



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

Site-Specific Standard

Site Name: _____ LRP ID Number: _____

Contact for Remediator: Name _____ Telephone #: _____

Contact for Consultant: Name _____ Telephone #: _____

Complete				Requirements	Where in Report?	Comments#/date
Y	N	N/A				
			1	NOTIFICATION		
			2	All Remediations		
			3	Date Notice of Intent to Remediate submitted		
			4	Date proof of publication in a newspaper submitted		
			5	Date NIR published in a newspaper		
			6	Date proof of NIR submission to municipality submitted		
			7	Date NIR submission published in <i>Pa. Bulletin</i>		DEP Input
			8	Site-specific Standard and Special Industrial Area Remediations		
			9	Did municipality request involvement in site remediation or reuse?		
			10	If yes, was a public Involvement Plan submitted?		
			11	Did plans or reports provide response to any public comments for site-specific standard or SIA remediation?		
			12	FINAL REPORT		
			13	Date Final report submitted		
			14	Submission started 90 day review period?		
			15	Date submission of required fee submitted and amount		
			16	Date proof of publication of final report in a newspaper submitted		

* May include the rationale for why a "No" or "N/A" answer is acceptable, or a reference to a comment memorandum.

Complete			Requirements	Where in Report?	Comments#/date
Y	N	N/A			
			17	Date final report published in a newspaper	
			18	Date proof of final report submission to municipality submitted	
			19	Date final report submission published in <i>Pa. Bulletin</i>	DEP Input
			20	Date final report approved/disapproved	DEP Input
			21	Reason for disapproval of final report	DEP Input
			22	Date Department action on final report published in <i>Pa. Bulletin</i>	
			23	Was the final report for either a Background or Statewide health standard remediation submitted within 90 days of release?	
			24	If yes, what was the date of the release	
			25	PERSONNEL	
			26	Name of ECP staff contact	
			27	Remediator's Name, address, and telephone number	
			28	Consultant's Name, address, and telephone number	
			29	Other	
			30	SITE CHARACTERIZATION (for all three standards)	
			31	Determination of Site	
			32	Was an appropriate number of samples collected to characterize the source, nature and composition of contamination?	

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Complete			Requirements	Where in Report?	Comments#/date
Y	N	N/A			
			33	Groundwater	
			34	Soil	
			35	Are site boundaries identified and mapped by appropriate number and location of samples?	
			36	Groundwater	
			37	Soil	
			38	Is a site conceptual model provided describing the sources of contamination, fate and transport, and potential receptors?	
			39	Fate and Transport Analysis	
			40	Is the direction and rate of movement determined?	
			41	Is the future extent of contamination determined?	
			42	Is the fate (breakdown products) determined? (if applicable)	
			43	For Groundwater (if applicable)	
			44	Are the name and version of the analysis, a description of the analysis, and the name of the organization or the person who developed analysis provided?	
			45	Are the input data identified?	
			46	Are the assumptions of the analysis identified and justified?	
			47	Are quality assurance and quality control documented?	
			48	Are the results documented in appropriate figures and tables?	
			49	Other Information	
			50	Groundwater	

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Complete			Requirements	Where in Report?	Comments#/date
Y	N	N/A			
			51	Were the interpretations of geologic and hydrogeologic data prepared by a licensed professional geologist?	
			52	Have the effects of a release been characterized to define the movement of groundwater and contaminants, including position of the aquifers, and geologic units, which inhibit flow?	
			53	Are aquifer characterization, the effect of local and regional groundwater flow directions and any influence from pumping wells documented?	
			54	Were properly constructed and developed wells used in the characterization?	
			55	Were the samples taken a sufficient number of days apart to yield independent results?	
			56	Was more than one round of sampling used in the characterization?	
			57	Did the characterization consider the specific gravity of the contaminants and vertical gradients in determining vertical extent?	
			58	Soil	
			59	Have the relative location, conductivity, and heterogeneity of the soils been described?	
			60	Has the horizontal and vertical extent of soil with concentrations of regulated substances above the selected standard been identified?	
			61	Have samples from the locations with the highest concentrations been collected to determine applicability of selected remedial methods and disposal requirements?	

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Complete			Requirements	Where in Report?	Comments#/date
Y	N	N/A			
			62	Other Plans	
			63	Is there a Sampling and Analysis Plan?	
			64	Are there copies of soil and geologic boring descriptions used for characterization?	
			65	Are there copies of laboratory analytical results and applicable laboratory quality control documentation?	
			66	END OF PROCESS FOR SITE CHARACTERIZATION	

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Complete			Requirements	Where in Report?	Comments#/date
Y	N	N/A			
			67	SITE-SPECIFIC STANDARD	
			68	Remedial Investigation Report	
			69	Does the report provide an executive summary?	
			70	Does the remedial investigation (RI) report include all items identified in the site characterization checklist?	
			71	Verify the use of groundwater:	
			72	Does the groundwater have a background TDS concentration less than or equal to 2,500 mg/L?	
			73	Was the current and probable future use of groundwater determined on a site-specific basis?	
			74	Are the public benefits of the use or reuse of the property described?	
			75	Verify pathway identification process:	
			76	Were both <u>current and future</u> exposure scenarios considered?	
			77	Current land use?	
			78	Currently planned future land use?	
			79	Were both <u>human and ecological</u> receptors considered?	
			80	Were all potential <u>sensitive subpopulations</u> considered (e.g. elder people, pregnant or nursing women, infants and children, and people with chronic illnesses)?	

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Complete			Requirements	Where in Report?	Comments#/date
Y	N	N/A			
			81	Were all significant <u>contaminant sources</u> considered?	
			82	Were all potential <u>contaminant release mechanisms</u> considered, such as volatilization, fugitive dust emission, surface runoff/overland flow, leaching to groundwater, tracking by humans/animals, and soil gas generation?	
			83	Were all potential <u>contaminant transport pathways</u> considered, such as direct air transport downwind, diffusion in surface water, surface water flow, groundwater flow, and soil gas migration?	
			84	Were all relevant <u>cross-media transfer effects</u> considered, such as volatilization to air, wet deposition, dry deposition, and groundwater discharge to surface water?	
			85	Were all <u>media potentially associated with exposure</u> considered, such as soil, groundwater, surface water, and air?	
			86	Were <u>all appropriate exposure routes</u> considered, such as ingestion, inhalation, etc.?	
			87	Were <u>all possible exposure pathways</u> considered?	
			88	Does the report include the conclusions regarding the existence of the exposure pathways and the potential effectiveness of institutional or engineering controls for pathway elimination?	
			89	If required, does the RI report include comments obtained as a result of a public involvement plan and responses to those public comments?	
			90	Were the appropriate remedial technology options identified or is no action proposed?	
			91	Are the results of ecological receptor evaluation provided?	

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Complete			Requirements	Where in Report?	Comments#/date
Y	N	N/A			
			92	References provided?	
			93	Attachments provided?	
			94	Signatures provided?	
			95	Submission fee of \$250 included?	
			96	Proof of publication of newspaper notice included?	
			97	Date report submission notice published in a newspaper	
			98	Proof of municipality notice included?	
			99	Risk Assessment Report	
			100	Risk assessment report is not required, if no exposure pathways exist.	
			101	If exposure pathways exist and no remediation measure will be implemented, baseline risk assessment is required.	
			102	Does the baseline risk assessment demonstrate that the site meets the human health and environmental protection goals?	
			103	Is the impact to ecological receptors determined?	
			104	If the proposed remediation measure will eliminate all pathways, a simplified risk assessment report is required. Does the simplified risk assessment describe how all the exposure pathways will be eliminated?	
			105	If the proposed remediation measure cannot eliminate all pathways, a risk assessment to develop site-specific cleanup standards is required. Does the site-specific cleanup standard meet the human health and environmental protection goals?	
			106	If required, does risk assessment report include comments obtained as a result of a public involvement plan and responses to those public comments.	

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Complete			Requirements	Where in Report?	Comments#/date
Y	N	N/A			
			107	Will the site-specific cleanup standard also allow the site to meet surface water quality requirements specified in 250.406?	
			108	For diffuse flow, were <u>design flow conditions</u> used in the mass balance calculations?	
			109	By using the site-specific cleanup standard, will drinking water use of groundwater meet the MCL and SMCL at all points of exposure?	
			110	Will current drinking water or agricultural uses of groundwater, at the time contamination was discovered, be protected?	
			111	Except for the simplified risk assessment report, does the risk assessment report for human exposure also contain all of the following applicable information?	
			112	Executive summary	
			113	Introduction	
			114	Site characterization, including source characterization, development of conceptual site model, and evaluation to identify contaminants of concern.	
			115	Exposure assessment that uses appropriate exposure factors specified in 250.603. If fate and transport modeling was used, the exposure assessment includes documentation that the modeling meets the requirements in 250.604.	
			116	Toxicity assessment that includes the use toxicity information from sources identified in 250.605.	
			117	Risk characterization	
			118	Uncertainty analysis	
			119	References	
			120	Signatures	

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Complete			Requirements	Where in Report?	Comments#/date
Y	N	N/A			
			121	Submission fee of \$250 included?	
			122	Proof of publication of newspaper notice included?	
			123	Date report submission notice published in a newspaper	
			124	Proof of municipality notice included?	
			125	Cleanup Plan	
			126	Cleanup plan is not required, if no exposure pathways exist.	
			127	Does the cleanup plan evaluate the relative abilities of the alternative remedies and propose a remedial measure that achieves the site-specific standard?	
			128	Does the cleanup plan include additional alternative remedies that have been requested by the Department in accordance with the Act?	
			129	Is the proposed remedy protective of both human and ecological receptors?	
			130	Will use of groundwater meet the drinking water MCL and SMCL at all points of exposure?	
			131	Will current drinking water or agricultural uses of groundwater, at the time contamination was discovered, be protected?	
			132	Does the proposed remedy meet surface water quality requirements specified in 250.406?	
			133	Does the proposed remedy meet air quality requirements?	
			134	Does the cleanup plan also contain all of the following applicable information?	
			135	Introduction	
			136	List of contacts	
			137	Site maps	

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Complete				Requirements	Where in Report?	Comments#/date
Y	N	N/A				
			138	The results of treatability, bench scale or pilot scale studies or other data collected to support the remedial actions.		
			139	Adequate design plans and specifications sufficient to evaluate the proposed remedy.		
			140	The comments obtained as a result of a public involvement plan and the responses to those public comments. (if applicable)		
			141	Proposed post-remediation care requirements if needed to maintain the standard.		
			142	Corporation or agreement of third parties if a proposed remedy relies on access to properties owned by third parties, for remediation or monitoring.		
			143	Signatures		
			144	Submission fee of \$250 included?		
			145	Proof of publication of newspaper notice included?		
			146	Date report submission notice published in a newspaper		
			147	Proof of municipality notice included?		
			148	Final Report		
			149	Does the report demonstrate that the remedy has been completed in accordance with the approved cleanup plan?		
			150	Does the drinking water use of groundwater meet the MCL and SMCL at all points of exposure?		
			151	Are the current drinking water or agricultural uses of groundwater, at the time contamination was discovered, being protected?		

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Complete			Requirements	Where in Report?	Comments#/date
Y	N	N/A			
			152	Does the report demonstrate that the site meets surface water quality requirements specified in 250.406?	
			153	Does the report demonstrate that the site meets air quality requirements?	
			154	Does the report demonstrate that the site is and will continuously be protective to human and ecological receptors?	
			155	If separate phase liquids are present, does the report demonstrate that calculated site-specific numeric standards are attained within the soil and groundwater directly impacted by separate phase liquids when those numeric standards are associated with exposure to separate phase liquid?	
			156	Does the final report also contain all of the following information? (Check "Y" for all present)	
			157	General site layout (with property boundaries) map which includes area of Act 2 liability relief	
			158	Plan view figures showing extent of contamination and sampling points	
			159	Cross-section figures showing extent of contamination and sampling points	
			160	Figures illustrating conceptual site model interpretations	
			161	Plan view and cross-sections of contamination with superposed remediation activities	
			162	Summary tables of site characterization data	
			163	Summary tables of attainments data	
			164	Does the final report also contain all of the following applicable information? (Check "Y" for all present)	
			165	Executive summary	

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Complete			Requirements	Where in Report?	Comments#/date
Y	N	N/A			
			166	Description of the remedial methodologies used to attain the standard.	
			167	Attainment demonstration	
			168	Attainment of a numerical standard using valid sampling and statistical methods, if applicable.	
			169	Demonstration of pathway elimination, if applicable.	
			170	As an option, the residual risk assessment that demonstrates the post-remedial conditions of the site meets and will continuously meet human health and environmental protection goals.	
			171	Fate and transport analysis	
			172	Public comments and responses (if applicable)	
			173	Post-remediation care plan that meets the requirements in 250.204(g) (if applicable)	
			174	References	
			175	Attachments	
			176	Signatures	
			177	If mitigation measures are implemented to protect ecological receptors, verify that the post-remediation care plan also contains the following information:	
			178	A plan to maintain the mitigated ecological resources.	
			179	Reporting of the ongoing success or failure of the mitigation measure implemented.	
			180	Submission fee of \$500 included?	
			181	Proof of publication of newspaper notice included?	
			182	Date report submission notice published in a newspaper	

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Complete				Requirements	Where in Report?	Comments#/date
Y	N	N/A				
			183	Proof of municipality notice included?		
			184	END OF PROCESS FOR SITE-SPECIFIC STANDARD		

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