

Technical Guidance for the Attainment of Remediation Standards and Site-Specific Criteria - Change Log

List of changes from Version 1.0 (September 2012) to Version 2.0 (July 2021)

Change Number	Document Section	Change Made
1	Cover page	New Document Date
2	Cover page	Changed from Version 1.0 to Version 2.0
3	Table of Contents	Page numbers updated
4	Table of Contents -Section 6.2	Changed "Impact" to "Migration"
5	Table of Contents -Section 6.7.3.2	Changed "impact" to "migration"
6	Table of Contents -Section 6.7.4.2	Changed "impact" to "migration"
7	Table of Contents -Section 6.7.5.2	Changed "impact" to "migration"
8	Table of Contents - Appendix A	Changed "Impact" to "Migration"
9	Table of Contents	New Appendix B
10	Table of Contents	Changed existing Appendix B to Appendix C
11	Table of Contents	Changed existing Appendix C to Appendix D
12	1.0 - second paragraph	Changed "a person" to "an investigator"
13	1.0 - third paragraph	Added a six month phase in period to provide for the reasonable implementation of the new technical guidance.
14	1.0 - List of members	Updated committee members
15	1.0 - List of members	Updated committee members employers
16	2.0 - first paragraph	Changed "achieving" to "demonstrating"
17	2.0 - second paragraph	Changed "to demonstrate that remediation standards have been achieved." to "to demonstrate compliance with remediation standards."
18	2.0 - second paragraph	Changed "technical guidances are" to technical guidance documents are"
19	3.0 - first paragraph	Changed "achieved" to "demonstrate"
20	3.0 - first paragraph	Added new sentence "In addition, this technical guidance includes, where noted, the option to use rounding in conjunction with the options noted above."
21	3.0 - fifth paragraph	Changed description of remediation standards to reflect current description of remediation standards as contained in the recently amended Remediation Standards (N.J.A.C. 7:26D)
22	4.0 - first paragraph	Added a reference to the newly amended Remediation Standards (N.J.A.C. 7:26D)
23	4.0 - third paragraph	Changed Appendix B to Appendix C
24	4.0 - fifth paragraph	Changed description of remediation standards to reflect current description of remediation standards as contained in the recently amended Remediation Standards (N.J.A.C. 7:26D)
25	4.0 - sixth paragraph	Changed "impact" to "migration" and "aquatic" to "ecological"
26	4.0 seventh paragraph	Changed "not address" to "not fully address"
27	4.0 - seventh paragraph	first bullet: Replace old Extractable Petroleum Hydrocarbons guidance name and web address with the new Extractable Petroleum Hydrocarbons guidance name and web address
28	4.0 - seventh paragraph	second bullet: Changed "are to be found" to "can be found"
29	4.0 - seventh paragraph	second bullet: added web address for the Ecological Evaluation Technical Guidance
30	4.0 - seventh paragraph	third bullet: Updated Vapor Intrusion Technical Guidance web address
31	4.0 - Table 4.1	Updated web addresses for the Extractable Petroleum Hydrocarbons Technical Guidance, Ecological Evaluation Technical Guidance, and Vapor Intrusion Technical Guidance
32	4.0 - Table 4.1	Changed description of remediation standards to reflect current description of remediation standards as contained in the recently amended Remediation Standards (N.J.A.C. 7:26D)
33	4.0 - ninth paragraph	Changed "impact" to "migration"
34	4.0 - tenth paragraph	Deleted reference to N.J.A.C. 7:26E -3.9
35	5.1 - second paragraph	Added sentence concerning the rounding of single point compliance data
36	5.2 - third paragraph	Added sentence concerning the rounding of single point compliance data
37	5.2 - fourth paragraph	Added new paragraph stating In lieu of discreet sampling, the LSRP may use other means for determining the extent of the contamination.

38	5.2 -fifth paragraph	Added a new paragraph stating while the remedial investigation does not need to include actual clean zone sampling data to demonstrate contaminant delineation to the applicable remediation standards, such sampling data are required to demonstrate attainment of the applicable remediation standards and screening criteria at the conclusion of the remedial action.
39	5.2 - sixth paragraph	Expanded paragraph to indicate that compliance options and rounding options can be found in Section 6 (soil) and Section 7 (ground water) of the Technical Guidance document.
40	5.3 - second paragraph	Added sentence to state that rounding may be applied in conjunction with compliance averaging
41	6.0 - first paragraph	Changed "impact" to "migration"
42	6.1	New section stating that Direct Contact Pathways include both the soil ingestion-dermal exposure pathway as well as the soil inhalation exposure pathway
43	6.1.1 - first paragraph	Changed description of remediation standards to reflect current description of remediation standards as contained in the recently amended Remediation Standards (N.J.A.C. 7:26D)
44	6.1.1 - second paragraph	All direct contact soil remediation standards (residential and non-residential) are rounded to two significant figures using the rounding rules contained in Section B3.0 of this guidance document.
45	6.1.1 - third paragraph	Any alternative remediation standards developed for soil pursuant to the Remediation Standards (N.J.A.C. 7:26D) should be rounded to two significant figures using the rounding rules contained in Section B3.0 of this guidance document .
46	6.1.1 - fourth paragraph	Added language stating that direct contact remediation criteria for chromium are rounded to two significant figures.
47	6.1.2 -first paragraph	Updated N.J.A.C. 7:26D citation to reflect the recent amendments to the Remediation Standards (N.J.A.C. 7:26D).
48	6.1.2 - second paragraph	Updated N.J.A.C. 7:26D citation to reflect the recent amendments to the Remediation Standards (N.J.A.C. 7:26D). Added language stating that submittals for alternative remediation standards must include the "Remediation Standard Notification Spreadsheet"
49	6.1.2.1 - first and second paragraphs	Updated N.J.A.C. 7:26D citations to reflect the recent amendments to the Remediation Standards (N.J.A.C. 7:26D).
50	6.1.2.2 - first and second paragraphs	Updated N.J.A.C. 7:26D citations to reflect the recent amendments to the Remediation Standards (N.J.A.C. 7:26D).
51	6.2 - title	Changed "impact" to "migration"
52	6.2 - first paragraph	Updated section to reflect the recent amendments to the Remediation Standards (N.J.A.C. 7:26D).
53	6.2 - second paragraph	Added a new paragraph that states an alternative soil remediation standard may be developed using the guidance in "Alternative Remediation Standards Technical Guidance for Soil and Soil Leachate for the Migration to Ground Water Exposure Pathway". Also added language that states any alternative SRSMGW developed pursuant to the aforementioned guidance should be rounded to two significant figures.
54	6.2 - third paragraph	Updated section to reflect the recent amendments to the Remediation Standards (N.J.A.C. 7:26D).
55	6.2 - fourth paragraph	Added a new paragraph that states an alternative soil leachate remediation standard may be developed using the guidance in "Alternative Remediation Standards Technical Guidance for Soil and Soil Leachate for the Migration to Ground Water Exposure Pathway". Also added language that states any alternative soil leachate standard developed pursuant to the aforementioned guidance should be rounded to two significant figures.
56	6.2 - fifth paragraph	Added language that states If more than one of the methods listed in the "Alternative Remediation Standards Technical Guidance for Soil and Soil Leachate for the Migration to Ground Water Exposure Pathway" is used to develop an alternative soil or soil leachate remediation standard for a given contaminant, then the greatest value calculated should be used.
57	6.2.1	Updated section to reflect the recent amendments to the Remediation Standards (N.J.A.C. 7:26D).

58	6.2.2	Updated section to reflect the recent amendments to the Migration to Ground Water Exposure Pathway Technical Guidance document.
59	6.3	Updated section to reflect the recent amendments to the Remediation Standards (N.J.A.C. 7:26D).
60	6.4 - first paragraph	Updated the name and web address for the Extractable Petroleum Hydrocarbons technical guidance document
61	6.5 - first paragraph	Updated the name and web address for the Extractable Petroleum Hydrocarbons technical guidance document
62	6.6 - first paragraph	Updated the web address of the Vapor Intrusion Technical Guidance; updated citation in the Vapor Intrusion Tecgnical Guidance
63	6.7.1 - first paragraph	Updated paragraph to reflect the recent amendments to the Remediation Standards (N.J.A.C. 7:26D).
64	6.7.1 - second paragraph	Added a list of references the investigator should review.
65	6.7.2 - second paragraph	Updated paragraph to reflect the recent amendments to the Remediation Standards (N.J.A.C. 7:26D).
66	6.7.2. - third paragraph	Added language which describes when rounding of data is acceptable
67	6.7.3 - first paragraph	Added language which describes when rounding of data is acceptable
68	6.7.3 - second paragraph	Added new paragraph stating In lieu of discreet sampling, the LSRP may use other means for determining the extent of the contamination.
69	6.7.3 - third paragraph	Added a new paragraph stating while the remedial investigation does not need to include actual clean zone sampling data to demonstrate contaminant delineation to the applicable remediation standards, such sampling data are required to demonstrate attainment of the applicable remediation standards and screening criteria at the conclusion of the remedial action.
70	6.7.3.1 - second paragraph- first bullet	Changed 'impact' to "migration"
71	6.7.3.1 - second paragraph- second bullet	Bullet amended to include more recommendations concerning the presence of LNAPL at the site or area of concern
72	6.7.3.2 - title and first paragaraph	Changed 'impact' to "migration"
73	6.7.4 - first paragraph	Added language that states rounding of data may be applied in conjunction with both single-point compliance and compliance averaging; changed "impact: to "migration"
74	6.7.4.1 - second paragraph	Added a bullet point stating rounding of single-point compliance data and rounding of compliance averaged data are acceptable
75	6.7.4.1. - third paragraph	Changed "cannot" to "should not"
76	6.7.4.1. - third paragraph	Changed "incremental sampling approach" to "incremental sampling methodology (ISM)"
77	6.7.4.1. - third paragraph	Updated the date of the Department's SI/RI/RA technical guidance
78	6.7.4.1. - third paragraph	Added language which describes when rounding of data is acceptable
79	6.7.4.1. - fourth paragraph	Added language that states Appendix B contains detailed guidance on the use of rounding to demonstrate compliance with remediation standards
80	6.7.4.1. - sixth paragraph	Added language which describes when rounding of data is acceptable; changed "may" to "should"
81	6.7.4.1. - eighth paragraph	Added language which describes when rounding of data is acceptable
82	6.7.4.1 - eleventh paragraph	Changed "impact" to "migration"
83	6.7.4.2 - title	Changed "Impact" to "Migration"
84	6.7.4.2 - first paragraph	Changed "impact" to "migration; added a bullet point stating rounding of single-point compliance data and rounding of compliance averaged data are acceptable
85	6.7.4.2. - second paragraph	Changed "cannot" to "should not"
86	6.7.4.2 - second paragraph	Changed "incremental sampling approach" to "ISM"
87	6.7.4.2 - second paragraph	Updated the date of the Department's SI/RI/RA technical guidance
88	6.7.4.2 - second paragraph	Added language which describes when rounding of data is acceptable
89	6.7.4.2 - third paragraph	Added language that states averaging and compliance options should not be utilized where SRSMGW have been obtained using SESOIL and SESOIL/AT123D. The distribution profile values should not be averaged.
90	6.7.4.2. - fourth paragraph	Added language that states Appendix B contains detailed guidance on the use of rounding to demonstrate compliance with remediation standards
91	6.7.4.2 - fifth paragraph	Changed "impact" to "migration"
92	6.7.4.2 - seventh paragraph	Updated section to reflect the recent amendments to the Migration to Ground Water Exposure Pathway Technical Guidance document.

93	6.7.4.2. - seventh paragraph	Added language on how rounded data are used to demonstrate compliance with "Guidance for the Issuance of Response Action Outcomes, Attachment 2" for soil remediation standards for the migration to ground water exposure pathway; remediation standards; changed "impact" to "migration"
94	6.7.5 - first paragraph	Added language that states rounding of data may be applied in conjunction with both single-point compliance and compliance averaging
95	6.7.5.1 - third paragraph	Added a bullet point stating rounding of single-point compliance data and rounding of compliance averaged data are acceptable
96	6.7.5.1 - fourth paragraph	Changed "cannot" to "should not"
97	6.7.5.1. - fourth paragraph	Changed "incremental sampling approach" to "ISM"
98	6.7.5.1. - fourth paragraph	Updated the date of the Department's SI/RI/RA technical guidance
99	6.7.5.1. - fourth paragraph	Added language which describes when rounding of data is acceptable
100	6.7.5.1. - fifth paragraph	Added language that states Appendix B contains detailed guidance on the use of rounding to demonstrate compliance with remediation standards
101	6.7.5.1. - seventh paragraph	Added a third bullet which added language on how rounded data are used to demonstrate compliance with direct contact exposure pathway soil remediation standards
102	6.7.5.1. - eighth paragraph	Added "rounding" to the paragraph to indicate rounding is a compliance technique along with single-point compliance and compliance averaging
103	6.7.5.1. - eighth paragraph	Amended second bullet from "is approved for the site" to "is implemented at a site" to better describe the intent of the bullet
104	6.7.5.1 - ninth paragraph	Changed "impact" to "migration"
105	6.7.5.1.1 - second paragraph	Added language that states rounding of data may be applied in conjunction with both single-point compliance and compliance averaging
106	6.7.5.1.2 - second paragraph	Added language that states rounding of data may be applied in conjunction with both single-point compliance and compliance averaging
107	6.7.5.2 - Title	Changed "impact" to "migration"
108	6.7.5.2 - first paragraph	Changed "impact" to "migration"; inserted "exposure" between "water pathway"; added a bullet point stating rounding of single-point compliance data and rounding of compliance averaged data are acceptable
109	6.7.5.2 - second paragraph	Changed "cannot" with "should not"; changed "incremental sampling approach" to "ISM"; updated the date of the Department's SI/RI/RA technical guidance; added language which describes when rounding of data is acceptable
110	6.7.5.2 - third paragraph	Added language that states averaging and compliance options should not be utilized where SRSMGW have been obtained using SESOIL and SESOIL/AT123D. The distribution profile values should not be averaged.
111	6.7.5.2 - fourth paragraph	Added language that states Appendix B contains detailed guidance on the use of rounding to demonstrate compliance with remediation standards
112	6.7.5.2 - sixth paragraph	Changed "impact to ground water pathway" to "migration to ground water exposure pathway"; edited language to conform with the newly amended Remediation Standards (N.J.A.C. 7:26D) regarding the migration to ground water exposure pathway
113	6.7.5.2 - sixth paragraph	Added a third bullet which added language on how rounded data are used to demonstrate compliance with soil remediation standards for the migration to ground water exposure pathway
114	6.7.5.2 - seventh paragraph	This paragraph states that compliance of both direct contact soil remediation standards and SRSMGW must be demonstrated.
115	6.7.5.2 - eighth paragraph	Edited to conform with the recently amended Remediation Standards (N.J.A.C. 7:26D).
116	6.7.5.2 - ninth paragraph	Changed "impact" to "migration"; paragraph amended to state capping of soil contamination as a remedial action for the impact to ground water exposure pathway is acceptable and cites applicable Technical guidance.
117	6.7.5.2 - Note	Changed "impact" to "migration"; added references to historic fill (Technical Requirements for the Remediation of Contaminated Sites (N.J.A.C. 7:26E) and Historic Fill Material Technical Guidance)

118	7.1 - first paragraph	Added language which states that ground water remediation standards are by reference the ground water quality standards (N.J.A.C.7:9C); Added language about Class IIIA and Class IIIB ground water; Added language which identifies the number of significant figures in ground water remediation standards and ground water quality standards for Class IIA ground water
119	7.1 -second paragraph	Added language which states that interim ground water quality standards should be rounded to one significant figure
120	7.1 -third paragraph	Added language which states that ground water remediation standard developed for Class I and Class III ground water should be rounded to the number of significant figures used in establishing the Class II ground water quality/remediation standard for the contaminant in question.
121	7.2 - first paragraph	Added language which identifies the number significant figures in ground water screening levels for the vapor intrusion exposure pathway
122	7.3.1	Added language to clarify that while compliance averaging over spatial areas is acceptable for soils, it is not an acceptable strategy for ground water.
123	7.3.2 - first paragraph	New paragraph added to state that several options can be used to determine ground water compliance during the Site Investigation phase.
124	7.3.2 - second paragraph	Added language which describes when rounding of data is acceptable
125	7.3.2. - third paragraph	Added language which describes when rounding of data is acceptable
126	7.3.2 - third paragraph	Added new paragraph which states that the process described in section 7.3.2 can be used in the evaluation of ground water screening levels for the vapor intrusion exposure pathway
127	7.3.3 - first paragraph	New paragraph added to state that several options can be used to determine ground water compliance during the Remedial Investigation phase.
128	7.3.3 - second paragraph	Added language which describes when rounding of data is acceptable
129	7.3.3 - third paragraph	Added language which describes when rounding of data is acceptable
130	7.3.4 -first paragraph	Reworded to clarify that ground water contamination associated with an on-site discharge remaining contaminated above the applicable ground water remediation standards needs to be remediated.
131	7.3.4 - second paragraph	New paragraph added to state that several options can be used to determine ground water compliance during the Remedial Action phase.
132	7.3.4 - third paragraph	Edited to clarify if ground water contamination remains, the person responsible for conducting the remediation is to continue with the ground water remedial action until compliance with applicable ground water remediation standards is achieved.
133	7.3.4 - fourth paragraph	Edited to clarify compliance with the ground water remediation standards applies to for all locations within the applicable ground water monitoring well network associated with the site or AOC.
134	7.3.4 - fifth paragraph	Added language which describes when rounding of data is acceptable
135	7.3.4 - sixth paragraph	Added language which describes when rounding of data is acceptable for ground water confirmatory sampling results.
136	7.3.5 - New Section: Receptor evaluation - ground water	Potable water data used to determine if an immediate environmental concern (IEC) exists is conducted using single point compliance. Rounding of such data is not allowed. Potable water data used to determine the effectiveness of an engineered water treatment system is conducted using single point compliance. Rounding of such data is not allowed.
137	8.1 - first paragraph	Added language that states surface water remediation standards are by reference the surface water quality standards (N.J.A.C. 7:9B)
138	8.1 - second paragraph	Added language stating that all surface water quality criteria for toxic substances are rounded to two significant figures
139	8.3.1 - first paragraph	Added language which describes when rounding of data is acceptable
140	8.3.2 - first paragraph	Added language which describes when rounding of data is acceptable
141	8.3.3 - first paragraph	Added language which describes when rounding of data is acceptable
143	9.0	Replaced old Extractable Petroleum Hydrocarbons guidance name and web address with the new Extractable Petroleum Hydrocarbons guidance name and web address
144	10.0 - second paragraph	Added new paragraph which describes how ecological risk-based remediation goals should be rounded
145	10.0 - third paragraph	Added new paragraph which describes how data may be rounded to demonstrate compliance with ecological remediation goals

146	11.0 - first paragraph	Added language: Indoor air data used to determine if a vapor intrusion immediate environmental concern (IEC) or vapor concern (VC) exists is conducted using single point compliance. Rounding of such data is not allowed. Indoor air data used to determine the effectiveness of an engineered vapor control system is conducted using single point compliance. Rounding of such data is not allowed.
147	11.0 - second paragraph	Added language that states rounding of ground water and soil gas screening level data is acceptable when such data are evaluated using single point compliance. Rounding should be conducted to the number of significant figures in the applicable screening level.
148	11.0 -third paragraph	Added language that states ground water screening level data associated with vapor intrusion investigations may be averaged pursuant to Section B4.1.1 of the guidance.
149	References	Added six additional references: ASTM 2013, Florida DEP 2011, Massachusetts DEP 2009, Oregon DEQ 2013, USEPA 1981, and USEPA 2017
150	Appendix A - Title	Changed "impact" to "migration"
151	Appendix A - Table of Contents	Added a new section A.1.1 "Evaluation of functional area"
152	Appendix A - List of Figures	Figure 4 title - Changed "impact" to "migration"
153		
154	A1.0 - first paragraph	Changed "mean is only to be applied" to "mean is to be applied" for clarity; Added wording to clarify what is a distinct sample point; Presented situations where the calculation of an arithmetic is appropriate
155	A1.0 - second paragraph	Clarified what are distinct sample concentrations, provided an example, and get a scenario where there could only be two distinct sample concentrations in the data set
156	A1.0 - third paragraph	Added a paragraph stating that the use of the arithmetic mean requires complete horizontal and vertical delineation of contamination and not include excessive sampling of uncontaminated areas
157	A1.0 -fifth paragraph	Added a paragraph stating that the application of the arithmetic mean is done in conjunction with the use of functional areas
158	A1.1	Added a new section discussing the use of functional areas when documenting compliance with remediation standards using the arithmetic mean
159	A2.0 - first paragraph	Added language which describes when rounding of data is acceptable
160	A2.0 - second paragraph	Changed "10 Samples" to "10 distinct samples" to clarify that 10 different samples must be used in the calculation of the 95% UCL and not a single sample used multiple times in the calculation of the 95% UCL
161	A2.0 - second paragraph	Added language to clearly state that ProUCL software cannot be used with data sets that have two or fewer distinct sample values
162	A2.1 - "Impact to Ground Water" subheading	Subheading changed to "Migration to Ground Water Exposure Pathway"
163	A2.1 - "Migration to Ground Water Exposure Pathway" subheading - first paragraph	Changed "impact" to "migration"
164	A2.1.1 - "Inhalation Pathway" subheading	Subheading changed to "Inhalation Exposure Pathway"
165	A2.1.1 - "Ingestion-Dermal Pathway" subheading	Subheading changed to "Ingestion-Dermal Exposure Pathway"
166	A2.1.1 - "Impact to Ground Water Pathway" subheading	Subheading changed to "Migration to Ground Water Exposure Pathway"
167	A2.1.1 - "Migration to Ground Water Exposure Pathway" subheading	This section was rewritten to conform with the newly amended Remediation Standards (N.J.A.C. 7:26D)
168	A2.1.1 - "Migration to Ground Water Exposure Pathway" subheading	"100 foot" was changed to a metric equivalent of "30.5 m"
169	A2.1.2 - "Ingestion-Dermal and Inhalation Pathway" subheading	Subheading changed to "Ingestion-Dermal and Inhalation Exposure Pathway"
170	A2.1.2 - "Impact to Ground Water Pathway" subheading	Subheading changed to "Migration to Ground Water Exposure Pathway"

171	A2.1.2 - "Migration to Ground Water Exposure Pathway" subheading - first paragraph	"100 foot" was changed to a metric equivalent of "30.5 m"
172	A2.1.3 - Impact to Ground Water Pathway	Subheading changed to "Migration to Ground Water Exposure Pathway"
173	A2.1.3 - Migration to Ground Water Exposure Pathway - first paragraph	Changed "impact" to "migration"
174	A2.1.3 - Migration to Ground Water Exposure Pathway - second paragraph	Changed "impact" to "migration"; inserted "exposure" between "water pathway"
175	A2.1.3 - Migration to Ground Water Exposure Pathway - Figure 4 title	Changed "impact" to "migration"; inserted "exposure" between "water" and "pathway"
176	A2.1.4 - third paragraph	Added wording that for non-detect sample vales, the MDL should be used
177	A2.1.5	Added "Exposure" to the subheadings
178	A2.1.5 - Ingestion-Dermal and Inhalation Exposure Pathways - second paragraph	Changed "impact" to "migration"; added "exposure pathway" after " ground water"
179	A2.1.5 - Migration to Ground Water Exposure Pathway	Changed "impact" to "migration" in subheading and first paragraph
180	A3.0 -first paragraph	Changed "for the all exposure" to "for all exposure"
181	A3.0 -first paragraph	Added language which describes when rounding of data is acceptable
182	A3.0 - third paragraph	Changed "impact" to "migration"
183	A3.0 - sixth paragraph	Added new paragraph which describes when rounding of data is acceptable
184	A4.0 - first paragraph	Changed "impact" to "migration"
185	A4.0 - third paragraph	Added language which identifies when rounding is acceptable as part of the 75 percent/10X procedure
186	Appendix B	Added a new Appendix B - Use of Rounding to Demonstrate Compliance with Remediation Standards and Screening Levels
187	Appendix B Table of Contents	Renamed title of section B2.4
188	B2.1.1	This section was rewritten to conform with the newly amended Remediation Standards (N.J.A.C. 7:26D)
189	B2.1.2	This section was rewritten to conform with the newly amended Remediation Standards (N.J.A.C. 7:26D)
190	B2.1.3	This section was rewritten to conform with the newly amended Remediation Standards (N.J.A.C. 7:26D)
191	B2.2	This section was rewritten to conform with the newly amended Remediation Standards (N.J.A.C. 7:26D)
192	B2.4	This section was rewritten to conform with the newly amended Remediation Standards (N.J.A.C. 7:26D)
193	B3.1	Additional rounding examples were provided
194	B3.2	Additional rounding examples were provided
195	B4.1.1	Section was rewritten to improve clarity
196	B4.2 - first paragraph	Included specific language that rounding of single point compliance data used in receptor evaluation of potable water and indoor air (vapor intrusion) should not be conducted. Also included that indoor air data used to determine the effectiveness of an engineered vapor control system is conducted using single point compliance, and rounding of such data should not be conducted. Also included that potable water data used to determine the effectiveness of an engineered water treatment system is conducted using single point compliance and that rounding of such data should not be conducted.
197	B4.2 -second paragraph	Added wording that rounding of ground water screening leveland soil gas screening level data associated with vapor intrusion investigations is acceptable when such data is evaluated using single point compliance. Rounding should be conducted to the number of significant figures in the applicable screening level.
198	B4.2 - third paragraph	Added wording that ground water screening level data associated with vapor intrusion investigations may be averaged pursuant to Section B4.1.1 of this guidance.

199	B4.3	Added wording to state that , in lieu of discreet sampling, the LSRP may use other means for determining the extent of the contamination. However, clean zone sampling data to demonstrate contaminant delineation to the applicable remediation standards, are required to demonstrate attainment of the applicable remediation standards at the conclusion of the remedial action
200	B4.3	Changed "impact" to "migration"
201	B5.2	Changed "may" to "should"
202	B5.3	Changed "may" to "should"
203	Appendix C	Appendix C was Appendix B
204	Glossary	In the definition of "compliance averaging", changed "impact" to "migration".
205	Glossary	Added a definition of "significant figure"
206	Appendix D	Appendix D was Appendix C
207	Acronyms	Added an acronym for "ISM" - Incremental sampling methodology