

TABLE OF CONTENTS
RSR Wave 2 Conceptual Language
April 5, 2016

22a-133k Section 1

(a) Definitions	
Anthropogenic influence	1
APH	2
Application of Pesticides	2
Background Concentration	3
Building	3
Demarcation Layer	3
Diminishing State Groundwater Plume	4
Direct Exposure Criteria	4
Engineered Control	5
Environmentally Isolated Soil	5
EPH	6
ETPH	6
Environmental Use Restriction	7
Groundwater Protection Criteria	7
Hardscape	8
Historically Impacted Materials	8
Immobilization	8
Inaccessible Soil	9
Intermittent Watercourse	10
Licensed Environmental Professional	10
Migrating Non-Aqueous Phase Liquid	11
Monitored Natural Attenuation	11
Naturally Occurring Condition	11
Pesticide	12
Petroleum Substance	12
Pollutant Mobility Criteria	12
Potentially Occupied Structure	13
Prudent	13
Q99	14
Reporting Limits	
Reasonable Confidence Protocols	14
Residential Activity	15
Surface Water Protection Criteria	15
TI Zone	16
Volatilization Criteria for Groundwater	16
VPH	17
Water Quality Standards	17

(b) Applicability – Release Area	17
(2) Appropriate Characterization	18
(3) Exempt Release	18
(4) Partially-Exempt Release	19
(c) Reasonable Confidence Protocols	19
(d) Public Notice	23
(f) Financial Assurance	27
(g) Periodic Review	29
(h) Lead Transition	30
(i) Transition	31
(j) Q99/7Q10 Transition	32

22a-133k Section 2. Standards for Soil Remediation

(a) Background	34
(b) Direct Exposure Criteria	
(2) PCBs	34
(3) PCBs	35
(4) Pesticides	37
(c) Pollutant Mobility Criteria	
(1) Mass Analysis	38
(2) 10x PMC	39
Background	41
PMC calc. 15 ft.Saturated thickness	42
(3) Determining NAPL	43
(4) PMC Exceptions and Variances	45
80% Rule	47
(5) Pesticides	49
(d) Alternative Soil Criteria	
(2) Alternative DEC – EUR	50
(3) & (5) Alternative PMC	51
(7) Inaccessible PCBs	52
(8) Alt. PMC Site-specific Calculation	53
(e)(2) PMC Compliance	54
(f) Variances	
(1) Widespread Polluted Fill (WSFP)	55
(2) Engineered Control	57
(g) Removal of Non-Aqueous Phase Liquids	65
(h) (4) Background	66

22a-133k Section 3. Groundwater Remediation Standards

(a) Background	67
(b) Surface-water protection criteria	
(2) Watercourses	68
WQS Reference Language	68
(3) Alternative SWPC	69
(C) Aquifer Dilution	73
(D) Commissioner approval option	74

(c) Volatilization criteria	
(1) Applicability and Requirements	75
(2)(B) Vapor Mitigation Requirements	76
(4) Alternative Volatilization Criteria	78
(5) Volatilization Downgradient Exemption	79
(d) Applicability of Ground-water Protection Criteria.	
(1) GA Groundwater Requirements	81
(2) Applicable Criteria	82
(4) Alternative GWPC	83
(e)(2) Technical Impracticability	86
(f) Pesticides	91
(g) Applying the Criteria for Ground Water	
(1) MNA	92
(2) 95% Quarterly Sampling	94
Emerging Technologies	94
Background and 95% UCL	95
95% UCL SW	96
Volatilization Compliance	97
Seasonal Volatilization – Soil Vapor	97
(4) Upgradient Policy	98
(h) Additional Polluting Substances	
APS for DEC	99
APS for PMC	100
APS for GWPC	101
APS for SWPC	102
APS for Volatilization Criteria	103

22a-133k - Appendix A Direct Exposure Criteria

PCBs	103
------	-----

22a-133k - Appendix G

APS Calculations and Tables	104
1: Additional Direct Exposure Criteria	104
2: Additional Pollutant Mobility Criteria	106
3: Additional Groundwater Protection Criteria	107
4: Additional Surface water Protection Criteria	108
5: Additional and Alternative Volatilization Criteria	110

22a-133k - Appendix H

Alternative PMC	114
-----------------	-----