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

Statewide Health Standard

Site Name:	LRP ID Number:	
Contact for Remediator: Name	Telephone #:	
Contact for Consultant: Name	Telephone #:	

Con	Contact for Consultant: Name			ant: Name	Telephone #:		
	mple N	ete N/A		Requirements	Where in Report?	Comments#/date	
			1	NOTIFICATION	_		
			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 Pa. Bulletin		DEP Input	
			12	FINAL REPORT			
			13	Date Final report submitted			
			14	Submission started 60 day review period?			
			15	Date submission of required fee submitted and amount			
			16	Date proof of publication of final report in a newspaper submitted to DEP			
			17	Date final report published in a newspaper			
			18	Date DEP received proof that municipality was notified of submission of final report			
			19	Date final report submission published in Pa. Bulletin		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 Pa. Bulletin			

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

Co	Complete				Where in	
Υ	N	N/A		Requirements	Report?	Comments#/date
			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		
			31	Determination of Site		
			32	Was an appropriate number of samples collected to characterize the source, nature and composition of contamination?		
			33	Groundwater		
			34	Soil		
			35	Are site boundaries identified and mapped by appropriate number and location of samples?		
			36	Groundwater		
			37	Soil		

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Co	ompl	ete			Where in	
Υ	N	N/A		Requirements	Report?	Comments#/date
			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	Is 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		
			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?		

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Co	mpl	ete			Where in	
Υ	N	N/A		Requirements	Report?	Comments#/date
			53	Is 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?		
			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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Co	Complete				Where in	
Υ	N	N/A		Requirements	Report?	Comments#/date
			67	STATEWIDE HEALTH STANDARD		
			68	Land Use		
			69	Is the land use residential, such as schools, nursing homes or other residential-style facilities or recreational areas?		
			70	Is the land use non-residential?		
			71	Is the basis for determination of land use, such as zoning or existing use, clearly documented?		
			72	Aquifer Status and Selection of Groundwater MSCs		
			73	Is the aquifer presumed to be used or currently planned for use?		
			74	For a used aquifer, is TDS less than or equal to 2500 ppm?		
			75	Is the non-use aquifer designation documented?		
			76	Are the following criteria met within the area described in 250.303(b)?		
			77	No groundwater derived from wells or springs is used or currently planned to be used for drinking water or agricultural purposes.		
			78	All downgradient properties are connected to a community water system.		
			79	The area described in 250.303(b) does not intersect a radius of 1/2 mile from a community water supply well source or does not intersect a zone 2 wellhead protection area.		
			80	Is a copy of Nonuse Aquifer Designation Request form included?		

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Co	Complete				Where in		
Υ	N	N/A		Requirements	Report?	Comments#/date	
			81	Is a copy of Department approval letter included?			
				Is the proof of notification to the municipality and water supplier included?			
			82	Are the proper groundwater MSCs selected?			
			83	Development and Selection of Soil Standard			
			84	For each regulated substance for which the Statewide Health standard of soil applies, verify the following:			
			85	Is the soil-to-groundwater pathway numeric value properly established based on 100 x MSC, generic value, or SPLP or substituted by soil buffer criteria or equivalency demonstration?			
			86	100 X MSC			
			87	Generic Value - if this option chosen, complete the following:			
			88	Is 1/10 of the generic value applied to the soil in the zone of groundwater saturation?			
			89	SPLP - if this option chosen, complete the following:			
			90	Were there ten split samples taken?			
			91	Is the numeric level properly established?			
			92	Soil Buffer Criteria - if this option chosen, complete the following:			
			93	Were samples taken to show that the distance requirements have been met?			
			94	Equivalency Demonstration - if this option chosen, complete the following:			
			95	Are samples showing groundwater below SHS or background?			
			96	Is fate and transport analysis included?			

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Co	Complete				Where in	
Υ	N	N/A		Requirements	Report?	Comments#/date
			97	Was a monitoring for 8 quarters conducted?		
			98	Does the monitoring indicate no increasing trend of concentration over time that may exceed the groundwater standard?		
			99	If neither soil buffer criteria nor equivalency demonstration is used, is the soil-to-groundwater pathway numeric value greater than the direct contact value?		
			100	If neither soil buffer criteria nor equivalency demonstration is used and the direct contact value is less than the soil-to-groundwater pathway numeric value, is soil column less than 15 feet?		
			101	Are the proper soil standards determined or selected?		
			102	Ecological Screen		
			103	Is no impact documented?		
			104	If impact is documented		
			105	What standard was attained?		
			106	If the Statewide Health standard is attained, are the mitigative measures described?		
			107	Remediation Methodologies		
			108	Are the remediation methodologies described?		
				Is the calculation of the mass of contaminants removed included?		
			109	Attainment		
			110	Groundwater		
			111	Was 75%/10X rule applied to each compliance well on the property?		

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Co	ompl	ete			Where in	
Υ	N	N/A		Requirements	Report?	Comments#/date
			112	Was <u>75%/2X rule</u> applied to each monitoring well off property?		
			113	When 75%/10X rule or 75%/2X rule is applied, are there at least 8 consecutive quarters of groundwater data?		
			114	If 4 consecutive quarterly sampling events or less were implemented, are all the following criteria met?		
			115	Approval from Department attached.		
			116	There is adequate spatial monitoring of plume upgradient which indicates a decreasing concentration trend toward the downgradient property boundary.		
			117	Parameters affecting the fate and transport of regulated substances within the plume have been fully evaluated.		
			118	No exceedance rule instead of 75%/10X rule is used.		
			119	Age and stability of plume are adequately known, or remediation includes source removal or containment.		
			120	If applicable, is the application of 95%UCL consistent with EPA guidance?		
			121	Soil		
			122	If 75%/10X rule was applied, was the soil volume determined?		
			123	If 75%/10X rule was applied, were <u>proper number of samples</u> taken in accordance with 250.703(d)?		
			124	Were sampling points selected based on <u>systematic</u> random sampling procedures?		
			125	Are there three or more adjacent samples exceeding the standard by more than 10 times?		

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Co	Complete				Where in	
Υ	N	N/A		Requirements	Report?	Comments#/date
			126	If applicable, is the application of 95% UCL consistent with EPA approved methods?		
			127	If fewer samples were taken for a UST localized contamination site, was no exceedance rule used?		
			128	Compliance with Surface Water Requirements		
			129	Does the point source comply with NPDES requirements, if applicable?		
			130	For diffuse flow, were <u>design flow conditions</u> used in the mass balance calculations?		
			131	For diffuse flow, is one of the following criteria met?		
			132	Modeling indicates standards met.		
			133	Modeling indicates standards not met, and sampling shows standards met.		
			134	Modeling and sampling indicate standards not met, and additional remediation performed or a waiver of the surface water quality standards is obtained.		
			135	Compliance with Air Quality Requirements		
			136	If applicable, does the report demonstrate that the site meets air quality requirements?		
			137	Post-Remediation Care Plan		
			138	If applicable, is a post-remediation care plan that meets the requirements in 250.204(g) submitted?		
			139	If mitigation measures are implemented to protect ecological receptors, does the post-remediation care plan also contain the following information?		
			140	A plan to maintain the mitigated ecological resources		
			141	Reporting of the ongoing success or failure of the mitigation measure implemented.		
			142	Other Information		

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Co	mpl	ete			Where in	
Υ	N	N/A		Requirements	Report?	Comments#/date
			143	Does the final report include all items identified in the site characterization checklist?		
			144	Does the final report also contain all of the following information? (Check "Y" for all present)		
			145	General site layout (with property boundaries) map which includes area of Act 2 liability		
			146	Plan view figures showing extent of contamination and sampling points		
			147	Cross-section figures showing extent of contamination and sampling points		
			148	Figures illustrating conceptual site model interpretations		
			149	Plan view and cross-sections of contamination with superposed remediation activities		
			150	Summary tables of site characterization data		
			151	Summary tables of attainments data		
			152	Does the final report also contain all of the following applicable information? (Check "Y" for all present)		
			153	Executive summary		
			154	Site description		
			155	Site characterization		
			156	Statewide Health standard		
			157	Ecological screening		
			158	Remediation		
			159	Attainment		
			160	Fate and transport analysis		
			161	Post-remediation care plan (if required)		
			162	References		

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C	Complete				Where in	
Υ	N	N/A		Requirements	Report?	Comments#/date
			163	Attachments		
			164	Signatures		
			165	Submission fee of \$250 included?		
			166	Proof of publication of newspaper notice included?		
			167	Date report submission notice published in a newspaper		
			168	Proof of municipality notice included?		
			169	END OF PROCESS FOR STATEWIDE HEALTH STANDARD		

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