & Arden Roberta Nat Mary Mark Valerie Amelie & Cordell Richard & Gertrude Ron	Berick Bethune Bierman Bishop Bodine Bornor Borrelli Braly Brice Brown			San Leandro Oakland Oakland Oakland Oakland Oakland Oakland Oakland Sacramento Oakland Oakland	CA CA CA CA CA CA CA CA
Mr. Ms. Mr. Ms. Mr. Ms. Mr.	person	Ken Sandi Joann & Paul Marilyn & Arden Roberta Nat Mary Mark Valerie Amelie & Cordell Richard & Gertrude	Berick Bethune Bierman Bishop Bodine Bornor Borrelli Braly Brice Brown Brown	Muwekma Indian Tribe		San Leandro Oakland Oakland Oakland Oakland Oakland Oakland Sacramento Oakland Oakland Oakland	CA CA CA CA CA CA CA CA
Mr. Ms. Mr. Ms. Mr. Ms. Mr.	person	Ken Sandi Joann & Paul Marilyn & Arden Roberta Nat Mary Mark Valerie Amelie & Cordell Richard & Gertrude Ron Tony	Berick Bethune Bierman Bishop Bodine Bornor Borrelli Braly Brice Brown Brown Cabrera Cambra	Muwekma Indian Tribe		San Leandro Oakland Oakland Oakland Oakland Oakland Oakland Sacramento Oakland Oakland Oakland Oakland	CA CA CA CA CA CA CA CA CA CA
Mr. Ms. Mr. Ms. Mr. Ms. Mr. Chair	person	Ken Sandi Joann & Paul Marilyn & Arden Roberta Nat Mary Mark Valerie Amelie & Cordell Richard & Gertrude Ron Tony Rosemary	Berick Bethune Bierman Bishop Bodine Bornor Borrelli Braly Brice Brown Brown Brown Cabrera	Muwekma Indian Tribe		San Leandro Oakland Oakland Oakland Oakland Oakland Oakland Sacramento Oakland Oakland Oakland Oakland	CA CA CA CA CA CA CA CA CA CA



	Title	First	Last	Organization	Br	anch		City	State
Mr.		Peter	Cheng				V 4	San Francisco	CA
Ms.		Pamela	Clark	• • • •		-		Oakland	CA
Ms.		Colleen F.	Clay	•				Oakland	CA
Ms.		Shirley	Coaston					Oakland	CA
1413.		Lester and	Cobb					Oakland	CA
[Connie						Camand	CIL
J.,	·	Glen	Coddington					Oakland	CA
Mr.			Coffee	i i					CA
Ms.		Diane						Oakland	CA
ľ		Zommei	Collins					Oakland	CA
Ms.		Rosselyn	Combs					Oakland	CA
Mr.		Noel	Cook	•				Oakland	CA
Mr.		Stephen	Cowan	•				Oakland	CA
Ms.		Mary	Crawford	•				Oakland	CA
Ms.		Valerie	Crawford					Oakland	CA
		Barbara &	Cross					Oakland	CA
H		Kermit							
Ms.		Lorna	Dare					Oakland	CA
		John John	Davis .	*			-	Oakland	CA
Mr.				•				Oakland	
Ms.		Elaine	De Coligny						CA
1		Myrkle -	Deaton	•.				Oakland	CA
Mr.		Bill	Dehn					Oakland	CA
ll .		C.E.	Dickie					Oakland	CA
Ms.		Sylvena Hoff	Dornet					Oakland	`CA
		L.E.	Douchard					Oakland	CA
Ms.		Susan	Duncan					Oakland	CA
1		Onnil	Durst			•		Berkeley	CA
Ms.		Susan	Feller	•				Oakland	CA
Ms.		Sheila	Findley					Oakland	CA
1412.		Meilian	Flannagan					Oakland	CA
l.									
Ms.		Stephanie	Fleming					Oakland	CA
Mr.		Ross	Flewelling					Oakland	CA
Mr.		Herb	Floriani				•	Oakland	CA
Ms.		Melanie	Fong	•				Oakland	CA
Mr.		Jeff	Franha	·				Oakland	CA
Ms.		Evelyn	Franke	•				Oakland	CA
Mr.		Melvin	Gage		-			Oakland	CA
ľ		David & Jean	Galant					Oakland	CA
		Pat	Gallagher					Oakland	CA
Ms.		Barbara	Geiy				,	Oakland *	CA
Mr.		Iohn	Gezelle					Oakland	CA .
		Michael						Castro Valley	CA
Mr.			Giampaeli						
Ms.		Margaret	Glyer	·				Oakland	CA
ľ		Gerald &	Green				•	Oakland	CA
		Monica							
Mr.		Cecil	Grimes					Oakland .	CA
Mr.		Sylvester	Grisby					Oakland	CA
1		Thelma & Rob	Groeschel					Oakland	CA
Mr.		Elmer	Haberman					San Lorenzo	CA
1		Joe & Laurie	Hadley	•		:		Oakland	CA
Mr.		Louis	Hal			_		Oakland	CA
Mr.			Hamphill			-		Oakland	CA
IVIT.		Henry		•				Oakland	CA
l.,		A.M.	Hardenstine						
Ms.		Mable	Henderson					Oakland	CA
Mr.		Larry	Hill					Oakland	CA
Mr.		Sylvester	Hodges					Óakland	CA
Ms.		Gaile	Hofmann					Oakland	CA
Ms.		Phyllis	Holmlund					Oakland ·	CA
Ms.		Hazel	Houston					Oakland	CA
Ms.		Магу	Hunt			-		Oakland	CA
Ms.		Celeste	Hunter					Oakland	CA
									CA
Ms.		Doris	Huntting					Oakland	
Ms.		Lynne	Huntting					Oakland	CA
ı ı		Noel	Hyde					Oakland	CA



Title	First	Last	Organization	Branch	City	State
Ms.	Claudette	Inge			Hayward	CA
Ms.	Erika	Jenks			Oakland	CA
Mr.	Howard	Jeter			Berkeley	CA
,	Alva	Johnson	, .	•	Oakland	CA
Mr.	Marc	Johnson			Carmel Valley	CA.
Mr.	Tom	Johnson	•		Oakland	CA
Ms.	Ann	Jones	•		Oakland	CA
Mr.	Marvin	Jones	•		Oakland	CA
Ms.		Kahn			Oakland	CA
Ms.	,	Kasal			Oakland	CA
Mr.	Paul	Keener		• ,	Oakland	CA
Ms.		Kehl			Byron	CA
Ms.		King		•	Oakland	CA
Ms.	Kathleen	Kirkwood			Oakland	CA
Ms.		Lahn		***	Oakland	CA
Co-Chair	Jim	Lamenti	• •		Concord	CA
Ms.		Lawrence		. :	Oakland	CA
		Leath			Oakland	CA
	Betty		•			
Mrs.		Lemus			Oakland	CA
	Bill & Naomi	Lentz			Oakland	CA
Mr.	Nolan	Lew			San Francisco	CA
Ms.		Litherland			Oakland ·	CA
	Clark &	Lowe			Oakland	CA
	Marguerite		·		•	
Mr.	Barry	Luboviski			Oakland	CA
Ms.	Joyce	Mack			Oakland	CA
Mr.	Ricky	Maeren-			Oakland	CA
		Beweden				
		March			Oakland	CA
Ms.	Andree	Marechal-			Oakland	CA
		Workman	•			
[Lucelle & Chris		•		Oakland	CA
Mŗ.	Freddie	Martin Jr.			Oakland	CA
Mr.	Frank	Matoces			Oakland	CA
		McCarty			Oakland	CA
Ms.	Heather	McCulloch	•		Oakland	CA
Mr.	Alex	McElree			Oakland	CA
Mr.	William	McFerren			Oakland 1	CA
Ms.	Alda	McNichol			San Lorenzo	CA
Ms.	Clara	Mechan			Oakland	CA
	Dorothy &	Meis sner			Oakland	CA
	Richard					_
Mr.		Merideth	•		San Francisco	CA
Mr.		Metz	•		Castro Valley	CA
Ms.		Monwell		•	Oakland	CA
Mr.	• .	Moran	• .		Oakland	CA
Ms.	•	Murphy			Oakland	CA
.	Uhib	Nanlohy	·		Oakland	CA
Ms.	Deborah	Neal			Oakland	CA
Ms.	Margaret	Nelson			Oakland	CA
Mr.	Richard	Neveln	•		Oakland	CA
Mr.	Jack	Nicholson			Oakland	CA
Mr.		Nisby			Lodi	CA
Mr.	Francois	Njike			Oakland	CA
Ms.	Gloria	Oliver	•		Oakland	CA
ļ.,	,	Olofson			Oakland	CA
Mr.	Peter	Palm			Oakland	CA
Mr.	Ken	Pementell			Oakland	CA
Ms.		Perkins			Oakland	CA
Mr.		Peterson			Orinda	CA
ľ	Preston & Freda				Oakland	CA
ll .	Leo & Helen	Quakenbush			Oakland	CA

Title	First	Last	Organization	Branch	City	State
Mr.	Herb	Queller		-	Oakland	CA
Mrs.	Eugene	Rainbow		•	Sunnyvale	CA
Mr.	Ron	Ratto			Oakland	· CA
Ms.	Diana	Raulsten	·		Oakland	ĊA
Mr.	Robert	Reese			Oakland	CA
Mr.	Dan	Richardson	•		Castro Valley	CA
Ms.	Kerry Jo	Ricketts	-		Oakland	CA
Ms.	Lucille	Robbins			Hayward	CA
ll -	Sharon	Robinson			Oakland	
Ms.	Rita	Robrich				CA
Ms.					Oakland	CA
Ms.	Lydia	Rocha	•		Oakland	CA
Ms.	Ella Mae	Rodriguez			Seaside	CA
Mr.	Eddie N.	Rogers			San Francisco	CA
1	Inman	Rouice			Oakland	CA
Ms.	Betty	Roure		1, 22,	Oakland	CA
Mr.	Bill	Russell	•	•	Oakland .	CA
Mr.	Johnathan	Sachs			Oakland	CA
Mr.	Lars	Sandstrom			Oakland	CA
Chairperson	Ann Marie	Sayer	Indian Canyon Mutsun Band of		Hollister	CA
Champonson	-	,	Costanoan		1101110001	
Ms.	Christa	Schreiber			Oakland	CA
	E.	Seaman		•	Oakland	CA
Ms.	Kristina	Seher			Berkeley	. CA
Mr.	Alan	Sherman		•	San Leandro	CA
Ms.	Dorothy	Shogren	•		Oakland	CA
IVIS.	Arletta and	Smith			Oakland	CA
		Smith			Оакіапа	CA
L .	Charles	0 11				٠.
Ms.	Lee Ann	Smith			Oakland	CA
Mr.	Lincoln	Smith			Oakland	CA
Mr.	Steve	Stallone			Oakland	CA
Mr.	John	Steinfirst			Oakland	CA
Mr.	Patrick	Stoute	•		Oakland	CA
Mr.	Ralph	Tate			Oakland	CA
Ms.	Gloria	Taylor	· ·		Oakland	CA
Ms.	Leon	Taylor			Oakland	CA
	M	Taylor	•		Oakland	CA
Mr.	James V.	Thomas		•	Oakland	CA
Ms.	Judith	Thomas			Oakland	CA
Mr.	Hadwick & Lily		•			CA
N .			e e	•		
Ms.	Eleis	Thornton			Oakland	CA
Mr.	Robert L.	Toney			Oakland	CA
Ms.	Audrey	Tolbert			Oakland	CA
Mr.	Michael	Torrey		•	Alameda	CA
	Louise & Joseph	Troulx			Oakland	CA
Mr.	Thomas R.	Tryon	•		Oakland	CA
Mr.	Clark	Tucker	•	•	Oakland	CA
Ms.	Yvonne	van Leeuwen	•		Oakland	CA
Ms.	Vicki	Vrankovich			Oakland	CA
·	Scott & Barbara				Oakland	CA
Мг.	Dan	Walker			Oakland	CA
	Raber	Wharton	•	-	Oakland	CA
Mr.	Martin	White			Oakland	CA
II .			· .			
Mr.	Josef	Williams			Oakland	CA
Mr.	John .	Willis			Oakland	CA
Mr.	Charles	Wilson			Oakland	CA
Mr.	Henry	Winston			Oakland	CA
ł	Loren	Worm			Oakland ·	CA
Ms	Jill	Wyuns	•	*	Hayward	CA
Ms.	Carolyn	Younger			Oakland	CA

	Title	First	Last	Organization	Branch	City	State
\vdash				Libraries			,
Mr.		Fred	Schmidt	Colorado State University		Fort Collins	CO
				Oakland Public Library	Eastmont Branch	Oakland	CA
JJ				Oakland Public Library	Main Library	Oakland	CA
l l				Oakland Public Library	Montelair Branch	Oakland	CA
ŀ				San Leandro Main Library		San Leandro	CA
				Newspapers			
				KTVU Television		Oakland	CA
l				Oakland Tribune	City Desk	Oakland	CA
J.			• •	San Francisco Chronicle	News Room	San Francisco	CA
				The Montclarion	News Room	Oakland	CA
1				Oak Knoll Newsletter Hotline			

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COMMENTS AND RESPONSES

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RESPONSE TO COMMENTS C	M THE DOAD	FENDUDON			
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RECIRCULATION OF SIGNIF	ICANT INFOR	MATION FO	R FINE DAD	TICITIACI	169
MATTER (PM ₁₀)			KINCIAN	MULATE	
RESPONSE TO COMMENTS C	N CALIFORN	A ENVIRON	MENTAL OI	IALITY ACT	182
RECIRCULATION OF SIGNIF	ICANT INFOR	MATION FO	R FINE PAR	TICULATE MA	TTÉR
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RESPONSE TO COMMENTS ON THE DRAFT ENVIRONMENTAL IMPACT STATEMENT/ENVIRONMENTAL IMPACT REPORT FOR THE DISPOSAL AND REUSE OF NAVAL MEDICAL CENTER OAKLAND

Response to Comments on the Draft Environmental Impact Statement/Environmental Impact Report

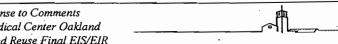
The Draft Environmental Impact Statement/Environmental Impact Report (EIS/EIR) for the Disposal and Reuse of Naval Medical Center Oakland was circulated for public and agency review from October 11, 1996, to November 27, 1996. The lead agencies, the US Department of the Navy and the City of Oakland, held a public hearing on November 13, 1996, to provide the public with an opportunity to comment on the content and accuracy of the Draft EIS/EIR. In addition, written comments were accepted throughout the review period.

In accordance with National Environmental Policy Act (NEPA) regulations and guidelines for the California Environmental Quality Act (CEQA), the Final EIS/EIR will provide responses to comments on the Draft EIS/EIR (40 CFR 1503.4; CEQA Guidelines § 15132). In compliance with those regulations and guidelines, this section of the Final EIS/EIR includes a list of agencies, organizations, and individuals commenting on the Draft EIS/EIR, comment letters, and responses to the substantive environmental issues raised in the comments. Responses to comments raised at the public hearing also are included. If a comment did not relate to an environmental issue or was worded more as a statement to be entered into the record, it was indicated by the response "comment noted."

Although more detailed quantitative analysis was performed in response to comments regarding potential transit and congestion management and secondary noise and air quality considerations, except for the PM10 analysis, no new significant and not mitigable impacts were identified, nor was there an increase in the severity of previously identified impacts. In short, the more detailed quantitative analysis confirms the analysis and conclusions in the Draft EIS/EIR; the Draft EIS/EIR is not required to be recirculated except for the PM₁₀ analysis which required recirculation under CEQA only.

Response to Comments on California Environmental Quality Act Recirculation of New Significant Information Regarding Fine Particulate Matter (PM₁₀)

A response to comments on the recirculation under the California Environmental Quality Act of new information regarding fine particle emissions (PM10) prior to distribution of the Final EIS/EIR is given at the end of this section. The recirculation letter and attachment is provided before the response to comments on the recirculation.



Response to Comments on California Environmental Quality Act Recirculation of New Significant Information Regarding Fine Particulate Matter (PM₁₀) and Ozone Precursors

A response to comments on the recirculation under the California Environmental Quality Act of new information regarding fine particle emissions (PM₁₀) and ozone precursors prior to distribution of the Final EIS/EIR is given at the end of this section. The recirculation letter and attachment is provided before the response to comments on the recirculation.



Response to Comments on Draft Environmental Impact Statement/Environmental Impact Report

	Letter Reference	Commentor	Page Number
Federal Agencies	A	US Department of the Interior, Office of Environmental Policy and Compliance	1
. •	В	US Environmental Protection Agency	2
	C	US Fish and Wildlife Service	13.
			• •
State/Local Agencies	D	AC Transit	· 14
	E	Alameda County Congestion Management Agency	31
	F	Bay Area Air Quality Management District	39
	G	East Bay Municipal Utility District	43
•	H I	Oakland Unified School District	51
	I	Oakland Unified School District (script for 11/13/96 public hearing)	60
Organizations	J	Golden Gate Audubon Society	67
- 8	K	Oak Knoll Neighbors	68
Individuals	L	Valerie Brice	95
	M	Laurie Dreyer	96
	N	Gaile Hofmann	99
	. 0	Kenneth C. Pementell	103
Public Hearing	. Р	Robert Dias	113
Transcript		Kenneth Pementell	121
		Laurie Dreyer	127
•		Louis Hal	137
•		Sandra Marburg	141
		Thordie Ashley	147
		William McFerren	151
		Hazel Houston	154 ·
		Russell Moran	156
		John Moran	159
		Ken Berrick	164
		Unknown speaker	165

Response to Comments on California Environmental Quality Act Recirculation of New Significant Information Regarding Fine Particulate Matter (PM₁₀)

	Letter Reference	Commentor	Page Number
Recirculation Letter Federal Agencies	AA	US Department of the Interior, Office of Environmental Policy and Compliance	169 176
State/Local Agencies	ВВ	State of California, Governor's Office of Planning and Research	177
Individuals	CC	Rosselyn F. Combs Mrs. Eugene Rainbow	179 181

Response to Comments on California Environmental Quality Act Recirculation of New Significant Information Regarding Fine Particulate Matter (PM₁₀) and Ozone Precursors

	Letter Reference	Commentor	Page Number
State/Local Agencies	AAA	State of California, Governor's Office of Planning and Research	187
Individuals	BBB	Mrs. Eugene Rainbow	189



RESPONSE TO COMMENTS ON DRAFT ENVIRONMENTAL IMPACT STATEMENT/ ENVIRONMENTAL IMPACT REPORT This page intentionally left blank

Response to Comment A-1. Comment noted. Thank you.

Response to Comments

Letter A

United States Department of the Interior

OFFICE OF THE SECRETARY
Office of Endvolumental Policy and Compilance
600 Harrison Street, Suize 515
San Francisco, California 94107-1376

December 12, 1996

ER 96/690

U.S. Navy

900 Commodore Drive San Bruno, CA 94066-5006 Attn: Mr. Gary Munekawa, Code 1852GM Engineering Field Activity West

Dear Mr. Munekawa:

The Department of the Interior has reviewed the Draft Environmental Impact
Statement/Environmental Impact Report (DEIS/EIR) for the Disposal and Reuse of Naval
Medical Center, Oakland, Alameda County, California, and has no comments to offer. A-1

Thank you for the opportunity to comment on this document.

Sincerely,

Patricia Sanderson Port Regional Environmental Officer

cc: Director, OEPC (w/orig. incoming)
Regional Director, FWS, Portland

1

Letter B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IX

75 Hawthorne Street San Francisco, CA 94105-3901

Mr. Gary Munekawa (Code 1852.GM)
U.S. Navy
Engineering Fleid Activity West
900 Commodore Drive
San Bruno, California 94066-5006

Dear Mr. Munekawa:

The Environmental Protection Agency (EPA) has received the Draft Environmental Impact Statement/Environmental Impact Report (EIS/EIR) for the Disposal and Reuse of Naval Medical Center Oakland, Alameda County, California. Teview is based on the National Environmental Quality Act (NEA), and the Council on Environmental Quality (CEQ) NEPA Implementation Regulations (40 CFR Parts 1500-1508), and Section 309 of the Clean Air Act (CAA)

The EIS/EIR evaluates the proposed disposal of federal surplus property at the Naval Medical Center Oakland (NMCO) site and its subsequent reuse. Potential reuse impacts are projected to 2020.

2

under caretaker status. Remediation of mite hazardous materials and contamination is on-going and would be completed prior to site transfer. The 181 acre medical center mite is developed with approximately 90 structures, including a main hospital and 18 residential buildings. Situated on Sloping terrain, the NMCO site is bounded by Mountain Boulevard and Interstate Route 580 to the west, and by residential neighborhoods elsewhere.

Future site uses have been identified by the Oakland Base Reuse Authority (OBRA), which adopted a formal reuse plan in August 1996. The plan, designated the "Maximum Capacity Alternative" in the EIS/EIR, includes 250 units of single- and multi-family housing, 40 acres of commercial and corporate uses, and cultural and recreational uses. Other alternatives include a "Mixed Use Village Alternative," a Single Use Campus Alternative, a "Residential Alternative," and a "No Action Alternative."

Based upon our review, we have rated the Draft EIS/EIR EC-2, Environmental Concerns - Insufficient Information (see attached Summary of the EPA Rating System). This rating reflects our conclusion that the Draft EIS/EIR should provide additional information, including: further clarification between the NEPA and CEDA roles in the analysis; additional biological and water resources information; and, further refinement of some proposed mitigation measures. Our detailed comments are enclosed.

Response to Comments

Response to Comment B-1. Comment noted. Please see responses to comments B-3 through B-17 for a discussion clarifying NEPA and CEQA roles, additional biological and water resources information, and the refinement of some mitigation measures. Thank you.

Kesponse to Comments
Naval Medical Center Oakland
Disposal and Reuse Final EIS/EIA

B-1

US Environmental Protection Agency

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Response to Comment B-2. Comment noted. Two copies will be provided as

requested.

Integrated impact summary tables throughout the document. We appreciate the opportunity to comment on the proposed project and request that you provide this office (mail code E-3) with two copies of the Final EIS/FIR at the same time it is filed with our Mashington, D.C. office. If you have any questions or wish to discuss any aspect of our comments, please contact me at (415) 744-1584 or Jeff Philliber of my staff at (415) 744-1574.

.B-2

Sincerely,

David J. Farrel, Chief Federal Activities Offi

Navai Medical Center Oakland Disposal and Reuse Final EIS/EIR

3

DRAFT EIS/EIR, NMCO DISPOSAL AND REUSE, ALAMEDA COUNTY

MEPA

federal surplus property at the NMCO site, while the local CEGA project evaluated is the proposed reuse of the NMCO site." This implies a limit on the federal government's surpromental consequences responsibilities for the proposed action. NEPA stipulates that the EIS should include discussions of direct and indirect effects [40 CFR Part 1502.16 (a) and (b)]. "Indirect effects" are those "which are caused by the action and are later in time or farther removed in distance, but are still reasonably foreseeable. Indirect effects may include growth inducing effects and EIS/EIR reports that land use, population density or growth rate, and related sifects on air and water and other natural systems, including ecosystems." [40 CFR Part 1508.8 (b)] The Final IS/EIR should clarify the federal government's role and esponsibilities for reuse-related (indirect) effects under is the disposal of ther effects related to induced changes in the pattern

ВЭ

explanation as to why a no action alternative specific to the reuse action (i.e., one that assumes disposal and transfer but not substantial development) was not developed same for both disposal and reuse actions -- the alternative evaluates NMCO "in caretaker status, closed but remaining The Draft EIS/EIR No Action Alternative is ederal ownership." The Final RIS/RIR should include and analyzed Page 2-5: B-4 2.

Page 4-57: Refer to Biological Resources comment #4, below B-5 |3.

Refer to Public Services and Utilities comment Page 5-25: #2, below. .B-6 |4.

BIOLOGICAL RESOURCES

Pages 4-29, 4-30, 4-31, 4-34, 4-55: Refer to Public Services and Utilities comment #1, below. B-7 |1.

cted access buffer zone should be used Pages 4-56, 4-58, 4-59, 4-61: In order to mitigate potentially significant biological resource impacts to the site's riparian corridor, the Draft EIS/BIR declares that should extend similar protection ition and construction activities to protect the Rifle Range Creek r

B-8

US Environmental Protection Agency Letter B

Response to Comment B-3. The introduction to Chapter 4 of the EIS/EIR was related impacts. The following paragraph was inserted immediately preceding the revised to clarify the Navy's roles and responsibilities for addressing indirect reusefinal paragraph of the introduction to Chapter 4:

For purposes of the Navy's NEPA analysis, environmental impacts The Navy's role and responsibilities occur after it is transferred from federal ownership and in support of associated with implementation of the reuse alternatives are considered local reuse actions. Implementation of mitigation measures for reuse address reasonably foreseeable impacts. However, property reuse will not the a local responsibility and for disclosing indirect reuse-related environmental impacts, .s responsibility of the Navy. environmental impacts

The following text was inserted as the second Response to Comment B-4. paragraph of Section 2.3.6:

A No Action Alternative of Navy property disposal to the City of new owner would be responsible for separate alternative administratively from Navy caretaker status, the site would be in an equivalent status for CEQA purposes, and impacts would be the same Oakland or other entity with no subsequent community reuse would describing a No Action reuse was unnecessary. Although the project objective, costs, and jurisdictional responsibilities would differ the Navy No impacts as caretaker services. Therefore, same environmental Alternative except that the providing have the

EIS/EIR, MHCO DISPOSAL AND REUSE, ALAMEDA COUNTY, EPA COMMENTS, NAVY D CALIFORNIA, NOVEMBER

area permanently. Otherwise, post-construction activities and land use could result in significant, adverse effects to this resource

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Page 4-57: As mitigation to protect the site riparian corridor, the Draft EIS/EIR stipulates that a detailed habitat restoration plan be developed by the project applicant. The Final EIS/EIR should specify that a qualified biologist be retained by the applicant to devise such a plan. 'n

1B-9

only, removal of nonsensitive species of trees protacted under the City of Oakland Tree Ordinance would be considered a significant and mitigable impact." Although it is correct that CEQA (rather than NEPA) is the appropriate regulatory vehicle through which Oakland's Tree Ordinance should be observed in this analysis, NEPA nevertheless concerns itself with the environmental effects of any proposed tree removal associated with this project. This should be clarified in The Draft EIS/EIR reads that "for CEQA purposes the Final EIS/EIR. Page

₹B-10

protection of site wetlands, the Final E18/EIR should provide that the proposed 50-foot wide restricted corridor out-lying wetlands and upland drainage areas as necessary, to In order to offer more effective or Rifle Range Creek be expanded, protection of site wetlands, Pages 4-62 - 63: encompass any B-11 5.

5

WATER RESOURCES

in paved area on the site, but does not indicate what that area would be. The Draft EIS/EIR adds that this reduction would "probably help to reduce peak storm discharges to Rifle Range Creek." The Final EIS/EIR should include estimates for surface coverage to help decisionmakers assess Pages 4-66, 4-68, 4-70, 4-71: The Draft EIS/EIR reports in a net that the various alternatives would result this potentially beneficial impact H B-12

GEOLOGY AND SOILS

(under the various reuse alternatives) is considered a significant and mitigable impact." While we agree that such an impact is The Draft EIS/EIR reports Pages 4-74, 4-76, 4-77, 4-78: The Draft EIS/EIR report that "for purposes of CEQA only, inoreasing the number people and structures present on the NMCO (under the va H

B-13

as projected under the No Action Alternative.

Response to Comment B-5. Comment noted. Please see response to Comment B-

10, below.

Response to Comment B-6. Comment noted. Please see response to Comment B-

17, below.

Response to Comment B-7. Comment noted. Please see response to Comment B-

6, below.

Response to Comment B-8. The restricted access buffer zone is intended to be a of each "Mitigation 1" in Sections 4.6.3, 4.6.4, 4.6.5, and 4.6.6 was modified to plan implementation and incorporated into later specific plan development proposals. reuse protection through ď permanent zone

2 Establish a permanent 50-foot wide restricted access buffer zone protect the Rifle Range Creek corridor. Response to Comment B-9. Sections 4.6.3, 4.6.4, 4.6.5, and 4.6.6 of the BIS/EIR were revised to state that:

A qualified biologist shall develop a detailed habitat restoration plan for restoration activities in Rifle Range Creek, its tributaries, and the surrounding riparian corridor that includes ongoing maintenance of his buffer zone Response to Comment B-10. The Navy has no plans to remove trees under

Disposal and Reuse Final EIS/EIR Response to Comments
Naval Medical Center Oakland

A COMMENTS, NAVY DRAFT EIS/EIR, NMCO DISPOSAL AND REUSE, ALAMEDA COUNTY, MILTEORNIA, NOVEMBER 27, 1996

not specifically addressed under NEPA Guidelines, it should be noted in the Final EIS/EIR that NEPA is primarily concerned with public health and welfare, as well as environmental quality [40 CFR Part 1504.1 (b)]. We consider that public safety issues from development near earthquake faults is a NEPA issue in that context.

B-13

SOCIOSCONOMICS AND ENVIRONMENTAL JUSTICS

- 1. Page 4-11: In the significance criteria discussion for scalescoloud impacts, the Draft EIS/EIR reads that action-related "changes in population and housing are considered neither beneficial nor adverse impacts because these changes are the natural consequences of natural fluctuations in the employment level in the region; that is; people follow jobs. Therefore, jobs attract people to move into an area." The Final EIS/EIR should clarify this statement. First, designating these project-related changes as "natural" implies that they are not, in fact, project-related second; the statement appears not to differentiate between project-related and regionally-induced effects. Finally, the criterion does not acknowledge that changes in population and housing in a given area can-indeed result in beneficial or adverse impacts given that such changes would effects.
- $B-15 \mid 2$. Page 5-27: The Final EIS/EIR should define "stable community" as used in its environmental justice analysis.

PUBLIC BERVICES AND UTILITIES

- 1. Pages 4-29, 4-30, 4-31, 4-34: The Draft EIS/EIR should include discussion as to whether trees, brush and other foliage would be removed for fire-prevention reasons or ordinances. This concern is especially appropriate for this site, which is in the Oakland bills and which contains acres of woodlands, grassland, ribarian and scrub areas. If such fire-prevention removal would be necessary, it should be identified in both the public services and biological resources impact discussions.
- 2. Pages 4-125, 4-128, 4-130, 4-133, 5-25: In its public utilities analysis, the Draft EIS/EIR reports that impacts to the water distribution system under the various alternatives would be "nonsignificant." The analysis does not discuss the issue of potable water supply, however.

caretaker status. This is not significant for the purposes of NEPA because it addresses single trees not exceeding NEPA significance thresholds. Mitigation measures required under CEQA for any reasonably foreseeable tree removal would require permits for any trees to be removed during reuse. These requirements address tree removal concerns.

Response to Comment B-11. The following paragraph has been added to Section 4.6.8:

To the fullest extent legally required, the proposed 50-foot wide restricted access corridor for Rifle Range Creek may be expanded, as necessary, to account for the protection of wetlands and important upland drainage areas, as such areas may be affected by subsequent development proposals. Although no upland drainage areas have been identified, subsequent development proposals will need to address this issue if legally required to do so.

Absent identification of any wetlands or important upland drainage areas on-site, this response does not require additional expansion of the recommended 50-foot wide corridor. Future expansion needs will be addressed if such wetlands or areas become evident.

Response to Comment B-12. Actual paved surface area estimates are not available. The following text was added to Sections 4.7.3, 4.7.4, 4.7.5, and 4.7.6, as clarification regarding the effect of estimated paved surface area changes on peak storm discharges:

An accurate estimate of paved areas with each alternative is not

era compents, navy draft eis/eir, naco disposal and reuse, alameda county. California, november 27, 1996 This omission is more pronounced because the preceding public utilities issue, landfill capacity supply, is thoroughly discussed. The Final RIS/RIR should include water supply in its analysis of utilities and, more importantly, in its cumulative impacts analysis.

available, and is beyond the scope of this program level document. A net decrease in paved surface area is expected with alternatives that allow for increased open space. The difference in paved surface area under different alternatives is illustrated by Figures 2-5, 2-6, 2-7, and 2-8, showing proposed uses of the site. The increased unpaved surface area may increase storm water retention time on the site, thus potentially reducing peak flows downstream of the site. However, Alameda County runoff volume estimates indicated that the net effect would not be significant enough to increase capacities of additional downstream flood mitigation measures already planned by Alameda County (Saleh 1995). This is because the contribution to downstream flood flows from the watershed in which the NMCO site is located is relatively small compared to contributions of adjacent watersheds.

Response to Comment B-13. Seismic impacts were considered nonsignificant impacts under NEPA because no disposal activitles proposed in the reuse alternatives would change the potential for earthquakes at the NMCO site. The following text was added as an introduction to each of Sections 4.8.3, 4.8.4, 4.8.5, and 4.8.6, immediately following the heading titled "Public Exposure to Earthquakes":

Seismic impacts are public health and welfare concerns of NEPA [40 CFR Part 1504.1 (b)] and CEQA [Cal. Pub. Res. Code §§ 21000 et. seq; CEQA Guidelines Appx. I, III (b)]. Public safety issues are addressed in this impacts analysis as they separately relate to the Navy's NEPA disposal responsibilities and to the City of Oakland's

SUMMARY OF RATING DEFINITIONS AND FOLLOW-UP ACTION

invironmental Impact of the Action

LO Lack of Objections

The EPA review has not identified any potential environmental impacts requiring substantive changes to the proposal.

The review may have disclosed opportualities for application of mitigation measures that could be accomplished with no more than minor changes to the proposal.

EC-Environmental Concerns

The EPA review has identified environmental impacts that should be avoided in order to fully protect the environment. Corrective measures may require changes to the preferred alternative or application of mitigation measures that can reduce the environmental impact. EPA would like to work with the lead agency to reduce these impacts.

EO-Environmental Objections

The EPA review has identified significant environmental impacts that must be avoided in order to provide adequate protection for the environment. Convexive measures may require substantial changes to the preferred alternative or consideration of some other project alternative (including the no action alternative or a new alternative). EPA intends to work with the lead agency to reduce these impacts.

Environmentally Unsadsfactory

The EPA review has identified adverse environmental impacts that are of sufficient magnitude that they are unsatisficacity from the standpoliat of environmental quality, public health or welfare. EPA intends to work with the lead agency to reduce these impacts. If the potential unsatisficacity impacts are not corrected at the final EIS stage, this proposal will be recommend for referral to the Council on Environmental Quality (CEQ).

Adequacy of the Impact Statement

Category 1-Adequate

EPA believes the draft EIS adequately sets forth the environmental impact(s) of the preferred alternative and those of the alternatives reasonably available to the project or action. No further analysis or data collection is pecessary, but the reviewer may suggest the addition of clarifying language or information.

Category 2-Insufficient Information

The draft EIS does not coatals sufficient information for EPA to fully assess environmental impacts that should be avoided in order to fully potest the environment, or the EPA reviewer has lederified new reasonably available alternatives that are within the spectrum of alternatives analyzed in the draft EIS, which could reduce the environmental impacts of the station. The identified additional information, data, analyses, or discussion should be included in the final EIS.

Category 3-fnadequate

EPA does not believe that the draft EIS adequately assesses potentially significant environmental impacts of the action, or the EPA reviewer has identified new, reasonably available alternatives that a outside of the spectrum of alternatives analyzed in the draft EIS, which should be analyzed in order to reduce the potentially significant environmental impacts, and the identified additional information, data, analyzes, or discussions are of such a magnitude that they should have full public review at a draft stage. EPA does not believe that the draft EIS is adequate for the purposes of the NEPA andlor Scholand 307 review, and thus should be formally revised and made available for public comment in a supplemental or revised draft EIS. On the basis of the potential significant impacts involved, this proposal could be a condidate for referral to the CEQ.

Prom: EPA Manual 1640. Policy and Procedures for the Review of Federal Actions Impacting the Environment.

reuse development responsibilities.

Response to Comment B-14. The "natural" terminology was revised to clarify that such population fluctuations are in fact not project-related. In order to differentiate between project-related and regionally induced effects, the first paragraph of Section 4.2.1 was revised to state that:

Regional changes in population and housing are considered neither beneficial nor adverse impacts. These changes reflect the normal range of fluctuations in population and housing. Population and housing can change in response to several changes in the regional economy. For example, large scale residential projects can attract construction workers in a rapidly growing area, or the entry of a large firm into a city can attract workers at all levels of skill and education. Depending on these trends, both regionally and locally, people move to respond to job opportunities.

In order to explicitly relate the effects of population and housing changes to beneficial or adverse impacts, the second paragraph of Section 4.2.1 was revised to state that:

Population and housing in a given area can result in beneficial or adverse impacts to the extent that such changes would be expected to result in environmental and socioeconomic effects. However, increasing population in and of itself is not an environmental effect.

Response to Comment B-15. The reference to a stable community was unclear and was deleted.

Response to Comment B-16. Text was added at the end of public services and biological resources, Sections 4.3.7 and 4.6.7 (analyzing environmental impacts) stating the following:

Vegetation will be controlled during caretaker and reuse operations to the extent necessary as required by all applicable laws and regulations. These operations would include fire breaks and weed control. Response to Comment B-17. The following text was inserted in Chapter 3, Affected Environment, as Section 3.12.8:

3.12.8 Potable Water Supply

Historic consumptive water use at NMCO ranged from about 5 to 9 million gallons per month (Rogers 1997). Average annual consumptive water use was about 7.5 million gallons per month, or about 90 million gallons per year (Rogers 1997).

Section 3.12.8 from the Draft EIS/EIR now appears as Section 3.12.9 in the Final EIS/EIR, with no other changes.

The following text (indented) was added under the heading titled "Significant Impacts" in Chapter 4, Section 4.12.3

Impact I. Potable Water Supply. A significant and mitigable impact would result from an increased water supply demand of about 112 percent over the historic demand. The Maximum Capacity Alternative is estimated to increase population in the region of influence by 3,006,

which includes 1,565 residential users, and 1,441 commercial users (please see Table 4-5). Multiplying 1,565 residential users times an estimated 120 gallons per day per residential user (Department of Multiplying 1,441 commercial users times an estimated 70 Water Resources 1994a) equals 187, 800 gallons of residential use per gallons per day per commercial user (Department of Water Resources 994b) equals 100,870 gallons of commercial use per day. Adding hese estimated daily residential (187,800 gallons) and commercial 100,870 gallons) uses equals 288,670 gallons per day estimated water ase on-site. Multiplying this use rate times 365 days subtotals 105,364,550 gallons per year. Adding an estimated 85,490,000 gallons per year to irrigate the 83-acre golf course (based on an irrigation rate of 1.03 million gallons per acre per year) totals represents an increase of about 112 percent over the estimated historic 190,854,550 gallons per year estimated potable water demand. annual use of 90,000,000 gallons per year. Mitigation 1. The City of Oakland will expressly identify the water supplier(s) that will provide water service to the alternative (Cal. Pub. The City will ask those suppliers whether the water demand associated with the alternative has been included and assessed in the suppliers' urban water management plans, and will require such plans to be updated to account for estimated demand from this alternative. Government Code Sections 65352 and 65352.5 require cities to consult with water suppliers in connection with such proposed Res. Code Section 21151.9; Cal. Wat. Code Sections 10910-10915).

projects. Moreover, Government Code Section 65302, subdivision (d), requires cities to coordinate with such suppliers in preparing the That coordination is required to include the discussion and evaluation of any water supply and demand information described in Section 65352.5, if that information has been submitted by the water agency to the city. In addition to supplier identification and coordination, the following best management practices will be implemented by future site developers: conservation elements of their general plans.

- · Interior and exterior water audits and incentive programs for single family residential, multi-family residential, and commercial users;
- requirement of ultra low flush toilets in all new construction;
- distribution system water audits, leak detection and repair;
- · metering for all new connections and billing by volume of
- · large landscape water audits (golf course and recreational areas);
- landscape water conservation for new single family homes; and
- water waste prohibitions.

Implementation of these water conservation practices will be

Memorandum of Understanding Regarding Urban Water Conservation Supplier identification, coordination, and best management practices implementation would reduce water supply impacts to a less than significant level by ensuring that the water supply system will have consistent with the guidelines and schedules set forth in the in California (California Urban Water Conservation Council 1994). adequate capacity prior to development approval. Potable water supply impacts for all of the other reuse alternatives were percent, and 89 percent, respectively, of the estimated historic annual demand of and Residential Alternative, Options 1 and 2, represent 77 percent, 66 percent, 56 nonsignificant, as identified in Chapter 4, Sections 4.12.4, 4.12.5, and 4.12.6. Water usage by the Mixed Use Village Alternative, Single Use Campus Alternative, 90,000,000 gallons per year. These demand levels do not affect system capacity.



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Ecological Services
Sacramento Rield Office
3310 El Camino Avenue, Sulte 130
Sacramento, California 95821-6340

1-1-97-1-116

Leader, Base Conversion/Biology Section Naval Facilities Engineering Command West 900 Commodore Drive San Bruno, California 94066-5006 Department of the Navy Douglas Mr. Do Group

Request for Concurrence for the Proposed Disposal and Reuse of the Naval Medical Center California, 'MACO), 'Manda County, California, on the Alameda Whip Snake (Masticophis lateralis euryxanthus) Subject:

Dear Mr. Pomeroy

Fish and Wildlife Service (Service) has reviewed Volumes I and II of The Service concurs with your determination that the project is not to adversely affect the alameda whip snake, a species federally The U.S. Fish and Wildlife Service (Service) has reviewed Volumes I and the Draft Environmental Impact Statement/ Environmental Impact Report (DEIS/EN) for the proposed disposal and reuse of Naval Medical Center Cakland. The Service concurs with your determination that the project likely to adversely affect the alameda whip snake, a species federally. proposed as endangered

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No further action pursuant to the Endangered Species Act of 1973, as amended, is necessary, unless new information reveals effects of the proposed action may affect listed species in a manner or to an extent not considered, or a new species or critical habitat is designated that may be affected by the proposed action;

Please contact Meri Moore of my staff at (916) 979-2752, if you have questions regarding this response.

Sincerely,

9

ental Services, Sacramento, CA II, Yountville, CA SFO-Wetlands CDFG, Environments CDFG, Region III,

Response to Comments

relevant to proposed action effects on species or habitats has been revealed during Response to Comment C-1. Comment noted. Thank you. No new information preparation of these responses.

13

VIA FACSIMILE & U.S. MAIL

November 25, 1996

Attn: Mr. Gary J. Munekawa, Environmental Planning Branch Naval Facilities Engineering Command Engineering Field Activity West San Bruno, CA 94066-5006 900 Commodore Drive Commanding Officer

Draft Environmental Impact Statement/Environmental Impact Report for the Disposal and Reuse of Naval Medical Center Oakland SCH#95103035 ë

Dear Mr. Munekawa:

Navai Medical Center Oakland ("Project") are submitted by the Alameda-Contra Costa Transit District ("the District"). These comments are provided to inform the City of Statement Environmental Impact Report ("DEIR/EIS") for the Disposal and Reuse of Oakland and the Navy of the District's concerns about the adequacy of the DEIR/EIS with respect to its analysis of transit impacts. The District has three principal comments mpact Environmental Draft comments on the proposed at this stage of the proceedings: The following

- That the project selected should be designed to encourage non-auto dependent travel. <u>-</u>1
- That an analysis of impacts to transit be completed at this time. αi D-2
- That the final project fully mitigate for transit impacts. ന D-3

significant environmental impacts on traffic and circulation, as well as air quality. There will also be cumulative impacts to traffic circulation. It is undisputed that Alameda County is confronted by an increasingly critical traffic and circulation problem caused by increasing numbers of automobiles on the roads and highways. These increasing At the same time traditional funding sources for public mass transit have decreased. The only realistic solution is encouraging mass transit by the use of appropriate The draft EIS/EIR recognizes all of the four reuse alternatives will create potentially numbers of automobiles are also causing air quality problems that cannot be mitigated

D-4

.600 Franklin Street, Oakland, California 94612

AC Transit Letter D

Response to Comments

The preferred alternative (Maximum Capacity As stated in the NMCO Final Reuse Plan (OBRA 1996), one of the evaluation criteria for all proposed uses at the site was stated as follows: "Preference will be given to proposed uses which provide an acceptable transportation plan that limits adverse traffic impacts at the site and reduces reliance upon automobiles." Application of this criterion, among others, resulted in selecting the Maximum Capacity Alternative as the preferred alternative. The Maximum Capacity Alternative would contain loading areas, bus shelters, and benches for use by transit patrons, if AC Transit were to provide on-Alternative) was selected after considering a number of criteria, encouraging travel that does not depend on the automobile. Response to Comment D-1. site transit service.

A quantitative analysis of transit impacts was performed in response to this letter (containing Comments D-1 through D-24) from AC Transit. The criteria used for determining significance thresholds is described in response to Comment D-18 and is added to Section 4.9.1 of the EIS/EIR. Response to Comment D-2.

on three transit routes directly serving NMCO (Route 46 and 46A, Route 56 and Using data provided by AC Transit staff and procedures for analysis suggested by AC Transit staff, an analysis of AM and PM peak period ridership was performed 56A, and Route NV). This analysis has been inserted in the EIS/EIR in Sections 3.9.6 and 4.9.2. This analysis assumes that eight percent of the trips were on mass ransit. However, automobile use was not changed from the original five percent ransit usage. This is considered to be a conservative estimate, and the three percent lifference would not affect the level of significance of any of the impacts.

Disposal and Reuse Final EIS/EIR Naval Medical Center Oaklana

Commanding Officer

Re: Draft Environmental Impact Statement/Environmental Impact Report for the Disposal and Reuse of Naval Medical Center Oakland SCH#95103035 November 25, 1996

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Incentives and/or disincentives by Project applicants. Other major project applicants D-4 have worked with The District on creating mitigation measures to encourage mass transit use. This same approach should be recognized by the Navy and City of Oakland for this Project.

The draft to address EIS/EIR does not provide the analysis necessary to accomplish and mitigate the impacts of this project on the District. Specifically, the major defects in the DEIR/EIS discussion of transit can be summarized as follows:

The DEIR/EIS Identifies impacts to transit as "nonsignificant" for all Project alternatives. These conclusions are reached without analysis or quantification of the Project's impacts on demand for transit service, indeed, the impact statements for the four development alternatives are extremely vague and lack any supporting evidence or analysis:

"Some increase in demand for traitist services <u>could</u> result from this [Maximum Capacity] atternative. NMCO is currently served by AC Transit. Lines 56, 46, and NV, and the potential increase in demand should be met by these services. There would be a need to modify the bus routes associated with reconfiguration of the on-site roadway system. <u>This would require coordination with AC Transit but is not expected to require major changes in service. Transit impacts are not expected to be significant.</u>" DEIR/EIS at page 4-88. (emphasis added).

"As with the Maximum Capacity Alternative, a nonsignificant increase in demand for transit services on AC Transit Lines 56, 46, and NV <u>could</u> result from this [Mixed Use Village] alternative. There would be a need to modify the bus routes associated with reconfiguration of the on-site roadway system." DEIR/EIS at page 4-92. (emphasis added).

"As with the Maximum Capacity Atternative, a less than significant increase in demand for transit services on Alameda-Contra Costa Transit District (AC Transit) Lines 56, 46, and NV <u>could</u> result from this [Single Use Campus] alternative. There would be a need to modify the bus routes associated with reconfiguration of the on-site roadway system." DEIR/EIS at page 4-96. (emphasis added).

"A nonsignificant increase in demand for transit services on AC Transit Lines 56, 46, and NV <u>could</u> result from this [Residential] alternative, with

The following is inserted at the end of the transit service discussion in Section 4.9.2.

Analysis indicates that additional transit service would not need to be provided unless the load factor for any individual route exceeded 1.00 (i.e., demand exceeded the seat capacity). Therefore, none of the reuse alternatives would result in significant transit impacts.

Response to Comment D-3. No significant transit impacts would occur (please see response to Comment D-2), and therefore no transit mitigation would be required.

Response to Comment D-4. Traffic and circulation Impacts would be mitigated as described in the EIS/EIR, Sections 4.9 and 5.5. It is doubtful that the project would generate enough transit demand to justify extending transit service onto the site. Similar developments in the area have had transit service reductions due to the inability to support the service. If AC Transit extends transit service on-site, the project developer would work with AC Transit to provide practical transit amenities to encourage mass transit use and the incentives requested in the comment. No disincentives to other modes of transportation are substantiated by this analysis:

Response to Comment D-5. Please see response to Comments D-2 and D-4 and revised Sections 4.9 and 5.5, which provide an extensive quantitative analysis of transit demand and a determination that no cumulative transit impacts would result.

Response to Comments
Naval Medical Center Oakland
Dispasal and Reuse Final EIS/EIR

15

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Commanding Officer

Re: Draft Environmental Impact Statemen/VEnvironmental Impact Report for the Disposal and Reuse of Naval Medical Center Oakland SCH#95103035 November 25, 1996

Page 3

D-5

he need to modify the bus routes associated with the on site roadway system." DEIR/EIS at page 4-98 (emphasis added).

alone, and in combination with cumulative impacts, are omitted from circulation (e.g. the addition of traffic resulting in LOS E or F) would indirectly impact transit, but does not address all potentially significant transit due to increased demand for services that are at capacity, traffic Potentially significant impacts to transit as a result of the project discussion and analysis in the DEIR/EIS. Specifically, two of the Lines that serve the project are potentially aiready at or near capacity during the Moreover, the DEIR/EIS lacks any significance criteria The significance criteria for traffic and transit impacts. The project would have a potentially significant impact on delays and construction period service interruptions. directed at transit impacts. peak hours.

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No formal mitigation measures for transit-related impacts are listed in the DEIR/EIS. However, the impact statement does refer to the need to modify the bus routes associated with the on site roadway system. It is impossible to tell from the cursory discussion whether the modification of bus routes is a prerequisite to the DEIR/EIS's conclusion that impacts ransit will be nonsignificant

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D-7

16

development agreement for this alternative, it is assumed that the local ramps and intersections are not a certainty. For example, the DEIR/EIS states that '[i]n the event that the city chooses to enter into a signal installation costs" in the absence of a city policy regarding The DEIR/EIS fails to discuss the impacts of traffic delays on transit implementation of mitigation measures required to reduce potentially significant impacts as a result of increased traffic from the project on developer of the alternative will be responsible for a fair share of traffic responsibilities for traffic signal installations. DEIR/EIS at pages, 4-87, 4-

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The DEIR/EIS omits specific mitigation measures which could reduce or eliminate Project-related and cumulative transit and air quality impacts, including but not limited to impact fees, facility relocation measures, construction phasing plans. က်

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Response to Comment D-6. Section 4.9.1, first paragraph, has been modified to include the following significance thresholds:

factor greater than 1.00) or the project would add length to existing significant transit impact if addition of project transit demand would result in more anticipated passengers than available seats (i.e., a load reuse alternative would be considered to create A particular bus routes. No significant transit impacts were identified in the EIS/EIR because none of the This assessment has been quantified in and none of the project alternatives would generate new transit use beyond the response to Comment D-2. The existing transit routes serving the NMCO site have more than enough capacity to accommodate the minor increases in transit use that transit routes directly serving the NMCO site currently experience heavy demand, would result from any of the project alternatives. capacity of the existing transit system.

impacts to traffic and circulation may affect transit operations. However, the measures identified for mitigation of automobile traffic and circulation impacts in Sections 4.9.5, 4.9.6, 4.9.7, 4.9.8, 5.5.4, 5.5.5, 5.5.6, 5.5.7, and 5.5.8 also would mitigate traffic and circulation impacts for transit buses. Construction at the NMCO site would not create significant impacts for transit operations. None of the routes now serving NMCO pass through the NMCO site. During construction, no on-site bus service would be required. Construction at the access points to the NMCO site would not substantially reduce the accessibility of buses or transit flow along perimeter streets.

Disposal and Reuse Final EIS/EIA Response to Comments Naval Medical Center Oakland

Response to Comment D-7. No additional transit service would be required to serve the project. Routes 56 and 56A formerly served the NMCO hospital directly (Konvalinka 1997). The project site could be adequately served by the existing transit routes along Mountain Boulevard and Keller Avenue. Therefore, no additional transit service or modified routing would be required, and there would be no significant impacts to transit.

Response to Comment D-8. The mitigation measures described in the BIS/BIR would be paid for by the future owner. If the future owner enters into agreements with the project developer or others, the developer or others would be responsible for a fair share of the cost of mitigation.

Impacts to transit operations on City streets are addressed under the discussion of general traffic impacts in Section 4.9. The impacts to on-street transit operations would be the same as impacts for other traffic. All general traffic impacts would be mitigated to nonsignificant levels, as discussed in Sections 4.9 and 5.5 of the EIS/FIR.

Response to Comment D-9. No significant transit impacts would occur. A quantitative analysis of transit impacts was performed in response to Comment D-2. Using data provided by AC Transit staff and procedures for analysis suggested by staff, an analysis of AM and PM peak period ridership was performed on three transit routes directly serving NMCO (Route 46 and 46A, Route 56 and 56A, and Route NV). This analysis has been inserted in the EIS/EIR in Sections 3.9.6 and 4.9.2.

No significant transit impacts were identified because none of the transit routes

Response to Comments
Naval Medical Center Oakland
Isposal and Reuse Final EIS/EIR

directly serving the NMCO site currently experience heavy demand and none of the project alternatives would generate new transit use beyond the capacity of the existing transit system. The existing transit routes serving the NMCO site have more than enough capacity to accommodate the minor increases in transit use that would result from any of the project reuse alternatives. Impacts to traffic and circulation may affect transit operations. However, the measures identified for mitigation of automobile traffic and circulation impacts in Sections 4.9.5, 4.9.6, 4.9.7, 4.9.8, 5.5.4, 5.5.5, 5.5.6, 5.5.7, and 5.5.8 would also mitigate traffic and circulation impacts for transit buses.

Construction at the NMCO site would not create significant impacts for transit operations. None of the routes now serving NMCO pass through the NMCO site. During construction, no on-site bus service would be required. Construction at the access points to the NMCO site would not substantially reduce the accessibility of buses or transit flow along perimeter streets.

No additional transit service would be required to serve the project. Routes 56 and 56A formerly served the NMCO hospital directly (Konvalinka 1997). The project site could be adequately served by the existing transit routes along Mountain Boulevard and Keller Avenue. Therefore, no additional service or modified routing would be required, and there would be no significant impacts to transit. No transit mitigation measures would be required.

Response to Comments
Vaval Medicol Center Oakland
Sposal and Reuse Final EIS/EIR

Electronic Prints

Commanding Officer

Re: Draft Environmental Impact Statement/Environmental Impact Report for the Disposal and Reuse of Naval Medical Center Oakland SCH#95103035 November 25, 1996

Page 4

DEIR/EIS at page 3-91-92. Therefore, there is no foundation for a Finally, the DEIR/EIS description of the transit system setting is less than 1/2 page and provides no information about the current capacity of the lines serving the Project area or other operational details. meaningful analysis of Project-related or cumulative impacts on transit.

D-10

In submitting these comments, the District hopes that a revised DEIR/EIS will be based on significance criteria for transit impacts as well as a commitment to mitigate the District believes would reduce significant impacts to the District's service and operations. This list is intended as a basis for discussions with the City and the Navy prepared which contains an analysis of Project-related and cumulative impacts to transit impacts of the project on transit service. A list of mitigation measures is provided which to resolve District concerns prior to the final action on the Project. Our introductory comments are followed by detailed concerns on the adequacy of the DEIR/EIS.

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INTRODUCTORY COMMENTS

The DEIR/EIS analyzed five alternative reuse plans:

- the Maximum Capacity Alternative
 - the Mixed Use Village Alterative
 - Single Use Campus Atternative
 - Residential Alternative No Action Alternative

percent transit mode split (e.g. five percent of the trips were assumed to be using mass According to the DEIR/EIS, the trip generation rates were adjusted to account for a five transit, the remaining 95% of project trips are expected to be by automobile.) DEIR/EIS at page 4-84. This appears to be below the transit ndership in Oakland. There is no requirement of any of the Project alternatives that transit use should be encouraged by project design. D-12

traffic at between two and five project intersections. There is no discussion in the Specifically, the additional traffic on roadways and at intersections and ramps through which buses must travel would significantly increase the amount of time buses take to DEIR/EIS of the impacts to transit service that would result from these substantial Peak hour traffic for the four development alternatives would substantially increase increases in traffic and concomitant delays at intersections and freeway ramps. D-13

accompanying text and tables inserted into Sections 3.9.6 and 4.9.2. This ridership Response to Comment D-10. Please see response to Comment D-2 and inalysis adequately describes the transit system to support informed decisionnaking regarding impacts to transit service capabilities.

Response to Comment D-11. Please see response to Comment D-2. The ridership resulting in the conclusion that there are no significant transit impacts. . No and transit analyses represent substantial additional analysis in the BIS/BIR, commitments to mitigation are needed. Response to Comment D-12. The five percent transit ridership was taken from the Final Existing Conditions Report, Oak Knoll Naval Medical Center Reuse Plan (Theresa Hughes & Associates 1994). The Oakland Base Reuse Authority Final Reuse Plan for the Naval Medical Center, Oakland (OBRA 1996) provided a The eight percent figure was used in the quantitative analysis of transit impacts in evised eight percent transit ridership estimate, which was taken from census data. the response to Comment D-2.

Transit use would be encouraged by two means related to design, namely selecting ransit amenities (please see response to Comment D-1). Transit use will depend on an alternative that reduces reliance on automobiles and developing appropriate a combination of project-specific development timing and City of Oakland plans and policies, as implemented during reuse, including specific design standards at key access points, if transit service is extended.

Response to Comment D-13. Additional street system delay would be mitigated by the measures identified in Sections 4.9 and 5.5. These measures would mitigate

19

Commanding Officer

Re: Draff Environmental Impact Statement/Environmental Impact Report for the Disposal and Reuse of Navai Medical Center Oakland SCH#95103035

November 25, 1996

Jage 5

complete their routes, resulting in increases travel time, delay to passengers and increased costs to the District.

These impacts can be evaluated, but are not disclosed or evaluated in the DEIR/EIS. Depending on the amount of time which must be added to the District's bus Lines affected by the Project and cumulative traffic in the region, the increase may require that additional buses, or larger buses, be added to meet the same level of demand with the same headways. This would result in major cost increases to the District in order to maintain adequate service levels.

D-14

The failure of the DEIREIS to evaluate impacts to the District's service and operations constitutes a significant defect in the DEIREIS. The District believes the DEIREIS must be revised and recirculated to properly address this serious omission.

II. PROPOSED MITIGATION MEASURES FOR INCLUSION IN A REVISED DEIRIEIS

The District believes that identification of appropriate transit significance criteria and adequate analysis of impacts on the District's service and operations will support a conclusion that such impacts would be significant. A summary of likely significant impacts to transit and corresponding mitigation measures that collectively would discourage drive-alone commuters and improve transit service is identified below:

To Milipate Stanticant Traffic Delay Impacts on District Service and Operations: Payment of a transit Impact fee, a portion of which would be allocated to the District to compensate the District for increased costs associated with delays and other impacts related to increased congestion and construction period service disruptions. The fee shall be sufficient to pay for the addition of new buses to impacted Lines, relocation and/or establishment of new bus stops, relocated bus routes and other impacts to District services and operations.

D-13

To Mitigate Air Quality. Traffic Delays and Related Transit and other Impacts Associated with the Encouragement of Drive-Alone Commuters. Purchase by all new employers of bus passes for up to ten percent of employees as of occupancy of the on-site buildings. Employers shall offer bus passes to the first ten-percent of employees at no cost. The District shall cooperate with Employers in providing promotional materials for the bus pass program and shall participate in any transportation fairs.

potential on-street impacts to buses and automobiles.

Response to Comment D-14. No additional or larger buses would be required to meet estimated demand from any of the reuse alternatives (please see response to Comment D-2). No new impacts have been identified in these responses to comments. Recirculation of the EIS/EIR is not required.

Delays related to increased on-street traffic congestion would be mitigated by measures identified in ᆵ Construction at the access points to the NMCO site would not disrupt transit flow No new buses would be required to serve ridership the EIS/EIR. Construction at the NMCO site would not create significant impacts for transit operations. None of the routes now serving NMCO pass through the transit impact fee be required. Response to Comment D-15. None of the reuse alternatives would result During construction, no on-site bus service would significant impacts (please see response to Comment D-2). K estimated from our analysis of the reuse alternatives. assessment does not appear to be justified. along perimeter streets. NMCO site.

OBRA has implemented a program to develop reuse plans that reduce reliance on automobiles (please see response to Comment D-1). The developer will be required to meet and confer with AC Transit representatives in order to understand their service and operations. No special transit routing would be required during construction. AC Transit would be provided with the opportunity to review construction plans and would be encouraged to provide input on how transit service would be maintained or enhanced. Reestablishing routes through the project site would be welcomed and accommodated if AC Transit determines it is in its interest to extend those routes.

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Response to Comments Naval Medical Center Oakland Disposal and Reuse Final EIS/EIR

Commanding Officer

Re: Draff Environmental Impact Statement/Environmental Impact Report for the Disposal and Reuse of Naval Medical Center Oakland SCH#95103035 November 25, 1996

Page 6

in addition, the Project should include design and land use refinements that would encourage transit use. See AC Transit Board Policy No. 520, attached to this letter.

To Mitigate Construction Impacts to District Services and Operations: Prior to submitting requests to the City for approval of the construction phasing, the developer shall meet and confer with District representatives in order to understand District service and operations so that construction-related traffic routes and any new transit routes can take into account District service and operations to the maximum extent feasible. The final construction phasing plan submitted to the City shall reflect modifications necessary to reduce to the extent feasible any impacts to District service and operations.

II. THE DEIR/EIS FAILS TO ADEQUATELY ADDRESS IMPACTS TO THE DISTRICTS TRANSIT SERVICE AND OPERATIONS

The DEIR/EIS contains no analysis of the impacts of the Project on transit. Nor does the DEIR/EIS define a significance criteria for transit impacts. The DEIR/EIS discussions of transit are conclusory in nature and result in more questions than answers concerning potentially significant impacts to transit. A summary of the major inadequacies in the DEIR/EIS is set forth below:

A. The DEIR/EIS Fails to include Key Information Concerning the Project Setting

A DEIR "must include a description of the environment in the vicinity of the project, as it exists before the commencement of the project, from both a local and regional perspective." CEQA Guidelines section 15125. This requirement derives from the principle that "[k]nowledge of the regional setting is critical to the assessment of environmental impacts." Id. Lacking an adequate description of a project's environmental setting, it is "impossible for the [EIR] to accurately assess the impacts the project [would] have...or to determine appropriate mitgation measures for those impacts." San Joaquin Raptor, 27 Cal. App. 4th at 722 (quoting with approval argument made by the challengers of the EIR).

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The DEIR/EIS's entire discussion of the project's regional and local setting related to transit is approximately a half page long. DEIR/EIS at page 3-91 to 92. Information concerning existing District services and facilities, including bus stops, bus shelters, existing capacity of bus lines serving the area and the like, are

Response to Comment D-16. Routes 56, 46, and NV are discussed in the EIS/EIR, Section 3.9.6, Transit System. This discussion specifies the bus lines that stop at the NMCO site and supporting information regarding those times when service is provided to the site and connecting points. Section 3.9.6 also characterizes existing shelter conditions on the site as adequate for the level of service provided. Route 57 does not directly serve NMCO, passing no closer than three-quarters of a mile from the project site. It is not standard practice in an EIS/EIR to analyze impacts to transit routes located so far from a project site. The Affected Environment section of the EIS/EIR is supplemented by an evaluation of existing ridership and load factors for the bus routes directly serving the NMCO site (please see response to Comment D-2).

Response to Comments Naval Medical Center Oakland Disposal and Reuse Final EIS/EIR

Re: Draft Environmental Impact Statement/Environmental Impact Report for the Disposal and Reuse of Naval Medical Center Oakland SCH#95103035

Commanding Officer

bus Lines that could potentially be affected by the Project, the DEIR refers only to omits any reference to Line 57 which serves the MacArthur Corridor along with Moreover, in describing the Line 56 (which is described in the DEIR as serving the Project site) but entirely completely missing from the DEIR/EIS setting section. November 25, 1996

the potential to impact the entire Corridor. The setting area should be expanded include potential Project and cumulative impacts on the entire MacArthur

D-16

Line 56. If a bus Line is impacted by any project on the MacArthur Corridor, it has

These omissions render the DEIR/EIS In addition, critical information about existing load factors and foreseeable demand analyses are based on an incomplete, out-dated or inaccurate setting, the results of those analyses cannot be accurate. Further, failure to consider the Project's inadequate because without adequate setting information, the document cannot fully assess the environmental impacts associated with the Project. If Impact entire environmental setting leads to a lack of analysis of impacts in those omitted areas (e.g. bus line capacity, impact of traffic delays). on transit services is also omitted.

Significant Impacts to the District Are Not Adequately Analyzed or Disclosed

environmental effect. The Guidelines define the term "significant effect on the environment" as "a substantial, or potentially substantial, adverse change in any Guidelines section 15382, Pub. Resource Code, section 21068). In Judging the legal sufficiency of an EIR, the focus is on adequacy, completeness and a good Guidelines section 15151. A number of court decisions have developed criteria determination of significant (CEOA faith effort at full disclosure. The document should provide a sufficient degree of for determining what constitutes a "reasonable" effort to analyze a project's potential impacts. For example, Kings County Farm Bureau, 221 Cal. App.3d 692 emphasizes that an EIR must support with rigorous analysis and substantial of the physical conditions within the area affected by the project..." analysis to allow decision-makers to make intelligent judgments. evidence the conclusion that environmental impacts will be insignificant. Critical to the environmental analysis is the

D-17

the DEIR/EIS lacks support for its conclusions regarding the insignificance of transit impacts. In so doing, the DEIR/EIS violates CEQA's It must provide "facts and analysis" so that the public can understand and evaluate fundamental principal that even if an EIR concludes that an impact is insignificant, case,

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N. SERVICE

taff, an analysis of AM and PM peak period ridership was performed on three ransit routes directly serving NMCO (Route 46 and 46A, Route 56 and 56A, and Response to Comment D-17. No significant transit impacts would occur. A quantitative analysis of transit impacts was performed in response to Comment D-2. Using data provided by AC Transit staff and procedures for analysis suggested by This analysis has been inserted in the EIS/EIR in Sections 3.9.6 and Route NV).

directly serving the NMCO site currently experience heavy demand, and none of No significant transit impacts were identified because none of the transit routes he project alternatives would generate new transit use beyond the capacity of the The existing transit routes serving the NMCO site have nore than enough capacity to accommodate the minor increases in transit use that would result from any of the project reuse alternatives. Impacts to traffic and circulation may affect transit operations. However, the measures identified for mitigation of automobile traffic and circulation impacts in Sections 4,9.5, 4,9.6, 4.9.7, 4.9.8, 5.5.4, 5.5.5, 5.5.6, 5.5.7, and 5.5.8 also would mitigate traffic and circulation impacts for transit buses. existing transit system.

Construction at the NMCO site would not create significant impacts for transit operations. Lines 46 and 56 give direct service to the main entrance, but none of During construction, no on-site bus service would be required. Construction at the access points to the NMCO site would not substantially reduce the accessibility of buses or transit flow he other routes serving the area pass through the NMCO site. long perimeter streets.

No additional transit service would be required to serve the project. Routes 56 and

Disposal and Reuse Final EIS/EIR Naval Medical Center Oakland Response to Comments

Commanding Officer

Re: Draft Environmental impact StatemenvEnvironmental impact Report for the Disposal and Reuse of Naval Medical Center Oakland SCH#95103035 November 25, 1996

Specifically, the DEINZES found that transit impacts for all alternatives would be nonsignificant without providing any evidence or analysis to support those conclusions. 47 Laurel Heights Improvement Assn., conclusions.

Sourts have not hesitated to overturn certification of an EIR where the EIR presents unsupported conclusions regarding a project's impact on the environment. For example, in <u>Santiago County Water District v. County of Orange,</u> 118 Cal.App.3d 818, 831 (1981), the court found inadequate an EIR's unsupported conclusions regarding a ong-term impact to wildlife would result from a proposed mountain lion hunt, did not 1974)(cumulative impacts analysis of drilling project violated CEQA where analysis was 411 (1979), quoting, People v. County of Kern, 39 Cal. App.3d 830, 841-42 <u> California Fish & Game Commission,</u> 214 Cal. App. 3d 1043, 1051-52 (1989), the court neld that an EIR's mere reference to a population model predicting that no significant constitute an adequate impacts analysis because the document did not explain how it unsupported by empirical or experimental data, scientific authorities, or explanatory Similarly, in Mountain Lion Coalition v reached its conclusion. See also Whitman v. Board of Supervisors, 83 Cal. App.3d 397 mining project's impact on water service. information of any kind. . . . ").

D-17

Like the EIRs in the above-listed cases, the DEIR/EIS for this Project falls to provide facts or analysis to support its conclusions regarding transit impacts, and therefore falls the District's responsibility to undertake analysis of impacts to its services for a project to provide a realistic assessment of the various alternatives' impacts on transit. It is not proposed in Oakland.

The Impacts Analysis is Based on Faulty Significance Criteria

While the DEIR/EIS does include a significance criteria for transportation The DEIR/EIS fails to include any significance criteria for transit impacts. impacts, this criteria is not applied to transit. The significance criteria for traffic and circulation (e.g. the addition of traffic resulting in LOS E or F) significant transit impacts. Specifically, traffic delays would also adversely However, this criteria does not address other would indirectly impact transit, but does not address all potentially potentially significant impacts to transit including increased demand over existing capacity on bus lines serving the area, need for new or relocated ransit facilities, and the like. impact bus service.

D-18

site could be adequately served by the existing transit routes along Mountain 56A formerly served the NMCO hospital directly (Konvalinka 1997). The project Boulevard and Keller Avenue. Therefore, no additional service or modified routing would be required, and no significant impacts to transit would occur. No transit mitigation measures would be required. Response to Comment D-18. No specific significance criteria were identified for ransit impacts in the EIS/EIR. It was determined without quantitative analysis that project impacts to transit operations would not be significant. However, in response the comments from AC Transit, significance criteria for transit impacts were leveloped, and a quantitative analysis of impacts was conducted according to the criteria (please see response to Comment D-2). Section 4.9.1, first paragraph, has been modified to include the following significance thresholds:

significant transit impact if addition of project transit demand would factor greater than 1.00) or the project would add length to existing A particular reuse alternative would be considered to create a result in more anticipated passengers than available seats (i.e., a load bus routes. No additional significance criteria are necessary for assessing transit impacts. The effect of increased congestion along bus routes is addressed under the discussion of Construction on the project site and at project access points would not result in mpacts of proposed mitigation measures that would adversely affect AC Transit's raffic impacts, which addresses delays to all modes of motor vehicles. significant disruptions along existing transit routes. There would be no secondary responses to Comments D-2 and D-7 use the significance criteria ridership.

23

Commanding Officer

Re: Draff Environmental Impact Statement/Environmental Impact Report for the Disposal and Reuse of Naval Medical Center Oakland SCH#95103035 November 25, 1996

Novernoer 45, Page 9 A revised transit analysis should be completed based on the following significance criteria for transit impacts. Specifically, impacts to the District should be considered significant if any of the following standards are met:

If additional demand from a Project or the combination of the Project plus foreseeable demand from cumulative projects increases the peak period load factor on any bus Line serving the Project by increasing or results in excess demand over existing capacity on any Line serving the Project.

If additional traffic from the Project or the combination of Project traffic plus cumulative projects affects the on-time performance of affected bus Lines or increases dead-heading times (i.e. on time performance is "affected" when buses on a route are consistently delayed by four (4) minutes or more; or additional buses are required on any route to maintain on time performance; or larger buses are required on any route in order to maintain on-time performance. Dead-heading time is "affected" when there are increases of four (4) minutes or more.)

If Project construction or the combination of Project plus cumulative project construction phases affects the on-time performance of affected bus Lines or increases dead-heading times.

If there are secondary impacts of proposed mitigation measures which adversely affect the District's ridership (e.g. proposed traffic improvements, encouragement of drive-alone commuters, etc.).

 The DEIR should be revised to include impact analyses on transit based on these significance criteria.

 Ine DEIR/EIS Understates the Significance of Impacts to the District's Service and Operations The DEIR/EIS fails to describe the increase in peak period load factors on the bus Lines serving the Project site. Nor does the DEIR/EIS describe foreseeable increases in demand (by load factor increases) as a result of cumulative projects. An analysis of the Project, and Project plus cumulative projects, impact on peak period load factors must be completed. In the

isted above. There would be no significant transit impacts.

Response to Comment D-19. Peak load factors are addressed in Table 3-20 in Section 3.9.6 of the EIS/EIR. Detailed ridership counts were used to develop load factor increase estimates for Lines 46, 46A, 56, and 56A. These estimates are inserted as Tables 3-21, 4-17, and 4-18 in Sections 3.9.6 and 4.9.2 of the EIS/EIR. The analysis of cumulative impacts for the EIS/EIR considered the combined effects of the NMCO and the Leona Quarry projects. None of the transit routes directly serving the NMCO site would directly serve the Leona Quarry site; therefore, the trunsit impacts of these two projects would be independent, and there would be no cumulative transit impacts. Line 57 does not directly serve NMCO, passing no closer than three-quarters of a mile from the project site. It is not standard practice in an EIS/EIR to analyze impacts to transit routes located so far from a project site.

None of the reuse alternatives would result in significant impacts (please see response to Comment D-2). Delays related to increased on-street traffic congestion would be mitigated by measures identified in the EIS/EIR. Construction at the NMCO site would not create significant impacts for transit operations. None of the routes now serving NMCO pass through the NMCO site. During construction, no on-site bus service would be required. Construction at the access points to the NMCO site would not disrupt transit flow along perimeter streets. No new buses would be required to serve ridership estimated from our analysis of the reuse alternatives.

Response to Comments
Naval Medical Center Oakland
Disposal and Reuse Final EIS/EIR

D-19

D-18

Re: Draft Environmental Impact Statement/Environmental Impact Report for the Disposal and Reuse of Naval Medical Center Oakland SCH#95103035 November 25, 1996

Page 10

absence of this analysis, the DEIR/EIS cannot support the conclusion that there will be no significant impacts to transit service.

Currently, at least one of the bus Lines serving the Project (Line 56) is operating at or above the system average during the peak period. The DEIRCEIS should disclose the existing load factors for all Lines serving the Project site including Line 57. This analysis would involve obtaining detailed counts on all Lines serving the Project site. Based on detailed counts and estimates of Project and cumulative demand during the peak period, the analysis should state the increase in load factors on all Lines serving the site for both the Project alone and the Project plus cumulative conditions.

The DEIR/EIS reveals that the Project will result in substantial increases in traffic at between 2 and 5 intersections during the peak hour. Specifically, depending on the Project alternative selected, there would be significant impacts to traffic service levels in the area without mitigation. The DEIR/EIS must be revised to include an analysis of the impacts of the detentoration in intersection levels of service on the District's service.

The DEIR/EIS Fails to Adequately Describe or Analyze the Construction Period Impacts on Transit Service and Eaclitties

Impact statements in the DEIR/EIS acknowledge that the transit system will be impacted during Project construction:

"There would be a need to modify the bus routes associated with reconfiguration of the on-site roadway system. This would require coordination with AC Transit but is not expected to require major changes in service. Transit impacts are not expected to be significant." DEIR/EIS at page 4-88. (emphasis added).

D-20

The extent to which reconfiguration of the on-site roadway system will impact transit service and require new facilities to be constructed is not disclosed. Nor is any evidence provided to support the conclusion that such impacts to service and facilities will not be significant. Impacts not analyzed or disclosed include requiring bus routes to be modified and/or temporarily rerouted, delays and other impacts to service. These potential

Response to Comment D-20. No additional transit service would be required to serve reuse. Routes 56 and 56A formerly served the NMCO hospital directly (Konvalinka 1997), Reuse could be adequately served by the existing transit routes along Mountain Boulevard and Keller Avenue; therefore, no additional service or modified routing would be required, and there would be no significant impacts to transit. The lack of transit impacts was disclosed in the Draft EIS/EIR and has been supplemented by detailed supplemental quantitative analysis in the response to Comment D-2 and accompanying tables and text inserted into the EIS/EIR.

Response to Comments Naval Medical Center Oakland Disposal and Reuse Final EISEIR

25

D-19

Commanding Officer

Re: Draff Environmental Impact Statement/Environmental Impact Report for the Disposal and Reuse of Naval Medical Center Oakland SCH#95103035 November 25, 1998

Page 11

significant impacts must be disclosed and mitigation measures identified (including an impact fee to offset the cost of providing new facilities in the area, both on a temporary and long-tern basis). Impacts as a result of the construction period on bus service along the MacArthur Corridor should be disclosed.

D-20

The DEIN/EIS Fails to Analyze the Impacts of Proposed Mitigation Measures on District Service and Operations

The DEIR/EIS proposed a number of measures to mitigate for increased traffic as a result of the Project. Such measures include installation of traffic signals and restripling of lanes. These measures would directly affect streets currently used by bus Lines in the area. Yet, there is no discussion or analysis of how these changes to the street network could affect bus Lines and facilities.

D-21

C. The DEIR/EIS Fails to Quantify the Efficacy of Transportation Mitigation Measures and Omits Feesible Mitigation Measures

The DEIR/EIS concludes that potentially significant traffic impacts will be mitigated to a level of insignificance by proposed mitigation measures. However, there is no analysis that supports this conclusion in the DEIR/EIS.

In addition, the DEIR/EIS omits mitigation measures that could reduce significant project impacts. For example, a number of Alternatives will result in traffic-related ozone precursor emissions in excess of significance thresholds. DEIR/EIS at page 4-106. No mitigation is identified in the DEIR/EIS as explained at page 4-106:

D-22

"The ozone precursor emissions analysis for the Maximum Capacity Alternative already incorporates a general consideration of the number of trips that are reduced by transit use (5% of total trips) and by linked trips (5% of total trips)...Current state law effectively requires that trip reduction programs in the Bay Area be voluntary, rather than mandatory. Consequently, there are few mechanisms available to the City of Oakland to achieve significant additional reductions in projected emissions from vehicle traffic."

Response to Comment D-21. Installing traffic signals and restriping lanes would have no long-term impacts on traffic or transit operations. The mitigation measures would require only temporary traffic restrictions typically required for the safety of construction workers; they would not result in significant impacts. After implementation, the mitigation measures would fully mitigate the significant project traffic impacts. The mitigation measures would not improve traffic operations to the point where people would shift from transit to auto travel.

The traffic impacts analysis is quantified according analysis in Sections 4.9.5, 4.9.6, 4.9.7, 4.9.8, 4.9.9 and 5.5.4, 5.5.5, 5.5.6, 5.5.7, and Estimates of these levels account for time of day (e.g., morning and evening These thresholds are 5.5.8. Most thresholds are based on estimated impacts to levels of traffic service. commute, or "peak" hours), existing levels of service (usually expressed as some measure of delay), and other quantitative factors. Tables 4-17 and 4-18 summarize the quantitative difference between existing and projected traffic impacts for the No 3-20 in Section 3.9.6 of the EIS/EIR. Detailed ridership counts were used to estimates are inserted as Tables 3-21, 4-17, and 4-18 in Sections 3.9.6 and 4.9.2 of Action Alternative and reuse alternatives. Peak load factors are addressed in Table in subsequent 56, and 56A. develop load factor increase estimates for Lines 46, 46A, presented in Section 4.9.1 of the EIS/EIR and are used of Oakland, the City ķ thresholds set Response to Comment D-22. to significance the EIS/EIR. The preferred project alternative was selected after considering a number of criteria, including encouraging travel that does not depend on the automobile. As stated in the NMCO Final Reuse Plan (OBRA 1996), one of the evaluation criteria for all proposed uses at the site was stated as follows: "Preference will be given to

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Rosponse to Comments Naval Medical Center Oakland Disposal and Reuse Final EIS/EIR

Commanding Officer

Re: . Draft Environmental Impact Statemen/Environmental Impact Report for the Disposal and Reuse of Naval Medical Center Oakland SCH#95103035 November 25, 1996

Page 12

Specific measures do exist to encourage reductions in single-occupant vehicle use. Such measures must be identified in the DEIR/EIS including but not limited

- A transit impact fee
- New employee programs including requiring parking fees, reserved parking for car and van-pools, and the like. See AC Transit Board Policy No. 520, attached hereto.
 - fosters alternative transportation to the single-Project design which occupancy automobile.

These measures could be made a requirement of future development on the site.

A REVISED DEIR/EIS SHOULD BE COMPLETED AND RECIRCULATED ≥

substantial environmental impact resulting from the project. The discussions in the preceding sections provide just a sampling of the potentially significant impacts to transit Moreover, the DEIR/EIS is so fundamentally inadequate and conclusory in nature that public comment on the draft is of limited value. These facts make clear the need to CEQA requires preparation of a revised DEIREIS whenever an agency learns of a new are likely to arise from the project that were not disclosed in the DEIR/EIS. prepare and recirculate a revised draft EIR/EIS that analyzes the potentially significant

CONCLUSION

assumptions and methodology for a revised analysis of transit impacts and identification urge the City of Oakland and the Navy to consult with District Staff regarding the The District appreciates this opportunity to comment on the proposed DEIR/EIS. of appropriate mitigation measures to eliminate significant transit impacts

Sincerety,

General Counsel Kenneth C. Sch

KCS/af

Board of Directors Executive Staff ပ္ပ

proposed uses which provide an acceptable transportation plan that limits adverse traffic impacts at the site and reduces reliance upon automobiles." Application of Alternative as the preferred alternative. The Maximum Capacity Alternative would contain loading areas, bus shelters, and benches for use by transit patrons if AC the Maximum in selecting Transit were to provide on-site transit service. resulted others, among this criterion,

No new buses would be required to serve additional rider sharing generated by the reuse alternatives. Therefore, a transit impact fee assessment does not appear to be ustified. In accordance with state law, trip reduction programs, including ride sharing, are voluntary, and therefore cannot be required.

by AC A quantitative analysis of transit impacts was performed in response to Comment D-2 from AC Transit. It has been used in Transit staff and procedures for analysis suggested by staff, an analysis of AM and PM peak period ridership was performed on three transit routes directly serving NMCO (Route 46 and 46A, Route 56 and 56A, and Route NV). Peak load factors Lines 46, 46A, 56, and 56A. These estimates are inserted as Tables 3-21, 4-17, and for transit services are addressed in Table 3-20 in Section 3.9.6 of the EIS/EIR. Detailed ridership counts were used to develop load factor increase estimates Using data provided responding to most of Comments D-2 through D-24. 4-18 in Sections 3.9.6 and 4.9.2 of the EIS/EIR. Response to Comment D-23.

The analysis of cumulative impacts for the Draft EIS/EIR considered the combined impacts of the two projects, it was determined that the combined impacts of the After analyzing transit and affect traffic NMCO and Leona Quarry projects would not significantly the Leona Quarry projects. of the NMCO and effects

Response to Comments Naval Medical Center Oakland Disposal and Reuse Final EIS/EIR

D-23

D-22

27

Policy No. 520

AC Transit

BOARD POLICY

Subject Category: Board & General Administrative Matters

POLICY FOR AC TRANSIT COMMENTS ON LAND USE DEVELOPMENT PROPOSALS

Statement of Purpose

D-24

The purpose of this policy is to identify positions that AC Transit will advocate when local governments are considering development proposals. These positions are intended to maximize public transit usage by ensuring that land use decisions are made with full awareness of their impact on public transit.

It is not the intent of the policies to suggest that AC Transit will advocate for or against particular developments. Rather, AC Transit's role will be to inform local governments of the basic principles that will result in improved public transit service and ridership, and to comment on the extent to which developments under consideration by local government meet those principles. This policy document is intended to provide the framework by which comments are prepared and submitted to local governments as part of environmental analyses and other land use permit processes.

11. GENERAL PLANS AND ZONING ORDINANCES.

Local agencies within AC Transit's service area can promote and assist the use of mass transit through their general plans and zoning ordinances. These decisions determine if a project will encourage or discourage the use of AC Transit's services.

AC Transit should actively solicit the assistance of the cities and counties it serves to include in their general plans and zoning ordinances the land development principles identified in this policy. District staff should review general plan amendments and zoning changes, as well as environmental documents, to ensure that the District's land use principles are being considered and included in new developments.

Adopted: 5/94

Amendment(s):

circulation. There would be no cumulative transit impacts.

The traffic impacts analysis is quantified according to significance thresholds set by the City of Oakland. These thresholds are presented in Sections 4.9 and 5.5 of the EIS/EIR. Most thresholds are based on estimated impacts to levels of traffic service. Estimates of these levels account for time of day (e.g morning and evening commute, or "peak" hours), existing levels of service (usually expressed as some measure of delay), and other quantitative factors. Tables 4-17 and 4-18 summarize the quantitative difference between existing and projected traffic impacts for the No Action Alternative and reuse alternatives.

As a result of this analysis, there are no new substantial or significant environmental impacts. No additional or larger buses would be required to accommodate the additional demand for any of the reuse alternatives. No new significant or substantial traffic impacts have been identified in this revised analysis. Traffic impacts do not require recirculation of the EIS/EIR. However, because new significant information under CEQA was added to the Final EIS/EIR for traffic-related PM10 emissions, the air quality section was recirculated (see response to Comment F-6).

Response to Comment D-24. OBRA has established policies that encourage travel that does not depend on the automobile. As stated in the NMCO Final Reuse Plan (OBRA 1996), one of the evaluation criteria for all proposed uses at the site was stated as follows: "Preference will be given to proposed uses which provide an acceptable transportation plan that limits adverse traffic impacts at the site and reduces reliance upon automobiles." The selected reuse alternative for NMCO would contain loading areas, bus shelters, benches, and other reasonable transit

Response to Comments Naval Medical Center Oakland Disposal and Reuse Final EIS/EIR amenities to support and encourage transit use.

require cathodic protection for underground utility and other lines, whether in the public right-of-way or on private property; and in East 14th Street, San Pablo Avenue and Telegraph Avenue provide an appropriate median for light rail use.

LAND USE CONSIDERATIONS.

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A. The cities and counties served by the District should be encouraged to review and amend, where appropriate, the circulation and land use elements of their general plans to require new development (including remodeling of an existing facility) to include and incorporate transit-related issues and design concepts in the planning, design and improvement, and development of a project.

B. The cities and counties served by the District should be encouraged to include in any Specific Plan that is developed or amended transit improvements which enhance the use of transit to the developments within the Specific Plan. C. The cities and counties served by the District should be encouraged to review their zonling regulations and encouraged to amend those regulations to conform with the provisions of this policy.

D. The District should be included in the review of environmental documents for projects throughout the District. The District should request that mitigation measures for projects include specific transit improvements required by the project, with all construction and maintenance costs to be borne by the project.

E. Development agreements should be encouraged, to provide the greatest flexibility in securing and financing transit improvements and mitigation measures for District use and to meet the District's needs.

LOCATION AND TYPE OF DEVELOPMENT.

>

General Principle. New development should be located in a manner that maximizes the potential for transit use.

A. Encourage mixed-use development. Mixed-use developments can enhance the attractiveness of public transit by permitting multiple-trip purposes to be accomplished simultaneously. Automobile usage increases when people must take numerous single-purpose trips. Further, mixed-use developments can improve the efficiency of public transit by providing more even travel over the course of each day between week days and weekends and by season.

Response to Comments
Naval Medical Center Oakland

Page 3 of 5

Page 5 of 5

maps). TDM programs should have clear performance goals, monitoring mechanism, and penalties for non-compliance. TDM programs should be required for the life of the project, regardless of changes in ownership.

D. In large multi-unit residential projects, off-street parking spaces should be rented separately and not included in the unit rental or sale price. Mitigation measures similar to those stated in #3 above should be applied to prevent spillover parking on nearby residential streets. Off-street parking requirements should be reduced if the developer agrees to offer rebates or lower rents to tenants who sign an affidavit that they will not own a car while residing in the development.

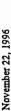
I. REDEVELOPMENT PROJECTS.

Redevelopment projects should be reviewed to determine their fiscal impacts upon the District, and what improvements/developments contemplated by the plan can and should include transit-related facilities, e.g., bus shelters, bus stops, turn-ins, etc. (See list in Item #7, Design Issues.) The District should be held harmless from any short or long term advance financial impact as a result of the establishment of a redeveloped area. In addition, the costs for any transit required facilities, as well as opportunities for additional bus service to serve the area, should be included in the redevelopment plan with the costs of the additional service being funded by individual projects or by redevelopment funds.

VIII. LOCAL AGENCY FORMATION COMMISSIONS.

Notify Local Agency Formation Commissions (LAFCOs)in Alameda and Contra Costa counties of the District's interest in receiving notice of annexations affecting the District's boundaries. Ensure that any annexations which affect the District's boundary are brought to the attention of the Board of Directors.

Congestion Management Agendy Alameda County



Naval Facilities Engineering Command Engineering Field Activity West Commanding Officer

Attn: Mr. Gary Munekawa, Environmental Planning Branch

Code 1852GM

San Brimo, CA 94066-5006 900 Commodore Drive City of Mamada Mayor Rulph Appettate

Subject:

Statement/Environmental Impact Report for the Disposal and Reuse of the Former Naval Medical Center Oakland, Oakland, California Commants on combined Draft Environmental Impact 5090.1B 1852GM/EP7-1115)

Considerabet Dear Mr. Munekawa:

Concluents Concluents Poly America

Director (Lugaren K. Pryce

California. The project site encompasses 183 acres developed with 82 structures as commercial and residential uses, open space, and active recreation. Many of the comments below were previously submitted in the CMA's response to the Notice of Environmental Impact Statement/Environmental Impact Report (DEIS/R) for the Disposal and Reuse of the Naval Medical Center Oakland, (NMCO) located in Oakland, the DEIS/R is the Maximum Capacity alternative which proposes development of an Thank you for the opportunity to comment on the Department of Navy's combined Draft described in the DEIS/R. Of the alternatives analyzed, the preferred reuse alternative in executive 9-hole golf course combined with residential development, mixed corporate, Scoping on October 12, 1996. (See attachment) No Offerstrille Cly of France | City of Happened Miny City of Newsek Vive Mayor City of Livermore Councilmenter Aya Werkaray

The CMA respectfully submits the following comments: Conciderated

The Oakland City Council adopted Resolution #69475 on November 10, 1992 establishing guidelines for reviewing the impacts of local land use decisions consisten City of Predmess Gity of Pleasanton Mary Ben Tarier Files Calbra City of San Lengde

City of Union City News Multipleta

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made of the traffic projections. Should the model results differ, for purposes of CEQA, the higher projections must be used to determine project impacts. The comparison of the model results showing which volumes are higher should be with the Alameda County Congestion Management Program (CMP): The proposed reuse project generates at least 100 p.m. peak hour trips above that already assumed in the year 2000 baseline scenario. The CMP guidelines (see attached, item #1) require the City to submit land use data (complete Table 1 attached, item #2) to Fransportation Demand Model for year 2000 conditions. Because a model other than the Countywide Transportation Demand Model was used, a comparison must be enable the CMA to conduct a traffic analysis of the project using the Countywide included in the environmental documentation

Alameda County Congestion Management Agency Letter B

Response to Comments

Response to Comment E-1. An analysis of year 2000 PM peak hour conditions was conducted using the Alameda County CMA Countywide Transportation Demand Model. A comparison was made between the CMA year 2000 PM peak hour traffic volume forecasts and the existing traffic counts, which were used as the basis of the Draft EIS/EIR. This analysis has been inserted in Appendix G of the Final EIS/EIR. Although cumulative project impacts could be reasonably assumed to be included in he CMA traffic volume forecasts, a separate analysis of cumulative impacts was performed to assess the impacts of the Leona Quarry project. This analysis was performed in a manner consistent with the original cumulative impacts analysis in the EIS/EIR and found that the mitigation measures proposed in the EIS/EIR would mitigate project impacts to a level of nonsignificance. Please refer to Appendix G, Fables G-15 through G-25. This analysis is noted in Section 5.5. Noise and air quality impacts also were analyzed using the CMA transportation model data. There was no change in modeled noise levels. Traffic volumes do not change sufficiently to alter any of the noise modeling results. In comparison to the concentrations under the CMA model, but this would not result in any changes to elaborate analysis of excess idling conditions in the CMA model. The results of results in the Draft EIS/EIR there were minor increases in carbon monoxide he significance level of any impacts. The increases in carbon monoxide concentrations are due to minor changes in traffic volumes combined with a more this analysis are shown in Table E-1 of this response to comments document.

Response to Comments Naval Medical Center Oakland Disposal and Reuse Final EIS/EIR

1333 DROADWAY, SUITE TWO OAKLAND, CA 94812 · PHONE: (519) 838-2590 · FAX: (510) 838-2156

Mr. Gary Munekawa November 22, 1996 Page 2

- The DEIS/R needs to address project impacts on the surrounding regional freeways. Particularly, the 2000 and 2010 impacts need to be analyzed for 1.580 and SR 13. E-2
- designated system with Level of Service E as the adopted (October 24, 1991). The standard for these roadways is the existing LOS. The LOS F roadway segments are (page 34). It should be noted that although a roadway may be operating at LOS F, The CMP requires that Level of Service E or better be maintained on the CMPdesignated system. The environmental documentation should state that I-580, SR 13, Golf Links Road are portions of the Congestion Management Programresented in the 1995 Draft CMP on Tables 4 and 5 (pages 30 through 32) and Figure this does not preculde proposing mitigation measures for that facility

E-3

- The CMA should be added to the list of agencies in Section 3.9.9 Transportation Plans and Regulations. 4
- Funding of transit mitigation (i.e., additional service, modified rouring) recommended as part of the project should be addressed in the environmental documentation. E-5
- project finding priorities established in the Capital Improvement Program (CIP) of adopted Regional Transportation Plan (RTP). Therefore, we are requesting that the be speculative to assume finding of an improvement unless it is consistent with the he CMP, the federal Transportation Improvement Program (TIP), or the recently environmental documentation include a financial program for all transportation In general, the CMA requests that there be a discussion on the proposed finishing sources of the transportation mitigation measures identified in the environmental Given the limited resources at the state and federal levels, it would locumentation. mprovements. E-6
- The CMP establishes a Capital Improvement Program (See 1995 CMP, Chapter 7) County. The improvements called for in the DEIS/R should be consistent with the improvements in light of the limited amount of State and Federal resources to fund that assigns priorities for finding roadway and transit projects throughout Alameda The DEIS/R should discuss potential sources of funding for proposed environmental transportation coadway and transit improvements required by the project. The documentation should discuss the feasibility of funding these ocal improvements in Alameda County. CMP CIP.

E-7

adopted three criteria for evaluating the adequacy of EIR project mitigation measures, as On February 25, 1993 the CMA Board Adequacy of project mitigation measures. follows: **₩**

Project mitigation measures must be adequate to sustain CMP service standards for roadways and transit;

An analysis of year 2000 and 2010 PM peak hour conditions was conducted for I-580 and SR 13, based on forecasts from the CMA ransportation model. Six freeway segments were analyzed. Traffic generated by each of the project alternatives was added to the traffic volume forecasts for year 2000 and 2010. The project traffic assigned to the freeways was reduced by 18 ð nonmotorized transportation, and four percent of people who would work at home. percent six ridership, This analysis is included in Appendix G of the Final EIS/EIR transit percent for eight Response to Comment E-2. account 2 percent

For year 2000 conditions, all freeway segments would operate at LOS E or better for all alternatives, with one exception; for the eastbound segment of I-580 between SR 13 and Edwards Avenue, traffic would operate at LOS F without implementation of any of the project alternatives. The addition of project traffic would result in a drop in the V/C ratio of no greater than 0.02. A drop in V/C ratio of 0.03 or less would not be perceptible to the public; therefore, none of the project alternatives would result in significant freeway impacts in year 2000.

The All segments that would operate at LOS F after implementation For year 2010 conditions, several freeway segments would operate below the LOS addition of project traffic would result in a drop in the V/C ratio of no greater than 0.02; therefore, none of the project alternatives would result in significant freeway of the project alternatives also would operate at LOS F without the project. impacts in year 2010. E CMA standard.

Naval Medical Center Oakland Disposal and Reuse Final EISEIR

32

Table E-1

	Peak I-Hour Carbon Monaxide Concentration (ppm) by Alternative				Reak & Hour Carbon Monoxide Concentration (ppm) by Alternative							
Receptor Location	No Action	Maximum Capacity	Mixed Use	Single Use Campus	Residential Option 1	Residential Option 2	No Action	Maximum Capacity	Mixed Use	Single Use Campus	Residential Option I	
NE of Keller Ave. and Mountain Blvd.	3.9	4.7	4.5	4.4	4.3	.4.4	3.1	3.7	3.6	3.5	3.4	3.5
SE of Keller Ave. and Mountain Blvd.	3.6	4.1	4.0	3.9	3.8	3.9	2.8	3.2	3.2	3.1	3.0	3.1
NW of Keller Ave. and Fontaine St.	. 3.0	3.4	3.2	3.1 .	3.1	3.2	. 2.4.	2.7	2.5	2.4	2.4	2.5
SW of Keller Ave. and Fontaine St.	3.0	3.3	3.2	3.1	3.1	3.2	2.4	.2.6	2.5	2.4	2.4	2.5
NE of Mountain Blvd. and Shone Ave.	3.7	. 4.4	4.2	· 4.t	4.0	4.1	2.9	3.5	3.3	3.2	3.2	3.2
SE of Mountain Blyd. and Shone Ave.	4.5	5.0	4.9	4.8	4.8	4.9	3.6	4.0 **	3.9	3.8	3.8	3.9
NE of the Main Entrance	3.2	3.4	3.5	3.3	3.3	3.4	2.5	2.7	2.8	2.6	2.6	2.7
SE of the Main Entrance	3.2	3.6	3.6	3.4	3.4	3.5	2.5	2.8	2.8	2.7	2.7	2.8
NW of Mountain Blvd. and Golf Links Rd.	3.0	3.2	3.2	3.2	3.2	3.2	2.4	2.5	2.5	2.5	2.5	2.5
NE of Mountain Blvd. and Golf Links Rd.	· 3.1	3.3	3.3	3.2	3.2	3.2	2.4	2.6	2.6	2.5	2.5	2.5
SW of Golf Links Rd. and Zoo Drive	3.5	3.9	3.9	3.8	3.7	3.7	2.8	3.1	3.1	3.0	2.9	2.9
SE of Golf Links Rd. and Zoo Drive	3.6	4.3	4.4	4,1	3.8	3.9	2.8	3,4	3.5	. 3.2	3.0	3.1

el and EMFAC7F emission rates for

Response to Comments Naval Medical Center Oakland Disposal and Reuse Final EIS/EIR

Mr. Gary Munekawa November 22, 1996 Page 3

E-9

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It would be helpful to indicate in the DEIS/R the adequacy of proposed mitigation measures relative to these criteria. In particular, the DEIS/R should detail when route improvements are expected to be completed, how they will be finded, and what would be the effect on LOS if only the finded portions of these projects were assumed to be built

influenced by the CMA must be consistent with the project funding priorities established in the Capital Improvement Program (CIP) section of the CMP or the Regional Transportation Plan (RTP). Project mitigation measures that rely on state or federal funds directed by or Project mitigation measures must be fully funded to be considered adequate;

We appreciate the opportunity to review and comment on this project. If you have any questions, please feel free to call Beth Wainkas or me at 836-2560.

prior to project completion.

Regards,

Deputy Director fean Hart

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File: CMP/Environmental Review Opinions - Responses - 1995 Ms. Ann Raud, City of Oakland Beth Wainkas, Senior Transportation Planner

GPA SUMMARY DATA FORM Tier I, GPA Land Use Analysis Program August 21, 1992

of the subject GPA application document to the CMA. If required, an ASCII file format of the data may be requested by the CMA. This Form is not complete unless all questions are answered (attach additional pages, if required): To conform to the Alameda County Congestion Management Agency's Tier I, GPA Land Use Analysis Program requirement, a jurisdiction must complete and return this Form, and a copy

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Describe the types of uses to be included in the project (e.g. single family dwellings, low income senior housing units, etc.)

34

l in determining i	. If yes, attac	d the methodolog:	
4. Will any trips generated by low or very low income housing be excluded in determining if	this GPA generates 100 or more additional PM peak hour trips? Yes. No If yes, attach	supporting documentation describing the low or very low income housing, and the methodology	:
y low income ho	PM peak hour to	w or very low in	am total trine
d by low or ver	more additional	describing the lo	used to identify and entirent those trine from total trine
y trips generate	enerates 100 or	documentation	atify and enhire
4. Will an	this GPA g	supporting	near to ide

- No__. If yes, attach to 5. Have any traffic studies been prepared for this project? Yes____
- 6. What is the expected occupancy date (year) for this project? If a multi-phase project, then the expected occupancy date for each phase.

7. What will be the per cent completion of the project by the year 2000 (e.g. 10%, 50%, etc.)?

8. Complete Table 1 (attached), describing net demographic change by TAZ that is expected to occur with this project. Include none, if appropriate.

Name of Junisdiction:

Contact Person and Phone Number

Date of Submittal:

Response to Comment E-3. I-580, SR 13, and Golf Links Road are portions of the The significant impacts on Golf Links Road would be mitigated with the measures Congestion Management Program designated system with LOS B as the adopted standard. None of the project alternatives would create significant freeway impacts. proposed in the EIS/EIR.

Transportation Plans and Regulations, immediately following the description of the Response to Comment E-4. The following paragraph about the Alameda County Section 3.9.9, was added to Congestion Management Agency (CMA) Metropolitan Transportation Commission:

Alameda County Congestion Management Agency (CMA)

The Alameda County Congestion Management Agency (CMA) is County CMP. An analysis based on the CMA transportation model of year 2000 and year 2010 peak hour conditions was conducted for all of government conformance with the #69475 on November 10, 1992 establishing guidelines for revlewing the Impacts of local land use decisions consistent with the Alameda congestion management plan, a seven-year program aimed at reducing traffic congestion. The CMA has review responsibility for proposed development projects that are expected to generate 100 more PM peak hour trips than otherwise would occur. The CMA reviews the adequacy of CEQA analyses and measures proposed to mitigate impacts. The CMA maintains a county-wide transportation model and transportation models. The Oakland City Council adopted Resolution ö local has approval authority for the use of any responsible for ensuring local

Response to Comments Naval Medical Center Oakland Disposal and Reuse Final EIS/EIR



the reuse alternatives, and is summarized in Appendix G.

The analysis of traffic impacts was based on the year 2000 and year transportation model. The model demographic characteristics of the nine-county Bay Area, which allows it to produce travel demand forecasts that incorporate influences of regional travel model has been structured to provide forecasting detail that addresses he evaluation needs of both countywide and corridor-specific The (demand on transportation facilities in Alameda County. and nse land of 2010 Alameda County CMA representation ransportation strategies. incorporates a

circulation impacts because the assumptions in the model have been refined and agreed to on a regional basis. The land use assumptions The CMA model was used as the basis for the study of traffic and contained in the year 2000 and year 2010 CMA model were developed by the Association of Bay Area Governments (ABAG) with input from ocal member jurisdictions on planned development.

The project site could be adequately served by the existing transit routes that run along Mountain Boulevard and Keller Avenue. Therefore, no additional service or modified routing would be required, and no significant impacts to transit would occur. No financial No transit mitigation funding is required. additional transit service would be required to serve the project. program is provided in this EIS/EIR. Response to Comment E-5.

Response to Comment E-6. The mitigation measures described in the EIS/EIR be paid for by the future owner. If the future owner enters into agreements

Response to Comments Naval Medical Center Oakland Disposal and Reuse Final EIS/EIR

Jurisdiction: Sumittal Date: Contact Person and Phone

TAZ (1)

Table 1 Demographic Change in the

Manu-

Other

Retail-

Total

GPA Exclusions (2) Projection GPA Exclusions (2) Subtotal Projectio GPA

Demographic

Exclusions (2) Subtotal Projections GPA Exclusions (2)

(1) - Traffic Analysis Zone

CONGESTION MANAGEMENT AGENCY Alameda County



County of Marine A. October 12, 1994

City of Minneds Mr. Gary Munckawa Kalen Appendix Mr. Gary Munckawa

Environmental Planning Branch, Code 185

U.S. Navy, Engineering Field Activity West

Naval Facilities Engineering Command

900 Commodore Drive City of Berhaley Camelmenton 1'05y Annuong

Cir a Duno, CA 94066-5006 Cardinate Patrick

City of Emeryvite Subject:
Ver Chariperson
Countingation
Non Davis

Comments on Notice of Scoping for a combined Environmental

Impact Statement/Environmental Impact Report on the Disposal and Reuse of the Naval Medical Center Oakland, California (5090.1 Ser

(85/P5-836)

City of Fremass Chaliperres Mayor Clas Morrison

Giy of Hayward Dear Mr. Munekawa: Robert Orges

CONTINUES THANK YOU for the opportunity to comment on the Department of Navy's Notice of Continues Scoping for a combined Environmental Impact Statement Environmental Impact Report CONTRACTION OF THE DISPOSAL AND REUSE OF THE NAVAL MEdical Center (NIMCO) located in Oakland, semalates. California. The project site encompasses 192 acres developed with 89 structures as City of Others described in the Notice of Scoping.

city of Pressures Alameda County Congestion Management Program (CMP). The proposed reuse project city of statemany year 2000 baseline scenario. If this is the case, the CMP guidelines (see attached, item #1)

Howalken require the City to submit land use data (complete Table 1 attached, item #2) to enable the Bentain appears to generate at least 100 p.m. peak hour trips above that already assumed in the City of taken Com Community to conduct a traffic analysis of the project using the Countywide Transportation Medel.

John Wooden the limited resources at the state and federal levels, it would be speculative toинричк. Вуми Вепетаl, the CMA requests that there be a discussion on the proposed funding sources Action of the transportation mitigation measures identified in the environmental documentation. assume funding of an improvement unless it is consistent with the project funding Lawning Director priorities established in the Capital Improvement Program (CIP) of the CMP, the federal ransportation improvement Program (TIP), or the recently adopted Regional Therefore, we are requesting that the environmental documentation include a financial program for all transportation improvements.

THE HROADWAY, STITIS 200 - OAKLAND, DA 1990 P. PHONE GIUJ SIG-2500 - PAN; GIUI BRIGGING

Alameda County Congestion Management Agency

for a fair share of the cost of mitigation. Public funding is not anticipated to be required for project mitigation; however, the City of Oakland Redevelopment with the project developer or others, the developer or others would be responsible Agency reserves the right to seek additional funding, as appropriate, at a later date. Funding plans are beyond the scope of this program level EIS/EIR

Response to Comment E-7. Please see response to Comment E-6. Funding plans are beyond the scope of this program level EIS/EIR. Response to Comment E-8. Please see response to Comment E-6. Funding plans are beyond the scope of this program level EIS/EIR.

incremental step is beyond the scope of a programmatic EIS/EIR. However, the City of Oakland anticipates restriping the roadways and installing traffic signals The EIS/EIR is a programmatic document. Evaluating each incremental step and identifying the funding and schedule for each where necessary reuse of the NMCO site would generate substantial traffic. Response to Comment E-9.

Response to Comment E-10. Comment noted. Completing the form would be premature prior to completing a specific development plan for the site

Mr. Gary Munekawa October 12, 1995

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The 1995-96 workplan for the CMA includes development of corridor/areawide transportation planning studies which will assist in assessing longer term land use impacts and possible solutions and identify comprehensive approaches to congestion management to aid in the development of deficiency plans. Participation in the corridor/areawide transportation planning process should be considered as a general mitigation measure for transportation impacts identified in the environmental documentation.

The following are concerns of the CMA regarding the project which should be addressed in the environmental documentation:

1. Potential impacts of the project on the Metropolitan Transportation System (MTS) (See 1995 CMP Figures E-2 and E-3, pages vii and viii and Figures 2 through 7, pages 14 through 19). The EIS/EIR should address all potential impacts of the project on the MTS roadway and transit systems. These include I-580, I-880, State Route 13, State Route 238, State Route 24, and the other MTS routes which would be impacted by the project.

2. Potential impacts of the project on MTS roadway levels of service. (See 1995 CMP, Chapter 3). The CMP roadway level of service standard is LOS E for designated roadways, except where LOS F was originally measured at the time the CMP was adopted (October 24, 1991). The standard for these roadways is the existing LOS. The LOS F toadway segments are presented in the 1995 Draft CMP on Tables 4 and 5 (pages 30 through 32) and Figure 8 (page 34). The CMA requests analyses be conducted for two horizon years: 2000 and 2010. Although a roadway segment may be operating at LOS F, this does not preclude proposing mitigation measures for that facility.

3. Adequacy of project mitigation measures. On February 25, 1993 the CMA Board adopted three criteria for evaluating the adequacy of EIR project mitigation measures, as follows:

- Project mitigation measures must be adequate to sustain CMP service standards for roadways and transit;
- Project mitigation measures must be fully funded to be considered adequate;
 Project mitigation measures that rely on state or federal funds directed by or
 influenced by the CMA must be consistent with the project funding priorities
 established in the Capital Improvement Program (CIP) section of the CMP or the

Regional Transportation Plan (RTP).

It would be helpful to indicate in the EIP/EIS the adequacy of proposed mitigation measures relative to these criteria. In particular, the EIP/EIS should detail when route improvements are expected to be completed, how they will be funded, and what would be the effect on LOS if only the funded portions of these projects were assumed to be built prior to project completion.

Attachment - no response required

Mr. Gary Munekawa October 12, 1995

Page 3

4. Potential impacts of the project on CMP transit levels of service. (See 1995 CMP, Chapter 4). Transit service standards are 15-30 minute headways for bus service and 3.75-15 minute headways for BART during peak hours. The EIR/EIS should address the issue of transit funding as a mitigation measure in the context of the CMA's policies, as discussed in item #3 above.

mechanisms to encourage ridesharing, flextime, transit, bicycling, teleccommuting and other means of reducing peak hour traffic trips. The EIR/EIS should consider the use of TDM). The City of Oakland has adopted a Trip Reduction Ordinance (TRO) that provides for 5. Potential impacts of the project on trip reduction measures. (See 1995 CMP, Chapter measures, in conjunction with roadway and transit improvements, as a means of attaining acceptable levels of service.

funding roadway and transit projects throughout Alameda County. The improvements called for in the EIR/EIS should be consistent with the CMP CIP. The EIR/EIS should Capital Improvement Program (See 1995 CMP, Chapter 7) that assigns priorities for discuss potential sources of funding for proposed roadway and transit improvements The CMP establishes a required by the project. The environmental documentation should discuss the feasibility of unding these transportation improvements in light of the limited amount of State and Federal resources to fund local improvements in Alameda County. 6. Feasibility of funding roadway and transit improvements.

We appreciate the opportunity to review and comment on this project. If you have any questions, please feel free to call Beth Walukas or me at 836-2560.

Regards,

lean Hart

Deputy Director

Beth Walukas, Senior Transportation Planner cc: Ms. Anu Raud, City of Oakland

File: CMP/Environmental Review Opinions - Responses - 1995

Attachment – no response required

MANAGEMENT DIST BAY AREA AIR

ALAMEDA COUNTY Edward R. Campbell (Secretary) Mary King Ben G. Tarver (Chaliperson) Greg Harper

CONTRA COSTA COUNTY Gayle Bishop Paul L. Cooper Mark DeSauthler

MARIN COUNTY Harold C. Brown, Jr.

NAPA COUNTY Paul Bettisti

MADE TON MADE TON SUSEN LON 60 BAN MATEO COUNTY Jerry Hill Michael Nevin

SANTA CLARA COUNTY Randy Attaway James T. Beall, Jr. Tribe Johnson **G班an Moran**

SOLANO COUNTY Willem Carrol SONOMA COUNTY Jim Harberson (Vice-Chairperson) Patricie Hiligosa

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Ellen Garvey Ar Pollution Control Officer

November 27, 1996

Engineering Field Activity West (Code 1852GM) Mr. Gary J. Munekawa Naval Facilities Engineering Command San Bruno, CA 94066-5006 900 Commodore Drive

Subject: Draft Environmental Impact Statement/Environmental Impact Report for the Disposal and Reuse of Naval Medical Center Oakland

Dear Mr. Munekawa:

Environmental Impact Statement/Environmental Impact Report (EIS/EIR) for the disposal motor vehicle emissions for development projects similar to the proposed reuse of NMCO potential environmental impacts from the implementation of several reuse alternatives at the 183-acre NMCO site. We concur with your finding that all reuse alternatives would disagree with the conclusion that no measures are available to mitigate this impact significantly since our experience indicates that there are many ways to reduce or offset Bay Area Air Quality Management District (BAAQMD) staff have reviewed the Draft precursors resulting from project-generated automobile traffic. However, we strongly and reuse of Naval Medical Center Oakland (NMCO). This document examines the have significant impacts on regional air quality from increased emissions of ozone

the five percent mode split assumed in the EIS/EIR, a level that is significantly lower than use projects generally yield ferver vehicle trips per resident or employee than conventional information, and placed in a central location within the site, should be provided. The City By facilitating trip-linking and alternative modes of transportation, higher density, mixed single use developments. For this reason, we encourage the City, above all else, to select the Maximum Capacity or Mixed Use Village alternative for the NMCO site. Also, the Final EIS/EIR should propose strategies to increase the percentage of transit trips above current transit use in northwestern Alameda County. A transit center, furnished with cooperate with AC Transit to provide bus service directly to the center. Also, shuttle service could be provided between the transit center and large nearby residential or commercial concentrations as well as the Coliseum or San Leandro BART station. attractive shelters, benches, landscaping and lighting, featuring route and schedule of Oakland-acting as the decision-making body for land use approvals-should

overlooks bike/ped access 10 the site. Existing sidewalks, pedestrian paths, bicycle lanes, While the EIS/EIR briefly addresses bicycle and pedestrian movement within the site, it

Letter F Bay Area Air Quality Management District

Response to Comments

considering a number of criteria, including encouraging travel that does not depend on the automobile. As stated in the NMCO Final Reuse Pian (OBRA 1996), one of "Preference will be given to proposed uses which provide an acceptable Response to Comment F-1. The preferred alternative was selected after he evaluation criteria for all proposed uses at the site was stated as follows: transportation plan that limits adverse traffic impacts at the site and reduces reliance Maximum Capacity Alternative would contain loading areas, bus shelters, and senches for use by transit patrons, if AC Transit were to provide on-site transit selecting the Maximum Capacity Alternative as the preferred alternative. upon automobiles." Application of this criterion, among others,

No significant transit impacts are identified in the EIS/EIR because none of the transit routes directly serving the NMCO site currently experience heavy demand and none of the project alternatives would generate new transit patronage beyond the capacity of the existing transit system. This assessment was not detailed in the Draft EIS/EIR but has been detailed in the Final EIS/EIR and is summarized in the response to Comment D-2. The existing transit routes serving the NMCO site have more than enough capacity to accommodate the minor increases in transit patronage resulting from any of the project alternatives. The Final Reuse Plan (OBRA 1996) recommends that OBRA enter into discussions with appropriate agencies (e.g., AC Transit, page 79 of the Final Reuse Plan). The actual location, timing, and representatives attending these meetings on behalf of he City of Oakland and AC Transit have not been specified. Thank you for the

Response to Comments Naval Medical Center Oakland Disposal and Reuse Final EISEIR

segregated bike paths, traffic signals and marked crosswalks linking the Oakland street system to NMCO should be mentioned, and their condition described. The Final EIS/EIR should propose to upgrade inadequate facilities and to build new ones to provide missing connections to the site. Within the site, a system of off-road paths for non-motorized modes of transportation should be provided to connect the major activity points. Additionally, the project should provide secure and conveniently located bicycle parking and storage at all buildings, shower and locker facilities for employees, and a bicycle

The EIS/EIR correctly states that mandatory trip reduction programs have been invalidated by State law; however, the City of Oakdand can still choose to institute a program for its own project, with specific, enforceable trip reduction goals, in order to mitigate air quality—and traffic—impacts. The Final EIS/EIR should identify possible transportation demand management (TDM) strategies and propose that feasible ones be incorporated into the project. Proven strategies include guaranteed rides home, transit subsidies, on-site sale of transit passes, preferential parking for carpools and varpools, ridematching programs, telecommuting, and designation of a transportation management coordinator to promote transportation alternatives.

F-3

Numerous studies indicate that the most effective TDM measures are those that manage the demand for parking, either by offering employees a monthly transportation allowance while charging for parking, or by offering employees the cash equivalent (or parking "cash out") of the cost to the employer of providing parking. (This way, some employees will choose to find alternative ways of getting to work and "pocket" the cash.) Parking demand management programs are best coupled with a reduction in the number of code-required parking spaces, which yields a monetary savings while reinforcing other aspects of the trip reduction program.

Transportation programs and facilities that reduce dependence on automobiles will not only benefit air quality but will also help active other important community goals, such as reducing congestion and noise, and increasing mobility options for those without access to a car. For additional strategies to reduce vehicle trips, please consult Appendices E and F of Improving Air Quality Through Local Plans and Programs (April 1994), a joint publication of the BAAQMD and the Association of Bay Area Governments (ABAG); for a copy of this document, call ABAG Publications at (\$10) 464-7900. Other useful ideas are found in Tables 15 and 16 of our BAAQMD CEQA Guidelines: Assessing the Air Quality Impacts of Projects and Plans (April 1996), which is available from the BAAQMD's Public Information Office, at (415) 749-4900.

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The FEIR should also propose energy conservation measures for the project that exceed minimum California Title 24 building efficiency standards. Energy-efficient lighting systems, building envelopes, and healing, ventilation and air conditioning would reduce direct and indirect air quality impacts of the project by lowering nitrogen oxide emissions produced by power plans and on-site natural gas combustion. Energy conservation improvements are usually cost effective but are often overlooked during a project's design stage due to a focus on construction costs rather than on life-cycle costs. [For information

F-5

Bay Area Air Quality Management District Letter F

proposed strategies; they will be considered.

Response to Comment F-2. Section 3.9.7 adequately describes the NMCO site as having "extensive internal pedestrian pathways on the project site; however, sidewalks along roadways are almost nonexistent except at selected segments on Blackwood Street." Hazards to pedestrians are noted. Sections 4.9.5, 4.9.6, 4.9.7, and 4.9.8 address bicycle and pedestrian impacts and state that each reuse alternative would have adequate bicycle and pedestrian facilities.

Response to Comment F-3. OBRA has established policies that encourage travel that does not depend on the automobile. As stated in the NMCO Final Reuse Plan (OBRA 1996), one of the evaluation criteria for all proposed uses at the site was stated as follows: "Preference will be given to proposed uses which provide an acceptable transportation plan that limits adverse traffic impacts at the site and reduces reliance upon automobiles." The selected reuse alternative for NMCO would contain loading areas, bus shelters, benches, and other reasonable transit amenities to support and encourage transit use.

The purpose and scope of the analysis in Sections 4.9 and 5.5 of the EIS/EIR supports informed decision- making. The City of Oakland encourages voluntary transportation demand management. Reuse of NMCO is infill development and is consistent with the goals of the City's general plan, The infrastructure is in place to reuse the site, and all city and county services are in place. The net effect of reuse at the NMCO site is to reduce overall trips.

Although the City of Oakland can not mandate trip reduction programs, it will strongly advocate in discussions with future developers that the that the following

Response to Comments Naval Medical Center Oakland Disposal and Reuse Final EIS/EIR

Mr. Gary J. Munekawa

November 27, 1996

on rebates for new energy-efficient construction available from PG&E, contact Grant Duhon at (415) 972-5695.]

F-5

much larger contribution of entrained dust from paved roads, as indicated on page 31 of should be taken to account not only for tailpipe and tire wear emissions but also for the nonattainment for the State PM10 standard. The Final EIS/EIR should calculate PM10 emissions and compare the total against our significance threshold of 80 lb/day. Care Finally, the EIS/EIR's air quality analysis did not estimate project emissions of fine particulate matter (PM10). This is a significant omission since the Bay Area is in our BAAQMD CEQA Guidelines. F-6

NMCO. BAAQMD staff would be glad to provide further assistance on mitigating the air quality impacts of your project. If you need additional information or have any questions regarding our comments, please call Niko Letunic, Environmental Planner on my staff, at Thank you for the opportunity to comment on the EIS/EIR for the disposal and reuse of (415) 749-5170

Air Pollution Control Office

EG:NL

Gary Binger, Association of Bay Area Governments cc: BAAQMD Director Edward R. Campbell BAAQMD Director Ben C. Tarver BAAQMD Director Greg Harper BAAQMD Director Mary King

Bay Area Air Quality Management District

project as ransportation demand management strategies be incorporated into the economically feasible:

- On-site sale of transit passes and related subsidies
- Telecommuting incentives
- Parking demand management through the use of monthly transportation allowances and parking charges for some parking spaces
- Preferential carpool and vanpool parking spaces

The City will also recommend that the developer consider other similar strategies coordinate informal investigations with local and regional transportation agencies. \$ open-door policy an maintain and

Response to Comment F-4. OBRA has established policies that encourage travel that does not depend on the automobile. As stated in the NMCO Final Reuse Plan stated as follows: "Preference will be given to proposed uses which provide an (OBRA 1996), one of the evaluation criteria for all proposed uses at the site was acceptable transportation plan that limits adverse traffic impacts at the site and reduces reliance upon automobiles." The selected reuse alternative for NMCO would contain loading areas, bus shelters, benches, and other reasonable transit amenities to support and encourage transit use.

The City of Oakland will encourage reasonable energy conservation measures when a specific development plan is prepared for the to the extent feasible, for future passive or natural heating or cooling Government Code § 66473.1 provides that the design of a subdivision shall Response to Comment F-5. provide,

Response lo Comments Naval Medical Center Oakland Disposal and Reuse Final EISEIR

opportunities. The law shall not, however, be construed to require a reduction in allowable densities. Response to Comment F-6. The EIS/EIR text and Table 4-31 have been revised to include estimates of PM10 emissions generated by vehicle traffic associated with alternative reuse plans. Because this analysis represents new significant information under the CEQA Guidelines, § 15088.5, it was recirculated for public review. The recirculation letters, attachments, and associated comments and responses are included at the end of this comments and responses section.

B EAST BAY MUNICIPAL UTILITY DISTRICT

November 20, 1996

Commanding Officer

Naval Facilities Engineering Command Engineering Field Activity West

Atta.: Mr. Gary J. Munekawa, Environmental Planning Branch,

Code 1852GM,

900 Commodore Drive

San Bruno, CA 94066-5006

Disposal and Reuse of the Former Naval Medical Center, Oakland (NMCO)
Draft Environmental Impact Statement / Environmental Impact Report SUBJECT:

Dear Mr. Munekawa:

Thank you for the opportunity to comment on the subject document. The District has the following comments regarding water service and wastewater service.

WATER SERVICE

patterns of NMCO, to determine the impact on the District's finite water supply. Table 4-33 on any of the four alternatives. Without the comparative consumption rates, the conclusion cannot The Draft Environmental Impact Statement/Environmental Impact Report (DEIS/EIR) should page 4-123 concludes that the water distribution system impacts will be non-significant under include water consumption for the various alternatives, compared against historical usage

<u>6</u> 43

improvements will be determined when the individual project sponsors request water service to the project sites. When the development plans have been finalized, the project sponsors should Depending upon the alternative selected and the water service requirements of that alternative, off-site pipeline improvements may be needed. The location, extent, and cost of any pipeline improvements, if needed, often require substantial lead time that should be provided for in the contact the District's New Business Office and request a water service estimate to determine costs and conditions of providing water service. Engineering and installation of pipeline project sponsors' development schedules.

G-2

existing on-site water distribution system. as presently configured would not meet District Water The DEIS/EIR should include information on the ownership of the existing utility infrastructure infrastructure, after the Navy relinquishes ownership of the property need to be addressed in the pipeline installations, water meter installations, and backflow prevention. This information is. at NMCO after closure. The operation and maintenance responsibilities for the existing utility DEIS/EIR. If the NMCO site does not remain under a single ownership, after the closure, the Service Regulations. The report should detail the need for pipeline improvements, including needed to implement the conversion process.

G-3

Response to Comments

Letter G

East Bay Municipal Utility District

Response to Comment G-1. The following text was inserted in Chapter 3 Affected Environment, as Section 3.12.9:

3.12.8 Potable Water Supply

Historic consumptive water use at NMCO ranged from about 5 to 9 consumptive water use was about 7.5 million gallons per month, or Average annual million gallons per month (Rogers 1997). about 90 million gallons per year (Rogers 1997) Section 3.12.8 from the Draft EIS/EIR ("Regulatory Considerations") now appears as Section 3.12.9 in the Final EIS/EIR, with no other changes.

The following text was added as the final section in Chapter 4, Sections 4.12.3, 4.12.4, 4.12.5, and 4.12.6:

4.12.3 Maximum Capacity Alternative

Impact 1: Potable Water Supply. A significant and mitigable impact would result from an increased water supply demand of about 112 percent over the historic demand. The Maximum Capacity Alternative which includes 1,565 residential users, and 1,441 commercial users please see Table 4-5). Multiplying 1,565 residential users times an estimated 120 gallons per day per residential user (Department of is estimated to increase population in the region of influence by 3,006, Multiplying 1,441 commercial users times an estimated 70 Water Resources 1994a) equals 187, 800 gallons of residential use per

1994b) equals 100,870 gallons of commercial use per day. Adding use on-site. Multiplying this use rate times 365 days subtotals gallons per year to irrigate the 83-acre golf course (based on an gallons per day per commercial user (Department of Water Resources hese estimated daily residential (187,800 gallons) and commercial (100,870 gallons) uses equals 288,670 gallons per day estimated water irrigation rate of 1.03 million gallons per acre per year) totals 90,854,550 gallons per year estimated potable water demand. This epresents an increase of about 112 percent over the estimated historic 05,364,550 gallons per year. Adding an estimated 85,490,000 annual use of 90,000,000 gallons per year.

urban water management plans, and will require such plans to be The City will ask those suppliers whether the water demand associated updated to account for estimated demand from this alternative. Government Code Sections 65352 and 65352.5 require cities to requires cities to coordinate with such suppliers in preparing the Mitigation 1: The City of Oakland will expressly identify the water supplier(s) that will provide water service to the alternative (Cal. Pub. Res. Code Section 21151.9; Cal. Wat. Code Sections 10910-10915). with the alternative has been included and assessed in the suppliers' consult with water suppliers in connection with such proposed projects. Moreover, Government Code Section 65302, subdivision (d), conservation elements of their general plans. That coordination is required to include the discussion and evaluation of any water supply and demand information described in Section 65352.5, if that

Section 1

Sec. Act

information has been submitted by the water agency to the city. In addition to supplier identification and coordination, the following best management practices will be implemented by future site developers:

- Interior and exterior water audits and incentive programs for single family residential, multi-family residential, and commercial users;
- · requirement of ultra low flush toilets in all new construction;
- distribution system water audits, leak detection and repair;
- · metering for all new connections and billing by volume of
- · large landscape water audits (golf course and recreational areas);
- · landscape water conservation for new single family homes; and
- water waste prohibitions.

Implementation of these water conservation practices will be consistent with the guidelines and schedules set forth in the Memorandum of Understanding Regarding Urban Water Conservation Supplier identification, coordination, and best management practices implementation would reduce water supply impacts to a less than in California (California Urban Water Conservation Council 1994).

ignificant level by ensuring that the water supply system will have adequate capacity prior to development approval.

service and landfill capacity would result under the Maximum Capacity Alternative. The generation of about 71,346 tons of No other significant impacts to utilities systems or waste management demolition waste would, however, be a significant but mitigable cumulative Impact, and is discussed in Chapter 5 of this BIS/BIR.

4.12.4 Mixed Use Village Alternative

The Mixed Use Village Alternative is estimated to increase population in the region of influence by 2,532, which includes 241 residential users, and 2,291 commercial users (please see Table 4-5). Multiplying 241 residential users times an estimated 120 gallons per day per residential user (Department of Water Resources 1994a) equals 28,920 gallons of residential use per day. Multiplying 2,291 commercial users times an estimated 70 1994b) equals 160,370 gallons of commercial use per day. Adding historic annual use of 90,000,000 gallons per year, and is not a gallons per day per commercial user (Department of Water Resources gallons per year. This represents about 77 percent of the estimated these estimated dally residential (28,920 gallons) and commercial (160,370 gallons) uses equals 189,290 gallons per day estimated water use on-site. Multiplying this use rate times 365 days totals 69,090,850 significant water supply impact. Potable Water Supply.

4.12.5 Single Use Campus Alternative

Potable Water Supply. The Single Use Campus Alternative is estimated to increase population in the region of influence by 2,312 commercial users (please see Table 4-5). Multiplying 2,312 commercial users times an estimated 70 gallons per day per commercial user (Department of Water Resources 1994b) equals 161,840 gallons of commercial use per day. Multiplying this use rate times 365 days totals 59,071,600 gallons per year estimated potable water demand. This represents about 66 percent the estimated historic annual use of 90,000,000 gallons per year, and is not a significant water supply impact.

4.12.6 Residential Alternative

increase population in the region of influence from 1,299 (low density Residential users could range from 957 to 1,608. Multiplying 957 and 1,608 residential users times an estimated 120 gallons per day per commercial user (Department of Water Resources 1994b) equals a option) to 1,990 (high density option). Please see Table 4-5. residential user (Department of Water Resources 1994a) equals a range gallons of residential use per day. Multiplying the range of 342 to 382 commercial users times an estimated 70 gallons per day per of 114,840 (low density option) to 192,960 (high density option) gallons of commercial use per day. Adding estimated low density range of 23,940 (low density option) to 26,740 (high density option) Potable Water Supply. The Residential Alternative is estimated

option residential (114,840 gallons) and commercial (23,940 gallons) results in an estimated daily water use rate of 138,780 gallons per day. Multiplying this daily rate times 365 days per year totals 50,654,700 gallons per year. This represents about 56 percent of the historic use of 90,000,000 gallons per year, and is not a significant water supply impact. Adding estimated high density option residential (192,960 gallons) and commercial (26,740 gallons) results in an estimated daily water use rate of 219,700 gallons per day. Multiplying this daily rate times 365 89 percent of the historic use of 90,000,000 gallons per year, and is not days per year totals 80,190,500 gallons per year. This represents about a significant water supply impact. Response to Comment G-2. Comment noted. The City of Oakland will require the project developer to contact the East Bay Municipal Utility District's New Business Office for the correct costs and conditions information. Response to Comment G-3. The ownership of the existing utility infrastructure after the Navy conveys title to the property has not been determined, therefore we cannot speculate about ownership and maintenance responsibilities. It is anticipated that the City of Oakland, consistent with the response to Comment G-2, will require the developer to comply with all applicable laws, regulations, and code provisions regulating pipeline improvements, including, but not limited to, pipeline and water meter installations and backflow prevention.

East Bay Municipal Utility District

Gary J. Munekawa, Naval Facilities Engineering Command November 20, 1996

W. ...

WASTEWATER SERVICE

The projected flow increase for the development under the various alternatives may be below the increase in the base wastewater flow for each sub-basin due to changes in land use or population sponsor should confirm with the City of Oakland Public Works Department that the sub-basin base flow increase allocation has not been allocated to other developments. If the wastewater increase allowance for the appropriate sub-basin, conveyance and treatment capacity for wet flow increase under the various alternatives were to exceed the City of Oakland's base flow The City of Oakland's Inflow/Infiltration (II) Correction Program allowed for a 20 percent base flow increase allowance for the sub-basins impacted by the development. The project weather flows may be adversely impacted.

G-4

In general, the DEIS/EIR should address the replacement or rehabilitation of the existing sanitary sewer collection system to reduce inflow and infiltration (III) to the sanitary sewer system. A provision to control or reduce the amount of III should also be addressed in the DEIS/EIR.

Q S

communications with the District related to water and wastewater planning and environmental The mailing list shown on Page 10-5 shows that two copies of this document were sent to the District. The addressees shown are Gary L. Hunt and John B. Lampe. In the future, all documentation should be sent to: 9-6

49

East Bay Municipal Utility District, M/S 701 Manager of Water Distribution Planning P. O. Box 24055

Oakland, CA 94623-1055

If the District can be of further assistance, or if you have any questions, please contact Prab Jog, Senior Civil Engineer, Water Service Planning, at (510) 287-1026.

Very truly yours,

Manager of Water Distribution Planning William R. Kirkpatrick

WRK: WWMcG:dd 9619. wтg PHDATAIWPIII PRIWMICH 96 19.14 NIG

to contact the City of Oakland's Department of Public Works for all approvals of basin base flow increase allocation that may be needed has not been allocated. As Response to Comment G-4. The City of Oakland will require the project developer Specifically, the project sponsor/applicant will be required to confirm that the subof March 1997, the sub-basin baseflow increase has not been allocated (Neary, the water distribution system when considering site-specific development proposals. 1997).

replacement and rehabilitation when reuse is implemented, as noted in response to Response to Comment G-5. The sanitary sewer collection system may require As noted in Section 3.12.2 of the EIS/EIR, a major upgrade was completed in 1988 Comment G-4. Infiltration/inflow was addressed in a utility assessment in 1985. that involved slip lining all six-inch, eight-inch, and 10-inch sewer lines.

Response to Comment G-6. Comment noted. Changes to the malling addresses have been made for subsequent mailings

Response to Comments

Gary J. Munekawa, Naval Facilities Engineering Command November 20, 1996 Page 3

Ms. Anu Raud, Environmental Review Section City of Oakland Community and Economic Development Agency 1330 Broadway Oakland. CA 94612 ö

November 26, 1996

Sin Function, Cv 14103 Tel: 413 543-4311 Fac: 415,513-4354

Falos Yerdes, CA 90274 Tel: 310/373-6457 Faz: 310/373-6408 2550 Via fejor

17842 Maro Road Sulte F120 Sullan Ct 9390 Tel: 408/663.047

Los Angeles, CA Pd: 310/642+1235

Cosu Mes. CA Ri: 714/662-6977

Sun Diego, C.s. Tel: 619/505-0202

Oakland Unified School District Re:

San Bruno, CA 94066-5006 900 Commodore Drive

U.S. Department of the Navy Engineering Field Activity West

VIA FEDERAL EXPRESS

Gary Munekawa Code 1852GM Oak Knoll Naval Medical Center Draft Environmental Impact Statement/Environmental Impact Report Our file 5390.1.001.6

Dear Mr. Munekawa:

Our firm represents the Oakland Unified School District with regard to the disposal Unified School District ("District") has the following comments concerning the impact of and reuse of the Naval Medical Center Oakland (NMCO) ("the Project"). The Oakland the NMCO preferred reuse alternative on the District's ability to house and educate students generated by the Project and the proposed mitigation

Summary

joint draft Environmental Impact Statement/Environmental Impact Report ("EIS/EIR") for the preferred reuse alternative will have significant and mitigable impacts on schools. (Vol The preferred reuse alternative, dubbed the "maximum capacity alternative" in the the Project, recommends among other things the development of 250 units of single- and multi-family housing and 300 multi-family residential units. The EIS/EIR concludes that I, § 4.2.3, tab. 4-4 at p. 4-14.)

mitigation measure would reduce this impact to insignificance. That mitigation measure The District agrees with this conclusion and, in fact, the District's own analysis indicates that the impact may be even greater than the impact identified in the EIS/EIR. The District disagrees emphatically, however, with the conclusion that the proposed

Oakland Unified School District Letter H

Response to Comments

as a Response to Comment H-1. The Draft EIS/EIR projected an addition of 805 significant but mitigable impact. However, the impact of the reuse alternatives on schools was reanalyzed, as detailed below, using (1) the student yield factor provided by the Oakland Unified School District (OUSD), and (2) a more realistic estimate of new households in the City of Oakland attributable to the reuse plan. The revised analysis indicates that only 261 additional students district-wide will be was the Maximum Capacity Alternative, which generated as a result of the reuse plan. students under

Moreover, the actual net increase of new students will be less than 261 because NMCO, when fully operational in 1994 generated 215 students (Theresa Hughes & estimate of students when NMCO was operational is based OUSD provided yield factor of 0.364 students per household. Table H-1 presents a on the number of households due to employment, the existing number of family housing units (82 units), and factors used to generate Table 4-4, including the comparison of the number of students generated when NMCO was fully operational to those generated by the reuse alternatives. In addition, the current R-30 zoning of theoretical maximum of about 1,140 single family residences (using the same NMCO would permit, without any legislative rezoning action by the city, methodology of the Residential Alternative and 5,000 square feet per lot). would generate about 415 new students. This Associates, 1994).

The revised student generation projections were calculated as follows. First, the student yield factor was reduced since the OUSD is now using a more precise yield This yield factor is roughly factor of 0.364 students per household (OUSD 1996),

Response to Comments Naval Medical Center Oakland Disposal and Reuse Final EISEIR

52

U.S. Department of the Navy Engineering Field Activity West November 26, 1996 Page 2

Gary Munekawa

places the burden of housing students generated by the Project on a district already stretched beyond its resources to accommodate its current students, class size reduction in the elementary schools, and anticipated further growth throughout the 25 years during which the Project's impact is measured.

Recommended Mitigation

The District therefore requests that the following mitigation measures be incorporated into the final EIS/EIR and adopted by the lead agencles for each, or that an alternative plan be adopted that will substantially reduce the impact on schools from the closure and reuse of the NMCO.

- A new permanent elementary school be provided for grades K-5, paid for by and on land provided by the federal government.
- Permanent additions be provided at the middle and high school levels to meet the needs of additional enrollment generated by the Project. If additional land is required at these grade levels, that additional land be acquired adjacent to the schools to accommodate the additional facilities.
- 3. Before the approval of any general plan amendment, specific plan, zone change, use permit, building permit, contract or other governmental authorization to participate in the reuse plan, each developer be required to enter into an agreement with the District to fully mitigate the impact on the District of new development.

Impact on the District of the NMCO Reuse Plan

The District's recently prepared developer fee justification study, copy attached, concludes that the District's enrollment currently exceeds its capacity and that enrollment will continue to exceed capacity into the 2005-06 school year. (Developer Fee Justification Study for Oakland Unified-School District, by Jack Schreder & Associates, Sept. 30, 1996, "Developer Fee Study," p. 1.) The District's capacity is currently 48,617 students in grades K-12. (Developer Fee Study, p. 1.) This capacity is determined by loading District-owned permanent classrooms at the District's class loading standards shown on Table 1.

H-3

increase in enrollment (261 students) is so small, especially when compared to the overall size at the district (0.5 percent) construction of additional classrooms is

the Reuse Plan, is there a potential for significant impacts.

speculative and remote. However, strictly as an accommodation to the OUSD, this

migitable.

if it were significant and

impact as

EIS/EIR will treat the

Only permanent classrooms are included in the capacity analysis as portable classrooms are considered an interim measure to house students. However, these loading standards have already been modified by implementation of the Class Size Reduction Act that further reduces school facility capacity.

(Alameda County) would move to the City of Oakland. The original analysis used However, this figure is seen as an unrealistic 3.68 student per household factor was based on a conventional single-family unit Second, the Draft EIS/EIR estimated that 100 percent of new employees moving to the region of influence 00 percent estimate to support a worst-case analysis of potential impacts from new worst-case estimate (ERA 1997) and has been reduced to 25 percent because an estimated 75 percent of jobholders in Oakland commute from elsewhere in Alameda County (ERA 1997). The new estimates are shown in the revised Table 4-This table is included in the Final EIS/EIR, along with text revising schools impacts under each of the alternatives in Sections 4.2.3, 4.2.4, 4.2.5, and 4.2.6. Under the Maximum Capacity Alternative, the addition of 261 students throughout the District, spread over the twenty-three year life of the reuse plan and assuming full project buildout in 2020, is not considered a significant impact that requires This is a maximum of 46 additional students under the Maximum Capacity Alternative when Only if physical changes occur as a result of half of the 0.68 factor used in the Draft BIS/BIR to estimate school impacts. mitigation because school overcrowding, per se, is a social impact. generation rate estimated for Northern California. employees moving into the region. compared to preclosure conditions.

Response to Comments
Naval Medical Center Oakland
Disposal and Reuse Final EISSEIR

Table H-1 Impact on School District Enrollments

	Fully Operational			lternatives		
	Hase (1993)		Mixed Use i Village			
Jobs in the ROI due to alternative	2,718	717	1,140	1,150	170	190
No. of households due to employment ¹ No. of households due to family housing units Gain in households due to alternative	510 <u>82</u> 592	134 <u>584</u> 718	214 <u>90</u> 304	216 0 216	32 357 389	36 600 636
Impact on the Oakland Unified School District ^{2,3} Total 1994 OUSD enrollment Percent of total 1994 School District enrollment	215 51,594 <1%	261 51,594 <1%	110 51,594 <1%	79 51,594 < 1%	141 51,594 <1%	231 51,594 <1%
Impact on schools in the Oak Knoll Study Area ²³ Total 1994 Oak Knoll Study Area enrollment Percent of total 1994 School District enrollment	30 2,786 1%	213 2,786 8%	33 2,786 1%	0 2,786 0%	130 2,786 5%	218 2,786 8%

Assume that 75 percent of the jobs would attract new residents in the ROI (Alameda County and City of Oaldand). Oaldand is assumed that 15 percent of the jobs would attract new residents in the ROI (Alameda County and City of Oaldand). Oaldand is assumed to the thousehold of the total county of the total one of new households due to employment. Estimates based on 0.364 students per household (OUSD 1996). Only the housing units proposed at the NMCO site are included in the NMCO of the county of the cou

Part 2 Store

	OUSD	Fully		-		Reside	ential
Estimated Impact on OUSD by	Yield	Operational	Maximum	Mixed-Use	Single Use		
Grade Groupings:	Factor	Base	Capacity	Village	Campus	Option 1	Option 2
Grades K-6	0.230	136	165	70	50	89	146
Grades 7-8	0.054	. 32	. 39	16	12	. 21	34
Grades 9-12	0.080	_47	57	· <u>24</u>	_17	31	51
Total students	0.364	215	261	110	79	141	231

1 The Single Use Campus Alternative would include student and/or guest facility

Response to Com Naval Medical Center Oaklan Disposal and Reuse Final EIS/EIR

improves utilization of existing ones. Even before consideration of the impact of class size

to K-5, 6-8, and 9-12. Reconfiguration does not, however, create new classrooms, it

To accommodate these variations, the District is in the process of reconfiguring its schools and the high schools were overcrowded by 2,824 students. (Developer Fee Study, p. 9.)

reduction, the District was over capacity by 3,835 students and would have exceeded its K-

12 capacity in the 2005-06 school year by 20,075 students. (Developer Fee Study, p. 9.)

badly needed deferred maintenance, and portable classrooms have been added to existing The District has not built any new facilities in several years, nor does it have funds to accommodate new students. Rather its available bond funds have been designated for

campuses to accommodate enrollment increases.

enrollment for 2005-96. At the time these statistics were compiled, the elementary schools

Table 2 indicates District-wide capacity, current enrollment, and projected

were overcrowded by 4,736 students; there was space for 3,725 middle school students;

Kindergarren (Double Session) Kindergarren (Single Session) 1-3 4-6 7-8 Standard 7-8 Laboratory 9-12 Laboratory Special Day Class	Max. Class Size
Kindergarren (Single Session) 1-3 4-6 7-8 Standard 7-8 Laboratory 9-12 Laboratory Special Day Class	
1-3 4-6 7-8 Standard 7-8 Laboratory 9-12 Standard 9-12 Laboratory Special Day Class	27
4-6 7-8 Standard 7-8 Laboratory 9-12 Standard 9-12 Laboratory Special Day Class	29
7-8 Standard 7-8 Laboratory 9-12 Sandard 9-12 Laboratory Special Day Class	31
7-8 Laboratory 9-12 Standard 9-12 Laboratory Special Day Class	. 33
9-12 Standard 9-12 Laboratory Special Day Class	. 56
9-12 Laboratory Special Day Class	. 28
Special Day Class	24
	12
Continuation High School	15

U.S. Department of the Navy Engineering Field Activity West

Gary Munekawa

November 26, 1996 Page 3

Table 1

To encourage solutions to the less than significant overcrowding issue, the following text was added to the mitigation measures in Sections 4.2.3, 4.2.4, 4.2.5, U.S. Department of the Navy Engineering Field Activity West

November 26, 1996

Page 4

Gary Munekawa

and 4.2.6:

Projected Enrollment 2005-06 40,940 14,300 9,550 64,790 Current Enrollment 1995-96 33,144 11,577 52,452 7,731 Table 2 Capacity 1995-96 11,456 28,408 48,617 8,753 Middle School High School Elementary 10-12 Total Ϋ́ 4.0

(Developer Fee Study, p. 9.)

5,490 additional housing units will be constructed in the District by the 2005-06 school The District's enrollment projections were calculated by using cohort data and year. (Developer Fee Study, p. 7.) This will be a significant cumulative impact on the Governments ("ABAG"). According to the ABAG housing unit projections for 1996, projected residential construction as identified by the Association of Bay Area District in addition to the reuse plan. In addition, with the District's implementation of the Class Size Reduction Program students generated by new residential development in the Project will have to be housed in (789 (Stats 1996, ch. 164, effective July 15, 1996)), the District's elementary schools will already seriously affected the District's ability to house elementary students. Extension of because enrollment will continue to increase as a result of new residential development, all capacity. By the 2005-06 school year, the District will also become more impacted at the middle and high school levels. Because the District's enrollment exceeds its capacity, and (Assem. Bill No. 1777 (Stats. 1996, ch. 163, effective July 15, 1996) and Assem. Bill No. he program to K-3 as already authorized and possibly beyond, will further impact school be over capacity. The reduction of class size to 20 students per class in first grade has new facilities.

EIS/EIR, § 4.2.3, p. 4-14.) This increase would represent a 1.6 percent increase over total alternative would generate approximately 805 students annually by the year 2020. (Draft for the Project would generate approximately 547 additional students in the three schools hat serve the Oak Knoll area. This represents an approximate 22.4 percent increase over The draft EIS/EIR documents that all schools serving the Project area were at or 1994 enrollment. Of this increase, the E1S/EIR projects that the housing units proposed near capacity as of 1994-95. The draft EIS/EIR concludes that the maximum capacity

Mitigation 1: Mitigation measures to reduce overcrowding to less than (1) reassigning students among district schools to account for changing population and schools; (3) more efficient use of underutilized and/or abandoned school facilities; (4) the addition of portable classrooms; and (5) the educe overcrowding, OUSD may have to expand existing schools or construct new schools. All of these measures would require varying ousing of students to less crowded schools. If these measures do not amounts of funding. If current sources of funding, including the City of Oakland school mitigation fees, increases in property tax and sales tax revenues, and increases in state funding are insufficient to pay for the cost of mitigating overcrowding, the OUSD would formulate and districts or annexation to a Community Facilities District; (3) sale of development; (2) the creation of special assessment or Mello Roos adjustments of school mitlgation fees on commercial and residential surplus OUSD property; and (4) any other funding mechanism avallable to the OUSD by state law or local ordinances, including hose measures identified in the OUSD's Developer Fee Justification the OUSD include: implement specific measures to raise additional funds. and expansion of significant levels would include the following: be considered by continuation 3 sources which may new development;

Response to Comments Naval Medical Center Oakland Disposal and Reuse Final EIS/EIR

Study (OUSD 1996)

U.S. Department of the Navy Engineering Field Activity West. November 26, 1996 Gary Munekawa

Page 5

concludes that the maximum capacity alternative "may result in school overcrowding" and that constitutes a significant mitigable impact. (Draft EIS/EIR, § 4.2.3, pp. 4-14 - 4-15.) 1994-95 enrollment in the Oak Knoll study area schools. Thus, the draft EIS/EIR

Proposed Mingation

The District will need facilities, staff, and programs to accommodate this additional student load. Even with state funding of staff and programs, mitigation of the Project's impact on District facilities is vital.

Table 3 indicates the percent and number by grade level of students generated by the Project, the cost of construction of school facilities per student, and the total cost to house students generated by the Project District-wide.

Table 3

	Percent of new	Number of	Cost of	Total cost to
	students	students	housing per	house students
_	generated by	generated by	student	generated by
	development	the Project		project, including land
Elementary	%09	483	\$27,858	\$13,455,414
Middle School	18%	145	\$36,666	\$ 5,316,570
High School	22%	177	\$43,991	\$ 7,786,407
Total	100%	805		\$26,558,391
District-wide				
(Developer Fee Study, p. 10.)	tudy, p. 10.)			

average cost of housing per student equals \$34,855 for new facilities; \$12,179 for reconstructed facilities; and \$5,000 for modular portable classroom facilities. In As indicated by Table 3, the cost of housing all students generated by the Project in new facilities would According to the District's recently prepared developer fee justification study, the be over \$26.5 million. The acquisition of land by the District for prospective school sites and expansion of

¹⁷These figures are based on state cost formulas and information from the Office of Public School Construction and State Department of Education.

However, the City of Oakland cannot "require each developer to enter into agreement with the OUSD for mutually agreeable mitigation of its project before he City approves any permit for development," as requested by the OUSD. This proportional to the impact. It is beyond the scope of a programmatic EIS/EIR to requirement is not legally mandated and is too restrictive and does not touch upon he necessity of first establishing a clear connection between the specific project and the resulting physical change in the environment. That is, there must be direct connection between the mitigation measure being requested by the OUSD and the development's physical impact. In addition, the mitigation should be roughly provide specific mitigation funding amounts or values.

generates no environmental impacts requiring construction of new schools or EIS/EIR The federal government's limited role of property disposal in this providing for the cost of housing students due to local reuse of the NMCO

Response to Comment H-2. Please see response to Comment H-1.

Response to Comment H-3. The district's lack of facilities and capacity are noted.

Response to Comment H-4. Estimates of impacts to schools have changed. Please of new schools or providing for the cost of housing students due to local reuse of disposal in this EIS/EIR generates no environmental impacts requiring construction see response to Comment H-1. The federal government's limited role of property the NMCO. The BIS/EIR can only suggest possible mitigation measures.

Naval Medical Center Oakland Disposal and Reuse Final EISEIR Response to Comments

H

55

Response to Comment H-5. The revised impact estimates amount to the addition of 165 students in grades K-6 (Maximum Capacity Alternative). Please see

response to Comment H-1.

Gary Munekawa

U.S. Department of the Navy Engineering Field Activity West November 26, 1996

Page 6

existing sites to accommodate the anticipated increase of 805 students is a necessary mitigation measure.

Table 4 indicates the number of acres for a school site at each grade level, the land cost for a new school, and the percent of that land cost attributable to students generated by the Project. Thus the total land cost to house students generated by the Project would be approximately \$16 million. The other approximately \$10.6 million cost of housing students is the cost of building the facilities.

Table 4

			THE RESERVE THE PROPERTY OF THE PERSON NAMED IN
	Acres for new	Land cost for new	Land cost for
	school per state	school at \$1 million	students generated
	regulations	per acre	by the Project
Elementary	10	\$10 million	\$8,050,000
Middle	20	\$20 million	\$3,222,222
High	40	\$40 million	\$4,720,000
Total			\$15,922,222

(Interview with Robert Dias, Assistant Superintendent, Facilities Planning and Management, Oakland Unified School District.)

Mitigation of Impact at the Elementary Level

Based upon the figures provided in the EIS/EIR, 483 students generated by the Project will require elementary facilities. An elementary school requires roughly 10 acres. In the Oak Knoll study area, the cost per acre is approximately \$1 million. Thus, the cost to acquire a site in the area is \$10 million, and the total cost to acquire the site and build a new elementary school in the Oak Knoll study area is estimated to be approximately \$16.8 million.

H-5

The infusion of 483 elementary students annually justifies the construction of a new elementary school. Additional students at the middle and high school levels justify additions to those existing schools. As outlined above, future impacts are anticipated at the elementary level when class-size reduction is expanded beyond the first grade to the K-3 levels. An additional impact will occur if class-size reduction is implemented at the 4-6 grade levels.

Response to Comments
Naval Medical Center Oakland
Disposal and Reuse Final EIS/EIR

H-4

Gary Munekawa

U.S. Department of the Navy Engineering Field Activity West November 26, 1996

November 26, 19 Page 7 If a new school is to be constructed, the most viable site would be within the boundaries of the NMCO. Any other site would involve additional negotiations with potential sellers, and if a negotiated purchase were not possible, eminent domain could be necessary.

H-5

Mitigation of Impact at Middle and High School Levels

Additions to the existing middle and high schools will only be feasible if land area on the existing sites allows for expansion. If not, additional land area will have to be acquired to provide for building additions to accommodate the increased student load. The use of portable classrooms is only a viable option for short-term facility needs. Portable classrooms are typically used as temporary buffers to accommodate the cyclical patterns of enrollment growth and decline. If long-term enrollment projections indicate a steady increase in enrollment, provision must be made for permanent facilities.

H-6

The Mitigation Measure in the EISEIR is Insufficient

Busing is not a viable option for the District because of its impact on the educational process, parent opposition, and cost. The District relies on AC Transit to provide public transportation for all its students, except special education students. Either through AC Transit, with its own, or with leased buses, the cost of busing is prohibitive, and the traffic and air impacts negative.

Public benefit conveyance of the land for an elementary school could reduce the cost to mitigate the impact of this project. However, the draft EIS/EIR sole mitigation measure makes construction of new school facilities a District responsibility. Adequate school facilities must be funded by the federal government as well as by the developers who will benefit by new development, rather than by existing residents and tax payers. In light of the restrictions in California Government Code sections 65995-65996 on requiring developers to mitigate the impact of new development on schools, the EIS/EIR should require as mitigation that all new development within the Project, residential and/or commercial, mitigate the Project's impact on schools. The EIS/EIR suggests this could be through imposition of financing, through districts formed pursuant to the Mello-Roos Community Facilities Act or other agreed financing mechanisms. Since these mitigations are impractical or impossible in Oakland, the District requests a more practical approach.

If a Mello-Roos district were formed, any voter approved tax levy would require two-thirds vote by the voters of the proposed Mello-Roos district. It is not likely that two-thirds of the voters in a Mello-Roos district in Oakland would vote to impose a special tax with regard to the Project. If a Mello-Roos district were established in an area in which fewer than twelve registered voters reside, the property owners may elect to establish a Mello-Roos district. Developers in the Oakland area have not, however, elected to do so

Response to Comment H-6. Comments noted. No response required.

Response to Comment H-7. The EIS/EIR can only suggest possible mitigation measures. The federal government's limited role of property disposal in this EIS/EIR generates no environmental impacts requiring construction of new schools or providing for the cost of housing students due to local reuse of the NMCO.

Response to Comments
Naval Medical Center Oakland
Disposal and Reuse Final EIS/EIR

H-7

57

Oakland Unified School District

U.S. Department of the Navy Engineering Field Activity West Gary Munekawa

November 26, 1996 Page 8 to date. (Developer Fee Study, p. 27.) Therefore, the formation of a Mello-Roos district may not be feasible to mitigate the impact of the reuse plan.

purposes of purchasing real property or constructing or purchasing buildings or equipment "of a permanent nature." Because GO bonds are secured by an ad valorem tax levied on all General obligation bonds ("GO bonds") may be issued by any school district for the ikelihood of passage of a bond for new facilities to house children from new developments November 1994, the District passed a GO bond totaling \$169,730,000. This bond money however, was earmarked for special uses: "to reduce dangers from earthquakes and other taxable property in the District, their issuance is subject to two-thirds voter approval. In hazards; upgrade vocational, library, science, and computer classrooms; provide disabled Developer Fee Study, p. 28.) This bond money is restricted to these purposes and the iccess; and repair inadequate lighting, heating, plumbing, and electrical systems." would be low even if the District's bonding capacity were adequate.

The District's general funds finance the District's instructional program. The District has no unencumbered funds that could be used to construct new facilities or reconstruct existing facilities. (Developer Fee Study, p. 28.) In addition, state lottery funds cannot be utilized for acquisition of real property, construction of facilities, financing research, or any other noninstructional purpose. (Gov. Code, § 8880.5, Developer Fee Study, p. 29.)

before the City approves any permit for development of the Project. If this mitigation were to supplement mitigation by the federal government, it could be workable for both parties. coning for the NMCO is R 30, medium densiry residential, approval of the reuse plan and Thus a more realistic mitigation measure would be to require that each developer enter into an agreement with the District for mutually agreeable mitigation of its project District v. County of Riverside (1991) 228 Cal. App. 3d 1212.) Because the underlying EIS/EIR may be the last legislative act before the development of the area. Therefore California case law supports this type of mitigation. (Murriera Valley Unified School idoption of appropriate and sufficient mitigation measures is essential.

Conclusion

agencies for each, or that an alternative plan be adopted that will substantially reduce the On the basis of the foregoing, the District requests either that the following mitigation measures be incorporated into the final EIS/EIR and adopted by the lead mpact on schools from the closure and reuse of the NMCO A new permanent elementary school be provided for grades K-5, paid for by and on land provided by the federal government.

Response to Comment H-8. Please see response to Comments H-1 and H-7.

Response to Comment H-9. Please see responses to Comments H-1 and H-7.

Disposal and Reuse Final EIS/EIR

Gary Munekawa U.S. Department of the Navy Engineering Field Activity West November 26, 1996 Page 9

- Permanent additions be provided at the middle and high school levels to
 meet the needs of additional enrollment generated by the Project. If additional land is
 required at these grade levels, that additional land be acquired adjacent to the schools to
 accommodate the additional facilities.
- change, use permit, building permit, contract or other governmental authorization to participate in the reuse plan, each developer be required to enter into an agreement with the District to fully mitigate the impact on the District of new development. Before the approval of any general plan amendment, specific plan, zone

Please contact us if you have any questions regarding the foregoing or would like to discuss this matter further.

Very truly yours,

BREON, O'DONNELL, MILLIR, BROWN & DANNIS

Marilyn Cleveland

Guy A. Bryarft

MJC/GAB/jra នូ

Jean Quan Sylvester Hodges Carolyn Getridge

Edgar Rakestraw, Jr. Steven Royston

Vemon Hal Robert Dias

6-H

COMMENTS BY ROBERT DIAS, ASSISTANT SUPERINTENDENT FOR FACILITIES PLANNING AND MANAGEMENT ON BEHALF OF THE OAKLAND UNIFIED SCHOOL DISTRICT Thank you for the opportunity to address the impact of this project on the District.

including the preferred reuse alternative selected by OBRA, identifies the impact of the analysis and, in fact, the District's own analysis indicates that this impact may be even preferred reuse plan on schools as a significant mitigable impact. We agree with this As you know, the draft combined environmental impact statement and environmental impact report ("EIS/EIR") for the disposal and reuse of the NMCO, greater than the impact identified in the EIS/EIR

Ξ

size reduction in the elementary schools, and anticipated further growth throughout the 25 proposed mitigation measure would reduce this impact to insignificance. That mitigation measure places the burden of housing students generated by this project on the District, a District already stretched beyond its resources to accommodate its current students, class years during which the impact is measured. To mitigate these impacts, the District has The District disagrees emphatically, however, with the conclusion that already reconfigured all of its schools and instituted year-round schooling at every feasible school. 7

I-2

- The District respectfully requests the replacement of the proposed inadequate mitigation measure with the following mitigation measures: เว่
- A new permanent elementary school be provided for grades K-5, paid for by and on land conveyed to the District by the federal government
- Permanent additions be provided at the middle and high schools affected to

Oakland Unified School District (script for 11/13/96 public hearing)

Response to Comments

Response to Comment I-1. The Draft EIS/EIR projected an addition of 805 students under the Maximum Capacity Alternative, which was identified as a significant but mitigable impact. However, the impact of the reuse alternatives on schools was reanalyzed, as detailed below, using (1) the student yield factor provided by the Oakland Unified School District (OUSD), and (2) a more realistic estimate of new households in the City of Oakland attributable to the reuse plan. The revised analysis indicates that only 261 additional students district-wide will be. generated as a result of the reuse plan.

NMCO, when fully operational in 1994 generated 215 students (Theresa Hughes & Associates, 1994), This estimate of students when NMCO was operational is based Moreover, the actual net increase of new students will be less than 261 because on the number of households due to employment, the existing number of family nousing units (82 units), and factors used to generate Table 4-4, including the OUSD provided yield factor of 0.364 students per household. Table H-1 (see response to Comment H-1) presents a comparison of the number of students generated when NMCO was fully operational to those generated by the reuse alternatives. In addition, the current R-30 zoning of NMCO would permit, without any legislative rezoning action by the city, a theoretical maximum of about 1,140 single family residences (using the same methodology of the Residential Alternative and 5,000 square feet per lot). This would generate about 415 new students.

The revised student generation projections were calculated as follows. First, the student yield factor was reduced since the OUSD is now using a more precise yield

Response to Comments
Naval Medical Center Oakland
Disposal and Reuse Final EISEIR



house the number of students estimated to be generated by the reuse plan, paid for by the grade levels, that additional land be provided adjacent to the schools to accommodate the federal government. If additional land is required in order to expand facilities at these additional facilities, also paid for by the federal government <u>1-7</u>

- Before the approval of any contract or permit to participate in the reuse plan, each developer be required to enter into an agreement with the District to fully mingate the impact on the District of new development pursuant to the reuse plan.
- schools. According to the draft EIS/EIR, all schools serving the NMCO area were at or during the 1995-1996 school year. Within ten years, enrollment is expected to increase development of 550 units of single- and multi-family housing. The EIS/EIR concludes that the maximum capacity alternative will have significant and mitigable impacts on by 23.5 percent without the NMCO reuse plan. Enrollment will then exceed current near capacity as of 1995. In fact, the entire District was at 97.5 percent of capacity alternative," for development of the NMCO recommends, among other things, the The preferred reuse alternative, dubbed the "maximum capacity capacity by over 20 percent.
- generate approximately 805 students annually by the year 2020. The housing proposed in The draft EIS/EIR concludes that the maximum capacity alternative would the NMCO reuse plan would generate an approximate 22,4 percent increase over 1994 enrollment in the Oak Knoll study area schools. Thus, the NMCO reuse plan creates a significant cumulative impact.

7

The District will need facilities, staff, and programs to accommodate the cumulative District-wide impact of the students generated by this reuse plan, other

Oakland Unified School District (script for 11/13/96 public hearing)

Party and

X.

A Comment of

Springer selected

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This yield factor is roughly half of the 0.68 factor used in the Draft EIS/EIR to estimate school impacts. The 3.68 student per household factor was based on a conventional single-family unit generation rate estimated for Northern California. Second, the Draft EIS/EIR estimated that 100 percent of new employees moving to the region of influence (Alameda County) would move to the City of Oakland. Third, the original analysis used 100 percent estimate to support a worst-case analysis of potential impacts from new employees moving into the region. However, this figure is seen as an unrealistic worst-case estimate (ERA 1997) and has been reduced to 25 percent occause an estimated 75 percent of jobholders in Oakland commute from elsewhere in Alameda County (ERA 1997). The new estimates are shown in the revised Table 4-4. This table is included in the Final EIS/EIR, along with text revising schools mpacts under each of the alternatives in Sections 4.2.3, 4.2.4, 4.2.5, and 4.2.6. Under the Maximum Capacity Alternative, the addition of 261 students throughout he District, spread over the twenty-three year life of the reuse plan and assuming full project buildout in 2020, is not considered a significant impact that requires mitigation because school overcrowding, per se, is a social impact. This is a maximum of 46 additional students under the Maximum Capacity Alternative when to preclosure conditions. Only if physical changes occur as a result of the Reuse Plan, is there a potential for significant impacts. Here, because the increase in enrollment (261 students) is so small, especially when compared to the overall size at the district (0.5 percent) construction of additional classrooms is speculative and remote. However, strictly as an accommodation to the OUSD, this EIS/EIR will treat the impact as if it were significant and migitable factor of 0.364 students per household (OUSD 1996). compared

overcrowding issue, the encourage solutions to the less than significant ည

1-3

supports the District's operational costs, no funding exists for the provision of classrooms District growth and expanding class-size reduction. While state and local funding and related facilities to house these anticipated students. 1.5

financial support for additional school facilities to accommodate students generated by replaced by mitigation measures providing land for a new elementary school site and The District therefore requests that the stated mitigation measure be this project and other District growth.

9

additional 483 students will require elementary facilities, 145 will require middle school District's recently prepared development fee justification study, after reuse, annually an According to the distribution of students by grade level provided by the facilities, and 177 will require high school facilities.

1-7

62

- For each new student generated by this reuse plan, the District's recently generated by the reuse plan in new facilities appropriate to their grade level would be approximately \$34.9 thousand for new facilities. The cost of housing all students prepared development fee justification study projects the cost of housing to be \$29.9 million. 8-
- approximately \$12 thousand, and for modular portable classroom facilities the cost would needs. Portable classrooms are temporary buffers to accommodate the cyclical pattems be approximately \$5,000 per student, not including the cost of land on which to locate. those portable classrooms and of multipurpose rooms and other adjunct facilities. The of enrollment, growth and decline. Since long-term enrollment projections indicate a use of portable classrooms is only a viable option as a solution for short-term facility For reconstructed facilities, the per student cost of housing would be

1-9

Oakland Unified School District (script for 11/13/96 public hearing) Letter 1

following text was added to the mitigation measures in Sections 4.2.3, 4.2.4, 4.2.5,

ax revenues, and increases in state funding are insufficient to pay for Mitigation 1: Mitigation measures to reduce overcrowding to less than educe overcrowding, OUSD may have to expand existing schools or (1) reassigning students among district schools to account for changing population and new development; (2) continuation and expansion of year-round schools; (3) more efficient use of underutilized and/or abandoned construct new schools. All of these measures would require varying school facilities; (4) the addition of portable classrooms; and (5) the ousing of students to less crowded schools. If these measures do not amounts of funding. If current sources of funding, including the City of Oakland school mitigation fees, increases in property tax and sales the cost of mitigating overcrowding, the OUSD would formulate and implement specific measures to raise additional funds. Funding adjustments of school mitigation fees on commercial and residential development; (2) the creation of special assessment or Mello Roos districts or annexation to a Community Facilities District; (3) sale of funding mechanism those measures identified in the OUSD's Developer Fee Justification sources which may be considered by the OUSD include: available to the OUSD by state law or local ordinances, significant levels would include the following: any other property; and (4) Study (OUSD 1996). surplus OUSD

I.9 | steady increase in enrollment, provisions must be made for permanent facilities

- The elementary school students generated by the reuse plan are sufficient to elementary school requires 10 acres. The cost to obtain a site and build a new elementary å require an entire new elementary school, one for which the District has no funding. school in or near the Oak Knoll study area is estimated to be \$16.7 million 11.
- beyond the first grade level, anticipated impact of the reuse plan at the elementary grade This would accommodate only sixty percent of the students generated by $|{
 m I-II}|$ appropriate grade levels. When class-size reduction in the District is implemented the reuse plan, with the secondary students requiring additional facilities at the level will be even greater.
- I-12 of the NMCO. Because of the absence of undeveloped space in Oakland, any other site The most viable site for a new elementary school is within the boundaries could involve expensive negotiations and even eminent domain.

63

- additions to the existing schools at those levels. Additions to those schools will only be feasible if space on the existing sites allows for expansion. If not, additional space near these facilities will have to be acquired to accommodate the increased student load. Additional students at the middle or high school levels will require I-13
- Busing is not a viable option for the District because of its impact on the educational process of students in the District, the opposition of parents and the cost. 15. I-14
- a District responsibility. Since the City will want to expedite the economic advantages of construction of new school facilities to accommodate students generated by the reuse plan proceeding with the reuse plan when a developer or developers are selected, it is The mitigation measure in the draft EIS/EIR makes financing and 16. I-15

Oakland Unified School District (script for 11/13/96 public hearing) Letter I

A CANADA

Section 2013

However, the City of Oakland cannot "require each developer to enter into agreement with the OUSD for mutually agreeable mitigation of its project before the City approves any permit for development," as requested by the OUSD. This requirement is not legally mandated and is too restrictive and does not touch upon the necessity of first establishing a clear connection between the specific project and the resulting physical change in the environment. That is, there must be direct connection between the mitigation measure being requested by the OUSD and the proportional to the impact. It is beyond the scope of a programmatic EIS/EIR to In addition, the mitigation should be roughly provide specific mitigation funding amounts or values. development's physical impact.

the most feasible measures to implement. The federal government's limited role of Response to Comment I-2. Please see response to Comment I-1. The EIS/EIR can only suggest possible mitigation measures. The OUSD would need to determine property disposal in this EIS/EIR generates no environmental impacts requiring construction of new schools or providing for the cost of housing students due to local reuse of the NMCO.

Response to Comment I-3. Please see response to Comment I-1,

Response to Comment I-4. Please see response to Comment I-1.

Response to Comment I-5. Please see response to Comment I-1.

Response to Comment I-6. The EIS/EIR can only suggest possible mitigation The OUSD would need to determine the most feasible measures to implement. The federal government's limited role of property disposal in this measures.

sufficiently. In light of California case law requiring developers to mingate the impact of new development on school facilities, the District urgently requests that the City Council important that the City Council make the commitment now to mitigate this reuse plan require as a mitigation measure that a prerequisite to all new development, residential and/or commercial, be that the District and developers enter into agreements to fully mitigate the remaining impact of new development on school facilities. I-15

The District also requests that financing of construction and the conveyance of land to the District for an elementary school within the residential portion of the reuse plan area be added as a mitigation measure. It also requests that financing of additions at the middle and high school levels be added. These mitigation measures must be adopted responsibility of the City as lead agency for the EIR. The District may not have another opportunity to present its needs to the City and have them imposed on new developers. responsibility of the federal government and must be included in the EIS. It is also a now in order to accommodate students generated by the reuse plan. This is a 17. 1-16 1-17 1-18

64

Thank you for your attention to this urgent matter.

O. WP.CLIENTS 6390/10016SCRUPTS, WPD

Oakland Unified School District (script for 11/13/96 public hearing) Letter I

EIS/EIR generates no environmental impacts requiring construction of new schools or providing for the cost of housing students due to local reuse of the NMCO. Response to Comment I-7. The revised impact estimates add 165 students in grades K-6 and 261 students for all grades (Maximum Capacity Alternative)(OUSD Estimates of impacts to schools have changed. Please see response to Comment I-1. The federal government's limited role of property disposal in this EIS/EIR generates no environmental impacts requiring construction of new schools or providing for the cost of housing students due to local reuse of the NMCO. The EIS/EIR can only suggest possible mitigation measures. The OUSD would need to determine the most feasible measures to implement, which may or may not include school construction 1996)

Please see response to Comment I-1 and revised Table 4-4.

Response to Comment I-8. Comment noted. Please refer to mitigation regarding funding described in Response to Comment I-1. It is beyond the scope of a programmatic EIS/EIR such as this to provide specific mitigation funding amounts. Response to Comment I-9. Comment noted. Please refer to mitigation regarding funding described in Response to Comment I-1. It is beyond the scope of a programmatic EIS/EIR such as this to provide specific mitigation funding amounts.

funding described in Response to Comment I-1. It is beyond the scope of a Response to Comment I-10. Comment noted. Please refer to mitigation regarding programmatic EIS/EIR such as this to provide specific mitigation funding amounts.

Response to Comment I-11. Comment noted. Please refer to mitigation regarding funding described in Response to Comment I-1. It is beyond the scope of a programmatic EIS/EIR such as this to provide specific mitigation funding amounts.

Response to Comment I-12. Comment noted. Please refer to mitigation regarding funding described in Response to Comment I-1. It is beyond the scope of a programmatic EIS/EIR such as this to provide specific mitigation funding amounts.

Response to Comment I-13. Comment noted. Please refer to mitigation regarding funding described in Response to Comment I-1. It is beyond the scope of a programmatic EIS/EIR such as this to provide specific mitigation funding amounts.

Response to Comment I-14. The EIS/EIR can only suggest possible mitigation measures. The OUSD would need to determine the most feasible measures to implement.

Response to Comment I-15. The City of Oakland cannot "require each developer to enter into agreement with the OUSD for mutually agreeable mitigation of its project before the City approves any permit for development," as requested by the OUSD. This requirement is not legally mandated and is too restrictive and does not touch upon the necessity of first establishing a clear connection between the specific project and its impact on the school district. That is, there must be direct connection between the mitigation measure being requested by the OUSD and the development's impact. In addition, the mitigation should be roughly proportional to the impact. It is beyond the scope of a programmatic EIS/EIR to provide specific mitigation funding amounts or values.

Response to Comments
Naval Medical Center Oakland
Disposal and Reuse Final E/S/E/R

into agreement with the OUSD for mutually agreeable mitigation of its project This requirement is not legally mandated and is too restrictive and does not touch upon the necessity of first establishing a clear connection between the specific That is, there must be direct connection between the mitigation measure being requested by the OUSD and the mitigation funding amounts or values. The federal government's limited role of Response to Comment I-16. The City cannot "require that each developer enter building schools or provides for the cost of housing students due to local reuse of before the City approves any permit for development," as requested by the OUSD. development's impact. In addition, the mitigation should be roughly proportional to the impact. It is beyond the scope of a programmatic EIS/EIR to provide specific property disposal in this BIS/BIR generates no environmental impacts requiring project and its impact on the school district. the NMCO.

of new schools or providing for the cost of housing students due to local reuse of disposal in this EIS/EIR generates no environmental impacts requiring construction Response to Comment I-17. The federal government's limited role of property the NMCO. Response to Comment I-18. Comment noted. The City will make all reasonable efforts to cooperatively address the school overcrowding issue.

Naval Medical Center Oakland Disposal and Reuse Final EIS/EIR

November 35, 1996

Honel Other

Ann Burns, CA 94266-5236 and 1852 64, Ame

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Golden Gate Audubon Society Letter J

Response to Comments

Response to Comment J-1. The City of Oakland is sensitive to conserving habitat values at the NMCO site. Several mitigation measures and permanent habitat protections have been incorporated as conditions of approval for any project ultimately approved at the NMCO site. The 50-foot wide restricted access buffer zone surrounding Rifle Range Creek is intended to be a permanent zone of protection through reuse plan implementation and to be incorporated into later specific plan development proposals. The second sentence of each "Mitigation 1" in Sections 4.6.3, 4.6.4, 4.6.5, and 4.6.6 was modified as follows:

Establish a permanent 50-foot wide restricted access buffer zone to protect the Rifle Range Creek corridor.

Sections 4.6.3, 4.6.4, 4.6.5, and 4.6.6 of the EIS/EIR were revised as follows:

surrounding riparian corridor that includes ongoing maintenance of A qualified biologist shall develop a detailed habitat restoration plan for restoration activities in Rifle Range Creek, its tributaries, and the this buffer zone. The Navy has no plans to remove trees under caretaker status. This is not significant for the purposes of NEPA because it addresses single trees not exceeding NEPA significance thresholds. Mitigation measures required under CEQA for any reasonably foreseeable tree removal would require permits for any trees to be removed during reuse.

REPRESENTING APPROXIMATELY 6500 HOUSEHOLDS

Houline Number (510) 464-1134

4400 Kellet Ave., Suite 260, Box 102, Ozkland, CA 94605

uoyah Heighis uoyah Highlands uoyah Hiilu uoyah Hiilu/Oak Knoll

Affiliations: Chabet Park Erates Hill Ares Coalition

Tresnuren Rodger Shepherd

teering Committees (Ichael Beeta ee Ann Smith ?

November 8, 1996

Naval Facilities Engineering Command Engineering Field Activity West Commanding Officer

Attention: Mr. Gary J. Munekawa, Environmental Planning Branch Code 1852GM

900 Commodore Drive

San Bruno, CA 94066-5006

Dear Sir.

In accordance with your announcement of 10 October 1996 we are submitting the following written comments on the Draft EIS/EIR for the disposal and reuse of the Naval Medical Center Oakland (NIMCO).

EIS/EIR on the comprehensiveness and organization of the report. This was a massive Before submitting our comments, we wish to commend the preparers of the Draft undertaking and many aspects were addressed very fairly and effectively, However, in conducting such a complex study and drafting such a detailed report there are bound to be errors of commission and omission. The current opportunity for comment recognizes that reality, and this letter addresses such problems.

sermanent demolition of the 3 officer houses, and that NO building ever take place on OBRA preferred open space (page 214 of report). The CAG, OBRA, the Town Hall access to the existing officers housing on the ridgeline, as a result of the OBRA vote on March 28, 1996. The EIS/EIR should address this potential impact and consider Prior to the March 28 vote, OBRA voted "no building on the ridgeline" and that the greed unanimously that no buildings should be on the ridgeline. The EIS/EIR gress he impression that the neighbors in the surrounding vicinity approved this ridgeline the impact on views and the Leona Quarry development in connection to the site. The EIS/EIR fails to recognize United Indian Nations (UIN) and possible others' meetings, Oak Knoll Neighbors, and Oak Knoll Neighbors community meetings housing, when in fact, it did not. Oak Knoll Neighbors therefore requests the

Oak Knoll Neighbors Letter K

Response to Comments

considered for development by OBRA in December 1995 but was not included in Response to Comment K-1. Page 2-12 of the EIS/EIR states that "The Maximum These residences were included only to provide analysis of the greatest density of development that is reasonably foreseeable during reuse. This residential area was the August 1996 NMCO Reuse Plan:" Nowhere in the EIS/EIR is it expressed or Capacity Alternative also includes residences in the hills along Keller Avenue. implied that the neighbors in the surrounding vicinity approved this ridgeline housing. Demolition request noted.

Nothing in the UIN proposal mentions access to the ridgeline housing. Access is The United Indians Nation (UIN) is briefly described in Volume I, Section 2.3.2. therefore not considered a potential impact.

NMCO site, the applicant proposing such development would be required to Volume I, Section 4.5 analyzes aesthetics and scenic resources impacts. If any ridgeline housing becomes part of subsequent development proposals for the analyze its impact consistent with CEQA

and the second

2. The Neighbors in the Immediate Vicinity Did NOT Agree to the Plan.
The EIS/EIR fails to recognize the immediate vicinity's response to the maximum density plan, fails to respond to the finalized maximum density plan and the immediate community's rejection of it. It also fails to recognize failures in the community input process for the plan. In fact, community input is vital. According to the middle paragraph on page 3-10, City policy requires that:

"In considering those land use questions which most affect a particular neighborhood or other area, the City will give substantial weight to the opinions of the local citizens."

Specifically, the neighbors in the immediate vicinity volced several objections to the proposed Public Benefit Conveyance to Seneca (to be discussed further under item number 4).

Immediate Vicinity Response. Over 1100 letters and signed petitions from residents living in the immediate vicinity (within 2 miles) were not in flavor of the final plan. Also, a lawsuit was filed by neighbors in the vicinity in response to a specific portion of the plan; this lawsuit in now on appeal. Almost all the CAG members who represented the neighbors in the immediate vicinity were unanimously and consistently vocal in their position against specific portions of the final plan.

The Community input process was flavied. The Community Advisory Group was formed to provide the community input for the plan. There was complete agreement regarding 80% of the plan; however there was considerable and consistent disagreement about 20% of the plan and there were mmerous procedural failures.

Here are some of the problems identified with the planning process.

- (A) There was never a chair of the committee, and even when the process ended, there was still no chairperson, no procedures, no voting process.
- (B) The entire CAG committee never voted on the final plan. In fact, immediate vicinity (neighborhood) members of CAG were prevented from voting—even though they were assured for more than a year that they would be able to do so.
- (C) The CAG committee never reached consensus. A majority of the voting members of the CAG spoke out against a portion of the plan.
- (D) One of the subcommittees (Housing & Homeless)—on which a majority of neighbors in the immediate vicinity were represented—was not called, by OBRA staff, to meet for 4 months. Another subcommittee, Employment and Social Impacts (on which there were no neighbors from the immediate vicinity), invited two of the PBC applicants—Seneca and the United Indian

associations in the immediate area surrounding NMCO played a major role in Response to Comment K-2. The City of Oakland has given substantial weight to the opinions of the local citizens. Section 2.1.1 of the EIS/EIR provides a thorough Section 2.1 of the BIS/EIR, in neighborhood developing the alternatives. Participating neighborhoods adjacent to or near NMCO are shown in Figure 2-1. An umbrella group for the neighborhoods, Oak Knoll Neighbors, is represented on OBRA's subcommittees and on the Community "The states that review of the OBRA reuse planning process. OBRA, meetings held by the Action Group." 2 referring

The purpose of this EIS/EIR is to evaluate the environmental impacts associated with reuse. In meeting that purpose, background information regarding the OBRA about the process that was used in developing the alternatives. This background The reuse planning process has been provided so that decision-makers were informed role in Throughout the reuse in the mmediate vicinity response has been considered throughout the procedurally by correct process. The City of Oakland does not consider the Seneca Center or UIN proposals as having unfair advantages. All proposals were evaluated using the same criteria. Consensus, which refers to a "general agreement," or a judgment alternatives in direct response to comments by the Oak Knoll Nelghbors. several changes were made to the land use mixes information indicates that the Oak Knoll Neighbors had a substantial developing the alternatives consistent with City policy. arrived at by most of those concerned, was reached planning process,

Response to Comments
Naval Medical Center Oakland
Disposal and Reuse Final EIS/EII

K-2

Response to Comment K-3. Comment noted. References to demographic estimates and concerns associated with the analysis are addressed in the responses Comment noted. Corrections made in response to

Comment K-4 clarify the difference in proportion of Caucasians.

Response to Comment K-5.

Response to Comment K-4. These corrections have been made.

to comments K-4, K-5, and K-6.

process while ignoring the other 12 PBC applicants. This gave Seneca and Nations-into a special meeting and then assisted them in the approval the United Indian Nations an unfair advantage.

(E) A paid, OBRA consultant, Henry Gardner, was brought in at the end to facilitate the process, but he never called for a vote on the plan although he and he never called for vote to reach a majority opinion. Finally, neither he claimed that the process would be by consensus. There was no consensus, nor any OBRA staff addressed or publicly discussed the process flaws, pointed out by Oak Knoll Neighbors in several public meetings.

K-2

(F) The section 6 portion of the PBC application was never reviewed by CAG

addressing this requirement in Section 3.2.5 by providing demographic information on In Section 5.6 the EIS/EIR offers an appraisal of the impact of the Maximim Capacity the ethnicity and poverty status for the City of Oakland and the Oak Knoll study area. Section 3.2.5 begins by stating the obligation to address the relative impacts on any disproportionate share of burden of adverse impacts of Federal action on these groups. (Note that the operative word is "or", not "and".) The HIS/HIR begins Alternative on ethnic minorities and the poor. Unfortunately both sections are rederal actions on minority or low-income populations to avoid placing a seriously flawed.

In Section 3.2.5 the third paragraph begins as follows:

"Based on the 1990 U.S. Census, 43.9 percent of the City of Oakland's population is African American, 32.5 percent is Caucasian, 14.8 percent is Asian and Pacific Islander,

The next paragraph begins as follows:

K-3

" In the Oak Knoll study area the ethnic composition is different in the following respects: 34.3 percent of the area's population is Caucasian, instead of 15.4 (sic) percent city wide, and 9.6 percent is Asian or Pacific Islander, instead of 18.1 (sic) percent city wide. African Americans make up 55.4 percent of the Oak Knoll study area... There are three serious problems (detailed below) with this paragraph that compares the Oak Knoll study area with the City. (A) The underlined numbers are incorrect. Clearly they were copied from the wrong column in Table 3-9. The correct numbers are 32.5 and 14.8.

X

K-5

(B) By moving the reference to the African American percentage of the Oak Knoll study area population to the second sentence, the paragraph tends to call

Page 3

70

attention to an inaccurate difference in the proportion of Caucasians (34.3 vs. 15.4) when the real difference is trivial (34.3 vs. 32.5 percent).

K-5

(C) By moving the reference to the African American percentage of the Oak Knoll study area population to the second sentence, the paragraph suggests that the proportion of African Americans in the Oak Knoll study area is not significantly different from the rest of the city. Clearly this is false. The proportion of African Americans in the Oak Knoll study area is 55.4 percent which is much higher than the proportion in the City of Oakland (i.e. 43.9 percent). Thus the Oak Knoll area is more predominantly African American than the city as a whole.

Thus Section 3.2.5 fails to make an important point, i.e. that a recognized ethnic minority, specifically African Americans, are over represented in the Oak Knoll study area and that any adverse impacts of any plan would indeed place a dispreportionate share of the burden of such adverse impacts on a recognized ethnic minority.

K P Before proceeding to Section 5.6 it is important to note that the second paragraph of Section 3.2.5 correctly identifies both The City of Oakland and the Oak Knoll study area as the relevant Region of Impact (ROI) for analyzing issues of environmental justice. In the corresponding paragraph of Section 5.6 (page 5-26) the recognition of the Oak Knoll study area as a ROI is less explicit, but is clearly implied.

K-7

71

Unfortunately, this perspective is not maintained in the subsequent parts of Section 5.6. Subsection 5.6.1 specifically addresses the impact on the City of Oakland, however there is no corresponding section on the impact on minorities within the other recognized ROI, i.e., the Oak Knoll study area. The study improperty focuses ONLY on the citywide ROI, but NOT on the relevant Oak Knoll study area. Section 5.6 concludes (page 5-27) that "...no significant impact was identified in the EIS/EIR that could adversely and disproportionately affect low-income and minority populations. There should be a separate subsection that (a) addresses the other ROI, i.e. the Oak Knoll study area and (b) admovtedges that in the Oak Knoll study area a recognized ethnic minority would assume a disproportionate burden of specific adverse impacts.

×.

Note that the conclusion quoted above uses the operative word "and". Although Section 3.2.5 opens with a statement that indicates that the issues of ethnic minority status and poverty are separate, the discussion on page 5-27 leads the reader to the conclusion that these two issues must be considered jointly. This clearly not true. By hiring a solvent African American, an employer gets the same credit toward compliance with ethnic minority employment goals as he or she gets by hiring a poor one. In the case of environmental impact, a home-owning African American is entitled to just as much ethnic minority protection as an impoverished one.

K-9

Therefore, we argue that the Sections 3.2.5 and 5.6 should acknowledge any adverse impact would place a disproportionate share of burden on a recognized ethnic minority, specifically African Americans, in one of the ROIs. Furthermore, Section

K-10

Response to Comment K-6. The analysis of Environmental Justice issues is a federal requirement accompanying NEPA analysis of federal actions. Analysis of direct impacts related to issues of environmental justice are therefore limited to Navy property disposal and the Navy No Action Alternative, but indirect impacts extend to the environmental impacts of projects initiated by those taking title to the property.

Section 3.2.5 has been revised to more clearly state the environmental analysis requirements of NEPA in relation to the requirements of the Executive Order on Federal Actions to Address Environmental Justice in Minority and Low-Income Populations.

n Federal Actions to Address Environmental Justice in Minority and agency shall analyze the environmental effects, including human actions including On February 11, 1994, President Clinton issued the Executive Order Low-Income Populations. This order requires that "Each Federal effects on minority communities and low-income communities, when the National Environmental Policy Act of 1969 (NEPA), 42 U.S.C. § 4321 et seq. Mitigation measures outlined or analyzed in an environmental assessment, environmental impact statement, or record of decision, whenever feasible, (emphasis added) should address significant and adverse environmental effects of proposed Federal actions on minority þ. nealth, economic and social effects, of Federal such analysis is required (emphasis added), communities and low-income communities. Section 5.6 has been revised to more clearly state the environmental analysis

Response to Comments
Naval Medical Center Oakland
Disposal and Reuse Final EIS/EIR

equirements of NEPA is relation to the requirements of the Executive Order on rederal Actions to Address Environmental Justice in Minority and Low-Income

opulations. The following text has been inserted in Section 5.6:

emissions. Furthermore, in view of the pivotal controversy over Seneca, Sections 3, 2, 5 American ethnic majority in the Oak Knoll study area would be particularly impacted 5.6 should recognize that such adverse impacts include at least one that is admittedly and 5.6 should address the economic impact of the Seneca component on the ethnic minority property owners in both ROIs. The issue of property values is particularly relevant since Tables 3.5 and 3.9 support the widely held view that the African significant and cannot be mitigated, specifically traffic-related ozone precursor by any decline in property values.

K-10

Specific Impacts of the Proposed Seneca Facility 4

In view of the city policy described in item #2 that "[i]in considering those land use questions which most affect a particular neighborhood or other area, the City will give opposition to the Maximum Capacity Alternative, it seems strange that the EIS/EIR substantial weight to the opinions of the local citizens" and the pivotal role that the proposed Seneca facility and program played in the neighborhood's ultimate devotes so little space to the Seneca component.

East Bay Regional Parks-which has pulled out of the process-and the Oakland Parks and Recreation) to the plan because the Seneca applicants were not part of the plan The HIS/HIR fails to address the specific impacts of PBC applicants (other than the when the EIS/EIR process started.

Here are significant issues that should be addressed in the EIS/EIR regarding Seneca

K-11

72

continuation of the program for the next 30 years, i.e. well beyond the year conveyance, clear title to the Seneca site will be comingent on the (A) If Seneca acquires the land through a separate public benefit

(B) The nature of the Seneca residential population should be recognized in the projections for police and fire protection.

program could have a major impact on property values in the Oak Knoll (C) The long term performance and the public perception of the Seneca disproportionate burden on at least one ethnic minority. (See below.) study area. If this impact could be adverse, it would place a

The EIS/EIR also fails to recognize the specific impacts of Seneca on the immediate vicinity, the development of the rest of the site, and the next 30 years of the use at the site. Here are several specific potential impacts of this kind that should be uddressed .

(D) The Seneca proposal includes segregated use of a portion of the site which is illegal under the Unruh act

K-12

assessment facility relocating from Hayward. Awarding such a facility a (E) The Seneca proposal includes a 24 hour, involuntary lock-down and

Response to Comments
Naval Medical Center Oakland
Disposal and Reuse Final EISEIR

Disposal is

As discussed in Section 3.2.5, the Executive Order on Federal Actions to Address Environmental Justice in Minority and Low-Income Populations requires that "Each Federal agency shall analyze the environmental effects, including human health, economic and social effects, of Federal actions including effects on minority communities emphasis added), by the National Environmental Policy Act of 1969 NEPA), 42 U.S.C. § 4321 et. seq. Mitigation measures outlined or inalyzed in an environmental assessment, environmental impact tatement, or record of decision, whenever feasible, (emphasis added) .s analysis such when communities, and low-income

As further clarification, the following headings and text was added as Section 5.6.2: 5.6.2 Potential For Disproportionate Environmental Impacts On Minority Communities And Low-Income Communities

should address significant and adverse environmental effects of

proposed Federal actions on minority communities and low-income

communities."

Navy property disposal is simply a transfer of significant and adverse environmental impacts or disproportionate impacts. No on minority and low-income communities would occur as a result of the Navy property disposal. environmental property title and would result in no environmental impacts Vavy Disposal.

public benefit conveyance at Oak Knoll is especially important when considering earthquake faults. State of California Education Code 39000.2 prohibits building an educational facility near an earthquake fault. Other regulations no doubt require special environmental consideration for involumany detainment facilities such as those proposed by Seneca.

(F) The EIS/EIR does not even consider the impact on property values when (a) a six acre institution for Severely Emotionally Disturbed (SED) juveralies is located nearby, (b) the likelihood that more RCF's will locate near it, and(c) the California Real Estate Disclosure Law (1102.5) requires that the Seneca facility must be disclosed when a neighbor sells their home.

(G) The EIS/EIR does not include the impact of Seneca on other potential development at the site. For example, will it have an impact on the adjacent Credit Union if it remains at the current site?

(H) Seneca is funded by the public tax funds. What if funding is cut as it has been in recent years?

(I) What if SED children are legally required to return to public schools (case law in New York state)?

(j) What about economic sustainability? Seneca is seeking a bond and is looking for contributors for short-term adjustable rates and tarable securities, or a tax-etempt bond from ABAG-secured by what or whiom? (One ABAG official is on OBRA and voted for Seneca, a clear of interest.) These finances are not secured and at the whim of current and fiture voters. What if they need future bonds? At Fort Ord, many PBC's have unable to occupy the six due to financial reasons. Cain Seneca sustain and finance their use for 30 years? What are the adverse scenarios? The section 6 portion of their application is again, still not public—should the HIS/EIR consider it?

(K) Who does Seneca serve? Which counties' children are served by Seneca? Many of the children come from San Francisco, Coutra Costaless than haif are from Alameda, yet they are now being concentrated in Oakland which has the highest majority African American population in Alameda. This concentration of residential care facilities may constitute a form of environmental racism (see Federal case law US v. Marshall Village No. 90-C-524-S-1991). Seneca proposed to bring its San Leandro and a Hayward facilities to Oakland. Will the Seneca Santa Cruz facility also relocate to Oakland?

(L) Seneca is participating in "Project Destiny" which proposes to serves the MOST severely disturbed children (the highest level of SED cases) in conjunction with the Berkeley Academy, Fred Finch and Lincoln Center. Will this mean still more expansion at a later time? And would this result in

summarized in the Executive Summary and Table ES-1 of the EIS/EIR, and is described in detail in Chapter 4.

No Action Alternative. Retaining the property indefinitely under the No Action Alternative would result in no environmental impacts. No significant and adverse environmental impacts, or disproportionate environmental impacts on minority and low-income communities would occur as a result of the No Action Alternative. The No Action Alternative is described in detail in Chapter 2 and is analyzed for environmental consequences in Chapter 4 of the EIS/EIR.

Community Reuse Alternatives. The only significant and unmitigable environmental impacts produced by the community reuse alternatives euse alternatives for NMCO may exceed one or more Bay Area Air Quality Management District air emission thresholds as shown in Area as discussed in Section 4.10, because these pollutants are s for air quality. Motor vehicle traffic trips associated with community secondary particulate matter (PM10) is the entire San Francisco Bay produced by secondary chemical reactions in the atmosphere and occur precursors and dispersed source of dilute PM10 emissions. Minority communities and over a large area. In addition, vehicle traffic is a geographically low-income communities would not be disproportionately impacted by for ozone The region of influence. his regional air quality impact. Table 4-31.

All significant and mitigable environmental impacts identified in the EIS/EIR are associated with implementing the different community

Response to Comments
Navel Medical Center Oakland
Disposal and Reuse Final EIS/EIR

Page 6

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nore children from other counties being served in Oakland? More children concentration of residential care facilities in an ethnically protected area? at the site than previously planned? What potential impact would the surrounding neighborhoods? And would this mean an even greater Project Destiny proposal have on Seneca and consequently on the

K-12

'n

surveys indicate that some real estate values in the immediate vicinity of the Oak Knoll Naval Base area cominue to drop based on 1st quarter 1996 sales. Will Seneca tip the communities that can lead to their economic decline, a process described as a "tipping effect" (see Federal case law US v. Marshall Village No. 90-C-524-S-1991 and the Turning Point, Federal Appellate Court 9535223, 9535237). Local Real Estate neighborhood. Residential Care Facilities (RCF's) have an adverse impact on minority cales of the neighborhood and will its placement here therefore be environmental Seneca may also have an adverse impact on a majority minority population

K-13

Concerns Specific to Base Closure છં

completely surrounded by homes and therefore home values are of crucial interest in What about the fact that this is one (if not the only) base closure in the United States happened at other bases? Have property values dropped near other base closures? The EIS/EIR report does not consider several idiosyncrasies of base closure. For instance, what if a PBC applicant cannot keep the land use the same for 30 years? What if the land is leased to another user who cannot sustain the use? What has considering social impacts? What about these and other "base-closure-specific"

K-14

74

Cumulative Retail Development Impacts

The impacts of Retail development in this area of Oakland are not properly addressed. Eastmont Mall has had numerous failures, the Grass Valley Safeway has closed. By contrast, nearby Leona Quarry will be developed including 21 acres of new retail. The existing retail on Keller Avenue adjacent to the base is not very successful,

Here is a list of crucial questions that need to be addressed.

- (A) What are the cumulative impacts of the other nearby failed retail levelopments and of current developments on proposed retail on the Base site?
- (B) What is the likely success rate of retail when it has consistently not done well in a given area?
- (C) What market studies were used to look at the success of the retail? Were these same studies used by other developers in the area?

K-15

Page 7

EIS/EIR, no significant and adverse environmental impacts would reuse alternatives. If the mitigation measures associated with the community reuse alternatives are implemented as described in the or low-income communities minority disproportionately affect communities would occur.

for both the City of Response to Comment K-7. Please see response to Comment K-6. In addition, Section 5.6 was expanded to evaluate potential significant environmental impacts Oakland and the Oak Knoll study area. The "Establishing the Region of Influence" on minority and low-income populations in more detail section was revised with the following text:

The City of Oakland and the Oak Knoll study area have been environmental justice issues. Detailed analysis focuses on the Oak Knoll study area using data from census tracts adjoining NMCO. The nature of the impacts associated with disposal and reuse, If any, would generally occur at the neighborhood level within the immediate of influence relevant region tþe ricinity of NMCO. as established

Response to Comment K-8. As described in the response to Comment K-6 and Section 5.6.2, the EIS/EIR identifies no significant and adverse environmental impacts that would disproportionately affect minority or low-income communities, provided the mitigation measures identified in the EIS/EIR are implemented

Please see response to Comment K-6 regarding clarifying the requirements of the Executive Order on Federal Actions to Address Environmental Justice in Minority and Low-Income Populations. Response to Comment K-9.

Disposal and Reuse Final EIS/EIR Response to Comments Maval Medical Center Oakland

(D) What relationship exists between crime levels, public safety issues and retail? The stores on Keller Avenue have been held up at gun point at least 10 times in the past 2 years.

(E) What is the likelihood that several retail developments will succeed in the nearby vicinity where they have not succeeded before? The entire impact of the 150 acre development of the Leona Quarry site must be considered in the EIS/EIR. The plans for this development were made public October 13, 1996.

K-15

(F) Once a retail establishment fails—what is its impact on home values in the vicinity? What is the likelihood the retail buildings are converted to new uses that decrease or increase property values? (Nearby examples of declining property values due to failed retail exists at nearby Foothill Square and Eastmont Mall.)

8. Rezoning Issues

The entire site is currently R-30, compatible with the surrounding residential area. To rezone means a change in the city general plan. What impact will this rezoning have on the surrounding homes? There are small leaps in zoning and large leaps—which ones are needed for the Maximum Density Plan and what are the probable impacts? Which proposed uses in the plan are least compatible or non-conforming with R-30? Home values in the vicinity reflect distance from retail and open space amenities (which Ook Knoll Neighbor surveys indicate is valued by the residents), therefore a change in zoning will likely result in a decrease in property values. Transforming the residential character of the area to a retail hub constitutes a major change that should be assessed.

K-16

75

9. Region of Influence

The EIS/EIR shows the area of impact as the entire City of Oakland. This is incomplete and flawed. There are two regions of influence. One is the city of Oakland. The other is the study area of the immediate vicinity. The greatest weight must be given to the immediate vicinity. Gity policy requires that "[i]n considering those land use questions which most affect a particular neighborhood or other area, the City will give substantial weight to the optinions of the local citizens. The EIS/EIR does not give adequate consideration to the neighborhoods surrounding the base site. Any negative impact at Oak Knoll has the largest negative impact on the immediate neighborhoods surrounding the base, and these constitute a predominantly African American community.

K-17

10. Density of Housing

EIS/EIR states that R-30 allows for 5,000 square feet per housing unit. Does this 5,000 SF include serbacks, roads, and nearby unbuildable open space/slopes? If so, this is an inaccurate application of the zoning laws. A number of lawsuits have been filed in this region of the City regarding the density of housing issue. See comments below regarding current building trends in the area.

<u>SI-3</u>

Response to Comment K-10. Please see the responses to Comments K-6 and K-7. Ozone precursor emissions are adequately addressed as reuse impacts in Section 4.10 of the EIS/EIR. We realize that the chance that property values could decline is unappealing to local residents. However, local and regional property values change in response to several factors. Changes in property values produce no physical impacts and are not considered as environmental impacts for purposes of NEPA or CEQA.

Response to Comment K-11 Property obtained under any conveyance would still be subject to City of Oakland zoning and land use policies associated with reuse of the NMCO property, as described in Section 3.1.3. Should a public benefit conveyance recipient be unable to continue using the property for the purpose specified in the conveyance, the property would return to the federal agency sponsoring the conveyance. The federal agency could then reassign the property to another applicant meeting the conveyance requirements, or it could dispose of the property from federal ownership.

We realize that the nature of the Seneca population is a controversial local issue. However, the City of Oakland feels that supporting assistance to troubled children under the age of 12 serves a valuable socioeconomic purpose. Children are an important resource deserving of support. Speculation regarding any alleged criminal tendencies of these children would be prejudicial. We have chosen to avoid prejudice in the reuse planning process against any group.

We realize that the chance that property values could decline is unappealing to local residents. However, local and regional property values change in response to several factors. Changes in property values produce no physical impacts and are

Response to Comments
Naval Medical Center Oakland
Distocal and Reuse Final FISIFIE

not considered as environmental impacts for purposes of NEPA or CEQA.

funding, education, economic sustainability, and the operation of the Seneca The long-term sustainability of the reuse plan is therefore speculative. We believe he analysis provided in this EIS/EIR, and these responses to comments provide socioeconomic results will depend on the ability to generate funds and cooperation. decisionmakers with adequate information to support the selection of a final reuse facility and the conduct of its students are speculative in nature.

Response to Comment K-12. Please see responses to Comments B-13, K-11, and K-19.

Marshall, Wisconsin, 787 F, Supp. 872 (W.D. Wis. 1991), held that a village's Response to Comment K-13. Neither of the cited cases dealt with "tipping effect," property values, or "environmental racism." United States v. Village of refusal to grant an exception to a state law spacing restriction for group homes constituted handicap (mental illness) discrimination under the Fair Housing Act. In Turning Point, Inc., v. City of Caldwell, 74 F, 3d 941 (9th Cir. 1996), the Ninth Circuit affirmed a district court decision that a city's occupancy limitation on a group home for the homeless constituted handicap (mental and physical impairments) discrimination under the Fair Housing Act. If the "troubled youth facility" proposed for NMCO could be called housing for the handicapped, these cases would indicate that the City of Oakland is required to "reasonably accommodate" such a facility. Response to Comment K-14. Property obtained under any conveyance would still be subject to City of Oakland zoning and land use policies associated with reuse of

Oak Knoll Neighbors

conveyance recipient be unable to continue using the property for the purpose sponsoring the conveyance. The federal agency could then reassign the property to another applicant meeting the conveyance requirements, or it could dispose of the Should a public benefit specified in the conveyance, the property would return to the federal agency property from federal ownership. We realize that the chance that property values property values change in response to several factors. Changes in property values could decline is unappealing to local residents. However, local and regional produce no physical impacts and are not considered as environmental impacts for the NMCO property, as described in Section 3.1.3. purposes of NEPA or CEQA. Response to Comment K-15. We realize that the chance that property values could decline is unappealing to local residents. However, local and regional property values change in response to several factors. Changes in property values produce no physical impacts and are not considered as environmental impacts for purposes of NEPA or CEQA. Although local experience regarding existing crime rates is an important consideration, there is no reasonable basis for assuming that increased crime will unavoidably result upon reuse. Crime may increase or decrease locally. This EIS/EIR has analyzed the need for police services in Sections 3.3 and 4.3, and generally recommends adequate mitigation for significant impacts (Section 4.3). Further speculation regarding uncertain future trends in local crime would not enhance the ability of decisionmakers to make an informed decision regarding reuse, and is therefore not included.

Speculation regarding detailed site design specifications cannot effectively be

Oak Knoll Neighbors Letter K

speculative for evaluation, the agency should note its conclusion, and terminate after thorough investigation, a Lead Agency finds that a particular impact is too discussion of the impact" (Cal. Pub. Res. Code, § 21000, et seq.; Guidelines, § analyzed in this programmatic EIS/EIR. CEOA Guidelines, § 15145, says that "If, 15145 [Office of Planning and Research 1995]).

We appreciate your concerns. Speculation regarding relationships between property value trends and potential zoning designations is not within the scope of environmental impacts under NBPA since the information supporting such an analysis is lacking, is based on conjecture, and is not reasonably foreseeable (40 investigation, a Lead Agency finds that a particular impact is too speculative for impact" (Cal. Pub. Res. Code, § 21000, et seq.; Guidelines, § 15145 [Office of Response to Comment K-16. Please see responses to Comments K-14 and K-15. CFR, § 1502.22[b][1]). CEQA Guidelines, § 15145, says that "If, after thorough evaluation, the agency should note its conclusion, and terminate discussion of the Planning and Research 1995]).

Response to Comment K-17. Please see responses to Comments K-6 and K-7.

Response to Comment K-18. To clarify, the EIS/EIR states in Section 3.1.3 (Land Use - Regulatory Considerations) that "The City of Oakland's R-30 zoning allows for a single dwelling unit per lot designation, with minimum lot sizes of 5,000 square feet." Later, in the subsection titled "Rezoning for Reuse," it is stated that 'Following transfer of federal surplus land to the City of Oakland (or other nonfederal entities), future development of portions of the site would be under city urisdiction. Oakland's zoning for the site, Residential (R-30), may not accommodate some of the proposed reuse land uses (emphasis added for this

Contraction of the Contraction o

The EIS/EIR fails to adequately consider the faults on and around the Base. A report will this have? Have all the faults been given adequate and appropriate consideration? A study by Lawrence Livermore Labs in 1987 shows fault activity that differs from the broadcast showed evidence of a new, deeper, and more serious active fault in our area. Severely Emotionally Disturbed) children on the site, some of them locked up in a 24 experience a 7.0 or greater magnitude earthquake in the next 30 years. What impact What specific impact does this have on the intent to build a school, or keep SED EIS/EIR-how do you account for this difference? A recent 1996 public news issued by ABAG states that there is a 70% chance that the Hayward fault will Earthquake Faults and Public Safety nour assessment center?

K-19

problems and the complex circulation patterns likely to develop, these public safety Tas the cumulative effect of greater retail, residential, recreational and educational activities been analyzed with regard to overarching questions of public safety associated with earthquake and related fire hazards? Given the limited access prestions deserve highest priority

K-20

CEOA Guidelines and Other Laws Followed?

consecutive mating seasons, as required? Was the trap made to the specifications of the state biologist? Over the period of time required with nothing to inhibit the California State Fish and Game documents and drawings clarify how testing for the Alameda Striped Racer is to be conducted-was this procedure followed for two novement of the racer?

K-21

79

The report is superficial in its assessment of potential endangered plant species. There exist at the site. The report also fails to identify known historic native Oaks (that are investigation of existing potentially significant native or endangered species should be trees-some along the riparian corridor, especially one extremely large historic coast of special preservation interest to the city of Oakland) and should be earmarked for seems to be minimal effort to examine whether seasonal native, endangered plants special consideration. In particular, there is little attention given the fact that large ive oak (with a circumference of over 6 feet) should be given highest priority for reservation status. These and other omissions suggest that a more thorough

K-22

sovereign nation status? The EIS/EIR fails to look at this issue and the likely impacts. <u>Rotentially Unique Land Ownership?</u> Did the EIS/EIR consider the unique land ownership and impact of the United Indian currently a recognized tribe, becomes recognized, or through another tribe, obtains a is there a potential that gambling could then occur on base since it occurs on other Nations (UIN) land ownership? What if the urban tribal entity UIN which is not tovereign Native American land in the U.S.?

K-23

Noise and Lighting Nuisances

K-24

The impacts of noise and night lighting related to the driving range, retail, and other proposed uses, are not adequately addressed

policies it may be necessary to amend the Oakland Comprehensive Plan to include approving future land uses (emphasis added for this response). The land use amendments would need to be based on the goals and policies of the selected reuse alternative, while maintaining consistency with the current goals and policies in the Oakland Comprehensive To achieve consistency between the selected reuse alternative and city Plan." Such amendments would account for any discrepancies associated with the NMCO site and surrounding uses, prior to unbuildable roads and slopes. response).

Response to Comment K-19. Since there are no recently active faults within the site boundary, it is not likely that damage would occur directly as a result of a fault with active faults throughout the San Andreas Fault Zone. The most damaging rupture. Instead, damage may occur due to ground shaking, originating on a fault The EIS/EIR considers earthquake hazards associated earthquake to the site could be an earthquake originating on the Hayward Fault. The region of the site contains many faults, but most of them have not been active within the past 11,000 years or more. outside the site boundary.

In general, ground motion decreases away from the fault rupture, so it is possible for a small nearby earthquake to cause more damage than a more distant but larger Since the Hayward Fault could generate a large earthquake near the site, it probably represents the reasonably expected worst-case earthquake scenario require that buildings be designed to withstand a high degree of ground motion without structural failure that would cause injury. Seismic design standards depend on the shape and height of the structure, its intended use or occupancy, and the type of soil underlying the structure. For some types of structures the CBC requires that for NMCO. Current seismic codes, based on the California Building Code (CBC), earthquake.

Naval Medical Center Oakland Disposal and Reuse Final EIS/EIR Response to Comments

to withstand these forces. At some locations, the level of ground motion or the presence of liqueflable soils, unstable slopes, or other conditions not foreseen by site-specific ground motion studies be performed and that the building be designed

he CBC may exist. In such cases the minimum design standards of the CBC may

not be adequately protective.

Site-specific ground motion studies are required by the CBC for schools, hospitals, and other critical facilities. These studies may be appropriate for some facilities where they are not specifically required to ensure that the safe CBC design objective is met. Future development at NMCO would be required to meet the current CBC standards. It is not necessarily appropriate to design against an extremely infrequent seismic event, such as the maximum credible earthquake. Response to Comment K-20. Cumulative demands for police and fire services are described in the Public Services discussion of the cumulative impacts analysis in As described in the Geology and Soils discussion of Chapter 5, cumulative Chapter 5. Increased demand for public services during disasters are a component earthquake. Limitations on emergency access to the site and the need for Oakland of the cumulative demand described for Oakland's Police and Fire Departments. sevelopment would add to the number of people and structures subject to regional Fire Department approval of site specific development plans is discussed under seismic hazards but would not change the likelihood or severity of any potential Section 4.3.3 of the EIS/EIR.

Response to Comment K-21. A 90-day spring survey was conducted for the Alameda whipsnake, also known as the Alameda striped racer, in accordance with methods of the California Department of Fish and Game. No Alameda whipsnakes

were found. The survey report is presented in Appendix F of Volume II of the EIS/EIR and is referenced in Section 3.6.4 of the EIS/EIR. Figure 4 of Appendix F shows a schematic of the trapline and photographs of the funnel trap. A detailed description of the traplines and traps is presented in the Methods section of Appendix F. The US Fish and Wildlife Service (Comment C-1) has concurred that no additional Endangered Species Act consultations are required.

Response to Comment K-22. A detailed sensitive species survey consisting of a rare plant assessment and a survey for sensitive wildlife species was conducted at NMCO. The US Fish and Wildlife Service (Comment C-1) has concurred that no additional Endangered Species Act consultations are required. The entire survey report is presented in Appendix B of Volume II of the EIS/EIR and Is referenced in EIS/EIR, Section 3.6.4.

A tree study was conducted to estimate trees protected under the City of Oakland Tree Ordinance (Article 6, Section 7-6) at NMCO. The study report is in Appendix E of Volume II of the EIS/EIR. The ordinance protects coast live oaks with a diameter breast height (dbh) of four inches or larger and any other tree, except eucalyptus and Monterey pine, with a dbh of nine inches or larger. There is no reference in the ordinance to "historic" trees. In this program level document, it would be speculative to determine which specific trees may be affected by development. In accordance with CEQA Guidelines, § 15145, if a particular impact is too speculative for evaluation, the agency should note its conclusion and discuss the topic no further. Under NEPA, speculation that is not reasonably foreseeable, such as that due to the lack of specific tree removal plans, does not warrant further analysis (40 CFR, § 1502.22[b][1]). Mitigation 2 under Section 4:6.3 states that when a specific site plan for development (i.e., grading) of the area is presented to

Response to Comments
Naval Medical Center Oakland
Disposal and Reuse Final EIS/EIR

the City of Oakland, the applicant would have to conduct a site-specific survey of which trees would be removed and would have to comply with all other requirements of the ordinance, including obtaining tree removal permits.

Response to Comment K-23. The conveyance methods do not establish any unique methods of land ownership or special exemptions from state or local laws and zoning regulations. Lands transferred under a public benefit conveyance would have to be consistent with local zoning and with the terms of the public benefit conveyance itself. The primary City of Oakland zoning and land use policies associated with reuse of the NMCO property are described in Section 3.1.3.

Response to Comment K-24. None of the proposed land uses could be considered capable of significant noise generation. Traffic on Interstate 580 will remain as the dominant noise source in the project vicinity after reuse. Minor noise contributions will come from traffic on Mountain Boulevard and Keller Avenue. Please see Sections 3.11 and 4.11 of the EIS/EIR for a thorough analysis of noise impacts.

The following heading and text were added at the end of each No Impacts subsection within Sections 4.5.3, 4.5.4, 4.5.5, and 4.5.6, regarding Aesthetic and Visual Impacts:

Light and Glare. Evaluation of potential light and glare problems requires detailed lighting system design plans. These plans are seldom developed prior to the drafting of detailed construction design plans. Since detailed design plans are not available, this BIS/BIR does not provide such an analysis. None of the land uses can be readily identified as capable of causing significant light and glare problems. Any land uses that propose to use high intensity outdoor lighting

Response to Comments
Naval Medical Center Oakland
Disposal and Reuse Final EIS/EIR

Potential Fire Hazards and Public Safety Issues

cannot be adequately assessed by the community. At least three incidents of arron in routes) be addressed. Without such information, potential public safety problems (including road circulation patterns, water reservoir capacity, and access and exit 996 burned several acres of land and threatened houses on Keller Avenue and increased development at the site should require that clear fire hazard planning Campus Drive across the street from the Oak Knoll Base.

K-25

16. Parking

The City's failure to recognize this reality has already resulted in a distressing problem considered. There should be a table showing the number of housing units, the number serving each of these components of the plan. Very few families in this hill area have of commercial locations, all recreational facilities, and the number of parking spaces with on-street parking in front of the nearby apartment houses on Mountain at Golf Links Road. Facilities for swimming, golf, softball, and soccer will each attract cars fewer than two cars, thus it is important to plan two spaces for every housing unit. Maximum Capacity Alternative. However, the allocation of these spaces is not Section 4,9.5 concludes that 2,364 parking spaces would be adequate for the from outside the site, and the provision of adequate parking spaces for each recreational area should be clearly documented.

K-26

83

corridor. Such bridges would decrease the favorable esthetic and environmental effects of the corridor. They would disrupt any pedestrian or bicycle traffic along the corridor. Riparian Corridor We camot find where the EIS/EIR addresses the issue of bridges crossing the riparian They could become problems in times of flooding or earthquake. On the other hand, limiting the number of bridges could impede traffic flow within the site.

K-27

not sufficiently covered. For example, will the eventual use of fertilizers and pesticides In addition, the effects of demolition, building, and development on stream quality is in the residential areas significantly reduce downstream water quality? How do the different scenarios ultimately compare with regard to protection of the watershed?

8

K-28

nomeless, and the City reached a verbal understanding about an off site plan, a written The report asserts that the "OBRA plans to accommodate homeless assistance off site" considered resolved or addressed in compliance with the laws governing base closure. plan has not been signed-off by all parties. Thus the status of the homeless cannot be problematic. Although at one point the representatives of the neighborhood, the and the impact of homeless programs on site is not addressed further. This is

19

K-29

new full-time officer working 40 hours per week in Beat 35 to adequately respond and Subsection 4.3.3 asserts that the Maximum Capacity Alternative will ... "require one provide coverage at ..." the site. This is puzzling and requires confirmation for three reasons. First, the neighborhood was assured that there would be one additional

hould be reviewed by the City of Oakland prior to issuance of building permits to ensure proper design and shielding of outdoor lighting. Particular attention should be given to nighttime recreational activities often requiring such lighting, including but not limited to ball lelds, the golf course driving range, or similar uses.

patterns, water reservoir capacity, and access and exit routes) will be addressed at Clear fire hazard planning (e.g., road circulation he reuse site design stage. This EIS/EIR is a program level document that does not address all planning considerations at all levels of detail. It is assumed that specific considerations will be required to comply with all applicable laws, regulations, and design standards will require that fire hazard planning and other public safety codes relating to access and response times of public service providers. Response to Comment K-25.

Response to Comment K-26. Parking planning will be addressed at the reuse site levels of This EIS/EIR is a program level document that does not address all planning considerations at all design stage. Please see response to Comment K-25. detail.

addressed at that stage of reuse development. The restricted access buffer zone is. Response to Comment K-27. If specific site designs include bridges, they will be intended to be a permanent zone of protection through reuse plan implementation and to be incorporated into later specific plan development proposals. The second sentence of each Mitigation 1 in Sections 4.6.3, 4.6.4, 4.6.5, and 4.6.6 was modified to state the following:

Establish a permanent 50-foot wide restricted access buffer zone to protect the Rifle Range Creek corridor.

Disposal and Reuse Final EIS/EIR Naval Medical Center Oakland

would be 12 times more disciplined and law abiding that the personnel at the NMCO NMCO averaged 12 on-duty officers at all times and used five police vehicles. This This is very difficult to believe. Third, the EIS/EIR does not make it clear that the olicemen hired. Second, Subsection 3.3.1 indicates that the police services at the implies that, under the Maximum Capacity Alternative, the residents and visitors policeman covering this beat around the clock. This translates into 5 additions special requirements of the Seneca program were considered in estimating the requirements for police services under the Maximum Capacity Alternative.

K-29

20. Traffic

K-30

uses of the site are not adequately addressed in terms of a reasonable approximation of existing or potential roads. The inadequacy of the existing road patterns regarding fire Additional traffic resulting from residential, recreational, educational, retail and other and police protection should also be investigated.

21. K-31

requirement that class sized be reduced in order to obtain additional state funding? Did the HIS/BIR analyze the increased need for schools and the new California

K-32

Easements and Private Ownership of Boundary Lands
Did the HIS/HR consider the presence of an East Bay Municipal Utility District
easement along the northern boundary of the site? What affects would this have on

Has the EIS/EIR adequately discussed how the private ownership of strips of land along the perimeter of the property (particularly along Keller Avenue) would affect potential development, public health and safety issues?

K-33

Views and Potentially Impacted Neighborhoods

portions of Sequoyah Hills/Oak Knoll directly near the base. The omission of the Oak the base on Mountain Boulevard. The view and traffic impact on these neighborhoods neighborhoods should be corrected, and new assessments (if needed) should be made. Knoll Height condominium community is also perplexing since it lies at the entry to in the immediate vicinity will be substantial. Mislabeling and omission of the nearby directly north of the base) is not mentioned, nor are the Skyline Apartments or the In the section on views, Ridgement (a single family neighborhood on the hilltop K-34

Neighborhood Designations-Mislabeling and Omissions 4.

Several residential neighborhoods in the vicinity of the base are repeatedly mislabeled conceived to be part of Sequoyah Hills. The errors in this respect are so munerous Heights is confused with Sequoyah Hills, and Sequoyah Hills/Oak Knoll is vaguely Ridgemont, Skyline apartments, Oak Knoll Heights) normally omitted. Sequoyah in the text and maps of the report. So, too, are nearby neighborhoods (such as that a separate account is needed to correct the report

K-35

Oak Knoll Neighbors

Sections 4.6.3, 4.6.4, 4.6.5, and 4.6.6 of the EIS/EIR were revised to state following:

A qualified biologist shall develop a detailed habitat restoration plan for restoration activities in Rifle Range Creek, its tributaries, and the surrounding riparian corridor that includes ongoing maintenance of his buffer zone.

Section 4.6.8 has been changed to read as follows:

To the fi:llest extent legally required, the proposed 50-foot wide restricted access corridor for Rifle Range Creek may be expanded, as necessary, to account for the protection of wetlands and important development proposals. Although no upland drainage areas have been identified, subsequent development proposals will need to address this upland drainage areas as such areas may be affected by subsequent issue if legally required to do so. Please see Section 4.7.3 of the EIS/EIR. Applicable state and federal laws, regulations, and standards intended to control the volume and timing of nonpoint source pollutants will apply.

The Homeless Assistance Screening section in Chapter 1 has been revised to read as follows: Response to Comment K-28.

Redevelopment and Homeless Assistance Act of 1994 (PL 103-421) Redevelopment Act) established revised procedures for addressing the The Base Closure Community Homeless Assistance Screening.

Disposal and Reuse Final EIS/EIR Response to Comments Naval Medical Center Oakland

Page 11

200

needs of the homeless as an alternative to the McKinney Act (42 U.S.C. § 11411 as implemented by PL 101-510, PL 100-526, and PL 103-160). The revised procedures require that the needs of the homeless be balanced with the economic development and other The City of Oakland ("City") was recognized by the Secretary of development of the base in the community's reuse planning process. Defense as the local redevelopment authority (LRA). The City, in turn, designated the Oakland Base Reuse Authority (OBRA) as the LRA for all base conversions in the City.

Conversion Homeless Collaborative (ACBCHC) as the sole the Redevelopment Act. The ACBCHC (ACBCHC 1995) submitted a In March 1995, OBRA recognized the Alameda County Base representative for all homeless assistance providers in the county under subsequently negotiated a homeless assistance submission (plan) for (HUD) and the ACBCHC agreed to the terms of the plan in lieu of notice of interest to OBRA listing properties at NMCO for homeless assistance. OBRA and the ACBCHC and community representatives obtaining real property at NMCO. The OBRA reuse plan, including furniture and equipment to support homeless services, and proposed a goal of hiring homeless persons to fill 15 percent of the future approval by the US Department of Housing and Urban Development The OBRA plan proposed to provide \$2,000,000 to ACBCHC for use in the provision of new homeless services in Alameda County. The OBRA plan also proposed providing NMCO personal property such as the homeless assistance plan, was submitted to HUD in August 1996.

positions hired in support of the use or development of NMCO.

in September 1996 of OBRA (OBRA 1997) submitted a revised homeless assistance plan on 17 July 1997. On 24 September 1997, HUD approved OBRA's recommended modification to OBRA's homeless assistance plan. revised homeless assistance plan (HUD 1997b). HUD (HUD 1996) advised OBRA

Response to Comment K-29. As described in Section 4.3.3 of the EIS/EIR, the increased demand for police services in the Oakland Police Department's Beat 35 coverage in Beat 35. The level of Navy-provided police services at NMCO was provided for areas currently in Beat 35. With regard to the Seneca Center, no would require one new full-time officer working 40 hours per week. The Oakland Police Department would be responsible for scheduling these 40-hours of additional typical for a military installation and reflected the need for continual perimeter security and a higher standard of internal security than is provided for civilian uses. The coverage to be provided for reuse of NMCO will be similar to the coverage special requirements for police services have been identified. The center will be responsible for providing adequate protection and supervision.

4.9, and 5.5 of the EIS/EIR has been extensive. Further analysis done in response to Comment D-2 and comments E-1 and E-2 has provided even greater detail and Response to Comment K-30. The traffic and circulation analysis in Sections 3.9, is therefore adequate for purposes of NEPA and CEQA. The precise road pattern that will be proposed at the site design stage of reuse is not yet certain and cannot be effectively analyzed without a high level of speculation going beyond the purpose of this document to support informed decision-making. CEQA Guidelines,

§ 15145, says that "If, after thorough investigation, a Lead Agency finds that a particular impact is too speculative for evaluation, the agency should note its conclusion, and terminate discussion of the impact. Under NEPA, speculation that is not reasonably foreseeable such as that due to the lack of specific roadway placement and routing, does not warrant further analysis (40 CFR § 1502.22[b][1]).

Response to Comment K-31. The Draft EIS/EIR projected an addition of 805 students under the Maximum Capacity Alternative, which was identified as a significant but mitigable impact. However, the impact of the reuse alternatives on schools was reanalyzed, as detalled below, using (1) the student yield factor provided by the Oakland Unified School District (OUSD), and (2) a more realistic estimate of new households in the City of Oakland attributable to the reuse plan. The revised analysis indicates that only 261 additional students district-wide will be generated as a result of the reuse plan.

Moreover, the actual net increase of new students will be less than 261 because NMCO, when fully operational ln 1994 generated 215 students (Theresa Hughes & Associates, 1994). This estimate of students when NMCO was operational is based on the number of households due to employment, the existing number of family housing units (82 units), and factors used to generate Table 4-4, including the OUSD provided yield factor of 0.364 students per household. Table H-1 (see Response to Comment H-1) presents a comparison of the number of students generated when NMCO was fully operational to those generated by the reuse alternatives.

The revised student generation projections were calculated as follows. First, the student yield factor was reduced since the OUSD is now using a more precise yield

Response to Comments
Naval Medical Center Oakland
Disposal and Reuse Final EISIEIR

(Alameda County) would move to the City of Oakland. Third, the original analysis This is a actor of 0.364 students per household (OUSD 1996). This yield factor is roughly nalf of the 0.68 factor used in the Draft EIS/EIR to estimate school impacts. The 3.68 student per household factor was based on a conventional single-family unit generation rate estimated for Northern California. Second, the Draft EIS/EIR estimated that 100 percent of new employees moving to the region of influence used 100 percent estimate to support a worst-case analysis of potential impacts from new employees moving into the region. However, this figure is seen as an unrealistic worst-case estimate (ERA 1997) and has been reduced to 25 percent because an estimated 75 percent of jobholders in Oakland commute from elsewhere in Alameda County (ERA 1997). The new estimates are shown in the revised Table 4-4. This table is included in the Final BIS/BIR, along with text revising schools impacts under each of the alternatives in Sections 4.2.3, 4.2.4, 4.2.5, and 4.2.6. Under the Maximum Capacity Alternative, the addition of 261 students throughout the District, spread over the twenty-three year life of the reuse plan and assuming full project buildout in 2020, is not considered a significant impact that requires maximum of 46 additional students under the Maximum Capacity Alternative when compared to preciosure conditions. Only if physical changes occur as a result of the Reuse Plan, is there a potential for significant impacts. Here, because the increase in enrollment (261 students) is so small, especially when compared to the overall size at the district (0.5 percent) construction of additional classrooms is speculative and remote. However, strictly as an accommodation to the OUSD, this mitigation because school overcrowding, per se, is a social impact. EIS/EIR will treat the impact as if it were significant but mitigable.

To encourage solutions to the overcrowding issue, text was added to the mitigation

Response to Comments
Noval Medical Center Oakland
Stopposal and Reuse Final EISEIR

measures in Sections 4.2.3, 4.2.4, 4.2.5, and 4.2.6, which were revised as follows:

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(1) reassigning students among district schools to account for changing population and schools; (3) more efficient use of underutilized and/or abandoned school facilities; (4) the addition of portable classrooms; and (5) the construct new schools. All of these measures would require varying Funding Mitigation 1. Mitigation measures to reduce overcrowding to less than new development; (2) continuation and expansion of year-round busing of students to less crowded schools. If these measures do not reduce overcrowding, OUSD may have to expand existing schools or amounts of funding. If current sources of funding, Including the City of Oakland school mitigation fees, increases in property tax and sales tax revenues, and increases in state funding are insufficient to pay for the cost of mitigating overcrowding, the OUSD would formulate and sources which may be considered by the OUSD include: (1) adjustments of school mitigation fees on commercial and residential development; (2) the creation of special assessment or Mello Roos districts or annexation to a Community Facilities District; (3) sale of surplus OUSD property; and (4) any other funding mechanism available to the OUSD by state law or local ordinances, including those measures identified in the OUSD's Developer Fee Justification implement specific measures to raise additional funds. significant levels would include the following: Study (OUSD 1996).

agreement with the OUSD for mutually agreeable mitigation of its project before However, the City of Oakland cannot "require each developer to enter into

the City approves any permit for development," as requested by the OUSD. This requirement is not legally mandated and is too restrictive and does not touch upon the necessity of first establishing a clear connection between the specific project and its impact on the school district. That is, there must be direct connection between the mitigation measure being requested by the OUSD and the development's impact. In addition, the mitigation should be roughly proportional to the impact. It is beyond the scope of a programmatic EIS/EIR to provide specific mitigation funding amounts or values. Ultimately, it is up to the OUSD to meet the connection requirement and to request, with the City's help, proportional mitigation from developers.

and related public health and safety issues will require minor modifications in how boundaries may be required because of easements. The effects of such an easement future private ownership patterns and future development is highly speculative and Response to Comment K-32 and K-33. This EIS/EIR analyzes potentially reuse is actually implemented at construction. Minor adjustments in land use on development cannot be reasonably foreseen. Overall, the relationship between requires looking at several factors beyond the scope of this EIS/EIR (e.g. real property value trends in the region, land uses in development applications, and With regard to such reuse significant and nonsignificant impacts that are reasonably foreseeable from disposal We assume that future easements, peripheral land ownership patterns, considerations, CEQA Guidelines, § 15145, says that "If, after thorough investigation, a Lead Agency finds that a particular impact is too speculative for evaluation, the agency should note its conclusion, and terminate discussion of the mpact." Under NEPA, actual relationships between private ownership patterns subsequent revisions to those applications). and reuse.

Response to Comments
Naval Medical Center Oakland
Disposal and Reuse Final EISIEIR

and unplanned development is not reasonably foreseeable, exorbitantly expensive to obtain, and would not support a reliable analysis allowing decision-makers to make informed decisions regarding effects to the human environment (40 CFR, Part 1502.22), and is therefore not analyzed further.

Response to Comment K-34. Aesthetic and visual resources as seen from the Ridgemont neighborhood, Skyline Apartments, or portions of Sequoyah Hills/Oak Knoll, and Oak Knoll Height condominium community were considered in the analysis of significant impacts. No long-term aesthetic or visual impacts were identified for either neighborhoods overlooking the site or for neighborhoods that may temporarily be exposed to views of construction activities.

The preferred alternative (Maximum Capacity Alternative) proposes a combination of mixed uses in the northwest quadrant of the site and single-family housing, active recreation, open space, and an executive nine-hole golf course (please see Figure 2-5 in the EIS/EIR). Neighborhoods overlooking the slte therefore will have their views changed from Navy facilities to views of a site predominantly characterized by more than 86 acres of golf course and open space covered with vegetation. This is potentially a beneficial aesthetic/visual impact not emphasized in the EIS/EIR. In addition, most construction in the mixed-use zone and other areas requiring development for reuse will be new buildings that probably will be more visually pleasing than the existing service buildings (please see Table 2-2 that immediately follows Figure 2-5 in the EIS/EIR).

All views either overlooking the site or at access locations will be affected by short-term construction impacts, which were not considered significant aesthetic/visual impacts. The significance criteria for aesthetics and scenic resources impacts is

Response to Comments
Naval Medical Center Oakland
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26. Inaccurate Portrayal of Building Trends in the Vicinity of the Base

The EIS/EIR fails to properly describe the area or the building trends in the immediate vicinity.

- (A) The EIS/EIR looks only selective at some building since 1980—namely high density, housing not single-family housing—and not the community in its entirety, which has a distinct majority of single family homes. In fact, recent successful and selling single family home developments in the vicinity include the following:
- 1) 10 acres of planned single family homes on Leona Quarry land off Campus Drive (proposed October 1996)
 - a new single family home community by Kaufman and Broad, opening fall 1996 (Skyline near Keller Avenue)
- 3) single family homes on Mountain Boulevard between Sequoyah Rd and Golf Links Road, opening 1995-1996
- 4) recently built single family homes at Ridgemont (valued from \$325,000 to \$1,000,000+).

2 92

Therefore, single family home developments—not high density housing—are the trend for the Oak Knoll vicinity. Denser housing, condominiums and apartments will lower property values of nearby, existing single family homes.

- (B) The EIS/EIR analysis is obviously faulty when it portrays only higher occupancy buildings as defining the trends for the Oak Knoll vicinity. By implying that Skyline Apartments and Ridgemont-at-Skyline Apartments (now condominhums) represent the building trend in the area is both selective and false.
- (C) There is a also distinct difference—left out of the report—between the Skyline apartments and the Ridgemont-at-Skyline Condominiums.
- (D) The HIS/EIR looks at the mumber of units and not the dollar value of the units. The drop in property values in the area has been greatest in condominiums and houses near apartments. There are many unsold condominiums in the area. Where is a market study that supports building more of what is not selling?

In conclusion, we hope that these comments will be helpful.

aurie Dreyer regident, Oak Knoll Neighbors

Page 12

presented in Section 4.5.1 of the EIS/EIR. The analysis focuses on visual contrast with respect to scale, form, line, color, and texture, as seen from viewpoints within five miles of NMCO, which is the visual/aesthetic region of influence. Temporary visual effects lasting one year or less are not identified as significant. The significance criteria are therefore not fully informative because they do not explicitly state that only visual effects that would last beyond construction are considered significant. The following text was added at the end of the first paragraph of Section 4.5.1:

Only visual effects that would last beyond construction are considered significant.

Response to Comment K-35. Neighborhood labeling relied on the Existing Conditions Report (Theresa Hughes & Associates 1994). We apologize if minor errors in boundaries were replicated in the Draft EIS/EIR. However, we contend that the boundaries as presented are sufficiently accurate to support informed NEPA and CEQA decision- making for environmental and socioeconomic issues in the EIS/EIR that materially depend on neighborhood boundaries. A separate account would not materially improve the ability of the EIS/EIR to support such decisions.

Response to Comment K-36. Comment noted. The analysis is adequate to support informed decision making regarding reuse as proposed uses of public benefit conveyances are consistent with the BIS/BIR alternatives at the program level. Should additional site-specific documentation be required, additional CEQA documentation would be completed.

Response to Comment K-37. The scope of the land use analysis in the EIS/EIR is to evaluate the environmental consequences of Navy disposal and subsequent reuse

Response to Comments Naval Medical Center Oakland Disposal and Reuse Final EIS/EIR

Telemm Amuth Leedan Smith Sequoyah Heights Residents Association

Stand - Colley

Thordie Ashley Ridgemont-at-Skyline Residents Association

Journa Marburg Sandra Marburg Sequoyah Highlands Residents Association Kaile formann Sequoyah Hills/Oak Knoll Residents Association

Lea Maule

Sequoyah Hills/Oak Knoll Residents Association

Louis Hal Sequoyah Hills Residents Association

impacts on existing land use conditions. Navy disposal is a transfer of title and does not affect existing land use conditions. Section 3.1 of the EIS/EIR adequately characterizes land uses surrounding the NMCO site. Section 4.1 of the EIS/EIR evaluates reuse impacts of the preferred alternative (Maximum Capacity Alternative), as presented in the Final Reuse Plan (OBRA 1996). Section 2, Subsection V, and Section 3, Subsection VII, of the Final Reuse Plan (OBRA 1996) provide overviews of the community reuse planning process and the prevailing trends and conditions used in developing the preferred alternative. Examination of building trends and accompanying inferences regarding property values is not appropriate in the EIS/EIR.

Page 13

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Melvin Gage Oak Knoll Heights Townhomes Association Wayanet & 19lyer

Margaret Glyer
Oak Knoll Heights Townhomes Association

Dankan Intheseland

Barbara Sutherland

Oak Knoll/King Estates Residents Association

Minified Walsh
Durant Park Highlands Association

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Letter L

10: Mr Gery Gor Minneraux.
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Response to Comments

Response to Comment L-1. The preferred alternative (Maximum Capacity Alternative) was developed using a careful balancing of several criteria, including the compatibility of housing, retail, educational, recreational, open space, and other land uses. Substantial weight was given to local neighborhoods that participated in the reuse planning process. The Final Reuse Plan (OBRA 1996) describes a reuse planning process that used public meetings, community advisory group participation, and general criteria for evaluating proposals. These criteria included permanently retaining the Club Knoll building, presenting new employment opportunities, protecting the diverse environmental resources of the area, minimizing noise, light, and traffic impacts to local neighborhoods, and many other environmental, quality of life, and economic criteria (OBRA 1996).

This EIS/EIR evaluates potentially significant traffic, noise, and other environmental impacts and recommends mitigation during reuse plan construction. The combined purposes of the reuse planning process and the environmental impacts analysis in this EIS/EIR are to provide decision-makers with adequate information to choose the best plan for the community balanced against the least adverse environmental impacts. Your support for the low-density residential alternative is noted.

Response to Comments Naval Medical Center Oakland Disposal and Reuse Final EIS/EIR

95

November 23, 1996

Draft EIS/EIR Oak Knoll Base
Commanding Officer, Engineering Field Activity West
Naval Facilities Engineering Command
Attn: Mr. Gary J. Munekawa
Environmental Planning Branch
Code 1852GM
900 Commodore Dr.,

Dear Sir:

San Bruno CA 94066-5006

In addition to my comments of November 13th and our Oak Knoll Neighbors submittal of impacts to consider, I would like to add these additional thoughts.

While I appreciate all the hard work being done in this process of the joint EIS/EIR it still appears to me that we receive analysis that is typical of almost all other base closures that are in industrial, port, or outlying areas of the "communities" in which they exist. The single unmitigable impact of importance to the Oak Knoll vicinity is the impact on our property values. We are one of the only (if not the only) base site that is completely we have been told that there is a distinct drop in property values associated with the base closure. Are the proposed uses for Oak Knoll likely to drop our property values? I have many times been referred to the "mortgage recovery division" when I have called Washington DC with questions. Where is this critical property value analysis?

I think a comparison of what other bases have selected chosen for Public Benefit Conveyances would also be enlightening. How do we compare? Having called a number of them I know they have given most of the land to colleges, universities and parks-good 30 year risks. Your knowledge of other base closures most certainly has an impact on this particular base closure. For you can predict what is likely to happen.

In my public comments November 13, 1996 I referred to a very important memo from the Community and Economic Development Agency to Craig Kocian, Oakland City Manager, regarding the "Residential Care facilities study" for the city of Oakland. Reading this study will give you a better understanding of our concerns about a 6 acre institution being located smack in the middle of single family homes. We are not alone in our concerns- we are joined by virtually every organized neighborhood in Oakland, with the concern that Oakland is becoming the "dumping ground" of social services for all of Alameda County.

Response to Comments

Response to Comment M-1. We realize that the chance that property values could decline is unappealing to local residents. However, local and regional property values change in response to several factors. It is just as likely that local property values could either increase or decrease after reuse. Regardless, these changes in property values produce no physical impacts and are not considered as environmental impacts for purposes of NBPA or CEQA.

CEQA requires that economic or social effects of a project shall not be treated as significant effects on the environment. An EIS/EIR may trace a chain of cause and effect from a proposed decision on a project through anticipated economic or social changes resulting from the project to physical changes caused in turn by the economic or social changes. The intermediate economic or social changes need not be analyzed in any detail greater than necessary to trace the chain of cause and effect. The focus of the analysis shall be on the physical changes (Cal. Pub. Res. Code, §\$, 21000, et seq.; Guidelines, § 15131[a]).

This requirement means that there must be a direct physical change in order for that change to be analyzed as a potential environmental act under CEQA. Property values are not physical changes that may be forecast from changes in land use and ownership and are therefore not analyzed because the information supporting such an analysis is lacking, based on conjecture, and not reasonably foreseable (40 CFR, § 1502.22[b][1]). CEQA Guidelines, § 15145, says that "If, after thorough investigation, a Lead Agency finds that a particular impact is too speculative for evaluation, the agency should note its conclusion, and terminate discussion of the impact" (Cal. Pub. Res. Code, §§ 21000, et seq.; Guidelines, § 15145 [Office of

Response to Comments Naval Medical Center Oakland Dispasal and Reuse Final EIS/EIR

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M-2

Lastly and perhaps most importantly, the issues that has been discussed for over 2 years—density. As I mentioned November 13th- you fail to capture the trend of what sells in our community. Density has a direct link to property values. I direct your attention to an article in the Friday November 22, 1996 Montolation (page 22) in which Don Dunning, CRB, CRS a real estate columnist writes:

People spend their thard earned money to buy a home. Invariably, buyers prefer lower density locales to more populated ones. They are seeking peace and quiet. In general, the lower the density the greater the destrability and the kigher the value of the properties.

When People buy they rely on single family zoning as a component of value. If this reliance is shattered by repeated exceptions to the rule, there can be uneasiness about the stability of the area

So it easy to understand our concerns with the implicit re-zoning that would occur with the maximum capacity alternative, and our concerns relative to density of housing. What will these impacts be on our property values?

look forward to hearing your response to these vital questions.

Sincerely,

Laurie Dreyer
Neighbor "Within 100" of the Base"
4301 St. Andrews Rd.
Oakland, CA 94605

Planning and Research 1995])

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Response to Comment M-2. We realize that the chance that property values could decline is unappealing to local residents. However, local and regional property values change in response to several factors. Changes in property values produce no physical impacts and are not considered as environmental impacts for purposes of NEPA or CEQA.

We realize that the nature of the Seneca population is a controversial local issue. However, the City of Oakland feels that supporting assistance to troubled children under the age of 12 serves a valuable socioeconomic purpose. Children are an important resource deserving of support. Speculation regarding any alleged criminal tendencies of these children would be prejudicial. We have chosen to avoid prejudice in the reuse planning process against any group.

Response to Comment M-3. Comment noted. The analysis is adequate to support informed decision making regarding reuse as proposed uses of public benefit conveyances are consistent with the EIS/EIR alternatives at the program level. Should additional site-specific documentation be required, additional CEQA documentation would be completed.

Response to Comment M-4. The scope of the land use analysis in the EIS/EIR is to evaluate the environmental consequences of Navy disposal and subsequent reuse impacts on existing land use conditions. Navy disposal, as a transfer of title, does not directly affect existing land use conditions. Section 3.1 of the EIS/EIR adequately characterizes land uses surrounding the NMCO site. Section 4.1 of the EIS/EIR evaluates reuse impacts of the preferred alternative (Maximum Capacity Alternative) as presented in the Final Reuse Plan (OBRA 1996). Section 2,

Response to Comments Naval Medical Center Oakland Disposal and Reuse Final EISIEIR building trends, density, and accompanying inferences regarding property values is

not appropriate in the EIS/EIR.

provide overviews of the community reuse planning process and the prevailing trends and conditions used in developing the preferred alternative. Examination of

Subsection V, and Section 3, Subsection VII, of the Final Reuse Plan (OBRA 1996)

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Naval Medical Center Oakland
Disposal and Rouse Final FISISI

1255 St. Andrews Rd Cukland, C.A 94605 raile Floaman

November 12, 1996

Engineering Field Activity West Commanding Officer

Naval Facilities Engineering Command

Attention: Mr Gary J. Munekawa, Environmental Planning Branch Code 1852GM

900 Coommodore Drive

San Bruno, C.A 94066-5006

Dear Sir.

l. The report did not give sufficient consideration to the earthquake faults in the immediate I am submitting my written comments on the Draft EIS EIR for the disposal and reuse of the Naval Medical Center Oakland, ž

vicinity. This should have strong implications as to the density of housing, types of facilities (i.e. no schools or hospitals), traffic problems related to possible freeway collapse,

2. The report implied that the residents in the region of influence preferred the maximum single family housing, recreation and golfing, and open space. The process for including density alternative. In fact the majority of residents preferred a plan with low density, the nearby residents" preferences was inadequate. 7-Z

3. Public safety issues are not adequately addressed. There are particular fire hazards in this area that will be exacerbated by increased development, planning for this was not included in the report. Z-3

Sincerely vours.

Gaile Hofmann

Response to Comments

Response to Comment N-1. Seismic impacts were considered nonsignificant under NEPA because no disposal activities proposed in the reuse alternatives would change the potential for earthquakes at the NMCO site. The following text was added as an introduction to Sections 4.8.3, 4.8.4, 4.8.5, and 4.8.6, immediately collowing the heading titled "Public Exposure to Earthquakes";

Seismic impacts are public health and welfare concerns of NEPA [40 CFR Part 1504.1 (b)] and CEQA [Cal. Pub. Res. Code §§ 21000 et. seq; CEQA Guidelines Appx. I, III (b)]. Public safety issues are addressed in this impacts analysis as they separately relate to the Navy's NEPA disposal responsibilities and to the City of Oakland's reuse development responsibilities. Since there are no recently active faults within the site boundary, it is not likely that damage would occur directly as a result of a fault rupture. Instead, damage may occur due to ground shaking, originating on a fault outside the site boundary. The EIS/EIR considered earthquake hazards associated with active faults throughout the San Andreas Fault Zone. The most damaging earthquake to the site could be an earthquake originating on the Hayward Fault. The region of the site contains many faults, but most of them have not been active within the past 11,000 years or more. In general, ground motion decreases away from the fault rupture, so it is possible for a small nearby earthquake to cause more damage than a more distant, but larger Since the Hayward Fault could generate a large earthquake near the site, it probably represents the reasonably expected worst-case earthquake scenario for NMCO. Current seismic codes, based on the California Building Code (CBC), earthquake.

Response to Comments
Naval Medical Center Oakland
Disposal and Reuse Final EISVEIR

require that buildings be designed to withstand a high degree of ground motion without resulting in structural failure that would cause injury. Seismic design standards depend on the shape and height of the structure, its intended use or occupancy, and the type of soil underlying the structure. For some types of structures the CBC requires that site-specific ground motion studies be performed and that the building be designed to withstand these forces. At some locations, the level of ground motion or the presence of liquefiable soils, unstable slopes, or other conditions not foreseen by the CBC may exist. In such cases the minimum design standards of the CBC may not be adequately protective.

Site-specific ground motion studies are required by the CBC for schools, hospitals, and other critical facilities. These studies may be appropriate for some facilities where they are not specifically required to ensure that the safe CBC design objective is met. Future development at NMCO would be required to meet the current CBC standards. It is not necessarily appropriate to design against an extremely infrequent seismic event, such as the maximum credible earthquake.

Response to Comment N-2. The "preferred alternative" designation refers to OBRA's preference of the Maximum Capacity Alternative for reuse planning purposes. We apologize for any implications regarding preferences of the local neighborhoods or that would purport to speak for the representatives of those neighborhoods.

The City of Oakland has given substantial weight to the opinions of the local citizens. Section 2.1.1 of the EIS/EIR provides a thorough review of the OBRA reuse planning process. Section 2.1 of the EIS/EIR, in referring to the meetings held by OBRA, states the following:

Response to Comments
Naval Medical Center Oakland
Disposal and Reuse Final EISER

The neighborhood associations in the immediate area surrounding NMCO played a major role in developing the alternatives. Participating neighborhoods adjacent to or near NMCO are shown in Figure 2-1. An umbrella group for the neighborhoods, Oak Knoll Neighbors, is represented on OBRA's subcommittees and on the Community Action Group.

The purpose of this EIS/EIR is to evaluate the environmental impacts of property disposal and reuse. In meeting that purpose, background information regarding the OBRA reuse planning process has been provided so that decision-makers will be informed regarding the process used in developing the alternatives. This background information indicates that the Oak Knoll Neighbors had a substantial role in developing the alternatives. Throughout the reuse planning process, several changes were made to the land use mixes in the alternatives in direct response to comments by the Oak Knoll Neighbors. Further analysis of the procedural adequacy of the reuse planning process addresses issues that are not related to the analysis of environmental impacts and therefore are beyond the scope of analysis in the EIS/EIR.

Response to Comment N-3. Text was added at the end of public services and biological resources, Sections 4.3.7 and 4.6.7 (analyzing environmental impacts) stating the following:

Vegetation will be controlled during caretaker and reuse operations to the extent necessary as required by all applicable laws and regulations. These operations would include fire breaks and weed control. Clear fire hazard planning (e.g., road circulation patterns, water reservoir capacity,

Response to Comments
Naval Medical Center Oakland
Disposal and Reuse Final EISEIR

and access and exit routes) will be addressed at the reuse site design stage. This EIS/EIR is a program level document that does not address all planning considerations at all levels of detail. It is assumed that specific design standards will require that fire hazard planning and other public safety considerations will be required to comply with all applicable laws, regulations, and codes relating to access and response times of public service providers.

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November 13, 1996

Mr. Gary J. Munekawa Code 1852GM Engineering Field Activity West Naval Facilities Engineering Command 900 Commodore Drive San Bruno, CA 94066-5006 RE: PUBLIC HEARING ON THE DRAFT EIS/EIR HEARING ROOM 2 - CITY HALL OAKLAND CA. DISPOSAL AND REUSE OF NAVAL MEDICAL CENTER OAKLAND

Dear Mr. Munekawa,

This letter to you contains the full text of my oral presentation to the DEPARTMENT OF THE NAVY identifying the neighborhoods demand and reasons why all retail space be eliminated from the base reuse plan. It also maintains that our local govt, officials have blocked our attempt to participate in the base reuse process as allowed by the Base Closure Act.

I also refer you to my letter to you on October 11, 1995 (copy enclosed), my June 11, 1996 letter to William J. Perry - Secretary of Defense (copy enclosed) and my April 24, 1996 to Mr. Paul Nahm - Head of OBRA - Oakland Base Reuse Authority (copy enclosed).

TEXT OF PRESENTATION

My name is Kenneth C. Pementell, former President of the Sequoyah Heights Homeowners Association and an outspoken critic of expanding retail space on the Oak Knoll property which is surrounded by residential neighborhoods.

I am here tonight to inform the Department of the Navy of some major flaws in the current base reuse plan, the reason why these major flaws exit, the negative impact it will have on our neighborhoods if these major flaws are allowed to be implemented and an easy cost effective way to solve the problem.

The major flaw in these base reuse plan alternatives is the INCLUSION OF RETAIL SPACE in these heavily residential neighborhood. There is a well documented link between crime and retail space in the city of Oakland. In the Rockridge District, on College Ave. in the Grand Lake/Lakeshore District, in the Fruitvale District, in the Castlemont District, in the Laurel District and in only a few blocks away in our nearby EASTMONT MAIL.

Just of few blocks away from Oak Knoll Hospital on 73rd Ave. is a large defunct shopping center called EastMont Mall. The major tenants moved away because the huge levels of crime and violence. The customers and many employees were "robbing the place blind". It has become one of the most crime ridden Area in the City of Oakland. The crime and violence was so bad that the city put a POLICE SUBSTATION on the site to protect the residents from the moivilized behavior of the criminals.

Just a few blocks south of the main gate to the Oak knoll Hospital near 98th Ave. And mountain Blvd. Is a small retail areas where a recent armed robbery took place at the entrance to Knowland. The criminals were so brazen that they robbed the Ranger Station at the entrance to the park. The iquor store and gas station (which also Sells liquor) are problem retail outlets.

At Ridgemont Plaza, a new retail strip center adjacent to Oak Knoll on Keller Ave. An armed robbery took place just 30 DAYS after a Round Table Pizza opened its doors. It has been robbed twice since then.

I could go on and on, but the point I am making here is that the Navy Hospital at Oak Knoll has acted as a buffer zone surrounding residential properties an insulating from the crime that follows retail establishment in the city of Oakland. We will miss you! It doesn't take as a rocket scientist to see which way crime is heading and the opportunity that retail space provides for the scumbags of our city.

Conspicuously absent from OBRA records is the city grandiose plan to put an EASTMONT MALL style shopping center just as a few blocks north of the Oak Knoll property on the site of the Leona Quarry on mountain blvd.

Response to Comments

Response to Comment O-1. CEQA requires that economic or social effects of a project shall not be treated as significant effects on the environment. An [EIS/]EIR may trace a chain of cause and effect from a proposed decision on a project through anticipated economic or social changes resulting from the project to physical changes caused in turn by the economic or social changes. The intermediate economic or social changes need not be analyzed in any detail greater than necessary to trace the chain of cause and effect. The focus of the analysis shall be on the physical changes (Cal. Pub. Res. Code, §§ 21000, et seq.; Guidelines, § 15131[a]).

This requirement means that there must be a direct physical change in order for that change to be analyzed as a potential environmental impact under CEQA. California courts have not considered crime as an environmental impact. For example, In Baird v. County of Contra Costa, 32 Cal. App. 4th 1464, 1470, fn 2, 38 Cal. Rptr. 2d 93 (1995), a petitioner's "claim of increased crime problems" from a project "is not a proper subject of CEQA inquiry," based on the reasoning found in Cal. Pub. Res. Code, §§ 21000, et seq.; Guidelines, § 15131(a). Similarly, "The economic impact on small businesses and property values" did not trigger CEQA in Citizens Action to Serve All Students v. Thornley, 222 Cal. App. 3d 748, 757-758, 272 Cal. Rptr 83 (1990).

Although local experience regarding existing crime rates is an important consideration, there is no reasonable basis for assuming that increased crime will unavoidably result upon reuse. Crime may increase or decrease locally. This EIS/EIR has analyzed the need for police services in Sections 3.3 and 4.3, and

Response to Comments
Naval Medical Center Oakland
Disposal and Reuse Final EIS/EIR

When the Quarry Shopping Center is rammed down our throats by the city, the retail space at Oak Knoll will house crime magnet businesses like an all night laundry, beeper stores and check cashing outlets. The FLAW IS THAT RETAIL SPACE BE INCLUDED IN THE REUSE PLAN

The Oak Knoll Neighbors do not want it in our residential neighborhoods

HOW DID THIS FLAW BECOME PART OF THE BASE REUSE PLAN?

After two years of attending CAG (Community Action Group) and OFIRA (Oakland Gardner were at every turn overtly and covertly blocking any attempt by Oak Knoll neighbors to participate in the base conversion process as require by the Federal OBRA headed by Mr. Paul Nahm and former Oakland City Manager Mr. Henry Base Reuse Authority) meeting it became excruciatingly clear that members of Base Closure Act.

arrogant condescending manner treated the Oak Knoll neighbors with utter destain. These individuals along with the Mayor, Mr Elihu Harris - OBRA member in an

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Henry Gardner warned OBRA members that "they would pay as a terrible price for At as a subsequent televised OBRA meeting regarding another base closure, Mr. what they had done to the Oak Knoll Neighbors" After as a visit to Theresa Hughes & Associates, I was informed by here office that hey would not even consider the social consequences to the citizens and taxpayers because they were being funded by the city too create alternative uses for the base would be cost effective to the city and produce revenue to the city and GET THIS, property, that Teresa Hughes and Associates would only provide alternatives that

In my opinion, not only did our over paid govt. officials and consultants do as a far less than mediocre job, they betrayed the public trust.

enhance the ability of decisionmakers to make an informed decision regarding generally recommends adequate mitigation for significant impacts in Section 4.3. Further speculation regarding uncertain future trends in local crime would not reuse, and is therefore not included. Response to Comment O-2. Comments noted. Social consequences have been The City of Oakland has given substantial weight to the opinions of the local Section 2.1.1 of the EIS/EIR provides a thorough review of the OBRA Section 2.1 of the EIS/EIR, in referring to the meetings considered in this EIS/EIR. Please see Sections 3.2, 4.2, and 5.6 of the EIS/EIR. held by OBRA, states the following: reuse planning process. citizens.

The neighborhood associations in the immediate area surrounding Participating neighborhoods adjacent to or near NMCO are shown in Figure 2-1. An umbrella group for the neighborhoods, Oak Knoll Neighbors, is represented on OBRA's subcommittees and on the alternatives. NMCO played a major role in developing the Community Action Group The purpose of this EIS/EIR is to evaluate the environmental impacts associated The Oak Knoll Neighbors had a Throughout the reuse planning with reuse. Background information regarding the OBRA reuse planning process has been provided so that decision-makers will be informed regarding the process process, several changes were made to the land use mixes in the alternatives in direct response to comments by the Oak Knoll Neighbors. Further analysis of the procedural adequacy of the reuse planning process addresses issues that are not substantial role in developing the alternatives. hat was used in developing the alternatives.

Response to Comments Naval Medical Center Oakland Disposal and Reuse Final EIS/EIR

related to the analysis of environmental impacts and therefore is beyond the scope

of analysis in the EIS/EIR.

Response to Comment 0-3. Comment noted. Please see response to Comment O-

THAT WAS HOW THE MAJOR FLAWS BECAME PART OF THE BASE REUSE ALTERNATIVE PLANS 0.5

The negative impact of devaluing our property values and increased criminal activity of this major flaw can be overcome by as a simply cost effective decision NOT to include retail space in the plan. The OAK KNOLL NEIGHBORS DON'T WANT RETAIL INCLUDED IN THE BASE REUSE PLAN. સં 0-3

CONCLUSION OF ORAL PRESENTAION

If you require any additional information please contact me directly.

Very best regards

Him

Kenneth C. Pementell - Former President of Sequoyah Heights Homeowners Assoc.

19 Heritage Oakland, CA. 94605-4606

Disposal and Reuse Final EIS/EIR Response to Comments

October 11, 1995

Mr. Gary Munekawa
Code 1852GM
Engineering Field Activity West
Naval Facilities Engineering Command
900 Commodore Drive
Sam Bruno, CA 94066-5006

RE: EIS/EIR OAK KNOLL HOSPITAL REUSE PLAN
DELETION OF ALL RETALL SPACE FROM THE PLAN

After attending and speaking at a recent meeting at Oak Knoll Hospital, and conversations with Mr. Barry Cromarte, Principle Planner-Military Base Conversion Unit-City of Cakland Base Reuse Authority, I am writing this letter to involve myself in the reuse selection process.

I am strongly requesting that ALL RETAIL SPACE CONSIDERATIONS BE DELETED FROM THE REUSE PLAN.

For those important people who may not have lived in or know much about Oaldand and will make decisions concerning the reuse plan, I offer the following background and preface for my closing comments.

As a native, long time resident of Oakland and former president of the Sequoyal Heights Homeowners Association, I have seen the crime, the poverty, the violence and disgusting uncivilized behavior spread like an uncontrollable social cancer beginning in the 1950's from downtown Oakland along the north-south corridor streets of MacArther Blvd, Foothill Blvd Bancroft and E. 14th Street, all the way to the city of Hayward and along the east-west corridor streets of 23rd Ave., Park Blvd, 35th Ave., High Street. 73RD AVENUE AND 98TH AVENUE.

Just a few blocks below the OakKnoll Hospital on 73 AVENUB is a large definct shopping center called EastMont Mall. The major tenants moved away because of the crime and violence. The customers and many employees were "robbing the place blind". It has become one of the most crime ridden areas in the City of Oakland. A POLICE SUBSTATION has taken over part of the shopping center.

Just a few blocks below the OakKnoll Hospital on 98TH AVENUE is a small retail area where a recent armed robbery took place at the entrance to Knowland park. The liquor store and gas station (which also sells liquor) are problem retail outlets.

At Ridgemont Plaza, a new retail strip center adjacent to OakKnoll on Keller Ave. an armed robbery to place JUST 30 DAYS AFTER THE ROUND TABLE PIZZA OPENED IT'S DOORS. It has been robbed twice since that time.

Attachment - no response required

Attachment – no response required

Robberies have occurred at the OakKnoll Market on Mountain Blvd. only a few thousand yards from the entrance to OakKnoll. Just one day after the recent OakKnoll meeting took place, a robbery took place at a retail store next to a freeway on amp. Someone died in that robbery. A woman was assaulted by a man with knife just a few blocks above the Montclair retail district.

direction in which this crime trend is heading and the opportunity that retail space provides for the I could go on and on. The point I am making here is that OakKnoll facility has acted as a buffer zone for the surrounding residential properties. It doesn't take a rocket scientist to see the scumbags of our city. My intention in writing this letter is not to offend any of the people involved in deciding whether retail space should be included or not included in the reuse plan, but given the background regarding the link between violent crime and retail space ,the following must be said in favor of having retail space considerations removed from the base reuse plan: GIVEN THE FACTS, THE REMOVAL OF RETAIL SPACE CONSIDERATION FROM THE BASE REUSE PLAN MUST BE IMPLEMENTED. IT IS THE DUMBEST, NO THE MOST APPALLINGLY STUPID AND IGNORANT IDEA TO HAVE RETAIL SPACE INCLUDED IN THIS PLAN.

Please contact me to discuss this matter.

Very best regards

Cenneth C. Pementel (Third

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Oakland, CA. 94605-4606

Oakland Base Reuse Authority Mr. Barry Cromarte - Principal Planner, Military Base Conversion Unit Mr. John Kennedy - Head Environmental Planning - EFA West Ms.. Juanita Buda - Head Planning Dept. Oakland Naval Media Mr. Paul Naham ႘

Head Planning Dept. Oakland Naval Mediacal Faciltity

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June 11,1996

William J.Perry, Secretary of Defense Department of Defense 3300 Defense Pentagon - Room ID - 760 Washington, D.C. 20301-3300 RE: Oak Knoll Navel Military Base Closure - Petition For Writ of Mandate Superior Court of the State of California County of Alameda - Dept 81

Honorable Judge Sandra Marguiles
Filed April 9, 1996 - Case No. 765825-1

Dear Mr. Perry,

As a model for the nation regarding the closure of military bases and their reuse in the private sector, I am outraged at the process by which our local govt. officials have conducted themselves. Our local govt. officials (OBRA - Oakland Base Reuse Authority) has squandered several hundreds of thousands of dollars paid to incompetent local individuals and a former city manager intent on excluding the public from our lawful right to participate in the base reuse process.

Oak Knoll Military Base is completely surrounded by residential neighborhoods, with upscale housing worth about a billion dollars in property values. On March 28, 1996, the Local Base Reuse Authority, in a surprise vote (not on the official agenda) included two (2) Non- Profit organizations in the Base Reuse Plan

We question the integrity of these non-profit organizations as we have evidence that they have illegally lobbied our local officials and their inclusion in the base reuse plan will undermine the ability of private developers to produce a stable local tax base for the area.

Our local Oakland Base Reuse Authority has been so remise in their responsibilities as to participate in an illegal vote to build an elementary school for one of the non-profit organizations directly over the Hayward earthquake fault which is in direct conflict of our state laws.

Attachment - no response required

Attachment - no response required

I cannot over emphasize the urgency of your intervention in this matter as I fear that the local officials have run amuck with confusion and greed regarding closure of the many military bases in the San Francisco bay area.

director Mr. Paul Nahm, we, the private citizens living adjacent to the Oak Knoll property are demanding that the Federal Govt. (Department of Defense) step in and intervene with a review of our pertition. We respectfully request that you contact the Chair of the Oakland Base Reuse authority, our Mayor Mr. Elibu Harris on our behalf.

After more than two years of local politicians sucking up our tax dollars and being totally dissatisfied with the seven (7) members of the Oakland Base Reuse Authority and its Executive

Please acknowledge the receipt of this letter regarding the enclosed Amended Petition for Writ of Mandate

Respectfully submitted.

Para De Mar

Kenneth C. Pementell

encl: Amended Writ of Mandate Petition

CC: William Clinton - President of the United States of America

Attachment - no response required

April 24, 1996

Oakland Base Reuse Authority C/O Paul Nahm 1333 Broadway - 9Th Floor Oakland, CA. 94612

RE: Draft Reuse Plan

Dear Members of the Oakland Base Reuse Authority

For over two years, very large numbers of Oak Knoll Neighbors (A coalition of over twelve neighborhood associations consisting of over 6500 families) have been attending CAG (Community Action Group) and OBRA (Oakland Base Reuse Authority) meetings making our citizen demands on how redevelopment of the Oak Knoll Naval Hospital facility would best benefit the city and the surrounding neighborhoods. Our demands have been made excruciatingly clear to our local government officials.

We feel that these same government officials have, in an arrogant and condescending manner, deceived and intentionally mislead the citizens of Oakland in the base reuse process with secret meetings and other violations of the law as described in our lawsuit filed in Alameda County on April 9, 1996 with the Superior Court of the State of California petitioning the court for a Writ of Mandate (CASE NO. 765825-1)

This lawsuit maintains that the Oakland Base Reuse Authority in its utter disdain for the taxpayers and citizens of Oakland acted in a manner that constitutes the following: Violation of the Brown Act, Abuse of Power, Conflict of Interest, Violation of the Fair Records Act, The Freedom of Information Act, Illegal Lobbying and denial of Due Process of Law to the Oak Knoll Neighbors

This letter is to formally request that OBRA void the Draft Reuse Plan that was illegally approved by OBRA on March 28, 1996 and reinstate the Proposed Reuse Plan of March 11, 1996 along with the items listed in the Letter from Oak Knoll Neighbors to the Members of OBRA dated April 17, 1996 (Copies of both plans and the Oak Knoll letter enclosed).

incredibly stupid people on the planet or are involved in the allegations listed in our took place at the April 22, 1996 meeting in which government-funded members of these non-profit groups masqueraded as Oak Knoll neighbors voicing support for In addition, if the members of OBRA truly believe the orchestrated charade that their own cause, then without a doubt, the members of OBRA are the most lawsuit. Finally, we are making a formal public request to our Mayor - Elihu Harris and our City Manager - Craig Kocian for a full and relentless investigation of the improprieties alleged in our lawsuit. We request that the severest of actions be taken against those individuals who would so blatantly abuse the public trust.

Regards,

Kenneth C. Pementell - Former President of Sequoyah Heights Homeowners Assoc. 19 Heritage Oakland, CA 94605-4606

Federal Communications Commission ပ္ပ

Mayor Elihu Harris Craig Kocian

Natalie Bayton Dick Spees

Dezi Woods-Jones

Mayor Ralph Appezzato Eugene Leong Nate Miley

Mary King

Sandre Swanson Thordie Ashley

Oakland Tribune Laurie Dreyer

Montclarion

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Planning and Management, who will address the District's concerns with regard to impact and mitigation. Thank you.

CHAIRMAN DE LUCA: Thank you.

r. Dias.

MR. DIAS: Good evening. I would like to thank you --- CHATEMAN DE LITTA: Diese of the ne wait

CHAIRMAN DE LUCA: Please give us your name, you are being recorded.

MR. DIAS: My name is Robert Dias, I am the Assistant Superintendent, Facilities Planning and Management, Oakland Unified School District.

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CHAIRMAN DE LUCA: Thank you.

MR. DIAS: I'd like to thank you for this opportunity to address the impact of this project on the Oakland Unified School District.

As you know, on the Draft Combined Environmental Impact Statement and Environmental Impact Statement and Environmental Impact Report for the disposal and reuse of the NMCO, including the preferred use alternative selected by OBRA, identifies the impact of the preferred Reuse Plan on schools as a significant mitigable impact. We agree with this analysis, and in fact the District's own analysis indicates that this impact may be even greater than the

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Response to Comments

Response to Comment P-1. [Note to Readers]: Comment P-1 represents the commentor's verbal presentation during the public hearing of comments presented in Comments H-1 to H-9. Please see the responses to Comments H-1 through H-9. In addition, please see responses to Comments I-1 through I-16 and accompanying revised analysis of the impacts of reuse on schools, which addresses school overcrowding. These responses provide further clarification regarding these socioeconomic issues.

The responsibilities of the federal government are presented in Section 1.3 of the Draft EIS/EIR. Those responsibilities do not extend to mitigation for impacts resulting from reuse.

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impact identified in the EIS/EIR.

The District disagrees emphatically, however, with the conclusion that the proposed mitigation measure would reduce this impact to insignificance. That mitigation measure places the burden of housing students generated by this project on the District; a District already stretched beyond its resources to accommodate its current students, class-size reduction in the elementary schools, and anticipated further growth through the 25 years during which the impact is measured. To mitigate these impacts, the District is in the process of reconfiguring its schools and has instituted year-round schooling at every feasible school.

The District respectfully requests a replacement of the proposed inadequate mitigation measure with the following mitigation measures:

A new permanent elementary school be provided for grades K-5, paid for and on land conveyed to the District by the federal government;

Permanent additions be provided at the middle and high school levels affected to house the number of students estimated to be generated

LOTUS REPORTERS

P-1 13

by the Reuse Plan, paid for by the federal government. If additional land is required in order to expand facilities at these grade levels, that additional land be provided adjacent to the schools to accommodate the additional facilities, also paid for by the federal government.

A CONTRACTOR

Before the approval of any contract or permit to participate in the Reuse Plan, each developer be required to enter into an agreement with the School District to fully mitigate the impact on the District of new development pursuant to the Reuse Plan.

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The preferred reuse alternative, dubbed the Maximum Capacity Alternative for the development of NMCO recommends, among other things, the development of 550 units of single- and multi-family housing. The EIS/EIR concludes that the Maximum Capacity Alternative will have significant and mitigable impacts on schools.

According to the Draft BIS/BIR, all schools serving the NMCO area were at or near dapacity as of 1995. In fact, the entire School District was at 97.5 percent of capacity during the 1995-96 school year. Within ten years, enrollment is expected to increase by approximately 23.5

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LOTUS REPORTERS

P-1 14

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percent without the NMCO Reuse Plan. Enrollment would then exceed current capacity by approximately 20 percent.

The Draft EIS/EIR concludes that the Maximum Capacity Alternative would generate approximately 805 students annually by the year 2020. The housing proposed in the NMCO Reuse Plan would generate approximately a 22.4-percent increase over 1994 enrollment in the Oak Knoll study area schools. Thus the NMCO Reuse Plan creates a significant cumulative impact.

The District will need facilities, staff and programs to accommodate the cumulative District-wide impact of the students generated by this Reuse Plan, other District growth and expanding class-size reduction. While state and local funding supports the District's operational costs, no funding exists for the provision of classrooms and related facilities to house these anticipated students.

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The District therefore requests the stated mitigation measure be replaced by mitigation measures providing for land for a new elementary school site and financial support for additional school facilities to accommodate students

LOTUS REPORTERS

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generated by this project and other District growth.

According to the distribution of students by grade level provided by the District recently prepared developer fee justification study, after reuse, annually an additional 483 students will require elementary facilities, 145 will require middle-school facilities and 177 will require high-school facilities.

For each new student generated by this Reuse Plan, the District -- District's recently prepared development -- developer fee justification study projects the cost of housing to be approximately 34.9 thousand dollars for new facilities. The cost of housing all students generated by the Reuse Plan in new facilities appropriate to the grade level would be approximately 29.9 million dollars.

For reconstructed facilities, the student cost of housing would be approximately 12,000.

For modular portable classroom facilities the cost would be approximately 5,000 per student, not including the cost of land on which to locate these portable classrooms and of multipurpose rooms and other adjunct facilities. The use of

LOTUS REPORTERS

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portable classrooms is only a viable option as a solution for short-term facility needs. Portable classrooms are temporary buffers to accommodate cyclical patterns of enrollment, growth and decline. Since long-term enrollment projections indicate steady increase in enrollment, provisions must be made for permanent facilities.

MR. BRYANT: The speaker's time is expired.

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CHAIRMAN DE LUCA: That's all right, I believe the previous speaker ceded part of her five minutes for Mr. Dias. So continue, please.

MR. DIAS: Thank you.

The elementary-school students generated by the Reuse Plan are sufficient to require an entire new elementary school, one for which the bistrict has no funding. An elementary school requires 10 acres by state standards. The cost to obtain a site and build a new elementary school in or near the Oak Knoll study area is estimated at 16.7 million dollars.

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This would accommodate only 60 percent of the students generated by the Reuse Plan, with the secondary students requiring an additional facilities at the appropriate grade levels. When

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class-size reduction in the District is implemented beyond the first-grade level, the anticipated impact of the Reuse Plan at the elementary-grade level will be even greater.

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The most viable site for a new elementary school is within the boundaries of the NMCO. Because of the absence of undeveloped space in Oakland, any other site could involve expensive negotiations or even eminent domain.

Additional students at the middle- or high-school levels will require additions to the existing schools at those levels. Additions to those schools will only be feasible if space on the existing sites allows for expansion. If not, additional space near these facilities would have to be acquired to accommodate the increased student load.

Busing is not a viable option for the District, because of its impact on the educational process of students in the District, the opposition of parents and the cost.

The mitigation measure in the Draft EIS/BIR makes financing and construction of new facilities to accommodate students generated by the Reuse Plan a District responsibility. Since

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the City will want to expedite the economic advantages of proceeding with the Reuse Plan when a developer or developers are selected, it is important that the City Council make the commitment now to mitigate this Reuse Plan sufficiently. In light of California case law requiring developers to mitigate the impact of new development on school facilities, the District urgently requests that the City Council require as a mitigation measure that a prerequisite to all new development, residential and/or commercial, be that the District and the developers enter into agreements to fully mitigate the remaining impact of new development on school facilities.

The District also requests that financing of construction and the conveyance of land to the District for an elementary school within the residential portion of the reuse-plan area be added as a mitigation measure. It also requests that financing of additions at the middle- and high-school levels be added. These mitigation measures must be adopted now in order to accommodate students generated by the Reuse Plan. This is a responsibility of the federal

LOTUS REPORTERS

Kenneth C. Pementell, followed Laurie Dreyer, Gaile Hofmann, says she would like another opportunity to present its needs to the government and must be included in the RIS. It is also a responsibility of the City as a lead agency for the EIR. The District may not have Did you wish that the written portion of We thank you for your attention on this City and have them imposed on new developers. your oral presentation be introduced into the And the speaker following No questions for Mr. Dias? Call the next speaker, please. CHAIRMAN DE LUCA: Thank you, Thank you. to give her time to Laurie Dreyer. Thank you, sir. MR. DIAS: Yes, please. Okay. CHAIRMAN DE LUCA: CHAIRMAN DE LUCA: CHAIRMAN DE LUCA: by Laurie Dreyer. MR. BRYANT: MR. DIAS: urgent matter. Mr. Dias. record? 10 7 17 13 14 16 17 20 21 22 **p-1**

name is Kenneth Pementell, former president of MR. PEMENTELL: Good evening, everyone. the Sequoya Beights Bomeowners Association,

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L.);

I have two comments I'd like to make before beginning my presentation. The first is that, as Oak Knoll neighbors, we are certainly going to miss the Navy. You were both good friends and good neighbors to us all, and we wish you were going to stay.

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Secondly, I'd like to point out for members of the press and for the record, Chairman De Luca's early comment in which he stated that he would like to limit the input of individuals speaking, and if it was up to him he wouldn't allow even the five minutes that the Navy would allow, but he would bring it down to a two-minute time frame, this has been the situation we have been up against with the City over the last two-and-a-half years, so I just thought I'd bring that to everyone's attention.

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P-3

I'm here tonight to inform the Department of the Navy of some major flaws in the current base Reuse Plan, in the effect that it will hav on our neighborhoods, and what cost-effective ways we can use to solve those problems.

The major flaw in the reuse plan is the

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The major flaw in the reuse plan is thinclusion of retail space in these heavily residential neighborhoods. There's a

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Response to Comment P-2. Comment noted. Thank you.

Response to Comment P-3. Comment noted. The Chairman retained discretion regarding allowable times for speakers.

Response to Comment P-4. Comment noted. Your attendance is appreciated.

Response to Comment P-5. The scope of the land use analysis in the EIS/EIR is to evaluate the environmental consequences of Navy disposal and subsequent reuse Impacts on existing land use conditions. Navy disposal is a transfer of title and does not affect existing land use conditions. Section 3.1 of the EIS/EIR adequately characterizes land uses surrounding the NMCO site. Section 4.1 of the EIS/EIR evaluates reuse impacts of the preferred alternative (Maximum Capacity Alternative), as presented in the Final Reuse Plan (OBRA 1996). Section 2, Subsection V, and Section 3, Subsection VII, of the Final Reuse Plan (OBRA 1996) provide overviews of the community reuse planning process and the reasoning used to develop the land use mixes in the preferred alternative.

We realize that the chance that property values could decline is unappealing to local residents. However, local and regional property values change in response to several factors. Changes in property values produce no physical impacts and are not considered as environmental impacts for purposes of NEPA or CEQA.

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well-documented -- documented link between crime and retail space in the City of Oakland. In the Rockridge district, the College district, Grand Avenue, Lakeshore, Fruitvale, Castlemont, Dimond and Laurel, and only a few blocks away in our Eastmont Mall district, which is nearby.

...

City of Oakland had to put a police substation on and violence was so bad, in fact, that the shopping center called Bastmont Shop Mall. The The tenants -- the major tenants moved away because Hospital, on 73rd Avenue, is a large, defunct customers and many employees were robbing the Just a few blocks away from Oak Knoll It has become one of the most crime-ridden areas in the City of Oakland. of huge levels of crime and violence. The the site to protect the residents from the the criminals. uncivilized behavior of place blind. crime

Just a few blocks south of the main gate of the Oak Knoll Hospital, near 98th Avenue and Mountain Boulevard, is a small retail area where a recent armed robbery took place at the entrance to Knowland Park. The criminals were so brazen, that they robbed the Ranger Station at the entrance to the park. The liquor store and the

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Response to Comment P-6. CEQA requires that economic or social effects of a EIS/EIR may trace a chain of cause and effect from a proposed decision on a project through physical economic or social changes. The intermediate not be analyzed in any detail greater than necessary to trace the chain of cause and effect. The focus of the analysis shall be on the physical changes. (Cal. Pub. Res. Code, §§ 21000, et seq.; Guidelines, § An project to project shall not be treated as significant effects on the environment. resulting from the anticipated economic or social changes economic or social changes need changes caused in turn by the 15131[a])

change to be analyzed as a potential environmental impact under CEQA. California 2d 93 (1995), a petitioner's "claim of increased crime problems" from a project "is Res. Code, §§ 21000, et. seq.; Guidelines, § 15131(a). Similarly, "The economic mpact on small businesses and property values" did not trigger CEQA in Citizens This requirement means that there must be a direct physical change in order for that not a proper subject of CEQA inquiry," based on the reasoning found in Cal. Pub. or a CEQA Action to Serve All Students v. Thornley, 222 Cal. App. 3d 748, 757-758, 272 Cal. App. 4th 1464, 1470, fn 2, 38 Cal. not recognized as either a NEPA impact. environmental issue, and is therefore not analyzed in the EIS/EIR. an environmental Baird v. County of Contra Costa, 32 Cal. not considered crime as Rptr 83 (1990). Crime is

NEPA analysis of these indirect effects (40 CFR § 1508.8(b)) with respect to the appropriate regional and local contexts (40 CFR §1508.27[a]) and a balanced consideration of the adverse nature, public health and safety implications, geographic and ecologically critical areas involved, likely future controversy, uncertain or unknown risks, precedential inference, and related measures of the

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Response to Comments Naval Medical Center Oakland

intensity of these indirect effects does not warrant identifying them as significant (40 CFR § 1508.27[b])

gas station, which also sells liquor, are problem

At Ridgemont Plaza, a new retail strip

retail outlets.

Avenue, an armed robbery took place just 30 days

after a Round Table pizza parlor opened its

adjacent to the Oak Knoll complex on Keller

opening. And between the time that I wrote this

It has been robbed twice since their

P-6

armed robbery at that same complex in the copy letter and my arrival here, there was another

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shop on Keller Avenue north of the Oak Knoll

property.

Response to Comment P-7. Comment noted. Thank you. Please see response to comments P-5 and P-6. Response to Comment P-8. Comment noted. Thank you. Please see response to comments P-5 and P-6.

> And I could go on and on, but the point I'm from crime that follows retail establishments in doesn't take a rocket scientist to see which way opportunity that retail trying to make here is that the Oak Knoll Naval facility has acted as a buffer zone surrounding those residential properties, insulating them We will miss you. the City of Oakland.

Conspictously absent from the OBRA records is the city's grandiose plan to put an Eastmont Mall-style shopping center just a few blocks north of the Oak Knoll property at the Leona

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space provides for the scumbags of our city.

crime is heading and the

LOTUS REPORTERS

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P-7

quarry on Mountain Boulevard. When the Quarry Shopping Center is rammed down our throats by the City, the retail space at Oak Knoll will house crime-magnet businesses like all night laundries, beeper stores and check-cashing outlets.

The flaw in this plan is that retail space is included in the plan. The Oak Knoll Neighbors do not want our residential neighborhoods involved in any additional retail space.

۰ م Secondly, how did this flaw become part of the Reuse Plan? After two years of attending CAG and OBRA meetings, it became excruciatingly clear that the members of OBRA, headed by Mr. Paul Nahm and former Oakland City Manager Henry Gardner, were at every turn overtly and covertly blocking any attempt by Oak Knoll neighbors to participate in the base conversion process as required by the Federal Base Closure Act.

MR. BRYANT: Speaker's time has expired. CHAIRMAN DE LUCA: Would you please wrap

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up, Mr. Pementell?

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MR. PEMENTELL: Give me just a moment to recoup here, and I will, yes.

One final comment: At a subsequent televised OBRA meeting regarding the OBRA base

P-10 25

LOTUS REPORTERS

Response to Comment P-9. The City of Oakland has given substantial weight to the opinions of the local citizens. Section 2.1.1 of the EIS/EIR provides a thorough review of the OBRA reuse planning process. Section 2.1 of the EIS/EIR, in referring to the meetings held by OBRA, states that "The neighborhood associations in the immediate area surrounding NMCO played a major role in developing the alternatives. Participating neighborhoods adjacent to or near NMCO are shown in Figure 2-1. An umbrella group for the neighborhoods, Oak Knoll Neighbors, is represented on OBRA's subcommittees and on the Community Action Group."

The purpose of this EIS/EIR is to evaluate the environmental impacts associated with reuse. Background information regarding the OBRA reuse planning process has been provided so that decision-makers will be informed regarding the process that was used in developing the alternatives. The Oak Knoll Neighbors had a substantial role in developing the alternatives. Throughout the reuse planning process, several changes were made to the land use mixes in the alternatives in direct response to comments by the Oak Knoll Neighbors. Further analysis of the procedural adequacy of the reuse planning process addresses issues that are not related to the analysis of environmental impacts and therefore is beyond the scope of analysis in the EIS/EIR.

Response to Comment P-10. Comment noted.

Response to Comments
Naval Medical Center Oakla
Disposal and Reuse Final EIS

125

P-9

Response to Comment P-11. Record entries noted and addressed in responses to

comments O-1 through O-3.

Response to Comment P-12. Correction noted. Site clearing, not construction,

was being done at the Leona Quarry site.

2 members that they would pay a terrible price for 3 what they had done to the Oak Knoll neighbors.

P-10 4 My point to the Navy is, we're sorry you're

closure, Mr. Henry Gardner warned the OBRA

My point to the Navy is, we're sorry you're leaving, but we cannot overemphasize the neighborhood's desire to have retail space

CHAIRMAN DE LUCA: Thank you,

eliminated from this project.

Mr. Pementell. As much as you were reading your speech, perhaps you may want to introduce that also into the record.

MR. PEMENTELL: Yes, I have done also.
have personally given a copy to Mr. Gary
Munekawa.

GEAIRMAN DE LUCA: I believe you want to give is to Mr. Bryant. He's the secretary of the Commission. Then we'll know that it will be introduced into the record and made part of the record. Thank you.

MR. PEMENTELL: Yes, I'll do that.

CHAIRMAN DE LUCA: Also, I'd like to take this opportunity to make a correction that during the presentation by Mr. Pomeroy, reference was made to the fact that the Leona Quarry was under construction. It is not under construction. It

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LOTUS REPORTERS

Response to Comments
Naval Medical Center Oakland

126

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P-11

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was a site clearing.

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Thank you, Mr. Pomeroy. Thank you, Mr. Pementell. The next speaker, please. MR. BRYANT: Chair De Luca, would you like -- this is Laurie Dreyer, I believe. Would you like me to allow her two five-minute slots?

CHAIRMAN DE LUCA: I believe someone also receded her time.

MS. DREYER: I'll try to make it quicker.

If you can listen quickly, I can talk quickly.

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what we are seeing is new information, not repetitive information. Therefore, to the extent that any speaker has anything new to add, we certainly welcome. But we don't want to be repetitive, the same thing over and over again. We're trying to learn what's going on, and that's the only way we'll learn. Thank you.

MS. DREYER: My attempt is specifically to address those issues that I think were flawed in

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CHAIRMAN DE LUCA: Very good. Thank you.

MS. DREYER: My name is Laurie Dreyer. I'm the president of Oak Knoll Neighbors,

Mr. Pementell mentioned that name. Oak Knoll

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LOTUS REPORTERS

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We have neighborhood organizations that surround the Oak way up to Skyline and across the entire section; been banding together for about two years now to Knoll Naval Base. These are neighborhoods that go down to the MacArthur Boulevard area all the try to have a positive impact on this process. Neighbors is a consortium of twelve different they completely surround the Naval Base. we are acronym junkies now. And

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P-13

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absolutely flawed. The immediate vicinity around the Naval Base absolutely was not in favor of the EIS/EIR report that City policy actually looks at ť vicinity, not just anybody who lives in Alameda is the far more direct region There is the region I'd like to address four primary issues. This is Maximum Capacity Alternative. Eleven hundred process of Alameda signatures were put in from the immediate of influence of those who live around the County, and it's interesting to note in One is that the report implies that the neighborhoods did agree to the plan. two regions of influence. influence by base closure County, but there

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So I know what I'm My home appears on every map I have ever seen in this whole process.

P-15

LOTUS REPORTERS

Response to Comment P-13. Comment noted. The Oak Knoll Neighbors have

had major impacts on the process

Response to Comment P-14. The "preferred alternative" designation refers to OBRA's preference of the Maximum Capacity Alternative for reuse planning purposes. We apologize for any implications regarding preferences of the local neighborhoods or that would purport to speak for the representatives of those neighborhoods. The "Establishing the Region of Influence" subsection in Section 5.6 was revised with the following text:

nature of the impacts associated with disposal and reuse, if any, would The City of Oakland and the Oak Knoll study area have been environmental justice issues. Detailed analysis focuses on the Oak Knoll study area using data from census tracts adjoining NMCO. The generally occur at the neighborhood level within the immediate for of influence relevant region the vicinity of NMCO. established as

Response to Comment P-15. Comment noted. The Navy and the City of Oakland respect the quality of life concerns expressed by local residents.

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talking about. I live right on the Base. I'd like to agree with Mr. Pementell, the Navy has been very good -- they have been very good neighbors, when there have been issues they have been extremely responsive.

P-16

P-17

Flaws in the process that I think are important and neglected in the BIS/BIR process, I don't know where you would have included them, include that there's a group called the Community Advisory Committee that was a part of the base closure process that met for over two years. There was never a chair, there was no process, there were no voting guidelines. In fact, the neighborhoods were told -- after two years of being told that they could vote as members of the Community Advisory Committee, they were then told they couldn't vote. And in the end there was no vote.

So to imply that the people in the immediate vicinity agreed with this plan is -- is flawed.

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With all due respect to Mr. Blair, he came in at the very end of the process, and I don't think he was ever privy to some of the problems, process problems, that we brought up repeatedly

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Response to Comment P-16. Comment noted. Respondent lives very near to the

Response to Comment P-17. Comment noted. The Navy is proud of its past relations with local residents.

Response to Comment P-18. The "preferred alternative" designation refers to OBRA's preference of the Maximum Capacity Alternative for reuse planning purposes. We apologize for any implications regarding preferences of the local neighborhoods or that would purport to speak for the representatives of those neighborhoods.

The City of Oakland has given substantial weight to the opinions of the local citizens. Section 2.1.1 of the EIS/EIR provides a thorough review of the OBRA reuse planning process. Section 2.1 of the EIS/EIR, in referring to the meetings held by OBRA, states that "The neighborhood associations in the immediate area surrounding NMCO played a major role in developing the alternatives. Participating neighborhoods adjacent to or near NMCO are shown in Figure 2-1. An umbrella group for the neighborhoods, Oak Knoll Neighbors, is represented on OBRA's subcommittees and on the Community Action Group."

Response to Comment P-19. The purpose of this EIS/EIR is to evaluate the environmental impacts associated with disposal and reuse. Background information regarding the OBRA reuse planning process has been provided so that decision-makers will be informed regarding the process that was used in developing the alternatives. The Oak Knoll Neighbors had a substantial role in developing the alternatives. Throughout the reuse planning process, several changes were made to the land use mixes in the alternatives in direct response to comments by the Oak

Nesponse to Comments Naval Medical Center Oakland Disposal and Reuse Final EISSEIR

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Knoll Neighbors. Further analysis of the procedural adequacy of the reuse planning

process addresses issues that are not related to the analysis of environmental

impacts and therefore is beyond the scope of analysis in the EIS/EIR.

Response to Comment P-20. Comment noted. Please see response to Comment

P-19.

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Response to Comment P-22. Comment noted. Please see response to Comment P-

Response to Comment P-21. Comment noted. Please see response to Comment P-

EIS/EIR needs to respond to that, and it fails to I think the in every public forum at OBRA.

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and if you went and interviewed them, you'd hear There was also direct conflict of interest a remarkable story of who got the influence, who other twelve PBC applicants were not given this, on CAG, specific PBC applicants were brought in one group in CAG and told how to lobby. The got the aid and who didn't. It was a very much It was an unfair advantage, and one ever addressed it. off imbalance. Þγ

process was over, there was still no chair, still I would like you One of the groups also failed to meet for over four months, and in fact when the entire no vote and still no consensus. to reanalyze that.

I think it also fails to address specific -- only the part they're getting in the one of whom is Oakland Parks Recreation, who's getting more than the The fact that PBC acres that Mr. Blair mentioned, base closure issues. applicants,

What is a public benefit applicant and how

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40-acre region 23 24

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LOTUS REPORTERS

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following base

Response to Comment P-23 and P-24. Methods of conveyance are discussed in

Section 1.3.2 of the EIS/EIR. It has been revised as follows:

closure, environmental remediation, and completion of NEPA requirements, the Navy may transfer property to other federal agencies or convey property to state, ocal, or private entities. Federal law provides for a variety of conveyance methods to Implement Navy property disposal decisions after completion of the NEPA

The scope of the analysis in the EIS/EIR is to evaluate the environmental

conditions. Navy disposal is a transfer of title and does not affect existing land use

consequences of Navy disposal and subsequent reuse impacts

Section 3.1 of the EIS/EIR adequately characterizes land uses

conditions.

surrounding the NMCO site. Section 4.1 of the EIS/EIR evaluates reuse impacts of the preferred alternative (Maximum Capacity Alternative) as presented in the Final

of the Final Reuse Plan (OBRA 1996) provide overviews of the community reuse Reuse Plan (OBRA 1996). Section 2, Subsection V, and Section 3, Subsection VII

planning process and the reasoning used in developing the land use mixes in the

preferred atternative. Page 4-2 of the EIS/EIR explains the following:

For every issue area evaluated in this EIS/EIR, impacts of disposal and of each atternative, including the No Action Alternative, are projected

on existing

there's is something you need given land, what is the years, or use can't change that. Of the different public benefit that land will the fact that short-term and long-term implications of to address those a 30-year rule that that land And likelihood that their use of I think this applicants who have been that process work? or will be funded for 30 needed plan fails 30 years. to address. þe did for

P-24

hopefully the use for parks and active recreation 30 years we're still not educating base closures are public benefit applicants that's completely surrounded by R-30, good single-family residences, unlike any other base consider aren't going to go away; it's pretty logical. to parks and universities, for a very as a society, ŦŦ ŦŦ ţ to see of the few sites, think the plan also needs Other people, we're in big trouble -- we're still looking closure in the country. primarily giving their that this is one ΙĘ another -land only

We have been think you need to look at the property At other base The plan fails to do that. addressing that repeatedly. values.

LOTUS REPORTERS

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Complete

plan would be fully implemented. It is anticipated that all aspects of

the final reuse plan would be in place by 2020.

to the year 2020. The year 2020 was chosen as when the final reuse

implementation of each alternative is assumed in the analysis of

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property

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closures, there isn't the contingency

still

are

There

right up on the base.

around

it isn't an airport, it's smack in the middle of

Residential City, USA. What's that impact?

don't see it in the report

given that the homes dome right up on the edge?

What's the specific impact here,

the county.

devalued properties in other base closures

This isn't an industrial park, it isn't a port,

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Navy

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screeching around. I would invite you to go look

at the tire marks that were left.

other around the Base in their automobiles,

personnel the other night were chasing each

was very receptive to the fact that some of the

problems. I'd like to compliment Mr. Gee, who

There are also some current interim

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us called -- other people have called, to ask,

They said, well, this is

gee, what's going on?

When a number

P-27

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certainly what I would consider a negative impact responded, at eleven or twelve o'clock at night? an exercise that we're performing, to which we This never happened when the Navy was there, I hope it will not continue because it's 20 19 21 22 23 24

When we called OPD, they said, gee, can you

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the interim process.

LOTUS REPORTERS

The OBRA 1996 Final Reuse Plan is the casis for the analysis of reuse impacts. Reuse plans at other sites would only have .드 combination with reasonably foreseeable reuse impacts at NMCO, could result in This EIS/EIR analyzes potential impacts from bearing on this environmental analysis if their environmental impacts, significant cumulative impacts. Chapter 5 analyzes cumulative impacts disposal and reuse at the NMCO site, Response to Comment P-25.

Response to Comment P-26. CEQA requires that economic or social effects of a nay trace a chain of cause and effect from a proposed decision on a project through changes caused in turn by the economic or social changes. The intermediate greater than on the physical changes (Cal. Pub. Res. Code, §§ 21000, et seq.; Guidellines, § project shall not be treated as significant effects on the environment. An EIS/EIR anticipated economic or social changes resulting from the project to physical necessary to trace the chain of cause and effect. The focus of the analysis shall be detail economic or social changes need not be analyzed in any

This requirement means that there must be a direct physical change in order for that change to be analyzed as a potential environmental act under CEQA. We realize Changes in property values produce no physical impacts and are not considered as environmental impacts for purposes of NEPA or CEQA. Property values are not are therefore not analyzed because the information supporting such an analysis is that the chance that property values could decline is unappealing to local residents. However, local and regional property values change in response to several factors. physical changes that may be forecast from changes in land use and ownership and (40 CFR, § thorough after acking, is based on conjecture, and is not reasonably foreseeable "Iť that says CEQA Guidelines, § 15145, 502.22[b][1]).

We're

Not really.

give us the make of the car?

not supposed to go on the base. It's 182

license plate is? Hello? I would appreciate it to run after a car to try to figure out what the early on in the process, but this is not making I realize we're there with a flashlight and try to figure out Am I supposed to trail down us feel real good. Please consider it. if someone could address this. locked-up acres.

City policy says they facilities and types of facilities like that than like to attract your attention to a document you In fact, I would already should have from the City of Oakland by other area or city in the County of Alameda. always give more emphasis to the region of ţ imply that we are would really be a mistake. Oakland has attracted more residential care developments in the City of Oakland's, and neighborhood to complain about certain Mr. Kochan, because we're not the only influence in the neighborhood. Region of influence: any

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Development Agency, it was prepared October 15th, the document I'm referring to is a report. It was to the City Manager, attention Mr. Craig Kochan. It was from the Community and Economic

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LOTUS REPORTERS

impact" (Cal. Pub. Res. Code, §§ 21000, et seq.; Guidelines, § 15145 [Office of evaluation, the agency should note its conclusion, and terminate discussion of the investigation, a Lead Agency finds that a particular impact is too speculative for Planning and Research 1995]).

VEPA analysis of these indirect effects (40 CFR, § 1508.8[b]) with respect to the ppropriate regional and local contexts (40 CFR, § 1508.27[a]) and a balanced safety implications, uncertain or unknown risks, presidential inference, and related measures of the ntensity of these indirect effects does not warrant their identification as significant geographic and ecologically critical areas involved, likely future controversy, and consideration of the adverse nature, public health (40 CFR, § 1508.27[b])

Response to Comment P-27. The situation referred to in this comment has been resolved by the Navy caretaker site ofice. The Navy apologizes for any disturbance to neighbors of the NMCO site. Response to Comment P-28. The "Establishing the Region of Influence" subsection in Section 5.6 was revised with the following text:

established as the relevant region of influence for analyzing The City of Oakland and the Oak Knoll study area have been environmental justice issues. Detailed analysis focuses on the Oak nature of the impacts associated with disposal and reuse, if any, would Knoll study area using data from census tracts adjoining NMCO. The generally occur at the neighborhood level within the immediate vicinity of NMCO.

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aware of its presence, and I think that document needs to be a part of the EIS/EIR, because that is in fact something that the City of Oakland now has an obligation to consider.

P-28

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Building trends: Real failure here.
Sorry, guys. You misnamed neighborhoods, you
leave neighborhoods out, you didn't look at
Ridgemont. Oak Knoll Reights, which is directly
across from the entrance on Mountain Boulevard,
is not even mentioned in the report. They have
more impact than anybody. They are only a streefront away from the major entrance to the
facility.

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Things are not mentioned properly in the report. It shows us a failure to understand the community.

What is of far more concern is you failed to understand the building trends in the community. You are selective and flawed when you look at the Skyline Apartments, and the Ridgemont and Skyline apartments which are now condominiums, and ignore all the single-family home development in the area, and further ignore the fact that 80 percent of the area is

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LOTUS REPORTERS

Other comments noted. Reports referring to the density of residential care facilities were considered by OBRA during the reuse planning process.

Response to Comments P-29 and P-30. Neighborhood labeling relied on the Existing Conditions Report (Theresa Hughes & Associates 1994). We apologize if minor errors in boundaries were replicated in the EIS/EIR. However, the boundaries as presented are sufficiently accurate to support informed CEQA decision-making for environmental and socioeconomic issues in the EIS/EIR that materially depend on neighborhood boundaries. A separate account would not materially improve the ability of the EIS/EIR to support such decisions.

Response to Comment P-31. Please see response to Comment P-28.

Response to Comments
Naval Medical Center Oakland
Disposal and Reuse Final EIS/EI

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single-family homes, if not more.

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The trend is toward single-family homes, not high-density anything. If you look at where the property values have fallen in our zip code it has been in apartments and condominiums. Again, let's think about the other impacts and whether that makes sense.

P-31

The last impact is lack of knowledge. You failed to address certain factors, because you simply didn't know what the final plan was going to include. I think you need to go back and do a very serious analysis of, now that there is a Maximum Preferred Alternative and every last acre has been assigned, what are the impacts specific to that final decision?

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The last impact, and you know under federal law if the federal government -- apparently if you do something that drops property values beyond a certain extent, that that is definitely an impact too. What is the impact on our property values? You know. Sorry if that sounds horrible, but every dime I have is in my house, and when you tell me that you're potentially threatening the value of my house, I tend to take

LOTUS REPORTERS

Response to Comment P-32. A specific final design has not been determined. This EIS/EIR fulfills its purpose of providing a programmatic analysis of potential environmental impacts. Program EIS/EIRs may be prepared on a series of actions that can be characterized as one large project and are related as follows:

- Geographically;
- As logical parts in the chain of contemplated actions;
- In connection with the issuance of rules, regulations, plans or other general criteria to govern the conduct of a continuing program; or,
- As individual activities, carried out under the same authorizing statutory or regulatory authority and having generally similar environmental effects that can be mitigated in similar ways,

Response to Comment P-33. Please see response to Comment P-28.

Response to Comments
Naval Medical Center Oakland
Discoord and Rouse Final FISSE

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Response to Comment P-35. Comment noted. Please see responses to comments

K-1 through K-37.

Response to Comment P-34. Comments in that 13-page submittal have been

addressed in responses to comments K-1 through K-37.

that fairly personally, and I think everybody in our community does.

P-33

We are submitting to you this evening, and I have given a copy to Mr. Munekawa already, a 13-page request for additional information. It more or less addresses what we consider to be flawed analysis or complete absence of information in the report. So it is not repetitive, and I would appreciate your consideration of these factors. Thank you.

P-34

CHAIRMAN DE LUCA: Thank you. If that's your extra copy, would you kindly give it to Mr. Bryant for our record? Thank you.

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MS. DREYER: Can you give me a piece of paper showing receipt of this?

CHAIRMAN DE LUCA: It's read into the

MS. DRYBR: So it's on television; report went in. Sorry, but the City of Oakland has lost quite a few things.

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CHAIRMAN DE LUCA: Thank you. No questions for the speaker. Would you kindly call the next speaker.

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How many more speakers do we have, Mr. Bryant, so we'll be able to allocate a time?

LOTUS REPORTERS

Response to Comments
Naval Medical Center Oakla
Disnord and Reuse Final EIS

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MR. BRYANT: We have seven more speakers.

CHAIRMAN DE LUCA: Okay. Would you kindly
call two at a time, so they'll be ready?

MR. BRYANT: I assume that Galle Hofmann is not going to speak.

CHAIRMAN DE LUCA: That is correct. She has ceded her time to the previous speaker.

MR. BRYANT: Louis Hal followed by Sandra Marburg.

CHAIRMAN DE LUCA: Thank you.

MR. HAL: My name is Louis Hal. I'm a member of the community surrounding the Oak Knoll Base, Sequoya Hills Homeowners Association, just at the top of the ridge behind the Oak Knoll Base. I'm a member of the board of directors, and I'm also vice-chair for the Hill Area Coalition, which is comprised of about 2,500 -- I mean, 25 homeowners associations in the South Oakland Hills. I'm also chairperson for the Commission on Aging for the Commission and I also sit on a Commission on Aging for the County of Alameda.

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CHAIRMAN DE LUCA: Your presence is well known to this commission. Welcome.

MR. BAL: When I speak, what I want to

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LOTUS REPORTERS

speak about is seniors in this area. This is one thing I'm a champion for seniors.

CHAIRMAN DE LUCA: I am too.

adjacent to the Base, over 4,000 seniors who are 65 years and older, and they go up as high as 85 and above. And I have been all through this process, campaigning for a senior center to be put at Oak Knoll, which is very much needed in the Hill area. We don't have one there.

P-36

And in doing that, I also have been very much opposed to putting this Seneca group in there, because seniors and disgruntled or dysfunctional teen -- kids don't mix. We have senior centers located -- we have at least one senior center located adjacent to what we call a large for these kind of people here in the City of Oakland. We have to post guards around this thing, and it also affects the people attending the thing.

The other thing is that the demographics of the area around the base has 56 percent of the people there African American, and these are upscale people. You're not talking about the low-income people. These are the higher echelon

P-38

LOTUS REPORTERS

Response to Comment P-36. The purpose of this EIS/EIR is to evaluate the environmental impacts associated with reuse. In meeting that purpose, background information regarding the OBRA reuse planning process has been provided so that decision-makers will be informed regarding the process that was used in developing the alternatives. This background information indicates that the Oak Knoll Neighbors had a major role in developing the alternatives. Throughout the reuse planning process, several changes were made to the land use mixes in the alternatives in direct response to comments by the Oak Knoll Neighbors. Further analysis of the procedural adequacy of the reuse planning process addresses issues that are not related to the analysis of environmental impacts and therefore is beyond the scope of analysis in the EIS/EIR.

Response to Comment P-37. CEQA requires that economic or social effects of a project shall not be treated as significant effects on the environment. An [EIS/JEIR may trace a chain of cause and effect from a proposed decision on a project through anticipated economic or social changes resulting from the project to physical changes caused in turn by the economic or social changes. The intermediate economic or social changes need not be analyzed in any detail greater than necessary to trace the chain of cause and effect. The focus of the analysis shall be on the physical changes. (Cal. Pub. Res. Code, §§ 21000, et seq.; Guidelines, § 1513[a]).

This requirement means that there must be a direct physical change in order for that change to be analyzed as a potential environmental impact under CEQA. California courts have not considered crime as an environmental impact. For example, In Baird v. County of Contra Costa, 32 Cal. App. 4th 1464, 1470, fn 2, 38 Cal. Rptr. 2d 93 (1995), a petitioner's "claim of increased crime problems" from a project "is

Response to Comments Naval Medical Center Oakland Disposal and Reuse Final EIS/EIR

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Section 1

people, and you wouldn't dare put this kind of facility in the middle of a community that was upscale and predominantly Caucasian. It's just totally wrong for what you're doing to us. Meaning us African Americans, to put this kind of facility in there.

away they're not going out to do good things when You wouldn't do it establish this quasi-prison for kids, who we to taking the come in, right in the middle of our community, You wouldn't do it in Piedmont, because for a fact, because we have information, short end of the stick, that these groups these kids run away. Now, when they in Montclair, but you feel that since we are, and we are always subject run away from these places. they wouldn't have it there. that know they and

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P-38

We at this community, I just gave you the ages of the people who are sixty-five and older, but this is a community growing old in place, you know, and the people, the houses are so expensive that young people in their early -- in their late twenties and early thirties, they can't afford to buy in this community. So when they buy in this community, they have already been a homeowner

P-39

LOTUS REPORTER

Naval Medical Center Oaklan Disposal and Reuse Final EISE

not a proper subject of CEQA inquiry," based on the reasoning found in Cal. Pub. Res. Code, §§ 21000, et seq.; Guidelines, § 15131(a). Similarly, "The economic impact on small businesses and property values" did not trigger CEQA in Citizens Action to Serve All Students v. Thornley, 222 Cal. App. 3d 748, 757-758, 272 Cal. Rptr 83 (1990). Crime is not recognized as either a NEPA or a CEQA environmental issue and therefore is not analyzed in the EIS/EIR.

Although local experience regarding existing crime rates is an important consideration, there is no reasonable basis for assuming that increased crime will unavoidably result upon reuse. Crime may increase or decrease locally. This EIS/EIR has analyzed the need for police services in Volume I, Sections 3.3 and 4.3, and generally recommends adequate mitigation for significant impacts (Volume I, Section 4.3). Further speculation regarding uncertain future trends in local crime would not enhance the ability of decisionmakers to make an informed decision regarding reuse, and is therefore not included.

NEPA analysis of these indirect effects (40 CFR, § 1508.8[b]) with respect to the appropriate regional and local contexts (40 CFR, § 1508.27[a]) and a balanced consideration of the adverse nature, public health and safety implications, geographic and ecologically critical areas involved, likely future controversy, uncertain or unknown risks, precedential inference, and related measures of the intensity of these indirect effects does not warrant their identification as significant (40 CFR, § 1508.27[b]).

Response to Comment P-38. The analysis of environmental justice issues is a federal requirement accompanying NEPA analysis of federal actions. It is important to remember that Navy property disposal is the only federal action being

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P-39

we moved in once, and when they move in, so they're in their neighbors But now I couldn't one community. You know, I was the lucky ones to move in 30 years ago, couldn't afford to buy there, because in place, Ħ Ħ O is becoming almost a retirement a lot aging And prices was, quote, cheap. late forties, fifties. are Afford to buy there. And so we

And when I walk through the community and ask people what they would like to see done at Oak Knoll, and I tell them I'm trying to get you a senior center down there, so we can have someplace to go and socialize with each other and have a program for seniors, they are enjoying that opportunity. They will enjoy that

They also, some of them, say, when I tell them that Seneca will be there, they say, well, at my age, I hate to move, but I think I will have to move. And this is wrong, this is wrong to thrust this kind of a facility right in the middle of our facility. And not only do we have black people not wanting this facility, there are a lot of Caucasians, the few that are there, which is about 43 percent or so that are there,

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LOTUS REPORTERS

analyzed in the EIS/EIR. Analysis of direct impacts related to issues of environmental justice are therefore limited to Navy property disposal, but indirect impacts extend to the environmental impacts of projects initiated by those taking title to the property.

Section 3.2.5 has been revised to more clearly state the environmental analysis equirements of NEPA in relation to the requirements of the Executive Order on Federal Actions to Address Environmental Justice in Minority and Low-Income On February 11, 1994, President Clinton issued the Executive Order on Federal Actions to Address Environmental Justice in Minority and agency shall analyze the environmental effects, including human health, economic and social effects, of Federal actions including effects on minority communities and low-income communities, when such analysis is required (emphasis added), by the National Mitigation measures outlined or analyzed in an environmental Environmental Policy Act of 1969 (NEPA), 42 U.S.C. § 4321 et seq, assessment, environmental impact statement, or record of decision, whenever feasible, (emphasis added) should address significant and adverse environmental effects of proposed Federal actions on minority This order requires that "Each Low-Income Populations. Populations.

Section 5.6 has been revised to more clearly state the environmental analysis requirements of NEPA is relation to the requirements of the Executive Order on Federal Actions to Address Environmental Justice in Minority and Low-Income

communities and low-income communities.

Response to Comments
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they don't want them there. P-39 1

MR. BRYANT: The speaker's time is expired. MR. BAL: So we appreciate you doing something about this, because ---

CHAIRMAN DE LUCA: Thank you.

P-40

-- we cannot have it: MR. HAL:

CHAIRMAN DE LUCA: Thank you very much for Next speaker, please. your testimony.

Sandra Marburg, followed by MR. BRYANT: Thordie Ashley.

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residential groupings, about 4,000 households in and I'm on the planning committee of Oak Knoll Hello, I'm Sandra Marburg, our group. I'm also a board member of Sequoya Highlands, and have been very active in creek Neighbors, the coalition of twelve different cleanup and street cleanup's in my area. 4S. MARBURG:

wanted to talk on just three basic issues One is biological resources, the second one is earthquake hazards and the third one concerns the riparian corridor. very quickly.

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concerned about what appeared to be a superficial In reviewing the EIR/EIS, we were somewhat analysis of, for example, the potential for

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LOTUS REPORTERS

Populations. The following text has been inserted in Section 5.6:

As discussed in Section 3.2.5, the Executive Order on Federal Actions to Address Environmental Justice in Minority and Low-Income Populations requires that "Each Federal agency shall analyze the environmental effects, including human health, economic and social effects, of Federal actions including effects on minority communities NEPA), 42 U.S.C. § 4321 et. seq. Mitigation measures outlined or analyzed in an environmental assessment, environmental impact should address significant and adverse environmental effects of emphasis added), by the National Environmental Policy Act of 1969 statement, or record of decision, whenever feasible, (emphasis added) proposed Federal actions on minority communities and low-income when such analysis and low-income communities, communities." As further clarification, the following headings and text was added as Section 5.6.2: 5.6.2 Potential For Disproportionate Environmental Impacts On

Minority Communities And Low-Income Communities

Navy Disposal. Navy property disposal is simply a transfer of property title and would result in no environmental impacts. No significant and adverse environmental impacts or disproportionate environmental impacts on minority and low-income communities would occur as a result of the Navy property disposal. Disposal is summarized in the Executive Summary and Table ES-1 of the EIS/EIR, and is described in detail in Chapter 4.

find a great effort to find red-legged frogs, and the Alameda striped racer, it appeared to be endangered annual plants, particularly flowering have materials from the State Department of Fish kind of traps and various repeat site visits and an overcast day, did not seem propitious for finding evidence of the striped racer. We also forth, and so we felt that perhaps that part we felt that the description of the effort to Not only that, we didn't racer would have been necessary, with certain comprehensive survey for the Alameda striped and Game, which suggest that a much more was a bit done superficially. plants at the site. 0

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10 11 12 13 Also with regard to biological resources, I noted that I thought the tree assessment was very magnificent historic oak, which is near a portion least six or eight feet in circumference, and you the particularly oaks, that are significant to the There is, for example, through must be It wasn trees, CAG process, I pointed out there's one This oak an to find photo. 888 wasn't a deep effort an air of the riparian habitat. မို So that, can even see it on poorly done.

LOTUS REPORTERS

No Action Alternative. Retaining the property indefinitely under the No Action Alternative would result in no environmental impacts. No significant and adverse environmental impacts, or disproportionate environmental impacts on minority and low-income communities would occur as a result of the No Action Alternative. The No Action Alternative is described in detail in Chapter 2 and is analyzed for environmental consequences in Chapter 4 of the EIS/EIR.

Quality Management District air emission thresholds as shown in Community Reuse Alternatives. The only significant and unmitigable environmental impacts produced by the community reuse alternatives is for air quality. Motor vehicle traffic trips associated with community reuse alternatives for NMCO may exceed one or more Bay Area Air secondary particulate matter (PM10) is the entire San Francisco Bay Area as discussed in Section 4.10, because these pollutants are produced by secondary chemical reactions in the atmosphere and occur over a large area. In addition, vehicle traffic is a geographically dispersed source of dilute PM10 emissions. Minority communities and low-income communities would not be disproportionately impacted by Table 4-31. The region of influence for ozone precursors and this regional air quality impact. All significant and mitigable environmental impacts identified in the EIS/EIR are associated with implementing the different community reuse alternatives. If the mitigation measures associated with the community reuse alternatives are implemented as described in the EIS/EIR, no significant and adverse environmental impacts would

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P-42

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City of Oakland. Oaks are protected in Oakland

and using that just as a thumbnail sketch, and a lot of relocation, and the neighbors have trees all through the process. And so we want revolve around a massive bulldozing, probably, expressed their concerns about preservation of early in the process, and to make an effort to I thought that overall the whole issue of the reuse of this property is going to resolve -specific specimen trees to be identified very make sure they're preserved.

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P-42

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considered the fractures that go through the site I also, then, the second area, I wanted to the from the USGS, which did suggest that there were e E to be basically dormant. But there are lots of studies, not more than ten or twenty years old, regarding the potential for active faults on talk a little bit about earthquake hazards. felt that the EIS/EIR trivialized all the conflicting studies that are extant today faults that could be active on that site. site. We realize the USGS has recently

It's very likely that if there all the potential connection for seismic activity With that in mind, we're concerned with and fire hazards.

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P-43

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REPORTERS LOTUS

143

or low-income affect disproportionately minority communities communities. Response to Comment P-39. Please see responses to comments P-36, P-37, and P-

Response to Comment P-40. Comment noted. OBRA considered many issues Sections 1.6 (Public Involvement Process) and 2.1 (Development of Alternatives). and concerns regarding a senior center and regarding the Seneca Center,

Alameda whipsnake, also known as the Alameda striped racer, in accordance with methods of the California Department of Fish and Game. No Alameda whipsnakes EIS/EIR and is referenced in Section 3.6.4 of the EIS/EIR. Figure 4 of Appendix F shows a schematic of the trapline and photographs of the funnel trap. A detailed description of the traplines and traps is presented in the Methods section of Response to Comment P-41. A 90-day spring survey was conducted for the were found. The survey report is presented in Appendix F of Volume II of the Appendix F. A detailed sensitive species survey consisting of a rare plant assessment and a survey for sensitive wildlife species was conducted at NMCO. The entire survey report is presented in Appendix B of Volume II of the EIS/EIR and is referenced in EIS/EIR Section 3.6.4.

The sensitive species survey in Appendix B of the EIS/EIR notes that the closest known observation for red-legged frog was recorded in the 1940s, approximately seven miles north of the site and that the species is unlikely to inhabit NMCO because suitable habitat does not exist on the facility.

protected under the City of Oakland Tree Ordinance (Article 6, Section 7-6) at or larger and any other tree, except eucalyptus and Monterey pine, with a dbh of nine inches or larger. There is no reference in the ordinance to "historic" trees. In Response to Comment P-42. A tree study was conducted to estimate trees NMCO. The study report is in Appendix E of Volume II of the EIS/EIR. The ordinance protects coast live oaks with a diameter breast height (dbh) of four inches this program level document, it would be speculative to determine which specific rees may be affected by development. In accordance with CEQA Guidelines, § 15145, if a particular impact is too speculative for evaluation, the agency should note its conclusion and would discuss the topic no further. Mitigation 2 under Section 4.6.3 states that when a specific site plan for development of the area is presented to the City of Oakland, the applicant would have to conduct a sitespecific survey of which trees to remove and would have to comply with all other equirements of the ordinance, including obtaining tree removal permits.

Response to Comment P-43. The seismic hazard associated with a small branch fault or fault sliver that passes through the site would be largely related to differential ground movement affecting buildings directly adjacent to or over the fault trace. Under the Alquist-Priolo Earthquake Fault Zone Act, the state of California identifies zones containing recently active faults so that local planning gencies can prohibit or limit building within those zones. The California Division of Mines and Geology collects and analyzes data from a variety of sources, ncluding studies for development projects prepared by geotechnical consultants, geologic reports prepared by the US Geological Survey and others, and in-house ield studies by the California Division of Mines and Geology. Earthquake fault cone maps are then prepared, based on the results of these studies. The reports and

Response to Comments Naval Medical Center Oakland Disposal and Revse Final EIS/EIR

were an earthquake there would be a real problem on this site concerning circulation, egress and ingress. And given the presence of road pattern, which is -- anybody who's visited, it's totally unmanageable for any kind of development you're talking about, it's difficult in the public to really consider what is it going to be, this potential safety hazard of a likely earthquake fault movement in that area? And fire hazard, because we have had lots of arson events already in that area in the last few months, and we will have for many years.

So we feel that, then, we have to have a deeper knowledge of not only what are reservoir capacities in the area, we have a lot of eucalyptus as you well may know, in the Lake Chabot area. So the whole issue of fire hazards in that area is extreme, and I think it was totally underevaluated, in particularly with regard to earthquakes. Also, with regard to earthquakes, if you minimize the earthquake fault there, you may not be appropriate —— looking at the appropriate building standards, and also-with Seneca, which is —— has a lock-down, 24-hour involuntary center.

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LOTUS REPORTERS

eviewed to prepare the EIS/EIR. The state considers faults that show evidence of activity within the past 11,000 years to be recently active and included those faults studies on which these maps are based are available for public review and were under the Alquist-Priolo Act. Faults that are older could rupture in the future, but he probability is lower or the recurrence interval is greater for rupture on these older faults. A fault identified as "segment H" and thought to be a strand of the or the site. These hazards would be addressed in part by designing buildings to geologic studies indicate that segment H has not been active during the past 11,000 years; therefore, there is no regulatory prohibition against building along this fault. Although the hazard of a surface rupture on the site is small, the hazard associated The hazards associated with ground shaking represent the principal seismic hazard neet the current seismic code. Additionally, the hazards associated with a large and impaired access to with ground shaking due to a large earthquake on the Hayward Fault is significant. earthquake could include broken utility lines leading to increased risk of fire, some areas of the site. The project would address these issues in a way consistent Hayward Fault has been mapped along the southwest edge of NMCO. delayed response by overburdened emergency services, with local and regional emergency planning.

Response to Comment P-44. Please see responses to Comment P-43. The comment relates primarlly to providing emergency services following an earthquake. We do not think that the earthquake hazard at the site has been minimized in the EIS/EIR. However, there are few locations within the San Francisco Bay Area that would not be significantly impacted by a large earthquake on a nearby active fault.

Naval Medical Center Oakland
Disposal and Reuse Final EIS/EIR

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We're very, very concerned about what that would mean in terms of liability, if you have an earthquake occur and you have the Navy perhaps even liable for having transferred the property with full knowledge there was a potential seismic hazard, and that's the reason they're not putting a hospital, but allowing for a public benefit conveyance which involves children who are involuntarily remanded to the site. So we think you should really look at that very, very seriously about that, the seismic potential.

Here we had fertilizers, and a large number of residences and which has a few questions about the number of bridges that to ease the circulation internal to the also this mixed use development, there are going It seems ranking of the various development scenarios in were beginning to be contemplated, the kind of Base, but we also had some concerns about the uses, generally, of pesticides and also serious consequences in terms of water The third issue I wanted to raise was go across the riparian obvious that if there is a golf course, of the water quality downstream. briefly about the riparian corridor. roadways that would corridor heavy

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Response to Comment P-45. If specific site designs include bridges, they will be addressed at that stage of reuse development. The restricted access buffer zone is intended to be a permanent zone of protection through reuse plan implementation and is intended to be incorporated into later specific plan development proposals. The second sentence of each Mitigation 1 in Sections 4.6.3, 4.6.4, 4.6.5, and 4.6.6 was modified to read as follows:

Establish a permanent 50-foot wide restricted access buffer zone to protect the Rifle Range Creek corridor.

Sections 4.6.3, 4.6.4, 4.6.5, and 4.6.6 of the EIS/EIR were revised to read as follows:

A qualified biologist shall develop a detailed habitat restoration plan for restoration activities in Rifle Range Creek, its tributaries, and the surrounding riparian corridor that includes ongoing maintenance of

Section 4.6.8 has been changed to read as follows:

this buffer zone.

To the fullest extent legally required, the proposed 50-foot wide restricted access corridor for Rifle Range Creek may be expanded, as necessary, to account for the protection of wetlands and important upland drainage areas as such areas may be affected by subsequent development proposals. Although no upland drainage areas have been identified, subsequent development proposals will need to address this issue if legally required to do so.

Response to Comments
Naval Medical Center Oakland
Disposal and Reuse Final EIS/EIR

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P-45

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Please see Section 4.7.3 of the EIS/EIR. Applicable state and federal laws,

The speaker's time is quality downstream, so we MR. BRYANT:

P-45 | 1

expired.

Wrap it up. CHAIRMAN DE LUCA:

So we very much wanted that elucidated further, MS. MARBURG: to be

not, call the next Thank you so much. Any ij questions for the speaker? CHAIRMAN DE LUCA: one.

Thordie Ashley, followed by MR. BRYANT: William McFerren.

followed.

Good evening, Mr. De Luca and Planning Commissioners. MS. ASHLEY: other

Good evening, ma'am. CHAIRMAN DE LUCA:

I do have the census tract from 1990 that I will give to this gentleman here, because it breaks down the ethnicity, and it also breaks I am Thordie Ashley, I'm an down the age, the ownership and the tenants of the people surrounding Oak Knoll, especially. That's the compliments of the Census Bureau. Oak Knoll Neighbor and this might sound ASHLEY:

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of people, in their EIS and EIR. I notice across environmental racism against the protected group The Navy failed to recognize the implied

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P-47 24

LOTUS REPORTERS

minority and low-income communities would occur from implementing any of the regulations, and standards intended to control the volume and timing of nonpoint Response to Comment P-47. No significant and adverse environmental effects on alternatives in the EIS/EIR, provided the mitigation measures in the EIS/EIR are Response to Comment P-46. Comment noted. Thank you for the report. source pollutants will apply.

the board, with environmental justice, the matter was completely white, it was black, then someone said that we were equally protected here in some way with the Oak Knoll census, there's 56 percent African Americans of upper middle class up to being very rich, and there's 34 percent Caucasians, 8 percent Asians, and 2 percent of the others.

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P47

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Now, is the United States government going But are to divide our group of protected human beings I'm an American of African Because you talked about low-income -- a protected caste and descent, and I resent that statement. us into class and minority, I'm not a minority, I'm That is wrong. people, into class and into which we are protected you going to divide African-American. groups here? income?

Now, with the inclusion of Seneca, that's a violation of my civil rights, and it's also a violation of other ethnic groups of their fair housing rights, because the fair housing rights grants the right of reasonable accommodations, not an unreasonable accommodation of certain groups such as Seneca. Now, Seneca wants

 LOTUS REPORTERS

Response to Comment P-48. Please see response to Comment P-47.

Response to Comment P-49. CEQA requires that economic or social effects of a project shall not be treated as significant effects on the environment. An [BIS/]EIR may trace a chain of cause and effect from a proposed decision on a project through anticipated economic or social changes resulting from the project to physical changes caused in turn by the economic or social changes. The intermediate economic or social changes need not be analyzed in any detail greater than necessary to trace the chain of cause and effect. The focus of the analysis shall be on the physical changes (Cal. Pub. Res. Code, §§ 21000, et seq.; Guidelines, § 15131[a]).

This requirement means that there must be a direct physical change in order for that change to be analyzed as a potential environmental impact under CEQA. California courts have not considered the "social characteristics of the prospective customers of the agency [proposing a new unemployment insurance office]" as an element for consideration in determining whether an [EIS/EIR] will be necessary City of Orange v. Valenti, (37 Cal. App. 3d 240, 249, 112 Cal. Rptr. 379 [1974]). The characteristics of the Seneca population are therefore not an environmental issue and are not analyzed in the EIS/EIR.

We realize that the nature of the Seneca population is a controversial local issue. However, the City of Oakland feels that supporting assistance to troubled children under the age of 12 serves a valuable socioeconomic purpose. Children are an important resource deserving of support. Speculation regarding any alleged criminal tendencies of these children would be prejudicial. We have chosen to avoid prejudice in the reuse planning process against any group.

Response to Comments Naval Medical Center Oakland Disposal and Reuse Final EIS/EIR

148

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segregated facilities. They want their kids to be able to swim and use the baseball fields, the football fields, at certain times that will be closed to the public.

I'm a taxpayer, I'm a senior citizen, I have a right to go up there, and other kids throughout the nation -- throughout the region or throughout the world have a right to come there and swim, just because Seneca's children are so emotionally disturbed that they cannot fit in with the so-called normal society. Now, the federal and state Fair Housing Acts do not provide any disabled person, such as the Seneca kids, with preferential treatment. Instead it provides equal opportunity at a level playing field.

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P-49

 Now, you need to look at Case No. 90C524-S, it's the United States of America vs. the Village of Marshal. It is not realistic to even expect that professional African-Americans, who have worked hard and who have succeeded and who surround Oak Knoll with 56 percent, to accommodate Seneca and allow them to come in and devalue the property. My family alone owns more than \$800,000 worth of property that we have

LOTUS REPORTERS

NEPA analysis of these indirect effects (40 CFR, § 1508.8[b]) with respect to the appropriate regional and local contexts (40 CFR, § 1508.27[a]), and a balanced consideration of the adverse nature, public health and safety implications, geographic and ecologically critical areas involved, likely future controversy, uncertain or unknown risks, precedential inference, and related measures of the intensity of these indirect effects does not warrant their identification as significant (40 CFR, § 1508.27[b]).

Response to Comment P-50. United States v. Village of Marshall, Wisconsin, 787 F, Supp. 872 (W.D. Wis. 1991), held that a village's refusal to grant an exception to a state law spacing restriction for group homes constituted handicap (mental illness) discrimination under the Fair Housing Act. If the "troubled youth facility" proposed for NMCO could be called housing for the handicapped, this case would indicate that the City of Oakland is required to "reasonably accommodate" such a facility.

Response to Comments
Naval Medical Center Oakland
Disnoval and Reuse Final FISKH

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P-50

EIS/EIR. Please see Sections 3.12 and 4.12 of the EIS/EIR regarding utilities

setting and impacts analyses, respectively.

Response to Comment P-52. Comment noted. Please see response to Comment

P-49.

Response to Comment P-51. Analysis of potential utility bidders and the affordability of services are not environmental issues and are not analyzed in the

worked for many years, and to have someone like Seneca to come in and devalue our property, that is also illegal.

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P-50

What about the PGEB? You don't address the utilities at all. Is it going to be that PGEB is going to be that PGEB is going to be that PGEB is hookups? And can Seneca and UIN, there's two PBC's that you include, can they afford the cost of the hookups? Will that cost be shifted to the taxpayers, which is also illegal? Now, you have a federal case in San Francisco where Louis Raney, the attorney for San Francisco, filled against the National Park Service, the United States government and PGEE, that case is pending now. It's many issues in here that's very flawed.

P-51

But the thing that I'm most concerned with is the African-Americans who have worked very hard to maintain their property, to gain the property, to maintain to pass to other heirs; that all of a sudden someone like Seneca can just walk in and be included, because the law and Ron Dellums said they should be.

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CHAIRMAN DE LUCA: Thank you, ma'am

LOTUS REPORTERS

Response to Comments
Naval Medical Center Oakland
Disposal and Reuse Final EIS/EIR

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For the record, the census tract report that you introduced to us was prepared by the Oakland Planning Commission.

P-53

MS. ASHLEY: Thank you very much.
MR. BRYANT: William McFerren, followed by Bazel Houston.

MR. MCFERREN: Yes, my name is Williams McFerren, I was a member of the CAG, or the neighborhood organization. We have been holding meetings with -- for the last two years we have spent hundreds of hours inputting the neighborhood organization's comments into this report, which was totally ignored at the end of the meeting, and I was very disappointed in

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н н н 2 ж 4 CHAIRMAN DE LUCA: Which part was that,

sir?

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MR. MCFERREN: What was that?

CHAIRMAN DE LUGA: Which part did you say was ignored?

MR. MCFERREN: The neighborhood input. The EIS/EIR depended a lot on the report from Teresa Hughes & Associates and from the OBRA board.
This was, for lack of a better word, constructive

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LOTUS REPORTERS

railroading. They railroaded the neighborhood,

Response to Comment P.53. Comment noted. Authorship noted.

Response to Comment P-54. The City of Oakland has given substantial weight to the opinions of the local citizens. Section 2.1.1 of the EIS/EIR provides a thorough review of the OBRA reuse planning process. Section 2.1 of the EIS/EIR, in referring to the meetings held by OBRA, states that:

The neighborhood associations in the immediate area surrounding NMCO played a major role in developing the alternatives. Participating neighborhoods adjacent to or near NMCO are shown in Figure 2-1. An umbrella group for the neighborhoods, Oak Knoll Neighbors, is represented on OBRA's subcommittees and on the Community Action Group.

Response to Comment P-55. Please see response to Comment P-54.

Response to Comments
Naval Medical Center Oakland
Disposal and Beuse Fluid FISE

tried to guide the neighborhood into certain to agree to and which we were not allowed through input, they to vote on, and we were very disappointed all the way planning, and trying to get us go in **ن** our failed directions they overlooked "consensus" a lot When we a vote at the end, directions. the word their they that,

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Also, I'd like to address the socioeconomic as the use neighborhood at large, we were told that that was not part of their planning. That they could not this surrounding neighborhoods, into the use of plan. That this would have to be total When we brought this up as -take in the impact of the neighborhood of this plan, how it would impact totally separate from the impact impact.

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And we believe that if retail is put up there, it retail that they are looking to put in this plan, Toler Heights Citizens Council for the last five would adversely affect any development of retail As Mr. De Luca, a member of the planning board, knows, that we have been working on the on developing MacArthur Boulevard. The we would love to have on MacArthur Boulevard. years

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LOTUS REPORTERS

Response to Comment P-56. Socioeconomic Impacts are addressed in Sections 3.2 and 4.2 of the BIS/EIR. The Establishing the Region of Influence subsection in Section 5.6 was revised by adding the following text:

nature of the impacts associated with disposal and reuse, if any, would established as the relevant region of influence for analyzing environmental justice issues. Detailed analysis focuses on the Oak Knoll study area using data from census tracts adjoining NMCO. The generally occur at the neighborhood level within the immediate The City of Oakland and the Oak Knoll study area have been vicinity of NMCO. Response to Comment P-57. Comment noted. The City of Oakland has given provides a thorough review of the OBRA reuse planning process. Page 2-3 of the substantial weight to the opinions of the local citizens. Section 2.1.1 of the BIS/BIR EIS/EIR, in referring to the meetings held by OBRA, states the following:

The neighborhood associations in the immediate area surrounding NMCO played a major role in developing the alternatives. Participating neighborhoods adjacent to or near NMCO are shown in Neighbors, is represented on OBRA's subcommittees and on the Figure 2-1. An umbrella group for the neighborhoods, Oak Knoll Community Action Group

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Response to Comment P-58. Please see responses to Comment P-57.

P-57

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P-58

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Now, they're saying that this area is

LOTUS REPORTERS

They also totally ignored the planned

on MacArthur Boulevard. We were told that they

cannot take that into consideration.

retail development less than a mile and a half away at Edwards Avenue. When at the last meeting, when this was brought up, she said she was unaware of any retail going in at Edwards lives in Oakland, that they are planning this Avenue. Everyone in the world knows -- that

retail development at the -- but Theresa didn't know anything about it, and it was totally eliminated from the plan.

of the -- the -- not so much the Seneca, but the -- the overabundance of the public services that At the present time, Also, we would like to discuss the impact there are 68 different types of halfway houses; between the San Leandro line and 73rd Avenue, are provided in this area.

centers, youth hospice, that we could find within there are drug rehab centers, alcohol rehab

the City of Oakland. There's 68. This is the only area that don't have -- that is not

inundated by some type of social or public benefit conveyance.

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Thank you very much.

CHAIRMAN DE LUCA: Any question for the speaker? Thank you.

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P-59

MR. BRYANT: Hazel Houston, followed by Russell Moran.

MS. HOUSTON: Good evening representatives of the City and Navy. My name is Hazel Houston, I represent Golden Gate Audubon Society, and also as an individual. I live in Oakland, in Sheffield Village. I read your environmental report, and I notice that there are a number of

LOTUS REPORTERS

impacts to sensitive species, including the Alameda whipsnake. A 90-day spring survey was conducted for the Alameda whipsnake, also known as the Alameda striped racer, in accordance with methods of the California Department of Fish and Jame. No Alameda whipsnakes were found. The survey report is presented in Appendix F of Volume 2 of the EIS/EIR and is referenced in Section 3.6.4 of The EIS/EIR concluded that there would be no Volume 1 of the EIS/EIR. Figure 4 of Appendix F shows a schematic of the conducted at NMCO. The entire survey report is presented in Appendix B of Volume II of the EIS/EIR and is referenced in EIS/EIR Section 3.6.4. The sensitive rapline and photographs of the funnel trap. A detailed description of the traplines and traps is presented in the Methods section of Appendix F. The US Fish and Wildlife Service (Comment C-1) has concurred that no additional Endangered consisting of a rare plant assessment and a survey for sensitive wildlife species was species survey in Appendix B of the EIS/EIR notes that the closest known observation for red-legged frog was recorded in the 1940s, approximately seven niles north of the site, and that the species is unlikely to inhabit NMCO because consultations are required. A detailed sensitive species suitable habitat does not exist on the facility, Response to Comment P-59. Act Species

Response to Comments
Naval Medical Center Oakland
Disnosal and Reuse Final EISIEIR

California species of special concern, they are

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P-60

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a wide variety of bird species." The plants were addressed and also the plants that feed the birds mentioned, they are not addressed further in the providing nesting and foraging opportunities for I also quote one particular sentence that stood out at me like it was in bold, in Section "The riparian corridor is an important habitat, 3-51, paragraph 4, last sentence, and I quote, and the trees that the birds nest in and future plans. 12 10 1

I urge that any plan that you select has as sympathize with safe, low-cost housing, and other facilities, I realize that as it gets more dense, more potential for a less open space and saves as much riparian space that there needs to be low-dost housing, and I and trees as possible, because while I realize and so that is another concern of ours. The you bring in more cats, and they eat more higher the density, the livable habitat. much

So we hope you will make a good selection, thank you very much. and

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Any CHAIRMAN DE LUCA: Thank you, ma'am.

LOTUS REPORTERS

Response to Comment P-60. The restricted access buffer zone is intended to be a permanent zone of protection through reuse plan implementation and to be incorporated into later specific plan development proposals. The second sentence of each Mitigation 1 in Sections 4.6.3, 4.6.4, 4.6.5, and 4.6.6 was added to state the following:

Establish a permanent 50-foot wide restricted access buffer zone to protect the Rifle Range Creek corridor. Sections 4.6.3, 4.6.4, 4.6.5, and 4.6.6 of the EIS/EIR were revised to state the following:

other

for restoration activities in Rifle Range Creek, its tributaries, and the A qualified biologist shall develop a detailed habitat restoration plan surrounding riparian corridor that includes ongoing maintenance of his buffer zone.

Section 4.6.8 has been changed to read as follows:

restricted access corridor for Rifle Range Creek may be expanded, as To the fullest extent legally required, the proposed 50-foot wide necessary, to account for the protection of wetlands and important upland drainage areas as such areas may be affected by subsequent identified, subsequent development proposals will need to address this development proposals. Although no upland drainage areas have been ssue if legally required to do so. Response to Comment P-61. The typographical error has been corrected.

questions for the speaker?

Mr. Moran, I believe you're next.

MR. BRYANT: Russell Moran, followed by

John Moran.

CHAIRMAN DE LUCA: Thank you.

MR. RUSSELL MORAN: Yes, my name is Russell

Moran.

CHAIRMAN DE LUCA: Remember your five

minutes, Mr. Moran.

MR. RUSSELL MORAN: Yes, I have five

minutes.

CHAIRMAN DE LUCA: Thank you.

MR. RUSSELL MORAN: Commissioner and representatives of the Navy, and ladies and

gentlemen of the public.

When I was going through this rather lengthy two-volume work -- I was at the Montclair library being shushed out by the librarian

because it was late -- I couldn't help but, as a former retired school teacher, and Mr. De Luca

P-61

reminded me tonight by saying he's in a learning process, I find a typo. It's on Page 3, second

Volume A 17, and the reason I found it, I think, is because I was looking for the word "homeless" throughout all two volumes and there they have it

LOTUS REPORTERS

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Naval Medical Center Oakland
Disposal and Reuse Final EISEIR

156 :

Response to Comment P-62. See response to comment K-28.

So you might want in the

Response to Comment P-63. Please see response to Comment P-62.

There I distinctly remember that a speech think 6 acres, if my memory is correct, was going wisdom had set aside or required what they call homeless component. They had a map there and I final draft change that to "homeless housing." problem here on 21st and Telegraph Avenue, so being given that the Congress in its infinite have only attended one meeting with the base because I have been busy on another homeless Now, I have been a latecomer in this, to be given to the homeless. "moneyless housing." reuse. P-63 17 н 10 11 12 15 16 13 14 P-62 P-61 157

the homeless, it would sell it and perhaps recoup Collaborative, and then the City would take that some type of hat trick, you know, where the City the two million it was giving. Maybe one of the Apparently, sometime after that there was land that they were going to originally be for two-and-a-half -- 6 acres of land may be well worked a deal where they paid -- provided two administered, I believe, through the Homeless million dollars for the homeless to be few deals the City will make money, worth two million there.

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Now, I think the EIS and EIR is flawed in

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LOTUS REPORTERS

information regarding homeless accommodations. Descriptions of reuse

alternatives are the same as those analyzed using the Draft Final Reuse Plan (OBRA

1996).

titled Naval Medical Center Oakland, Final Reuse Plan, Prepared by OBRA, that reviews the homeless negotiating team process. This Final Reuse Plan was not available when the Draft EIS/EIR was circulated but does provide additional

Response to Comment P-65. Please see pages 27 through 31 of the document,

Response to Comment P-64. Comment noted. Thank you.

concern even there that if they're too densely populated, that it might bring about the very greate some facilities there. There's some 12 P-65 13 14 13 16

So I think in the final document, you downtown. 13 20

you shouldn't have a homeless shelter right next to Sears and Roebuck and expect to have a viable

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same problem I brought to the Commission, that

element. I don't necessarily say they should be there, but follow Peter Smith's statement, that should have more discussion on the homeless 21 22 23

further Section 8 housing in the flatlands of no longer the homeless, there should be

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LOTUS REPORTERS

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Response to Comment P-66. Comment noted. Your military service, attendance, and gratitude for the public hearing are appreciated.

we have neighborhoods there. They're residential They should be distributed throughout problems on our neighborhoods downtown, because contrary to state law, it's contrary to every Oakland and possibly throughout the County. downtown flatlands are fully impacted, it's fundamental basis of equity to shove these people, working people. Thank you.. Oakland.

P-65

Thank you, CHAIRMAN DE LUCA:

Mr. Moran.

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MR. BRYANT: The last speaker is John

Moran

happen to live in the neighborhood of the Oakland having this public hearing and having the public Yes, I'm John Moran, and But what I would like to talk recouping from some wounds that I received in a World War II, I was in the hospital, suffering As a matter of fact, during the advantage of having an Environmental involvement in this facility. and the Planning Commission, MR. JOHN MORAN: about, and I want to Naval Hospital. kamikaze attack.

And I'd like to contrast this between the

LOTUS REPORTERS

11 P-66

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159

Response to Comment P-67. Comment noted. Please see response to Comment Phomeless shelter in the downtown area, which is City of Oakland's actions in promoting a large

the conversion of the Hamilton Hotel into a

homeless shelter. In that particular instance,

we have no public hearings, we have no public involvement, we have no Environmental Impact Report. All we have is secrecy. We have secrecy

which is pervesive throughout the Oakland administration and the Oakland departments.

administration and the Oakland departments.
Apparently, Russell Moran and John Moran are two
pariah, various departments throughout the City

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CHAIRMAN DE LUCA: Mr. Moran, would you please get back to the topic. Thank you.

MR. JOHN MORAN: I'm talking about the topic. We're talking about a question of procedures here, Mr. De Luca. We're talking about the actions of the City of Oakland. On the one hand, they dome up with a beautiful Environmental Impact Report and public hearings; on the other, they do everything under the table. And that's what I'm referring to. And when you attempt to bring these things to the light, you're shuffed off, just like you're trying to cut me off here right now. You don't

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LOTUS REPORTERS

Response to Comments Naval Medical Center Oakland Disposal and Reuse Final EIS/EII

P-67

have been advised that if we call --

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want to hear what I have to say. It's as simple as that. Because you're one of the instigators in the whole thing yourself.

Thank you.

CHAIRMAN DE LUCA: Thank you,

Mr. Moran.

Are there any other speakers or any other questions that need to be addressed at this time?

I want to thank each and every one of you for participating in this public hearing. You can contact us at the address shown here, which are also indicated on the handouts that have been picked up, or can be picked up.

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For the record, I also like to make a statement that the EIR/EIS was not prepared by the Planning Commission. It is a document that was prepared in evaluating the entire site. The City of Oakland intends to use this program BIR/EIS for all projects' approval required to implement the reuse plan.

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I beg your pardon?

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MS. MARBURG: I had one question. You asked for questions and I wasn't fast enough.

Is this a follow-up to

CHAIRMAN DE LUCA:

LOTUS REPORTERS

P-67

your testimony, ma'am?

MS. MARBURG: Well, it's actually a very relevant question. If we send a letter to the address here for the Navy, will it also come to the individual and to this committee?

CHAIRMAN DE LUCA: Yes, it will be part of the overall record as a joint program.

MS. MARBURG: All right.

CHAIRMAN DE LUCA: It is an EIR/EIS for the benefit of the Navy as well as for the City. I made the statement that the City of Oakland intends to use this program, EIR/EIS, for all projects' approval required to implement the reuse plan.

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MS. MARBURG: I only ask that question because earlier you had said that we needed to give the documents today to make sure that you receive them. So just one copy to this place will actually serve the whole process?

CHAIRMAN DE LUCA: Thank you.

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MR. BRYANT: Would you identify yourself, please?

MS. MARBURG: I'm Sandra Marburg, and I spoke earlier.

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CHAIRMAN DE LUCA: Thank you very much.

LOTUS REPORTERS

-17 % -17 % -18 % Response to Comment P-68. The scope of the land use analysis in the EIS/EIR is to evaluate the environmental consequences of Navy disposal and subsequent reuse impacts on existing land use conditions. Navy disposal is a transfer of title and does not affect existing land use conditions. Section 3.1 of the EIS/EIR adequately characterizes land uses surrounding the NMCO site. Section 4.1 of the EIS/EIR evaluates reuse impacts of the preferred alternative (Maximum Capacity Alternative), as presented in the Final Reuse Plan (OBRA 1996). Section 2, Subsection V, and Section 3, Subsection VII of the Final Reuse Plan (OBRA 1996) provide overviews of the community reuse planning process and the reasoning used in developing the land use mixes in the preferred alternative. Examination of retail development's inferences regarding property values is not appropriate in the EIS/EIR.

probably didn't use my full five minutes, but you Now have I heard one single thing about this retail Mr. De Luca, can I make I happen to live in that neighborhood, and yet told me to get to the point and be relevant. during the last several years only by hearsay Edwards Avenue. There's been nothing in the MR. JOHN MORAN: Yes. Seeing that I development that's to be put at the end CHAIRMAN DE LUCA: Certainly, MR. JOHN MORAN: further comment? newspapers. one Mr.

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CHAIRMAN DE LUCA: Thank you, sir.

If there are no further comments, this hearing is now closed. Remember that written comments can still be submitted up to and including November 27th. We wish to thank you for your participation.

MR. BRYANT: There is one additional item on the agenda.

CHAIRMAN DE LUCA: Yes, the open forum. will not forget, Mr. Bryant.

LOTUS REPORTERS

questions or any items that have not been put on

The Commission will now entertain any

Naval Medical

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P-68

Public Hearing Transcript Letter P

Response to Comment P-69. Comment and clarifications noted and appreciated.

If there are any speakers in open forum, please come to the podium, identify yourself, and let us know what is the subject of your proposal or We are now in open forum. presentation. Thank you. the agenda.

Members of MR. BERRICK: Good evening.

the

CHAIRMAN DE LUCA: Are you speaking under We are in open forum now. open forum?

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did want to clarify a few things that weren't in MR. BERRICK: I am, because I think it's Seneca Center for Children and Families, and I I'm the president of the more general than the EIS/BIR, if I may. My the EIS/BIR, but came up in testimony. name's Ken Berrick.

fact, it's not even a residential facility, with the exception of one component that's for up to locked facility. I just wanted to clarify for 딤 One was that it came up that this is a This is not a locked facility. the members of the Commission, that's not 15 beds for residential. accurate.

court, Seneca works with kids who are emotionally The second area was the idea that this was a mini-prison. We don't work with wards of the

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LOTUS REPORTERS

P-69

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Response to Comment P-70. Comment noted. This response does not question or confirm the accuracy of these figures, but merely accepts the comment as part of the record.

disturbed, primarily children under 12, although to clarify that this is not a juvenile detention we do have some older children. And I did want facility. It's a facility for troubled kids.

Mr. Berrick. Would you kindly complete the card that was just given to you, so that becomes part notification to you for any future proceedings. of our record? Also, that will serve as a CHAIRMAN DE LUCA: Thank you,

CHAIRMAN DE LUCA: Thank you very much. MR. BERRICK: Thank you.

After you complete it, please give it back to Mr.

UNKNOWN SPEAKER: Mr. De Luda, since this speaker, failed to tell the public and to you, is open forum, Kenneth Berrick, the former

per month per child for their care, and that they care of them, and we are here with people talking about public schools, our public school kids only that they get from five to ten thousand dollars only pay \$1,250 a month to the person who takes per child, and I want the public to know Berrick gets five to ten thousand dollars per get \$4,000 per year to aducate. month that.

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LOTUS REPORTERS

P-69

Bryant

Response to Comment P-71. Comment noted. Your attendance is appreciated.

Thank you, ma'am. If not Anybody else under open forum? CHAIRMAN DE LUCA:

Yes, I would like just MR. RUSSELL MORAN:

one moment --

CHAIRMAN DE LUCA: Would you kindly identify yourself again for the record?

to make sure that her record would get in to the young woman sitting over in the corner, made it property owner. One of the earlier speakers, a point to go to the microphone and get on the TV She said that H H sorry, Russell Moran, Oakland businessman, Russell Moran. City because it might get lost. records sometimes get lost. MR. RUSSELL MORAN:

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begged you, implored you to use your influence in want to say to you tonight that the big box, what behold, two weeks later they have appeared, and illustrious and distinguished Commission and I example, they lost the plans of the Hamilton unsolicited, that if you lose something, for Hotel for ten months, I appeared before this I have just one little advice for her, they're very relevant and very helpful, and they call a penthouse measured on the plans, your office to find those plans, and lo and

LOTUS REPORTERS

P-71

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although I haven't seen the plans, they've been withheld from me to ten months, the penthouse has been removed from the building, it's down. So there's eight more to go. Eight more changes in the exterior of the building to meet the federal as well as the local laws. So thank you very

CHAIRMAN DE LUCA: Thank you,

Mr. Moran. You're always appreciated, have a pleasant evening, sir.

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MR. RUSSELL MORAN: Good evening.

CHAIRMAN DE LUCA: Thank you. If there are no other speakers, no other items, I close the public hearing. Thank you for your participation. Good night.

(At 8:30 p.m. the foregoing hearing was

adjourned.)

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 LOTUS REPORTERS

P-71

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me at said time and place, and was taken down in That said public hearing was taken before shorthand by me, a Certified Shorthand Reporter true, and correct report of said hearing and of Reporter for the State of California do hereby of the State of California, and was thereafter subscribed my hand on the 1st day of December, I, DANA M. FREED, a Certified Shorthand That I am a disinterested person to the foregoing transcript constitutes a complete, transcribed into typewriting, and that the IN WITNESS WHEREOF, I have hereunder barse III adiles the proceedings which took place; LOTUS REPORTERS COUNTY OF CONTRA COSTA STATE OF CALIFORNIA said action. certify: 1996. 18 9 19 20 21 23 25 14 17 22 24



RESPONSE TO COMMENTS ON CALIFORNIA ENVIRONMENTAL QUALITY ACT RECIRCULATION OF NEW SIGNIFICANT INFORMATION REGARDING FINE PARTICULATE MATTER (PM $_{10}$)

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Response to Comments Naval Medical Center Oakland Disposal and Reuse Final EIS/EIR

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CITY OF OAKLAND



LITO BROADWAY, 2ND ILOOR . OAKLAND, CALIFORNIA 94612

Community and Economic Development Agency Foreign

. 101 (2)8 (9)2 075-862 (017) AAV 1100 (310) 839-6451

September 19, 1997

CASE FILE NO: ER96-32

To: All Interested Persons

The U.S. Navy and the City of Oakland released a Draft Environmental Impact Statement/Environmental Impact Report (EIS/EIR) for public review on October 11, 1996, on the Disposal and Reuse of the Naval Medical Center Oakland (NMCO), formerly known as the Oak Knoll Naval Hospital, located on Mountain Boulevard near Keller Avenue in the City of Oakland. A joint public hearing with the U.S. Navy and the City of Oakland City Planning Commission was held on November 13, 1996 at which public testimony was taken. The public comment period ended on December 2, 1996.

During the public comment period, fourteen letters were received. A letter dated November 27, 1996, was received from the Bay Area Air Quality Management District stating that the air quality analysis in the Draft EIS/EIR aid not estimate project emissions of fine particulate matter less than 10 microns is size (PM10). The District requested that the PM10 emissions be calculated for the EIS/EIR project alternatives and compared against the District's recommended CEQA significance threshold of 80 pounds per day. This analysis has been completed and shows that all alternatives for reuse of the NMCO property will exceed the District's significance threshold for PM10 air emissions. Air emissions under the No Action alternative would not exceed 80 pounds per day, but would require the property to remain in caretaker status under Navy control. These PM10 emissions are the result of increased traffic associated with the reuse of NMCO as compared to the No Action alternative.

The City of Oakland has evaluated this increase in PM10 emissions and has determined it is an unavoidable impact which cannot be mitigated. The California Environmental Quality Act Guidelines, Section 15088.5 require that if new significant information is included in an EIR after the public review, period has ended, that the lead agency is required to recirculate the new, significant information prior to issuing a final EIR. This section further specifies that only the significant new information need be recirculated.

The City of Oakland is requesting your comments on the recirculated

Draft EIR PM10 analysis section which is available at the address below. The California Environmental Quality Act Guidelines require a 45-day public comment period on this new information. The review period will end on November 4, 1997. The City of Oakland will respond to these comments and all other comments received on the DRAFT EIR, in the Final EIS/EIR, which is expected to be released in late Fall 1997. The Final EIR will be available for public comment prior to final action on the project.

Please send your comments to Anu Raud, Environmental Review Coordinator, 1330 Broadway, 2nd floor, Oakland, CA 94612 or call her at (510) 238-6346. Thank you.

MIXXX (

Sincerely,

WILLIE YEE, JR.

Environmental Review Officer

Attachment A

cc: Gary Munekawa Jane Steven

FMC7 USNAVY.AR

Attachment A

Additional Air Quality Impact Information to be added to Section 4.10 of the Final Environmental Impact
Report for the Reuse of the Naval Medical Center Oakland

4.10 AIR QUALITY

This Air Quality section provides new information related to air quality impacts from traffic-related air emissions of particulate matter less than 10 microns in size (PM₁₀). These PM₁₀ air emissions will result from the increased traffic associated with the reuse of the Naval Medical Center Oakland (NMCO), as compared to retaining NMCO in a closed, caretaker status under the No Action Alternative. All other air quality analyses were previously provided in Draft Environmental Impact Report for the Disposal and Reuse of NMCO. This information has been completed by the same preparers as the Draft Environmental Impact Report. The additional information is provided here for public comment and will be incorporated into the Final Environmental Impact Report. The Final Environmental Impact Report will be available for public comment prior to the City of Oakland issuing a Notice of Determination on its decision regarding NMCO.

4.10.1 Significance Criteria

Air quality impacts are judged to be significant if project implementation would directly or indirectly:

- Produce emissions that would cause or contribute to a violation of state or federal ambient air quality standards;
- Cause pollutant emissions in excess of Bay Area Air Quality Management District (BAAQMD) impact significance thresholds (80 pounds per day for PM₁₀); and
- · Conflict with specific Air Quality Management Plan policies or programs.

Table 4-30 summarizes the traffic-related PM₁₀ air quality impacts of the alternatives. Table 4-31 summarizes the estimated daily emissions of PM₁₀ for the various alternatives (including the No Action Alternative). The table also shows estimated PM₁₀ emissions that occurred under preclosure activity levels (an operational base). The 1994 Bay Area Clean Air Plan which is the current BAAQMD air plan, is based on land use and transportation patterns that existed in the early 1990's. Because most military installations are accounted for in the air quality plan as active facilities, the preclosure activity scenario provides a useful basis for judging the extent to which reuse alternatives cause increases or decreases in traffic-related emissions. For purposes of this analysis, we have compared the PM₁₀ air emissions to a closed facility, and identified that PM₁₀ emissions exceed the 80 pounds per day significance threshold. If

the air emissions are considered in relation to preclosure conditions, these PM₁₀ emissions would be below the BAAQMD significance threshold of 80 pounds per day for all alternatives except the Maximum Capacity Alternative and Single Use Campus Alternative.

Table 4-30
Summary of Air Quality Impact Determinations

	NAVY ACTIONS		ALTERNATIVES			
IMPACT ISSUES	Navy Disposal	No Action Alternative	Maximum Capacity Alternative	Mixed Use Village Alternative	Single Use Campus Alternative	Residential Alternative
Traffic-related PM10 emissions	0	Ф	•	. •	•	•
					•	

LEGEND:

Level of Impact

Significant and not mitigable

Significant and mitigable
 Nonsignificant

O - Nonsignificant
O - None

Table 4-31 Estimated Air Emissions

Alternative	Daily	Estimated Daily	Emissions (pounds/day)	Net Increase Over Preclosure Conditions (pounds/day) PM ₁₀
Preclosure Activity	4,804	74,904	151	None
No Action	150	1,649	3	None
Maximum Capacity	10,725	117,868	237	86
Mixed Use Village	10,070	110,669	222	71
Single Use Campus	13,840	152,102	306	155
Residential Option 1	6,815	74,897	150	None
Residential Option 2	8,73 0	95,943	193	42

Notes: PM10 = inhalable particulate matter (threshold = 80 lbs/day) VMT = vehicle miles traveled

Vehicle trip estimates assume that morning and afternoon peak hour trips account for 20 percent of daily trips.

VMT estimate assumes an average trip distance of about 11 miles for reuse alternatives and 15.6 miles for preclosure activities.

Vehicle emission rates calculated with the EMFAC/F emission rate model for the year 2010.

PM10 emission rates include a resuspended roadway dust component (0.69 grams per vmt) as recommended by BAAQMD (1996).

Net emission changes are based on a comparison to preclosure activity levels.

4.10.2 Maximum Capacity Alternative

Significant Impacts

Traffic-related PM₁₀ Emissions

Impact: A significant and unmitigable impact would result from an increase in traffic-related PM₁₀ emissions. As indicated by the emission estimates in Table 4-31, traffic associated with the Maximum Capacity Alternative would generate PM₁₀ emissions above the BAAQMD significance threshold of 80 pounds per day for PM₁₀ emissions.

The Maximum Capacity Alternative would result in a net increase of approximately 86 pounds per day of PM₁₀ emissions compared to preclosure PM₁₀ emissions from this facility (Table 4-31).

No Mitigation: The air emissions analysis for the Maximum Capacity Alternative already incorporates a general consideration of the number of trips that are reduced by transit use (five percent of total trips) and by linked trips (five percent of total trips). This reduction in trips slightly decreases the estimated volume of air emissions. New roadways within the NMCO site would include sidewalks and bicycle facilities according to City of Oakland standards, which also would decrease the estimated emissions slightly. Current state law effectively requires that trip reduction programs in the Bay Area be voluntary, rather than mandatory. Consequently, there are few mechanisms available to the City of Oakland to achieve significant additional reductions in projected PM10 emissions from vehicle traffic.

4.10.3 Mixed Use Village Alternative

Significant Impacts

Traffic-related PM10 Emissions

Impact: A significant and unmitigable impact would result from an increase in traffic-related PM₁₀ emissions. As indicated by the emission estimates presented in Table 4-31, traffic associated with the Mixed Use Village Alternative would exceed the BAAQMD significance threshold of 80 pounds per day for PM₁₀ emissions.

The Mixed Use Village Alternative would result in a net increase of approximately 71 pounds per day of PM₁₀ emissions compared to PM₁₀ emissions from previous use (preclosure activity) of this facility (Table 4-31).

No Mitigation: The air emissions analysis for the Mixed Use Village Alternative already incorporates a general consideration of the number of trips

that are reduced by transit use (five percent of total trips) and by linked trips (five percent of total trips). This reduction in trips slightly decreases the estimated volume of air emissions. New roadways within the NMCO site would include sidewalks and bicycle facilities according to City of Oakland standards, which also would decrease the estimated emissions slightly. Current state law effectively requires that trip reduction programs in the Bay Area be voluntary, rather than mandatory. Consequently, there are few mechanisms available to the City of Oakland to achieve significant additional reductions in projected PM₁₀ emissions from vehicle traffic.

4.10.4 Single Use Campus Alternative

Significant Impacts

Traffic-related PM10 Emissions

Impact: A significant and unmitigable impact would result from an increase in traffic-related PM₁₀ emissions. As indicated by the emission estimates presented in Table 4-31, traffic associated with the Single Use Campus Alternative would exceed the BAAQMD significance threshold of 80 pounds per day for PM₁₀ emissions.

The Single Use Campus Alternative would result in a net increase of approximately 155 pounds per day of PM₁₀ emissions compared to PM₁₀ emissions from previous use (preclosure activity) of this facility (Table 4-31).

No Mitigation: The air emissions analysis for the Single Use Campus Alternative already incorporates a general consideration of the number of trips that are reduced by transit use (five percent of total trips) and by linked trips (five percent of total trips). This reduction in trips slightly decreases the estimated volume of air emissions. New roadways within the NMCO site would include sidewalks and bicycle facilities according to City of Oakland standards, which also would decrease the estimated emissions slightly. Current state law effectively requires that trip reduction programs in the Bay Area be voluntary, rather than mandatory. Consequently, there are few mechanisms available to the City of Oakland to achieve significant additional reductions in projected PM₁₀ emissions from vehicle traffic.

4.10.5 Residential Alternative Significant Impacts

Significant Impacts

Traffic-Related PM₁₀ Emissions

Impact: A significant and unmitigable impact would result from an increase in traffic-related PM₁₀ emissions. As indicated by the emission estimates

presented in Table 4-31, traffic associated with the Residential Alternative (Option 1 or Option 2) would exceed the BAAQMD significance threshold of 80 pounds per day for PM₁₀ emissions.

The Residential Alternative (Option 2) would result in a net increase of approximately 42 pounds per day of PM₁₀ emissions compared to PM₁₀ emissions from previous use (preclosure activity) of this facility (Table 4-31).

No Mitigation: The air emissions analysis for the Residential Alternative already incorporates a general consideration of the number of trips that are reduced by transit use (five percent of total trips) and by linked trips (five percent of total trips). This reduction in trips slightly decreases the estimated volume of air emissions. New roadways within the NMCO site would include sidewalks and bicycle facilities according to City of Oakland standards, which also would decrease the estimated emissions slightly. Current state law effectively requires that trip reduction programs in the Bay Area be voluntary, rather than mandatory. Consequently, there are few mechanisms available to the City of Oakland to achieve significant additional reductions in projected PM₁₀ emissions form vehicle traffic.

4.10.6 No Action Alternative

Nonsignificant Impacts

Traffic-related PM₁₀ Emissions. As indicated in Table 4-31, the No Action Alternative would generate only minor amounts of vehicle traffic and PM₁₀ emissions are below the BAAQMD threshold.

Reference

Bay Area Air Quality Management District. 1996. BAAQMD CEQA Guidelines, Assessing the Air Quality Impacts of Projects and Plans. San Francisco, California. April 1996.

Letter AA

October 29, 1997

ER 97/551

Environmental Review Coordinator Ms. Anu Raud

1330 Broadway, 2nd Floor Oakland, CA 94612

Dear Ms. Raud

The Department of the Interior has reviewed the Draft Environmental Impact Statement (EIS) for the Disposal and Reuse of the Naval Medical Center Oakland (NMCO), Alameda County, California and has no comments to offer.

Thank you for the opportunity to comment on this document.

Sincerely,

Patricia Sanderson Port Regional Environmental Officer

cc: Director, OEPC (w/orig. incoming)
Regional Director, FWS, Portland

Response to Camments Naval Medical Center Oakland Disposal and Reuse Final EISEIR

AA-1

176

United States Department of the Interior

OFFICE OF THE SECRETARY
Office of Environmental Policy and Compliance
600 Harrison Street, Suite 515
San Fraccisco, California 94107-1376

Response to Comments

Response to Comment AA-1. Comment noted. Thank you.

PETE WILSON

Letter BB State of California

GOVERNOR'S OFFICE OF PLANNING AND RESEARCH

1400 TENTH STREET SACRAMENTO 85814



November 3, 1997

ANU RAUD CITY OF OAKLAND/U.S. NAVY 1330 BROADWAY 2ND FLR OAKLAND, CA 94612 Subject: NAVAL MEDICAL CENTER FOR OAKLAND SCH #: 95103035

Dear ANU RAUD

The State Clearinghouse submitted the above named environmental document to selected state agencies for review. The review period is closed and none of the state agencies have comments. This letter acknowledges that you have complied with the State Clearinghouse review requirements for draft environmental documents, pursuant to the California Environmental Quality Act.

Please call at (916) 445-0613 if you have any questions regarding the the environmental review process. When contacting the Clearinghouse in this matter, please use the eight-digit State Clearinghouse number so that we may respond promptly.

Sincerely,

Ruthe A. Maybet.

ANTERO A. RIVASPIATA
CHIEF, State Clearinghouse

State of California, Governor's Office of Planning and Research Letter BB

Response to Comments

Response to Comment BB-1. Comment noted. Thank you.

Response to Comments
Naval Medical Center Oakland
Disposal and Reuse Final EIS/EIR

BB-1

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OVEN for Comments CITY OF OAKLAND 1330 BROADWAY, 2ND FLOOR . OAKLAND, CALIFORNIA 94612

Community and Economic Development Agency

(510) 238-3912 FAX (510) 238-4730 TDD (510) 839-6451

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September 19, 1997

CASE FILE NO: ER96-32

To: All Interested Persons

The U.S. Navy and the city of Oakland released a Draft Environmental Impact Statement/Environmental Impact Report (EIS/EIR) for public review on October 11, 1996, on the Disposal and Reuse of the Naval Medical Center Oakland (NMCO), formerly known as the Oak Knoll Naval Hospital, located on Mountain Boulevard near Keller Avenue in the City of Oakland. A joint public hearing with the U.S. Navy and the City of Oakland City Planning Commission was held on November 13, 1996 at which public testimony was taken. The public comment period ended on December 2, 1996.

During the public comment period, fourteen letters were received. A letter dated November 27, 1996, was received from the Bay Area Air Quality Management District stating that the air quality analysis in the Draft EIS/EIR did not estimate project emissions of fine particulate matter less than 10 microns is size (PMIO). The District requested that the PMIO emissions be calculated for the EIS/EIR project alternatives and compared against the District's recommended CEGA significance threshold of 80 pounds per day. This analysis has been completed and shows that all alternatives for reuse of the NMCO property will exceed the District's significance threshold for PMIO air emissions. Air emissions under the No Action alternative would not exceed 80 pounds per day, but would require the property to remain in caretaker status under Navy control. These PMIO emissions are the result of increased traffic associated with the reuse of NMCO as compared to the No Action alternative.

The City of Oakland has evaluated this increase in PMIO emissions and has determined it is an unavoidable impact which cannot be mitigated. The California Environmental Quality Act Guidalines, Section 15088.5 require that if new significant information is included in an ETR after the public review, period has ended, that the lead agency is required to recirculate the new, significant information prior to issuing a final ETR. This section further specifies that

The City of Oakland is requesting your comments on the recirculated

-2-100

Draft EIR PMIO analysis section which is available at the address below. The California Environmental Quality Act Guidelines require a 45-day public comment period on this new information. The review period will end on November 4, 1997. The City of Oakland will respond to these comments and all other comments received on the DRAFT EIR, in the Final EIS/EIR, which is expected to be released in late Fall 1997. The Final EIR will be available for public comment prior to final action on the project.

Please send your comments to Anu Raud, Environmental Review Coordinator, 1330 Broadway, 2nd floor, Oakland, CA 94612 or call her at (510) 238-6346. Thank you.

WILLIE VEE, JR.

WILLIE YEE, JR. Environmental Review Officer

attachment A great this letter carefully cond homeint the slightest idea what in describes or what caned be done in describes or what caned be done

stars feel the same way it my french think I should go on Joepardy I have Another from the form

CC-1

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Response to Comments

Response to Comment CC-1. The recirculation letter describes air quality impacts. In response to the Bay Area Air Quality Management District's (BAAQMD) comment on the Draft EIS/EIR, impacts were assessed for fine particulate matter (PM₁₀), a type of traffic-related air emission. The attachment to the letter describes mitigation measures, such as reducing the frequency in which people use their cars through public transit and providing sidewalks and bicycle facilities. However, trip reduction programs are voluntary, rather than mandatory under current state law. The PM₁₀ air emissions exceed the BAAQMD's thresholds, and cannot be reduced to a level that is less than significant. Because this is new significant information under the California Environmental Quality Act, the section was recirculated for public review. For further information, refer to Chapter 1 for the purpose of the EIS/EIR, and Section 4.10 for potential impacts related to air quality.

Response to Comments
Naval Medical Center Oakland
Dispasal and Reuse Final EINEI

Oct. 30, 1997

vironmental Review Coordinator 30 Broadway, 2nd floor 1330 Broadway, 2nd Oakland, CA 94612 Thankyou for the information on the Naval Medical Center Oakland. You request my comments: Has the idea of open space been considered? It could be used by walkers and hikers who wouldn't add to the airpollution problem.

DD-1

Mrs. Eugene Rainbow

Mu. Eugent Kow 822 Sugaruine Ave. Sunnyvale, CA 94086

Response to Comments

Response to Comment DD-1. All of the reuse alternatives provide open space, ranging from 32 acres to 101 acres. Pedestrian trails would be provided in some of the open space areas along Rifle Range Creek and in the hills. Chapter 2 of the EIS/EIR provides a description of the alternatives.

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Response to Comments Naval Medical Center Oakland Disposal and Reuse Final EIS/EIR

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RESPONSE TO COMMENTS ON CALIFORNIA ENVIRONMENTAL QUALITY ACT RECIRCULATION OF NEW SIGNIFICANT INFORMATION REGARDING FINE PARTICULATE MATTER (PM₁₀) AND OZONE PRECURSORS

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Response to Comments Naval Medical Center Oakland Disposal and Reuse Final EIS/EIR

CITY OF OAKLAND



1330 BROADWAY, 2ND FLOOR • OAKLAND, CALIFORNIA 94612

Community and Economic Development Agency Zoning

(510) 238-3912 FAX (510) 238-4730 TDD (510) 839-6451

January 22, 1998

CASE FILE NO: ER96-32

To: All Interested Persons

Re: Revision to Air Quality Analysis
Oak Knoll Naval Hospital
Navy Medical Center Oakland

The U.S. Navy and the City of Oakland released a Draft Environmental Impact Statement/Environmental Impact Report (EIS/EIR) for public review on October 11, 1996, on the Disposal and Reuse of the Naval Medical Center Oakland (NMCO), formerly known as the Oak Knoll Naval Hospital, located on Mountain Boulevard near Keller Avenue in the City of Oakland. A joint public hearing with the U.S. Navy and the City of Oakland City Planning Commission was held on November 13, 1996 at which public testimony was taken. The public comment period ended on December 2, 1996.

Based on a comment from the Bay Area Air Quality Management District, detailed analysis of PM10 emissions was performed. The analysis disclosed significant and unavoidable impacts relating to PM10. Therefore, the air quality section was recirculated for further public comment. The recirculation period ended on November 4, 1997.

A further review of the environmental documents has identified another threshold that has been exceeded that was not identified in the previous documents. Specifically, it has been discovered that due to an arithmetic error, the calculation of air emissions under the Maximum Capacity Alternative (Table 4-31) were higher than previously estimated. The air quality analysis has been corrected. The original estimated emissions for ozone precursors were 77 pounds per day (lbs/day) of reactive organic compounds (ROG) and 148 lbs/day of nitrogen oxide (NOx) for the Maximum Capacity Alternative. This estimate has been revised to 94 lbs/day of ROG and 180 lbs/day of NOx emissions. Since the Draft EIR indicated that the NOx emissions were already above the significance threshold of 80 lbs/day, the revised air emission estimates did not change the conclusions that NOx emissions exceed BAAQMD significance criteria and could not be mitigated. However, the ROG emissions were below the significant threshold for the Maximum Capacity Alternative in the Draft EIR. The conclusion that emissions of ROG now exceed the 80 lbs/day BAAQMD threshold and cannot be

mitigated is the reason for recirculation of this information prior to release of a Final EIR.

The revised air quality analysis also estimated that PM10 emissions would be 289 pounds per day, a significant and unmitigable impact. The recirculated letter of September 16, 1997 estimated that PM10 emissions would be 237 pounds per day. Since the recirculated document indicated that PM10 emissions were already above the significance threshold of 80 pounds per day, the revised air emission estimates did not change the conclusions that PM10 emissions exceeded the BAAQMD significance criteria and could not be mitigated.

The City of Oakland has evaluated this increase in ozone precursor and PM10 emissions and has determined that they are unavoidable impacts which cannot be mitigated (see attachment A). The California Environmental Quality Act Guidelines Section 15088.5 require that if new significant information is included in an EIR after public review period has ended, that the lead agency is required to recirculate the new significant information prior to issuing a Final EIR. This section further specifies that only the significant new information need be recirculated.

The City of Oakland is requesting your comments on the recirculated Draft EIR air quality analysis section which is available at the address below. The California Environmental Quality Act Guidelines require a 45-day public comment period on this new information. The review period will end on March 12, 1998. The City of Oakland will respond to these comments and all other comments received on the Draft EIR, in the Final EIS/EIR. The Final EIR will be available for public comment prior to final action on the project.

Please send your comments to Anu Raud, Environmental Review Coordinator, 1330 Broadway, 2nd floor, Oakland, CA 94612 or call her at (510) 238-6346. Thank you.

WILLIE YEE, R. Environmental Review Officer

Attachment A

cc:

Gary Munekawa Jane Steven

USNAVY-ARI

Attachment A

Additional Air Quality Impact Information to be added to Section 4.10 of the Final Environmental Impact Report for the Reuse of the Naval Medical Center Oakland

4.10 AIR QUALITY

This Air Quality section provides new information related to air quality impacts under the Maximum Capacity Alternative. All other air quality analyses were previously provided in Draft Environmental Impact Report for the Disposal and Reuse of NMCO and the CEQA recirculation of new significant information of September 19, 1997. This information has been completed by the same preparers as the Draft Environmental Impact Report. The additional information is provided here for public comment and will be incorporated into the Final Environmental Impact Report. The Final Environmental Impact Report will be available for public comment prior to the City of Oakland issuing a Notice of Determination on its decision regarding NMCO.

4.10.1 Significance Criteria

Air quality impacts are judged to be significant if project implementation would directly or indirectly:

- Produce emissions that would cause or contribute to a violation of state or federal ambient air quality standards;
- Cause pollutant emissions in excess of Bay Area Air Quality Management District (BAAQMD) impact significance thresholds (80 pounds per day for reactive organic compounds, nitrogen oxides, or PM₁₀); and
- Conflict with specific Air Quality Management Plan policies or programs.

The significance criteria for physical air quality impact issues are set largely by the technical procedures used for the impact assessment. When dispersion modeling analyses are performed, the most appropriate impact significance criteria relate to the potential for causing or contributing to violations of federal or state ambient air quality standards. When dispersion modeling analyses are not performed, impact significance is evaluated in the context of appropriate emission thresholds (BAAQMD 1996). Table 4-30 summarizes the air quality impacts of the alternatives. Air emission increases are compared against a closed facility in caretaker status to determine significance. Air emissions based on previous use of NMCO are provided for comparison.

Table 4-30
Summary of Air Quality Impact Determinations

IMPACT ISSUES	Maximum Capacity Alternative	
Traffic-related ozone precursor emissions	ė	
Traffic-related PM ₁₀ emissions	•	

LEGEND:

Level of Impact

Significant and not mitigable

- Significant and mitigable

🛈 🕳 Nonsignificant

- None

4.10.2 Maximum Capacity Alternative

Significant Impacts

Traffic-related Ozone Precursor Emissions

Impact 1: A significant and unmitigable impact would result from an increase in traffic-related ozone precursor emissions. Table 4-31 summarizes the estimated daily emissions of reactive organic compounds and nitrogen oxides for the Maximum Capacity Alternative. The Maximum Capacity Alternative would generate emissions above the BAAQMD significance threshold of 80 pounds per day for reactive organic compounds and nitrogen oxide emissions.

The Maximum Capacity Alternative would result in a net increase of approximately 40 pounds per day of reactive organic compounds and 68 pounds per day of nitrogen oxide emissions compared to preclosure emissions from this facility (Table 4-31).

No Mitigation: The air emissions analysis for the Maximum Capacity Alternative already incorporates a general consideration of the number of trips that are reduced by transit use (five percent of total trips) and by linked trips (five percent of total trips). This reduction in trips slightly decreases the estimated volume of air emissions. New roadways within the NMCO site would include sidewalks and bicycle facilities according to City of Oakland standards, which also would decrease the estimated emissions slightly. Current state law effectively requires that trip reduction programs in the Bay Area be voluntary, rather than mandatory. Consequently, there are few mechanisms available to the City of Oakland to achieve significant additional reductions in projected reactive organic compounds and nitrogen oxide emissions from vehicle traffic.

Table 4-31
Estimated Air Emissions

7 % Aug 70 (4)	Estimated					Net	Increase (Over
		Estimated		ated Emis		Preclos	ure Cond	litions
	Daily	Daily :	(p	ounds/da	y)	(p	ounds/da	y)
Alternative	Trips	VMT	ROG	Nox	PM ₁₀	ROG	NOx	PM ₁₀
Preclosure Activity	4,804	74,904	54	112	151	None	None	None
Maximum Capacity	13,090	143,859	94	180	289	- 40	68	138

Notes: ROG - reactive organic compounds

NOx - nitrogen oxides

PM₁₀ - inhalable particulate matter

VMT - vehicle miles traveled

Vehicle trip, VMT, and emission estimates for a continuation of preclosure activity levels are based on estimated annual values (Radian corporation 1997), assuming 240 work days per year.

Preclosure scenario emission estimates have adjusted the original 2001 emission rates to reflect 2010 emission rates.

Vehicle trip estimates for reuse alternatives and the No Action Alternative are extrapolated from peak hour trip projections, assuming that 20 percent of daily trips occur during the morning and afternoon peak hour periods.

VMT estimates assumes an average trip distance of about 11 miles for reuse alternatives and 15.6 miles for preclosure activity. Vehicle emission rates calculated with the EMFAC7F emission rate model for the year 2010.

PM₁₀ emission rates include a resuspended roadway dust component (0.69 grams per vmt) as recommended by BAAQMD

(1996).

Net emission changes are based on a comparison to preclosure activity levels since the current Clean Air Plan assumed an active facility.

Traffic-related PM10 Emissions

Impact: A significant and unmitigable impact would result from an increase in traffic-related PM₁₀ emissions. As indicated by the emission estimates in Table 4-31, traffic associated with the Maximum Capacity Alternative would generate PM₁₀ emissions above the BAAQMD significance threshold of 80 pounds per day for PM₁₀ emissions.

The Maximum Capacity Alternative would result in a net increase of approximately 138 pounds per day of PM₁₀ emissions compared to preclosure PM₁₀ emissions from this facility (Table 4-31).

No Mitigation: The air emissions analysis for the Maximum Capacity Alternative already incorporates a general consideration of the number of trips that are reduced by transit use (five percent of total trips) and by linked trips (five percent of total trips). This reduction in trips slightly decreases the estimated volume of air emissions. New roadways within the NMCO site would include sidewalks and bicycle facilities according to City of Oakland standards, which also would decrease the estimated emissions slightly. Current state law effectively requires that trip reduction programs in the Bay Area be voluntary, rather than mandatory. Consequently, there are few mechanisms available to the City of Oakland to achieve significant additional reductions in projected PM10 emissions from vehicle traffic.

PETE WILSON GOVERNOR

State of California Letter AAA

GOVERNOR'S OFFICE OF PLANNING AND RESEARCH

1400 TENTH STREET SACRAMENTO 95814

PAUL F MINER DIRECTOR

March 10, 1998

ANU RAUD CITY OF OAKLAND/U.S. NAVY 1330 BROADWAY 2ND FLR OAKLAND, CA 94612

Subject: NAVAL MEDICAL CENTER FOR OAKLAND SCH #: 95103035

Dear ANU RAUD:

document to selected state agencies for review. The review period is closed and none of the state agencies have comments. This letter acknowledges that you have complied with the State clearinghouse review requirements for draft environmental documents, pursuant to the California Environmental Quality Act. The State Clearinghouse submitted the above named environmental AAA-1

Please call at (916) 445-0613 if you have any questions regarding the environmental review process. When contacting the Clearinghouse in this matter, please use the eight-digit State Clearinghouse number so that we may respond promptly.

Sincerely,

Chuth A. Olfand ANTERO A. RIVASPLATA Chief, State Clearinghouse

Response to Comments

Response to Comment AAA-1. Comment noted. Thank you.

Response to Conments Noval Medical Center Oakland Disposal and Reuse Final EISIEIR

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Rec' 2 3-10-98 LL

March 3, 1998

City of Oakland 1330 Broadway, 2nd floor Oakland, CA 94612

Re: Naval Medical Center Oakland

Case File No: ER96-32

To: Zoning Division

Attn: Anu Raud

This is in response to your letter of January 22, 1998, regarding the recirculated Draft EIR air quality analysis.

My opinion is still the same - the land world be best used by returning it to open space. In view of all the recent mudslides it seems it world be better undeveloped: !!king and walking trails would be a good use.

BBB-1

Sincerely,

Mr. Lyene Harn Mrs. Bugene Rainbow

Response to Comments

Response to Comment BBB-1. All of the reuse alternatives provide open space,

ranging from 32 acres to 101 acres. Chapter 2 of the EIS/EIR provides a

description of the alternatives.