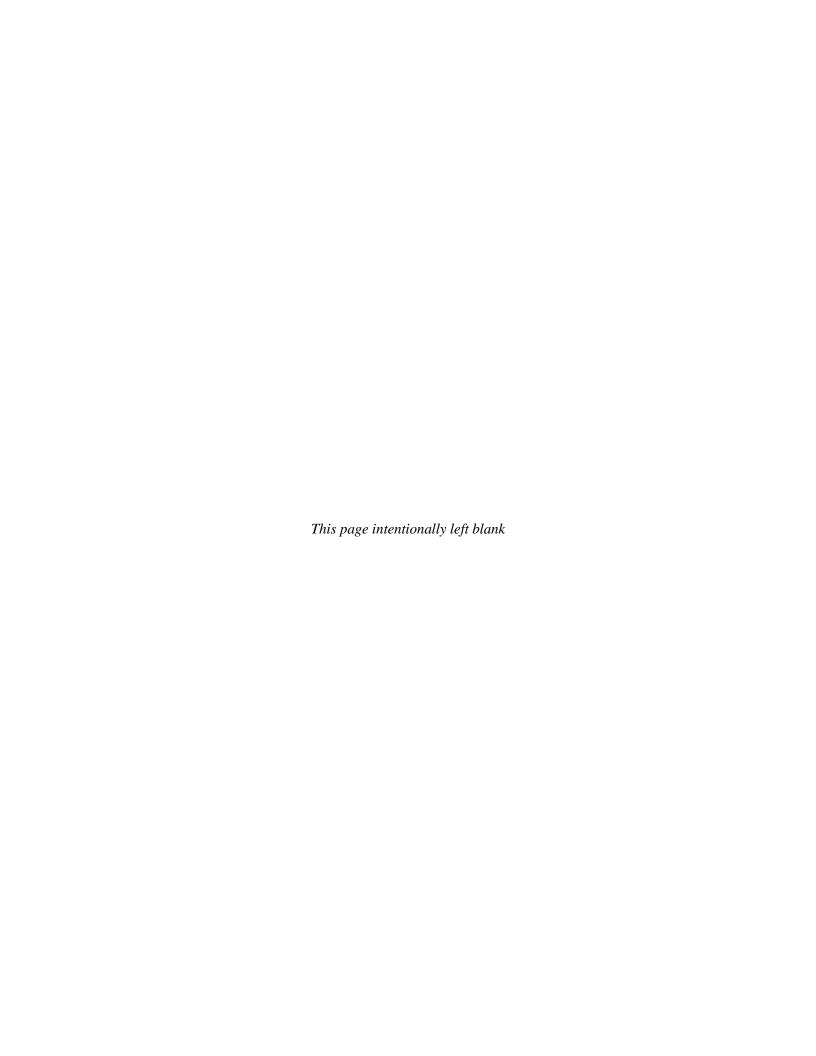
ATTACHMENT 3-1 REMEDIAL ACTION REPORT CHECKLIST





Nebraska Department of Environmental Quality

Remedial Action Report Checklist

This checklist should be used when preparing a Remedial Action Report (RAR), which is the applicant's final product of the voluntary cleanup process. This checklist serves two purposes: First, it helps the applicant to develop an appropriate RAR, both in terms of content and format. Second, it supports NDEQ's review of the RAR after the report is received. This checklist is not an all-inclusive list of the information that may be necessary to develop an appropriate RAR. This list is intended as an aid to assist in developing the RAR. NDEQ may request additional data, and some categories of data may not be applicable to every RAR.

Please specify in the boxes opposite each item whether the required information is present (Y), absent (N), or not applicable (NA) and indicate the page number within the RAR where the information is included. Specific information for elements in the RAR are included. Additional general information for the document, including specific formats for tables and figures, are listed at the end of the checklist. Acronyms used throughout the checklist are also included at the end of the checklist.

Applicant Name		
Site or Property Name		

INFORMATION INFORMATION INFORMATION INFORMATION JOCUMENT PAGE NUMBER 3.1 EXECUTIVE SUMMARY Summary of the RAOs at the site Explanation of how and why the RAOs have been met Remedial activities completed Deviations from the remedial activities described in the RAP Future land use at the site and any institutional controls Any on-going monitoring at the site 3.2 SITE SETTING, HISTORY, AND OPERATIONS Property name and identification Facility name Street address Owner and contractor information Contractors or consultants to the applicant or owner, with contact information Contractors or consultants to the applicant or owner, with contact information Location and physical setting Location and physical setting Location and physical setting, including topography, geology, hydrogeology, and climate Operational history Summary of previous ownership, business operations, and dates that the site was active Summary of previous ownership, business operations, and dates that the site was active Summary of historical environmental incidents, spills, or releases of hazardous constituents Findings of the investigation as reported in the Remedial Action Plan Description of the horizontal and vertical extent of contamination before remedial activities Potential receptors identified Remedial action proposed in the Remedial Action Work Plan portion of the RAP Summary of the site's VCP history Date that the application was submitted and date approved Date that the APA was submitted and date approved Date that the medial activities were completed Date that remedial activities were completed Date showing chronology of events and remedial actions taken at the site Description of soil excavation and removal actions Table showing chronology of events and remedial actions taken at the site Description of soil excavation and removal actions				1	
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Description of soil excavation and removal actions		>			
		>	Description of soil excavation and removal actions		

	ELEMENT-SPECIFIC INFORMATION	1	
	INFORMATION	Y/N/NA	DOCUMENT PAGE NUMBER
	Extent and depth of soil excavated		
	 Total volume of soil excavated and removed 		
>	Description of in situ treatment of soil		
	 Volumes of treatment chemicals used, materials discharged, and contaminants removed 		
	Total volume of soil treated		
>	Figure showing areas of excavated soil, treatment points, and/or radius of influence of treatment systems		
>	Description of active groundwater remediation, including		
	 Maps of cross-sections showing treatment points or radius of influence of the treatment system 		
	Volumes of treatment chemicals used, water discharged, and contaminants removed		
	Total volume of groundwater treated		
>	Estimated volumes of contaminants degraded or removed by passive groundwater remediation (e.g., monitored natural attenuation)		
>	Description of other traditional or innovative remedial technology used at the site		
	Total volume of water or soil diverted, treated, and/or disposed		
	Total volume of contaminants removed		
	Maps and cross sections showing locations of excavation, treatment, monitoring, and/or sampling points		
>	Description of handling and disposal of RDW, including		
	Volume of RDW generated		
	Methods used to characterize RDW		
	Procedures to control or contain RDW onsite		
	Methods of transporting, treating, and disposing of RDW		
~	Photographic logs of remedial activities		
<u> </u>	Copies of relevant property deeds or other documentation of		
	institutional controls implemented		
3.5 C	DMPLIANCE WITH REMEDIAL ACTION OBJECTIVES		
>	Narrative explanation of why analytical results show that the RAOs		
	have been achieved		
>	Figures and maps showing:		
	Sample locations		
	Sample depths		
>	Tables summarizing:		
	Sample collection methods		
	Sample collection dates		
>	Description and illustration of post-remedial action conditions		
	Table summarizing maximum concentrations of contaminants at the site after remedial activities		
	Potentiometric surface maps		
	Isoconcentration maps and cross sections of the contaminant plume(s) at the site after remedial actions		

	INFORMATION	Y/N/NA	DOCUMENT PAGE NUMBER
	 Free-product isopach maps at the site after remedial actions 		
>	Reference to soil boring and monitoring well construction logs		
~	Table containing results of field screening		
>	Summary of analytical results and reference to laboratory reports for soil and groundwater sampling		
	Chemicals of concern identified		
	Maximum concentration of contamination		
	Background concentrations of chemicals of concern		
	Target compounds		
	Concentrations of compounds detected		
>	Summary of QA/QC results and reference to attached lab reports		
>	Reference to table of data validation qualifiers		
>	Updated Conceptual Site Model (CSM)		
	Description of the udated CSM		
	Description of intended land use		
	 Location and use of buildings 		
	 Location and depth of below-grade structures or basements 		
	Description of any potential sensitive populations		
	Location of any remaining contaminants and illustration or description of methods used to contain contamination		
	The impacts that moving of waste may have on human health and the environment		
	 Explanation of why/how all exposure or migration pathways at the site have been eliminated 		
>	Reference to previously submitted startup reports and/or monitoring reports		
>	Other information as appropriate for the implemented remedies to verify that RAOs have been achieved		
3.6 DE	EVIATIONS FROM THE RAP		
>	Description and rationale for any changes to the proposed remedial action as described in the RAP		
>	Attached copies of any correspondence between NDEQ and the applicant concerning changes to the remedial approach		
>	If no deviations were necessary, state so		
3.7 DE	EVIATIONS IN PERFORMANCE MONITORING		
>			
	New or modified monitoring objectives		
	New or modified methods		
	Maps showing new or modified monitoring locations		
	Cross sections/diagrams showing new or modified subsurface		
	monitoring and sampling intervals		
	Description of new or modified monitoring schedule		
	 Description and tables of new or modified monitoring parameters 		

		INFORMATION	Y/N/NA	DOCUMENT PAGE NUMBER
3.8	AF	PPENDICES		
	>	As-built diagrams		
		• Subsurface structures – tunnels, parking garages, basements, etc.		
		 Remedial systems – blowers, piping, utilities, towers 		
		Green space, recreational space – picnic areas, gazebos		
		Buildings, surface parking lots		
		 Sensitive use areas – Day care, schools, nursing homes 		
	>	Maps of site features		
		• Ponds		
		Parking lots		
		• Buildings		
		Subsurface structures (e.g. parking garages, basements, tunnels)		
		Green space		
	>	Copies of legal documents required for institutional controls		
	>	Other information to verify that RAOs have been met		
		Soil boring and monitoring well construction logs		
		Complete results of field screening		
		Analytical reports for soil gas, groundwater, or soil samples, including quality assurance/quality control results		
		Data validation and usability summary		
		Copies of log books, field sheets, chain-of-custody forms, or other relevant supporting documentation.		

ADDITIONAL REQUIREMENTS

	REQUIREMENTS	Y/N/NA
>	Tables	
	Tables are numbered and titled	
	 All abbreviations used in the table or table title are spelled out in table footnotes 	
>	Figures	
	Horizontal and vertical scales on cross-sections	
	Horizontal scale on maps	
	Orientation labels (i.e., north arrow) on maps	
	Date, title, and source of base map	
	 Cross-section control points shown on an associated map, with reference to map on cross-section 	
	 Isoconcentration or potentiometric surface maps compiled from a single sampling event and labeled with the appropriate date 	
	All features on maps clearly labeled	
	Site boundaries clearly labeled	
	 Photographs scanned and printed at high resolution (300 dpi scanned, 600 dpi printed), preferably in color, including aerial photographs 	
OTHER		
>	Four complete copies of the document submitted to NDEQ, at least one copy in full color	
>	All pages numbered, including figures, tables, and appendices	
>	Chemicals identified by consistent names throughout document	
>	Explanations of inconsistent chemical names in laboratory reports or previous investigations	
>	All abbreviations spelled out for first use or included in list of abbreviations	

ABBREVIATIONS

CSM = Conceptual site model

dpi = dots per inch

N = Absent/not included NA = Not applicable

NDEQ = Nebraska Department of Environmental Quality

QA/QC = Quality assurance/quality control

RAO = Remedial action objective RAP = Remedial Action Plan

RAPMA = Remedial Action Plan Monitoring Act

RAR = Remedial Action Report
RDW = Remediation derived waste
USGS = U.S. Geological Survey
VCP = Voluntary Cleanup Program

Y = Present/included