ATTACHMENT 1 APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS

Requirement	Prerequisite	Citation <sup>b</sup>	ARAR Determination	Comments
		Soil		
Resource Conservation and Recovery A	Act (Title 42 U.S.C. Chapt	er 82, §§ 6901-6991[i])		
Defines RCRA hazardous waste. A solid waste is characterized as toxic, based on TCLP, if the waste exceeds the TCLP maximum concentrations.	Waste	Cal. Code Regs. tit. 22, §§ 66261.21, 66261.22(a)(1), 66261.23, 66261.24(a)(1), and 66261.100	Applicable	These regulations are applicable to activities that generate waste to determine if the waste is hazardous. The Navy will determine if the excavated soil meets the definition of non- RCRA hazardous waste when it is generated.
Toxic Substances Control Act (15 U.S.C	., ch. 53, §§ 2601–2692) <sup>c</sup>			
Regulates storage and disposal of PCB remediation waste. There are three options: (1) self-implementing on-site cleanup and disposal; (2) performance- based disposal using existing approved disposal technologies; and (3) risk-based disposal.	Soils, debris, sludge, or dredged materials contaminated with PCBs at concentrations greater than 50 ppm.	40 CFR § 761.61 (c)	Applicable and relevant and appropriate	Substantive provisions of the risk-based disposal option are applicable for soil cleanup for PCB concentrations greater than 50 ppm. This requirement is relevant and appropriate for soil that contains PCBs at concentrations less than 50 ppm.
Uranium Mill Tailings Radiation Control	Act (42 U.S.C., ch. 88, §	192.02, 192.129[a] and	[b], 192.42) <sup>c</sup>	
Standards for Cleanup of Land and Buildings Contaminated with Radium-226, Radium-228, and Thorium from Inactive Uranium Processing Sites. As a result of residual radioactive materials from any designated processing site:	UMTRCA sites (radioactivity above 5 pCi/g).	40 CFR § 192.12(a)	Relevant and appropriate	This requirement is relevant and appropriate.
<ul> <li>(a) The concentration of radium-226 in land averaged over any area of 100 square meters shall not exceed the background level by more than:</li> <li>(1) 5 pCi/g, averaged over the first 15 cm of soil below the surface, and (2) 15 pCi/g, averaged over 15 cm-thick layers of soil more than 15 cm below the surface.</li> </ul>				

Requirement	Prerequisite	Citation <sup>b</sup>	ARAR Determination	Comments					
Soil (Continued)									
Radiological Criteria for License Termin	nation								
A site will be considered acceptable for unrestricted use if the residual radioactivity that is distinguishable from background radiation results in a TEDE to an average member of the critical	Existing NRC-licensed radiologically contaminated site.	10 CFR § 20.1402	Relevant and appropriate	This ARAR is not applicable because Parcel C is not an NRC licensed radiologically contaminated site. This ARAR is relevant and appropriate for an unrestricted land-use scenario.					
group that does not exceed 25 mrem/y, including that from groundwater sources of drinking water, and that the residual radioactivity has been reduced to ALARA.				U.S. EPA does not believe this NRC regulation is protective of human health and the environment, and the HPS cleanup goals are more protective. This regulation is an ARAR only for radiologically impacted sites that are undergoing TCRAs and any additional remedial action required for those sites.					
		Groundwater							
Resource Conservation and Recovery	Act (Title 42 United State	s Code Chapter 82, §§ 6	6901-6991[i]) <sup>c</sup>						
Groundwater protection standards: Owners/operators of RCRA treatment, storage, or disposal facilities must comply with conditions in this section that are designed to ensure that hazardous constituents entering the groundwater from a regulated unit do not exceed the concentration limits for contaminants of concern set forth under Cal. Code Regs. tit. 22, § 66264.94 in the uppermost aquifer underlying the waste management area of concern at the POC.	A regulated unit that receives or has received hazardous waste before July 26, 1982, or regulated units that ceased receiving hazardous waste prior to July 26, 1982 where constituents in or derived from the waste may pose a threat to human health or the environment.	Cal. Code Regs. tit. 2, § 66264.94(a)(1), (a)(3), (c), (d), and (e)	Relevant and appropriate	The lowest concentration determined to be technologically and economically achievable is an ARAR for groundwater at Parcel C. The lowest concentration limit greater than the background level that is technologically and economically achievable for the A-aquifer is based on unacceptable risk from the vapor intrusion pathway. The lowest concentration limit greater than background that is technologically and economically achievable for the B-aquifer aquifer at RU-C5 and the deeper bedrock water-bearing zone is equivalent to the values that are also MCLs for these areas of the B-aquifer.					

Requirement	Prerequisite	Citation <sup>b</sup>	ARAR Determination	Comments	
	Gi	oundwater (Continued	)		
Safe Drinking Water Act (42 U.S.C., ch.	6A, § 300[f]–300[j]-26) <sup>c</sup>				
National primary drinking water standards are health-based standards for public water systems (MCLs).	Public water system	40 CFR § 141.61(a)	Relevant and appropriate	The Navy considers the deep F-WBZ and the B-aquifer at RU-C5 potential sources of drinking water, and federal MCLs are ARARs for the deep F-WBZ and the B-aquifer at RU- C5 only. The Navy has determined that the A-aquifer is not a potential source of drinking water; therefore, drinking water standards (MCLs) are not ARARs for the A-aquifer.	
		Surface Water			
Clean Water Act of 1977, as Amended (	33 U.S.C., ch. 26, §§ 1251	–1387) <sup>°</sup>			
Surface water quality standards.	Discharges to waters of the United States.	40 CFR § 131.38	Applicable	These standards, known as the CTR, are applicable surface water ARARs. The Navy has identified the CTR as surface water ARARs for HPS Parcel C because groundwater discharges to the Bay. The Navy will meet these ARARs for contaminants that do not have a promulgated standard in Table 3-3 of the Basin Plan at the interface of the A- and B-aquifers and the Bay.	
		Air			
Clean Air Act (42 U.S.C., ch. 85, §§ 7401	–7671) <sup>°</sup>				
Emissions of radionuclides into the ambient air from Department of Energy facilities shall not exceed those amounts that would cause any member of the public to receive in any year an effective dose equivalent of 10 mrem/y.	Facility owned or operated by the Department of Energy that emits any radionuclide other than radon-222 and radon-220 into the air.	perated by the artment of Energy hat emits any nuclide other than adon-222 and		Not applicable because Parcel C is not a Department of Energy site, but may be relevant and appropriate if there is the potential for airborne emissions of radionuclides other than radon. Only an ARAR until cleanup action is completed. Not an ARAR for residual contamination after cleanup.	

	Requirement	Prerequisite	Citatio	n <sup>ь</sup>	ARAR Determination	Comments					
	Air (Continued)										
Clean Air Ac	Clean Air Act (42 U.S.C., ch. 85, §§ 7401–7671) <sup>c</sup> (Continued)										
Emissions of radionuclides, including iodine, into the ambient air from a facility regulated under this subpart shall not exceed those amounts that would cause any member of the public to receive in any year an effective dose equivalent of 10 mrem/y. Emissions of iodine into the ambient air from a facility regulated under this subpart shall not exceed those amounts that would cause any member of the public to receive in any year an effective dose equivalent of 3 mrem/y.		40 CFR § 6	51.102	Applicable	The requirements are applicable since fugitive dust may be generated during implementation of remedial action at Parcel C. The exposure to the public caused by remedial action operations at Parcel C is not likely to exceed 10 mrem/y because of the following reasons: (1) The concentrations of any radionuclide in dust are relatively low, as previously measured in air samples, and (2) the concentration of any radionuclide in dust will be reduced by use of engineering controls such as wetting of soils.						
Notes: a b c		the requirements cited in this tabl ations, are provided as headings t entire statutes or policies as ARA	e are ARARs. o identify general	categories c	of ARARs for the conven	ience of the reader; listing the statutes and policies does not each general heading; only substantive requirements of the					
§ §§ ALARA ARAR Cal. Code Regs. CFR cm CTR F-WBZ HPS LLRW MCL mrem/y NRC	Section Sections RA As low as reasonably achievable R Applicable or relevant and appropriate requirement Code Regs. California Code of Regulations Code of Federal Regulations Code of Federal Regulations Centimeter California Toxics Rule BZ Bedrock water-bearing zone Hunters Point Shipyard V Low-level radioactive waste Maximum contaminant level		PCi/g F POC F RCRA F TBC T TCLP T TEDE T tit TSD T UMTRCA U U.S.C. U U.S. EPA U	Polychlorinated biphenyl PicoCurie per gram Point of compliance Resource Conservation and Recovery Act To be considered Toxicity characteristic leaching procedure Total effective dose equivalent Title Treatment, storage, and disposal Uranium Mill Tailings Radiation Control Act United States Code U.S. Environmental Protection Agency Volatile organic compound							

Requirement	Prerequisite	Citation <sup>b</sup>	ARAR Determination	Comments					
	Groundwater								
State and Regional Water Quality Con	trol Boards <sup>c</sup>								
Incorporated into all regional board basin plans. Designates all groundwater and surface waters of the state as drinking water except where the total dissolved solids are greater than 3,000 parts per million, the well yield is less than 200 gallons per day from a single well, the water is a geothermal resource or in a water conveyance facility, or the water cannot reasonable be treated for domestic use using either best management practices or best economically achievable treatment practices.	Waters of the state	SWRCB Res. 88-63 (Sources of Drinking Water Policy)	Applicable	The Navy has evaluated the groundwater characteristics in the A-aquifer and B-aquifer at HPS Parcel C against the criteria listed in SWRCB Res. 88- 63. The Navy has determined that groundwater in the A-aquifer is not a potential source of drinking water. The only potential source of drinking water is the deep F- WBZ and the B- aquifer at RU-C5. The Water Board has concurred in the Navy's determination that groundwater in the A-aquifer is not a potential drinking water source.					
Describes the water basins in the San Francisco Bay Region beneficial uses of groundwater and surface water, establishes water quality objectives, including narrative and numerical standards and establishes implementation plans to meet the water quality objectives and protect beneficial uses, and incorporates statewide water quality control plans and policies.	Waters of the state	Comprehensive Water Quality Control Plan for the San Francisco Region (Basin Plan) Chapters 2 and 3 (California Water Code § 13240), except the MUN designation for the A-aquifer	Applicable	The substantive groundwater provisions of Chapters 2 and 3 of the basin plan, except the MUN designation, are ARARs. According to the basin plan, which incorporates SWRCB Res. 88-63, A-aquifer groundwater at HPS Parcel C is not a potential drinking water source. The only beneficial use of the A-aquifer groundwater is freshwater replenishment of San Francisco Bay. The only potential source of drinking water is the deep F-WBZ and the B-aquifer at RU-C5.					
Authorizes SWRCB and the Water Board to establish in water quality control plans, beneficial uses and numerical and narrative standards to protect both surface water and groundwater quality.	Waters of the state	California Water Code, div. 7, §§ 13241, 13243, 13263(a), 13269, and 13360 (Porter- Cologne Act)	Applicable	The Navy accepts the substantive provisions of §§ 13241, 13243, 13263(a), 13269, and 13360 of the Porter-Cologne Act enabling legislation, as implemented through the beneficial uses, water quality objectives, waste discharge requirements, and promulgated policies of the San Francisco Basin Plan as ARARs.					

Requirement	Prerequisite	Citation <sup>b</sup> Groundwater (	ARAR Determination Continued)	Comments
State and Regional Water Quality Con	trol Boards <sup>c</sup> (Cor	ntinued)		
Establishes the policy that high-quality waters of the state "shall be maintained to the maximum extent possible" consistent with the "maximum benefit to the people of the State." It provides that whenever the existing quality of water is better than that required by applicable water quality policies, such existing high-quality water will be maintained until it has been demonstrated to the state that any change will be consistent with maximum benefit to the people of the state, will not unreasonably affect present and anticipated beneficial use of the water, and will not result in water quality less than is prescribed in the policies. It also states that any activity that produces or may produce a waste or increased volume or concentration of waste and that discharges or proposes to discharge to existing high-quality waters will be required to meet waste-discharge requirements that will result in the best practicable treatment or control of the discharge.	High-quality waters of the state.	Statement of Policy With Respect to Maintaining High Quality of Waters in California, SWRCB Res. 68-16	Not an ARAR	The Navy has determined that SWRCB Res. 68-16 is not a chemical-specific ARAR for determining remedial action goals, but it is an action-specific ARAR for regulating discharged treated groundwater to surface water. This remedial action does not include discharge of treated groundwater to surface water. The Navy has determined that further migration of VOCs through groundwater is not a discharge governed by the language in Res. 68-16. More specifically, the language of SWRCB Res. 68-16 indicates that it is prospective in intent, applying to new discharges in order to maintain existing high-quality waters. It is not intended to apply to restoration of waters that are already degraded. The state does not agree with the Navy's determination that SWRCB Res. 92-49 and 68-16 are not ARARs for this response action. SWRCB has interpreted the term "discharges" in the <i>California Water Code</i> to include the movement of waste from soils to groundwater and from contaminated to uncontaminated water (SWRCB 1994). However, the state agrees that the proposed action would comply with SWRCB Res. 92-49 and 68-16. The state does not intend to dispute the ROD, but reserves its rights if implementation of the provisions at Cal. Code Regs. tit. 22 is not as stringent as state implementation of the provisions at Cal. Code Regs. tit. 23. Because Cal. Code Regs. tit. 22 regulation is part of the state's authorized hazardous waste control program, it is also the state's position that Cal. Code Regs. tit. 22, § 66264.94 is a state ARAR and not a federal ARAR ( <i>United States v. State of Colorado</i> , 990 F.2d 1565 [1993]).

Requirement	Prerequisite	Citation <sup>b</sup>	ARAR Determination	Comments
		Groundwater (	Continued)	
State and Regional Water Quality Con	trol Boards <sup>c</sup> (Cor	ntinued)		
Describes requirements for regional board oversight of investigation and cleanup and abatement resulting from discharges of hazardous substances. Regional boards may decide on cleanup and abatement goals and objectives for the protection of water quality and beneficial uses of water within each region. Establishes criteria for "containment zones" where cleanup to established water-quality goals is not economically or technically practicable.	Discharge of hazardous substance into waters of the state.	Policies and procedures for investigation and cleanup and abatement of discharges under Cal. Water Code § 13304, SWRCB Res. 92-49	Not an ARAR	<ul> <li>SWRCB Res. 92-49 is not an ARAR for groundwater cleanup because the provisions of Cal. Code Regs. tit. 22, § 66264.94 (a)(1), (a)(3), (c), (d), and (e) have been determined to be a federal ARAR and SWRCB Res. 92-49 is not more stringent.</li> <li>The state does not agree with the Navy's determination that SWRCB Res. 92-49 and 68-16 are not ARARs for this response action. SWRCB has interpreted the term "discharges" in the <i>California Water Code</i> to include the movement of waste from soils to groundwater and from contaminated to uncontaminated water (SWRCB 1994). However, the state agrees that the proposed action would comply with SWRCB Res. 92-49 and 68-16. The state does not intend to dispute the ROD, but reserves its rights if implementation of the provisions at Cal. Code Regs. tit. 22 is not as stringent as state implementation of the provisions at Cal. Code Regs. tit. 22 regulation is part of the state's authorized hazardous waste control program, it is also the state's position that Cal. Code Regs. tit. 22, § 66264.94 is a state ARAR and not a federal ARAR (<i>United States v. State of Colorado</i>, 990 F.2d 1565 [1993].</li> </ul>
		Surface V	Nater	
Surface water quality standards.	Marine water with salinities equal to or greater than 10 ppt 95 percent of the time	Basin Plan Table 3-3	Applicable	These standards are applicable to surface water in the Bay. The Navy has identified Table 3-3 an ARAR for HPS Parcel C because groundwater discharges to the Bay. The Navy will meet these ARARs in the Bay at the interface of the A- and B-aquifers and the Bay.

R	Requirement	Prerequisite	Citation <sup>b</sup>	Determination	Comments
			Soil		
Department of	of Toxic Substances Con	trol <sup>®</sup>	1		
Definition of non-RCRA hazardous waste.		Waste	Cal. Code Regs. tit. 22, §§ 6261.3(a)(2)(C) or (a)(2)(F), 66261.22(a)(3) and (a)(4), 66261.24(a)(2) - (a)(8), and 66261.101	Applicable	These regulations are applicable to activities that generate waste in order to determine if the waste is non- RCRA hazardous waste. The selected alternative includes excavation and off-site disposal of soil. The Navy will determine if the excavated soil meets the definition of non-RCRA hazardous waste when it is generated.
State Water F	Resources Control Board	l <sup>p</sup>			
Definition of designated waste, nonhazardous waste, and inert waste.		Waste	Cal. Code Regs. tit. 27, §§ 20210, 20220, and 20230	Applicable	These regulations are applicable to activities that generate waste for classifying waste and determining the status of other ARARs. The selected alternative include excavation and off-site disposal of soil. The Navy will determine if the excavated soil meets these definitions when it is generated.
Notes:					
а			ic limitations and are addressed	I in the action-specific	ARAR tables.
b c		r citations, are provide the entire statutes or	d as headings to identify genera		s for the convenience of the reader; listing the statutes and policies does no the table below each general heading; only substantive requirements of the
§	Section			ppt	Part per thousand
\$§	Sections			RCRA	Resource Conservation and Recovery Act
ARAR	Applicable or relevant and app	ropriate requirement		Res.	Resolution
div.	Division			SWRCB	State Water Resources Control Board
Cal. Code Regs.	Code of California Regulations	5		tit.	Title
F-WBZ	Bedrock water-bearing zone Hunters Point Shipyard			Water Board WQO	San Francisco Bay Regional Water Quality Control Board f Water quality objective

Location	Requirement	Prerequisite	Citation <sup>b</sup>	ARAR Determination	Comments
Historic project owned or controlled by federal agency	Preservation Act of 1966, as Ame         Action to preserve historic         properties; planning of action         to minimize harm to properties         listed on or eligible for listing         on the National Register of         Historic Places.	Property included in or eligible for the National Register of Historic Places.	16 U.S.C. §§ 470-470x-6 36, CFR Part 800 40, and CFR § 6.301(b)	Applicable	The Navy has identified the Hunters Point Commercial Dry Docks Historical District (Dry Dock 2, Dry Dock 3, Building 205, Building 204, Building 207, seawalls, wharves). These buildings are not currently listed on the National Register of Historic Places, but they have been determined to meet the eligibility requirements. Building 253 may also qualify, as it was the work of an important 20th century architect and received an award for its design. The Navy is in compliance with this ARAR because the selected alternatives do not include activities that will have a significant impact on the building structures.

Location	Requirement	Prerequisite	Citation <sup>b</sup>	ARAR Determination	Comments
Coastal Zone	lanagement Act (Title 16 USC §§ 14	51–1464) <sup>b</sup>			
Within coastal zone	Conduct activities in a manner consistent with approved state management programs.	Activities affecting the coastal zone, including lands thereunder and adjacent shore land.	16 U.S.C. § 1456(c) and 15 CFR § 930	Relevant and appropriate	Federal lands are specifically excluded from the coastal zone; however, the Navy has determined that the Coastal Zone Management Act is relevant and appropriate for activities that will occur within 100 feet of the San Francisco Bay. Any remedial actions taken by the Navy will be consistent with the San Francisco Bay Plan, an approved state management program.
Migratory Bird	Treaty Act of 1972 (16 U.S.C. §§ 703	3–712) <sup>b</sup>			
Migratory bird a	rea Protects almost all species of native migratory birds in the United States from unregulated "take," which can include poisoning at hazardous waste sites.	Presence of migratory birds.	16 U.S.C. § 703	Relevant and appropriate	This section is an ARAR because migratory birds have been observed at Parcel C.
Notes:					
b	Only the substantive provisions of the requirement Statutes and policies, and their citations, are pro- ndicate that the Navy accepts the entire statute specific citations are considered ARARs.	wided as headings to identify gene			
§§ ARAR CFR	Section Sections Applicable or relevant and appropriate requirem Code of Federal Regulations Jnited States Code	ent			

Locations	Requirement	Prerequisite	Citation <sup>b</sup>	ARAR Determination	Comments
McAteer-Petr	is Act (California Government Co	de §§ 66600 through 6666	٥1) <sup>6</sup>		
Within the Sau Francisco Bay coastal zone		Activities affecting the San Francisco Bay and 100 feet landward of the shoreline.	San Francisco Bay Plan (Bay Plan) at Cal. Code Regs. tit. 14 §§ 10110 through 11990	Relevant and appropriate	The Bay Plan, developed under the authority of the McAteer-Petris Act, is an approved state coastal zone management program. Any remedial actions taken by the Navy that will affect San Francisco Bay or that will occur within 100 feet landward of the shoreline will be consistent with the goals of the Bay Plan.
Notes:					
a b		re provided as headings to identify	general categories of ARARs for th		ader; listing the statutes and policies does not heading; only substantive requirements of the
§§ ARAR Cal. Code Regs.	Sections Applicable or relevant and appropriate requ California Code of Regulations	uirement			

tit.

Title

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
		Excavation a	nd Off-Site Disposal of Soil		
Resource Conserv	vation and Recovery Act (Tit	le 42 U.S.C., Chapter 8	2, §§ 6901-6991[i]) <sup>a</sup>		
On-site generation of waste	Person who generates waste shall determine if the waste is a hazardous waste.	Generator of waste	Cal. Code Regs. tit. 22, §§ 66262.10(a), and 66262.11	Applicable	These regulations are applicable to any operation that generates waste. The excavation and off-site disposal of the selected remedy contemplates the generation of waste to be disposed of off site. The Navy will decide whether the waste in RCRA hazardous waste when it is generated.
On-site generation of waste	Requirements for analyzing waste for determining whether waste is hazardous.	Generator of waste	Cal. Code Regs. tit. 22, § 66264.13(a) and (b)	Applicable	These regulations are applicable to any operation that generates waste. The excavation and off-site disposal of the selected remedy include activities that generate waste to be disposed of off site. The Navy will decide whether the waste is RCRA hazardous waste when it is generated.
Stockpiling soil for off-site disposal	Allows generators to accumulate solid remediation waste in an EPA-designated pile for storage only up to 2 years during remedial operations without triggering land disposal restrictions.	Hazardous remediation waste temporarily stored in piles	40 CFR § 264.554 (d)(1)(i) through (ii), (d)(2), (e), (f), (h), (i), (j), and (k)	Relevant and appropriate	The Navy will temporarily stockpile soil in staging piles for off-site disposal. The Navy does not anticipate that all soil will be RCRA hazardous waste; however, the Navy has determined that these requirements are relevant and appropriate for all stockpiled soil.

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
		Excavation and Of	f-Site Disposal of Soil (Conti	inued)	
Clean Air Act (Title	e 42 U.S.C. §§ 7401-7671) <sup>a</sup>				
Excavate soil	Prohibits emission equal or greater to 20 percent opacity.	Emission from a source	Bay Area Air Quality Management District Rule 6-302	Applicable	This requirement is applicable to the construction required for installation of the soil cover.
Excavation of soil contaminated with VOCs	Provides requirements for maintaining, covering and stockpiling excavated soil contaminated with VOCs exceeding 50 ppm.	Soil stockpile.	BAAQMD Regulation 8-40	Relevant and appropriate	This requirement is applicable for excavation activities.
Clean Water Act o	f 1988 as Amended, § 404 (3	3 U.S.C., § 1344) <sup>a</sup>			
Stormwater discharge	Owners and operators of construction activities must be in compliance with discharge standards.	Construction activities at least 1 acre in size.	Clean Water Act § 402 (33 U.S.C. Chapter 26, §1342) and 40 CFR Part 122.44(k)(2) and (4)	Applicable	The Navy anticipates disturbing more than one acre during excavation. The Navy will use the provisions in the state general storm water discharge permit, Order 99-08-DWQ, for complying with these storm water discharge requirements under the Clean Water Act.

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
		Cover	ing Portions of Soil		
Resource Conserv	vation and Recovery Act (Tit	le 42 U.S.C., Chapter 8	82, §§ 6901-6991[i]) <sup>a</sup>		
Construct a cover	The final cover must accommodate lateral and vertical shear forces generated by the maximum credible earthquake so that the integrity of the final cover is maintained.	RCRA hazardous waste management unit	Cal. Code Regs. tit. 22, § 66264.310(a)(5)	Relevant and appropriate	The Navy has determined that this regulation is an ARAR for covering portions of the soil. This regulation is relevant and appropriate because the soil cover will not be constructed as a landfill waste management unit. Instead, the cover will be constructed solely to prevent human exposure to contaminants in the soil.
Construct a cover	The integrity and effectiveness of the final cover, including making repairs to the cover as necessary to correct the effects of settling, subsidence, erosion, or other events throughout the post-closure period.	RCRA hazardous waste management unit	Cal. Code Regs. tit. 22, § 66264.310(b)(1)	Relevant and appropriate	The Navy has determined that this regulation is an ARAR for covering portions of the soil. This regulation is relevant and appropriate because the soil cover will not be constructed as a landfill waste management unit. Instead, the cover will be constructed solely to prevent human exposure to contaminants in the soil.

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
		Covering Po	ortions of Soil (Continued)		
Resource Conserv	vation and Recovery Act (Tit	le 42 U.S.C., Chapter 8	32, §§ 6901-6991[i]) <sup>ª</sup> (Contir	nued)	
Construct a cover	Run-on and run-off must not erode or otherwise damage the final cover.	RCRA hazardous waste management unit	Cal. Code Regs. tit. 22, § 66264.310(b)(4)	Relevant and appropriate	The Navy has determined that this regulation is an ARAR for covering portions of the soil. This regulation is relevant and appropriate because the soil cover will not be constructed as a landfill waste management unit. Instead, the cover will be constructed solely to prevent human exposure to contaminants in the soil.
Construct a cover	Protect and maintain surveyed benchmarks throughout the postclosure period.	RCRA hazardous waste management unit	Cal. Code Regs. tit. 22, § 66264.310(b)(5)	Relevant and appropriate	The Navy has determined that this regulation is an ARAR for covering portions of the soil. This regulation is relevant and appropriate because the soil cover will not be constructed as a landfill waste management unit. Instead, the cover will be constructed solely to prevent human exposure to contaminants in the soil.

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
		Covering Po	rtions of Soil (Continued)		
Clean Water Act (	Fitle 33 U.S.C., Chapter 26, §	§ 1251-1387)a			
Construct a cover	Owners and operators of construction activities must be in compliance with discharge standards.	Construction activities at least 1 acre in size	Clean Water Act § 402 (33 U.S.C. Chapter 26, § 1342) and 40 CFR § 122.44(k)(2) and (4)	Applicable	The Navy anticipates disturbing more than 1 acre when constructing the soil covers. The Navy will use the provisions in the state general storm water discharge permit, Order 99-08-DWQ, for complying with these storm water discharge requirements under the Clean Water Act.
Clean Air Act (Title	e 42 U.S.C. §§ 7401-7671)a				
Construct a cover	Prohibits emission equal or greater to 20 percent opacity.	Emission from a source	Bay Area Air Quality Management District Rule 6-302	Applicable	This requirement is applicable to construction required for the cover.
		Soil Alternativ	ves – Soil Vapor Extraction	1	
Clean Air Act (42 l	J.S.C. § 7401 et seq.) <sup>a</sup>				
Soil vapor extraction	Requirement to use best available control technology for new emission sources.	Emissions from soil vapor extraction.	BAAQMD Regulation 2-2-301	Applicable	This regulation is applicable for emissions from soil vapor extraction systems.
Soil vapor extraction	Requirements for soil vapor extraction.	Emissions from soil vapor extraction.	BAAQMD Regulation 8-47	Applicable	This regulation is applicable for emissions from soil vapor extraction systems.

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
		Grour	ndwater Monitoring	I	
Resource Conse	ervation and Recovery Act (Tit	le 42 U.S.C., Chapter 8	2, §§ 6901-6991[i]) <sup>a</sup>		
Monitor groundwater	Contaminants of concern are the waste constituents, reaction products, and hazardous constituents that are reasonably expected to be in or derived from the waste contained in the regulated unit.	RCRA hazardous waste management unit	Cal. Code Regs. tit. 22, § 66264.93	Relevant and appropriate	These requirements are applicable to RCRA hazardous waste facilities; however, the Navy has determined that they are relevant and appropriate to the monitoring component of the groundwater response action.
Monitor groundwater	The owner or operator shall establish a groundwater monitoring system for each regulated unit and include a sufficient number of monitoring points installed at appropriate locations and depths to yield groundwater samples from the uppermost aquifer that represent the quality of groundwater passing the point of compliance.	RCRA hazardous waste management unit	Cal. Code Regs. tit. 22, § 66264.97(b)(1)(A), (b)(1)(B), (b)(1)(C), (b)(1)(D)(1), and (b)(1)(D)(2)	Relevant and appropriate	These requirements are applicable to RCRA hazardous waste facilities; however, the Navy has determined that they are relevant and appropriate to the monitoring component of the groundwater response action.

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
		•	er Monitoring (Continued)		
Resource Conse	ervation and Recovery Act (Tit	le 42 U.S.C., Chapter 8	32, §§ 6901-6991[i]) <sup>a</sup> (Contin	ued)	
Monitor groundwater	Requirements for monitoring well construction and sampling intervals.	RCRA hazardous waste management unit	Cal. Code Regs. tit. 22, § 66264.97(b)(4), (5), (6), and (7)	Relevant and appropriate	These requirements are applicable to RCRA hazardous waste facilities; however, the Navy has determined that they are relevant and appropriate to the monitoring component of the groundwater response action.
Monitor groundwater	Requirements for groundwater sample collection.	RCRA hazardous waste management unit	Cal. Code Regs. tit. 22, § 66264.97(e)(6), (e)(12)(A), (e)(12)(B), (e)(13), and (e)(15)	Relevant and appropriate	These requirements are applicable to RCRA hazardous waste facilities; however, the Navy has determined that they are relevant and appropriate to the monitoring component of the groundwater response action.
Monitor groundwater	In conjunction with corrective action measures, the owner or operator shall establish and implement a water quality monitoring program to demonstrate the effectiveness of the corrective action program. The program shall be effective in determining compliance and in determining the success of the corrective action measures.	Corrective action for groundwater at RCRA hazardous waste management unit	Cal. Code Regs. tit. 22, § 66264.100(d)	Relevant and appropriate	These requirements are applicable to RCRA hazardous waste facilities; however, the Navy has determined that they are relevant and appropriate to the monitoring component of the groundwater response action.

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
		B	lioremediation		
Safe Drinking Wa	ater Act (Title 42 U.S.C., § 300	[f]-300[j]-26) <sup>a</sup>			
Inject metals treatment compound or hydrogen treatment compound into groundwater	The underground injection control program prohibits injection activities that allow movement of contaminants into underground sources of drinking water that may result in violations of maximum contaminant levels or adversely affect health.	An approved underground injection control program is required in states listed under SDWA 40 CFR § 144.12. Class I wells and Class IV wells are the relevant classifications for CERCLA sites. Class I wells are used to inject hazardous waste beneath the lowermost formation that contains a USDW within 0.25 mile of the well.	40 CFR § 144.12, excluding the reporting requirements in §§ 144.12(b), and 144.12(c)(1)	Applicable	This requirement is applicable to the Navy's injection of metals treatment compound or hydrogen treatment compound into the groundwater. The Navy will use the basic information requirements contained in 40 CFR §144.83 as TBCs for complying with the requirement in 40 CFR §144.12(a).

Disposal of Investigation-Derived Waste Generated in Implementing Groundwater Alternatives

#### Resource Conservation and Recovery Act (Title 42 U.S.C., Chapter 82, §§ 6901-6991[i])<sup>a</sup>

On-site generation of waste	Person who generates waste shall determine if the waste is hazardous waste.	Generator of waste	Cal. Code Regs. tit. 22, §§ 66262.10(a), and 66262.11	Applicable	These regulations are applicable to any operation that generates waste. The Navy will decide whether the waste is RCRA hazardous waste when it is generated.
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Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
	Disposal of Investigat	ion-Derived Waste Gener	rated in Implementing Grou	Indwater Alternativ	es (Continued)
Resource Co	onservation and Recovery Act (	Title 42 U.S.C., Chapter 8	82, §§ 6901-6991[i]) <sup>a</sup> (Contin	ued)	
On-site gener of waste	ration Requirements for analyzing waste for determining whether waste is hazardous.	Generator of waste	Cal. Code Regs. tit. 22, § 66264.13(a) and (b)	Applicable	These regulations are applicable to any operation that generates waste. The Navy will determine whether the waste is RCRA hazardous waste when it is generated.
Notes:					
а					reader; listing the statutes and policies does no antive requirements of the specific citations are
•	considered ARARs.	e statutes of policies as ARARS.	Specific ARARS follow each genera	i neading, and only subst	
	considered ARARs.	e statutes or policies as ARARS.	Specific ARARS follow each genera	i neading, and only subsid	
§§	considered ARARs.			i neading, and only subsu	
§§ ARAR	considered ARARs. Section Sections	requirement		i neading, and only subst	
§§ ARAR BAAQMD	considered ARARs. Section Sections Applicable or relevant and appropriate Bay Area Air Quality Management Distr California Code of Regulations	requirement rict		i neading, and only subsu	
§§ ARAR BAAQMD Cal. Code Regs. CERCLA	considered ARARs. Section Sections Applicable or relevant and appropriate Bay Area Air Quality Management Distr California Code of Regulations Comprehensive Environmental Respon	requirement rict		i neauling, and only subsu	
§§ ARAR BAAQMD Cal. Code Regs. CERCLA CFR	considered ARARs. Section Sections Applicable or relevant and appropriate Bay Area Air Quality Management Distr California Code of Regulations Comprehensive Environmental Respon Code of Federal Regulations	requirement rict ise, Compensation, and Liability /		i neauling, and only subsu	
§§ ARAR BAAQMD Cal. Code Regs. CERCLA CFR DTSC	considered ARARs. Section Sections Applicable or relevant and appropriate Bay Area Air Quality Management Distr California Code of Regulations Comprehensive Environmental Respon Code of Federal Regulations Department of Toxic Substances Contr	requirement rict ise, Compensation, and Liability /		i neauling, and only subsu	
§§ ARAR BAAQMD Cal. Code Regs. CERCLA CFR DTSC DWQ	considered ARARs. Section Sections Applicable or relevant and appropriate Bay Area Air Quality Management Distr California Code of Regulations Comprehensive Environmental Respon Code of Federal Regulations Department of Toxic Substances Contr Department of Water Quality	requirement rict ise, Compensation, and Liability /		n neading, and only subsu	
§§ ARAR BAAQMD Cal. Code Regs. CERCLA CFR DTSC DWQ EPA	considered ARARs. Section Sections Applicable or relevant and appropriate Bay Area Air Quality Management Distr California Code of Regulations Comprehensive Environmental Respon Code of Federal Regulations Department of Toxic Substances Contr	requirement rict ise, Compensation, and Liability /		i neauling, and only subsu	
SS ARAR BAAQMD Cal. Code Regs. CERCLA CFR DTSC DWQ EPA opm	considered ARARs. Section Sections Applicable or relevant and appropriate Bay Area Air Quality Management Distr California Code of Regulations Comprehensive Environmental Respon Code of Federal Regulations Department of Toxic Substances Contr Department of Water Quality U.S. Environmental Protection Agency	requirement rict use, Compensation, and Liability / ol		n neading, and only subsu	
SS ARAR BAAQMD Cal. Code Regs. CERCLA CFR DTSC DWQ EPA Opm RCRA	considered ARARs. Section Sections Applicable or relevant and appropriate Bay Area Air Quality Management Distr California Code of Regulations Comprehensive Environmental Respon Code of Federal Regulations Department of Toxic Substances Contr Department of Water Quality U.S. Environmental Protection Agency Part per million	requirement rict use, Compensation, and Liability / ol		i neauling, and only subsu	
§§ ARAR BAAQMD Cal. Code Regs. CERCLA CFR DTSC DWQ EPA Ppm RCRA SDWA TBC	considered ARARs. Section Sections Applicable or relevant and appropriate Bay Area Air Quality Management Distr California Code of Regulations Comprehensive Environmental Respon Code of Federal Regulations Department of Toxic Substances Contr Department of Toxic Substances Contr Department of Water Quality U.S. Environmental Protection Agency Part per million Resource Conservation and Recovery Safe Drinking Water Act To be considered	requirement rict use, Compensation, and Liability / ol			
§§ ARAR BAAQMD Cal. Code Regs. CERCLA CFR DTSC DWQ EPA ppm RCRA SDWA TBC tit.	considered ARARs. Section Sections Applicable or relevant and appropriate Bay Area Air Quality Management Distr California Code of Regulations Comprehensive Environmental Respon Code of Federal Regulations Department of Toxic Substances Contr Department of Toxic Substances Contr Department of Water Quality U.S. Environmental Protection Agency Part per million Resource Conservation and Recovery Safe Drinking Water Act To be considered Title	requirement rict use, Compensation, and Liability / ol		i neading, and only subsu	
§ §§ ARAR BAAQMD Cal. Code Regs. CERCLA CFR DTSC DWQ EPA ppm RCRA SDWA TBC tit. U.S.C. USDW	considered ARARs. Section Sections Applicable or relevant and appropriate Bay Area Air Quality Management Distr California Code of Regulations Comprehensive Environmental Respon Code of Federal Regulations Department of Toxic Substances Contr Department of Toxic Substances Contr Department of Water Quality U.S. Environmental Protection Agency Part per million Resource Conservation and Recovery Safe Drinking Water Act To be considered	requirement rict use, Compensation, and Liability / ol Act		i neading, and only subsu	

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
	·	Institutio	nal Controls		
California Civil	Code <sup>a</sup>				
Placing a institutional controls on soil and groundwater	Provides conditions under which land-use restrictions will apply to successive owners of land.	Transfer of property from the Navy to a nonfederal agency	California Civil Code § 1471	Relevant and appropriate	Substantive provisions are the following general narrative standard: "to do or refrain from doing some act on his or her own land where (c) each such act relates to the use of land and each such act is reasonably necessary to protect present or future human health or safety of the environment as a result of the presence of hazardous materials, as defined in § 25260 of the California Health & Safety Code." This language provides authority for establishing a durable institutional control that will be implemented through incorporation of restrictive environmental covenants that run with the land into both the federal deed at the time of transfer of the property and in the Covenant to Restrict Use of Property with DTSC to be executed at the time of transfer.
California Heal	h and Safety Code <sup>a</sup>	1	Γ		
	Allows DTSC to enter into an agreement with the owner of a hazardous waste facility to restrict present and future land uses.	Transfer of property from the Navy to a nonfederal agency	California Health and Safety Code § 25202.5	Relevant and appropriate	The substantive provisions of this section are the general narrative standards that authorize DTSC to enter into an agreement to restrict "present and future uses of all or part of the land on which the facility …is located."

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
		Institutional Co	ontrols (Continued	)	
California Heal	th and Safety Code <sup>a</sup> (Continued)				
Placing institutional controls on soil and groundwater	Provides processes and criteria for obtaining written variances from a land use restriction and for the removal of a land use restriction.	Transfer of property from the Navy to a nonfederal agency	California Health and Safety Code § 25233(c)	Relevant and appropriate	Cal. Health & Safety Code § 25233(c) sets forth substantive criteria for granting variances from the uses prohibited in § 25232(b)(1)(A)-(E) based on specific environmental and health criteria.
	Provides a process and criteria by which DTSC can remove land use restrictions.	Transfer property from the Navy to a nonfederal entity.	California Health & Safety Code § 25234	Relevant and appropriate	Cal. Health & Safety Code § 25234 sets forth the following "relevant and appropriate" substantive criteria for the removal of a land use restriction on the grounds that "the waste no longer creates a significant existing or potential hazard to present or future public health or safety."
	Provides a streamlined process to be used to enter into an agreement to restrict specific use of property in order to implement the substantive use restrictions of California Health & Safety Code § 25232(b)(1)(A)–(E).	Transfer of property from the Navy to a nonfederal agency	California Health and Safety Code § 25222.1	Relevant and appropriate	Cal. Health & Safety Code § 25222.1 provides the authority for the state to enter into voluntary agreements to establish land use covenants with the owner of the property. The substantive provision of Cal. Health & Safety Code § 25222.1 is the general narrative standard: "restricting specified uses of the property."
	Authorizes DTSC to enter into an enforceable agreement that imposes restrictions on present and future uses of the property.	Transfer property from the Navy to a nonfederal entity.	California Health & Safety Code § 25355.5(a)(1) (C)	Relevant and appropriate	The substantive requirements of the following Cal. Health & Safety Code § 25355.5(a)(1)(C) provisions are relevant and appropriate": "execution and recording of a written instrument that imposes an easement, covenant, restriction, or servitude, or combination thereof, as appropriate, upon the present and future uses of the site."

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
	·	Institutional Co	ontrols (Continued	()	
California Healt	h and Safety Code <sup>a</sup> (Continued)				
Placing institutional controls on soil and groundwater.	Prohibits certain uses of land containing hazardous waste without a specific variance.	Transfer of property from the Navy to a nonfederal agency	California Health and Safety Code § 25232(b)(1) (A) through (E)	Relevant and appropriate	This section is an ARAR for ICs that prohibit residences, hospitals for humans, schools for persons under 21 years of age, day care centers, or any permanently occupied human habitation on hazardous waste property.
Department of	Toxic Substances Control <sup>a</sup>				
	A land use covenant imposing appropriate limitations on land use shall be executed and recorded when facility closure, corrective action, remedial or removal action, or other response actions are undertaken and hazardous materials, hazardous wastes or constituents, or hazardous substances will remain at the property at levels which are not suitable for unrestricted use of the land.	Property transfer by federal government to a non-federal entity	Cal. Code Regs. tit. 22, § 67391.1	Relevant and appropriate	The Navy is evaluating ICs for soil and groundwater. These requirements are ARARs for those ICs. EPA agrees that the substantive portions of the regulations referenced are ARARs. EPA specifically considers sections (a), (d), and (e) of Cal. Code Regs. tit. 22 § 67391.1, to be ARARs for this ROD. DTSC's position is that all of the state regulation is an ARAR.
		Excavation and	d Off-Site Disposa	al	
State Water Res	sources Control Board <sup>a</sup>				
Excavating soil and generating investigation- derived waste	Sampling and analysis of discharges shall be used for accurate characterization of wastes.	Waste	Cal. Code Regs. tit. 27, § 20200(c)	Applicable	This requirement is applicable to operations that generate waste. The Navy will accurately characterize waste for off-site disposal.

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
	Exc	avation and Off-S	ite Disposal (Con	tinued)	
State Water Res	sources Control Board <sup>a</sup> (Continued)				
Off-site disposal of soil and investigation derived waste	Requires that designated waste as defined at California Water Code § 13173 be discharged to Class I or Class II waste management units.	Discharge of designated waste after July 18, 1997 (nonhazardous waste that could cause degradation of surface or ground waters) to land for treatment, storage, or disposal	Cal. Code Regs. tit. 27, § 20210	Applicable	This requirement is applicable to operations that generate waste. The Navy will determine if the waste meets the definition of designated waste for off- site disposal.
Off-site disposal of soil and investigation derived waste	Requires that nonhazardous solid waste as defined at Cal. Code Regs. tit. 27 § 20220(a) be discharged to a classified waste management unit.	Discharge of nonhazardous solid waste after July 18, 1997, to land for treatment, storage, or disposal	Cal. Code Regs. tit. 27, § 20220(b), (c), and (d)	Applicable	This requirement is applicable to operations that generate waste. The Navy will determine if the waste meets the definition of nonhazardous solid waste for off-site disposal.
Off-site disposal of soil and investigation derived waste	Inert waste as defined at Cal. Code Regs. tit. 27 § 20230(a) need not be discharged at a classified unit.	Applies to discharges of inert waste to land after July 18, 1997, for treatment, storage, or disposal	Cal. Code Regs. tit. 27 § 20230(b)	Applicable	This requirement is applicable to operations that generate waste. The Navy will determine if the waste meets the definition of inert waste for off-site disposal.

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
		Covering Po	rtions of the Soil		
State Water Re	sources Control Board <sup>a</sup>				
Covering portions of the soil	Alternatives to construction or prescriptive standards.	Cal. Code Regs. tit. 27 requirements are only applicable for waste discharged after July 18, 1997 unless otherwise noted	Cal. Code Regs. tit. 27, § 20080(b)	Relevant and appropriate	The Navy has determined that this regulation is an ARAR for covering portions of the soil. This regulation is relevant and appropriate because the soil cover will not be constructed as a landfill waste management unit. Instead, the cover will be constructed solely to prevent human exposure to contaminants in the soil.
Remediation activities	Actions taken by or at the direction of public agencies to clean up or abate conditions of pollution or nuisance resulting from unintentional or unauthorized releases of waste or pollutants to the environment; provided that wastes, pollutants, or contaminated materials removed from the immediate place of release shall be discharged according to the SWRCB-promulgated sections of Article 2, Subchapter 2, Chapter 3, Subdivision 1 of this division (§ 20200 et seq.); and further provided that remedial actions intended to contain the wastes at the place of release shall implement applicable SWRCB-promulgated provisions of this division to the extent feasible.	Action taken by or at the direction of a public agency to cleanup release of pollutant	Cal. Code Regs. tit. 27 § 20090(d)	Relevant and appropriate	This regulation is relevant and appropriate because "public agency" is not defined in the regulations; therefore, it does not specifically apply to the federal government.

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
	C	overing Portions	of the Soil (Contin	nued)	
State Water Re	sources Control Board <sup>a</sup> (Continued)				
Covering portions of the soil	Closed units shall be provided with at least two permanent monuments installed by a licensed land surveyor or a registered civil engineer, from which the location and elevation of containment structures can be determined throughout the post-closure maintenance period.	Waste discharged after July 18, 1997	Cal. Code Regs. tit. 27 §20950(d)	Relevant and appropriate	The Navy has determined that this regulation is an ARAR for covering portions of the soil. This regulation is relevant and appropriate because the soil cover will not be constructed as a landfill waste management unit. Instead, the cover will be constructed solely to prevent human exposure to contaminants in the soil.
Covering portions of the soil	In spite of differential settlement, the final cover of closed landfills (including waste piles and surface impoundments closed as landfills) shall be designed, graded, and maintained to prevent ponding and to prevent soil erosion caused by high run-off velocities. All portions of the final cover shall have a slope of at least 3 percent unless the Water Board allows portions of the final cover to be built with slopes of less than 3 percent when the discharger proposes an effective system for diverting surface drainage from laterally adjacent areas and preventing ponding in the allowed flatter portion. The final grading design shall be designed and approved by a registered civil engineer or certified engineering geologist taking into consideration pertinent natural and constructed topographic features (including any related to the proposed post-closure land use), and climate.	Waste management unit	Cal. Code Regs. tit. 27 § 21090(b)(1)	Relevant and appropriate	The Navy has determined that this regulation is an ARAR for covering portions of the soil. This regulation is relevant and appropriate because the soil cover will not be constructed as a landfill waste management unit. Instead, the cover will be constructed solely to prevent human exposure to contaminants in the soil.

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
	C	overing Portions	of the Soil (Contir	nued)	·
State Water Re	sources Control Board <sup>a</sup> (Continued)				
Covering portions of the soil	Throughout the post-closure maintenance period, the discharger shall prevent erosion and related damage of the final cover caused by drainage.	Waste management unit	Cal. Code Regs. tit. 27 § 21090(c)(4)	Relevant and appropriate	The Navy has determined that this regulation is an ARAR for covering portions of the soil. This regulation is relevant and appropriate because the soil cover will not be constructed as a landfill waste management unit. Instead, the cover will be constructed solely to prevent human exposure to contaminants in the soil.
Covering portions of the soil	When all closure activities are complete for the unit, the discharger shall conduct an aerial photographic survey, or alternative survey under Cal. Code Regs. tit. 27 §21090 (e)(3), of the closed portions of the unit and of its immediate surrounding area, including at least the surveying monuments (of §20950[d]). The data obtained shall be used to produce a topographic map of the site at a scale and contour interval sufficient to depict the as-closed topography of each portion of the unit, and to allow the early identification of any differential settlement. The map produced pursuant to this paragraph shall act as a base-line against which to measure the total settlement, through time, of all portions of the final cover since the date when that landfill, or portion thereof, was closed.	Waste management unit	Cal. Code Regs. tit. 27 § 21090(e)(1) and (3)	Relevant and appropriate	The Navy has determined that this regulation is an ARAR for covering portions of the soil. This regulation is relevant and appropriate because the soil cover will not be constructed as a landfill waste management unit. Instead, the cover will be constructed solely to prevent human exposure to contaminants in the soil.

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
	C	overing Portions	of the Soil (Contin	ued)	
State Water Res	sources Control Board <sup>a</sup> (Continued)				
Excavating soil	Construction that disturbs at least 1 acre must use best management practices to control storm water discharges.	Construction activities at least 1 acre in size	SWRCB General Permit for Storm Water Discharges 99-08-DWQ	Not an ARAR	Pursuant to CERCLA Section 121 (e) (42 USC Section 9621 (e)), on-site response actions are exempt from permit requirements, including an NPDES Permit. The State of California's General Construction Storm Water Permit (SWRCB Order No. 99-08) is such a permit. Although not an ARAR in itself, the Navy will implement the substantive provisions of this permit to comply with federal Clean Water Act ARARs and water quality State ARARs for discharge to surface water. The federal and State ARARs require BMPs and a storm water plan. The Navy will implement the BMPs and prepare a storm water plan which will include sampling and analysis requirements as required under the State general storm water permit.
Covering portions of the soil	The final cover shall function with minimum maintenance and shall be compatible with post-closure land use. Alternative final cover designs shall	Waste management unit	Cal. Code Regs. tit. 27 § 21140	Relevant and appropriate	The Navy has determined that this regulation is an ARAR for covering portions of the soil. This regulation is relevant and appropriate because the soil cover will not be constructed as a landfill waste management unit. Instead, the cover will be constructed solely to prevent human exposure to contaminants in the soil.
	meet the performance requirements of Cal. Code Regs. tit. 27 §21140(a).				
	The Enforcement Authority may require additional thickness, quality, and type of final cover depending on, but not limited to the future reuse of the site.				

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
	C	overing Portions	of the Soil (Conti	nued)	
California Integ	grated Waste Management Board <sup>a</sup>				
Covering portions of the soil	The operator shall ensure the integrity of final slopes under both static and dynamic conditions to protect public health and safety and prevent damage to post-closure land uses, roads, structures, utilities, and to prevent exposure of waste.	Waste management unit	Cal. Code Regs. tit. 27 § 21145(a)	Relevant and appropriate	The Navy has determined that this regulation is an ARAR for covering portions of the soil. This regulation is relevant and appropriate because the soil cover will not be constructed as a landfill waste management unit. Instead, the cover will be constructed solely to prevent human exposure to contaminants in the soil.
Covering portions of the soil	The drainage and erosion control system shall be designed and maintained to ensure integrity of post-closure land uses, roads, and structures; to prevent public contact with waste; to prevent safety hazards; and to prevent exposure of waste. Slopes that are not underlain by waste shall be stabilized to prevent soil erosion. Methods used to protect slopes and control erosion shall include, but are not limited to, terracing, contour furrows, and trenches.	Waste management unit	Cal. Code Regs. tit. 27 § 21150	Relevant and appropriate	The Navy has determined that this regulation is an ARAR for covering portions of the soil. This regulation is relevant and appropriate because the soil cover will not be constructed as a landfill waste management unit. Instead, the cover will be constructed solely to prevent human exposure to contaminants in the soil.

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
		Groundwa	ter Monitoring		
State Water	Resources Control Board <sup>a</sup>				
Remediation activities	Actions taken by or at the direction of public agencies to clean up or abate conditions of pollution or nuisance resulting from unintentional or unauthorized releases of waste or pollutants to the environment; provided that wastes, pollutants, or contaminated materials removed from the immediate place of release shall be discharged according to the SWRCB-promulgated sections of Article 2, Subchapter 2, Chapter 3, Subdivision 1 of this division (§20200 et seq.); and further provided that remedial actions intended to contain the wastes at the place of release shall implement applicable SWRCB- promulgated provisions of this division to the extent feasible.	Action taken by or at the direction of a public agency to cleanup release of pollutant	Cal. Code Regs. tit. 27 § 20090(d)	Relevant and appropriate	This regulation is relevant and appropriate to the Navy's groundwater remedial action because "public agency" is not defined in the regulations; therefore, it does not specifically apply to the federal government.
lotes:	Statutes and policies, and their citations, are provided as h that the Navy accepts the entire statutes or policies as AR/	eadings to identify gener ARs. Specific ARARs fol	al categories of ARARs ow each general headir	for the convenience of the ng, and only substantive re	e reader; listing the statutes and policies does not indicat equirements of the specific citations are considered ARA
	Section	HPS			
§ RAR	Sections	IC ROD	Institutional co Record of Dec		
	Applicable or relevant and appropriate requirement California Code of Regulations	SWRCE		cision Resources Control Board	
FR	Code of Federal Regulations	TBC	To be conside		
TSC	Department of Toxic Substances Control	tit.	Title		
WQ	Department of Water Quality	U.S.C.	United States	Code	
PA	U.S. Environmental Protection Agency	Water B	oard San Francisco	b Bay Regional Water Qua	ality Control Board