

ELY COPPER MINE SUPERFUND SITE
Vershire, Vermont

Administrative Record
Record of Decision (ROD) Proposed Plan
for
Operable Unit (OU)
[OU2 Adit Discharge (Combined with OU3)]

INDEX

Proposed Plan Dated August 2015
Released on CD-ROM: September 2015

Prepared by
EPA New England
Office of Site Remediation and Restoration

Introduction to the Collection

This is the administrative record Index for the Ely Copper Mine Superfund Site, Vershire, Vermont, Operable Unit (OU) OU2 and OU3, Record of Decision (ROD) Proposed Plan. The Proposed Plan will be out for a public comment on September 08, 2015. The file contains site-specific documents and a list of guidance documents used by EPA staff in selecting a response action at the site.

This Administrative Record incorporates, by reference, the Administrative Record for the Record of Decision (ROD), Operable Unit One (OU) 1 dated September 28, 2011.

The administrative record file is available for review at:

EPA New England Office of
Site Remediation & Restoration
1 Congress Street, Suite 1100 (HSC)
Boston, MA 02114
(by appointment)
617-918-1440 (phone)
617-918-0440 (fax)

Town of Vershire
6894 Route 113
Vershire, VT 05079
(802) 685-2227 (phone)
admin@vershirevt.org

Town of West Fairlee
870 Route 113
Fairlee, VT 05045
(802) 333- 9696
www.westfairleevt.com

www.epa.gov/region01/superfund/resource/records.htm

An administrative record file is required by the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended by the Superfund Amendments and Reauthorization Act (SARA).

Please note that the compact disc(s) (CD) containing this Administrative Record may include index data and other metadata (hereinafter collectively referred to as metadata) to allow the user to conduct index searches and key word searches across all the files contained on the CD. All the information that appears in the metadata, including any dates associated with creation of the indexing data, is not part of the Administrative Record for the Site under CERCLA and shall not be construed as relevant to the documents that comprise the Administrative Record. This metadata is provided as a convenience for the user and is not part of the Administrative Record.

Questions about this administrative record file should be directed to the EPA New England site manager.

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Phase 03: REMEDIAL INVESTIGATION (RI)

577660	QUALITY ASSURANCE PROJECT PLAN (QAPP) FOR REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), REVISION 3 (11/13/2012 TRANSMITTAL LETTER ATTACHED)	# of Pages: 453
		Doc Date: 11/01/2012

Author: , NOBIS ENGINEERING INC	Addressee: , US EPA REGION 1	Doc Type: SAMPLING & ANALYSIS PLAN WORK PLAN	File Break: 03.04
			Access Type(s): REL

577661	TECHNICAL MEMORANDUM 1: DRAFT UNDERGROUND WORKINGS FIELD INVESTIGATION PLAN 1	# of Pages: 24
		Doc Date: 09/01/2012

Author: , NOBIS ENGINEERING INC	Addressee: , US EPA REGION 1	Doc Type: WORK PLAN	File Break: 03.07
			Access Type(s): REL

577662	TECHNICAL MEMORANDUM 2: UNDERGROUND WORKINGS BEDROCK HYDROGEOLOGY CHARACTERIZATION	# of Pages: 20
		Doc Date: 02/15/2013

Author: , NOBIS ENGINEERING INC	Addressee: , US EPA REGION 1	Doc Type: WORK PLAN	File Break: 03.07
			Access Type(s): REL

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577663	TECHNICAL MEMORANDUM 3: FINAL UNDERGROUND WORKINGS BEDROCK DRILLING LOCATIONS AND ACCESS ROAD PLAN	# of Pages: 12
		Doc Date: 06/24/2013

Author: , NOBIS ENGINEERING INC	Addressee: , US EPA REGION 1	Doc Type: WORK PLAN	File Break: 03.07 Access Type(s): REL
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577664	TECHNICAL MEMORANDUM 4: PHASE I DEEP BEDROCK INVESTIGATION	# of Pages: 161
		Doc Date: 01/17/2014

Author: , NOBIS ENGINEERING INC	Addressee: , US EPA REGION 1	Doc Type: WORK PLAN	File Break: 03.07 Access Type(s): REL
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577665	TECHNICAL MEMORANDUM 5: UNDERGROUND WORKINGS INVESTIGATION PLAN 2	# of Pages: 31
		Doc Date: 07/11/2014

Author: , NOBIS ENGINEERING INC	Addressee: , US EPA REGION 1	Doc Type: WORK PLAN	File Break: 03.07 Access Type(s): REL
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Phase 03: REMEDIAL INVESTIGATION (RI)

577670 REMEDIAL INVESTIGATION (RI) REPORT			# of Pages: 541 Doc Date: 07/01/2015
Author: , NOBIS ENGINEERING INC	Addressee: , US EPA REGION 1	Doc Type: REMEDIAL INVESTIGATION (R REPORT	File Break: 03.06 Access Type(s): REL
577671 HUMAN HEALTH RISK ASSESSMENT (HHRA)			# of Pages: 171 Doc Date: 07/01/2015
Author: , NOBIS ENGINEERING INC	Addressee: , US EPA REGION 1	Doc Type: REPORT RISK/HEALTH ASSESSMENT	File Break: 03.10 Access Type(s): REL
577672 TECHNICAL MEMORANDUM REGARDING MILESTONE HERITAGE CONSULTING (11/24/1899 MEMO ATTACHED)			# of Pages: 12 Doc Date: 07/04/2015
Author: , UNIVERSITY OF VERMONT ARCHIVAL RESEACH	Addressee: , NOBIS ENGINEERING INC	Doc Type: CORRESPONDENCE MEMO	File Break: 03.07 Access Type(s): REL

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Phase 04: FEASIBILITY STUDY (FS)

581834 FEASIBILITY STUDY (FS) REPORT

of Pages: 384

Doc Date: 08/01/2015

Author: , NOBIS ENGINEERING INC

Addressee: , US EPA REGION 1

Doc Type: FEASIBILITY STUDY (FS)
REPORT

File Break: 04.06

Access
Type(s): REL

581868 PROPOSED PLAN FOR OPERABLE UNIT (OU) OU2 AND OU3 UNDERGROUND WORKINGS GROUNDWATER CLEANUP

of Pages: 26

Doc Date: 08/19/2015

Author: , US EPA REGION 1

Addressee:

Doc Type: PROPOSED PLAN
PUBLIC INFORMATION
REPORT

File Break: 04.09

Access
Type(s): REL

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Phase 13: COMMUNITY RELATIONS

581879 PUBLIC NOTICE: ELY COPPER MINE PUBLIC INFORMATION MEETING FOLLOWED BY PUBLIC HEARING ON 09/22/2015

of Pages: 1

Doc Date: 08/30/2015

Author: , VALLEY NEWS

Addressee:

Doc Type: PUBLIC INFORMATION

File Break: 13.03

Access
Type(s): REL

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Phase 16: NATURAL RESOURCE TRUSTEE

581876	EPA'S NOTIFICATION LETTER SEEKING COMMENTS ON PROPOSED PLAN FOR CLEANUP OF OPERABLE UNIT (OU) OU2 AND OU3 TO DEPT OF INTERIOR (DOI) IN ITS ROLE AS NATURAL TRUSTEE	# of Pages: 1
		Doc Date: 08/28/2015

Author: EDWARD HATHAWAY, US EPA REGION 1	Addressee: ANDREW RADDANT, US DEPT OF INTERIOR	Doc Type: CORRESPONDENCE LETTER	File Break: 16.01
			Access Type(s): REL

581877	EPA'S NOTIFICATION LETTER SEEKING COMMENTS ON PROPOSED PLAN FOR CLEANUP OF OPERABLE UNIT (OU) OU2 AND OU3 TO US NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) IN ITS ROLE AS NATURAL TRUSTEE	# of Pages: 1
		Doc Date: 08/28/2015

Author: EDWARD HATHAWAY, US EPA REGION 1	Addressee: KENNETH FINKELSTEIN, US NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	Doc Type: CORRESPONDENCE LETTER	File Break: 16.01
			Access Type(s): REL

581878	LETTER REGARDING EPA'S CONSULTATION WITH US FISH AND WILDLIFE SERVICE (USFWS) IN ACCORDANCE WITH SECTION 7 OF ENDANGERED SPECIES ACT (ESA)	# of Pages: 11
		Doc Date: 08/28/2015

Author: EDWARD HATHAWAY, US EPA REGION 1	Addressee: SUSI VON OETTINGEN, US DEPT OF INTERIOR - FISH & WILDLIFE SERVICE	Doc Type: CORRESPONDENCE LETTER	File Break: 16.01
			Access Type(s): REL

Number of Documents in Administrative Record: 15

Selected Key Guidance Documents

EPA Guidance Documents may be reviewed at the OSRR Records and Information Center in Boston, MA

DOCNUMBER	DOCDATE	TITLE	OSWEREPAID
2002	October 1, 1988	INTERIM FINAL GUIDANCE FOR CONDUCTING REMEDIAL INVESTIGATIONS AND FEASIBILITY STUDIES UNDER CERCLA.	OSWER #9355.3-01
2018	November 1, 1989	FEASIBILITY STUDY - DEVELOPMENT AND SCREENING OF REMEDIAL ACTION ALTERNATIVES [QUICK REFERENCE FACT SHEET]	OSWER #9355.3-01FS3
2019	March 1, 1990	FEASIBILITY STUDY: DETAILED ANALYSIS OF REMEDIAL ACTION ALTERNATIVES [QUICK REFERENCE FACT SHEET]	OSWER #9355.3-01FS4
3006	May 1, 1989	ARARs Q'S & A'S [QUICK REFERENCE FACT SHEET]	OSWER #9234.2-01FS
3009	December 1, 1989	CERCLA COMPLIANCE WITH OTHER LAWS MANUAL - CERCLA COMPLIANCE WITH STATE REQUIREMENTS [QUICK REFERENCE FACT SHEET]	OSWER #9234.2-05FS
3010	February 1, 1990	CERCLA COMPLIANCE WITH OTHER LAWS MANUAL - CERCLA COMPLIANCE WITH THE CWA AND SDWA [QUICK REFERENCE FACT SHEET]	OSWER #9234.2-06FS
3011	December 1, 1989	CERCLA COMPLIANCE WITH OTHER LAWS MANUAL - OVERVIEW OF ARARs - FOCUS ON ARAR WAIVERS [QUICK REFERENCE FACT SHEET]	OSWER #9234.2-03FS
3012	April 1, 1990	CERCLA COMPLIANCE WITH OTHER LAWS MANUAL - SUMMARY OF PART II - CAA, TSCA, AND OTHER STATUTES [QUICK REFERENCE FACT SHEET]	OSWER #9234.2-07FS
3013	August 1, 1989	CERCLA COMPLIANCE WITH OTHER LAWS MANUAL PART II: CLEAN AIR ACT AND OTHER ENVIRONMENTAL STATUTES AND STATE REQUIREMENTS	OSWER #9234.1-02
5003	September 24, 1986	GUIDELINES FOR CARCINOGEN RISK ASSESSMENT (FEDERAL REGISTER, SEPTEMBER 24, 1986, p. 33992)	
5004	September 24, 1986	GUIDELINES FOR EXPOSURE ASSESSMENT (FEDERAL REGISTER, SEPTEMBER 24, 1986, p. 34042)	
5005	September 24, 1986	GUIDELINES FOR HEALTH ASSESSMENT OF SUSPECT DEVELOPMENTAL TOXICANTS (FEDERAL REGISTER, SEPTEMBER 24, 1986, p. 34028)	
5006	September 24, 1986	GUIDELINES FOR MUTAGENICITY RISK ASSESSMENT (FEDERAL REGISTER, SEPTEMBER, 24, p. 34006)	
5013	April 1, 1988	SUPERFUND EXPOSURE ASSESSMENT MANUAL	OSWER #9285.5-1
5014	October 1, 1986	SUPERFUND PUBLIC HEALTH EVALUATION MANUAL	OSWER #9285.4-1
9002	April 1, 1990	GUIDE TO SELECTING SUPERFUND REMEDIAL ACTIONS	OSWER #9355.0-27FS
C025	August 1, 1985	ENDANGERMENT ASSESSMENT HANDBOOK.	OSWER 9850.1
C158	October 4, 1993	GUIDANCE FOR EVALUATING THE TECHNICAL IMPRACTICABILITY OF GROUND WATER RESTORATION.	OSWER 9234.2-25

Selected Key Guidance Documents

EPA Guidance Documents may be reviewed at the OSRR Records and Information Center in Boston, MA

DOCNUMBER	DOCDATE	TITLE	OSWEREPAID
C174	December 1, 1989	RISK ASSESSMENT GUIDANCE FOR SUPERFUND. VOLUME I. HUMAN HEALTH EVALUATION MANUAL (PART A). INTERIM FINAL.	EPA 540/1-89/002
C180	July 1, 1989	RISK ASSESSMENT GUIDANCE FOR SUPERFUND. HUMAN HEALTH EVALUATION MANUAL PART A.	OSWER 9285.7-01A
C191	July 1, 1990	ARARs Q's & A's: STATE GROUND-WATER ANTIDegradation ISSUES.	OSWER 9234.2-11FS
C192	June 1, 1990	ARARs Q's & A's: COMPLIANCE WITH FEDERAL WATER QUALITY CRITERIA.	OSWER 9234.2-09/FS
C213	January 19, 1995	CONSISTENT IMPLEMENTATION OF THE FY 1993 GUIDANCE ON TECHNICAL IMPRACTICABILITY OF GROUND-WATER RESTORATION AT SUPERFUND SITES.	OSWER 9200.4-14
C214	June 25, 1993	FINAL REVISIONS TO OMB CIRCULAR A-94 ON GUIDELINES AND DISCOUNT RATES FOR BENEFIT-COST ANALYSIS.	OSWER 9355.3-20
C276	April 22, 1991	ROLE OF THE BASELINE RISK ASSESSMENT IN SUPERFUND REMEDY SELECTION DECISIONS	OSWER 9355.0-30
C281	September 1, 1992	ARAR'S FACT SHEET: COMPLIANCE WITH CLEAN THE CLEAN AIR ACT AND ASSOCIATED AIR QUALITY REQUIREMENTS	
C288	August 1, 1994	RISK UPDATE ISSUE NO. 2	
C317	January 1, 1995	LAND USE IN THE CERCLA REMEDY SELECTION PROCESS	OSWER 9355.7-04
C356	August 1, 1997	EXPOSURE FACTORS HANDBOOK; GENERAL FACTORS, VOLUME I	EPA 600/P-95/002FA
C473	August 1, 1997	RULES OF THUMB FOR SUPERFUND REMEDY SELECTION (EPA 540-R-97-013)	OSWER 9355.0-69
C525	July 1, 1999	GUIDE TO PREPARING SUPERFUND PROPOSED PLANS RECORDS OF DECISION AND OTHER REMEDY SELECTION DECISION DOCUMENTS	OSWER 9200.1-23 P
C526	August 1, 2000	ABANDONED MINE SITE CHARACTERIZATION & CLEANUP HANDBOOK (AVAILABLE ON CD-ROM)	PB2002-107421
C527	September 1, 1997	INTRODUCTION TO HARD ROCK MINING: A CD-ROM APPLICATION (AVAILABLE ON CD-ROM)	EPA 530-C-97-005
C531	September 1, 2000	INSTITUTIONAL CONTROLS: A SITE MANAGER'S GUIDE TO IDENTIFYING, EVALUATING AND SELECTING INSTITUTIONAL CONTROLS AT SUPERFUND AND RCRA CORRECTIVE ACTION CLEANUPS.	OSWER 9355.0-74 FS-P
C532	September 1, 1993	GUIDANCE FOR EVALUATING THE TECHNICAL IMPRACTICABILITY OF GROUND-WATER RESTORATION.	EPA 540-R-93-080
C563	October 7, 1999	ECOLOGICAL RISK ASSESSMENT AND RISK MANAGEMENT PRINCIPLES FOR SUPERFUND SITES	OSWER 9285.7-28 P
C564	August 12, 1994	ROLE OF THE ECOLOGICAL RISK ASSESSMENT IN THE BASELINE RISK ASSESSMENT	OSWER 9285.7-17

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DOCNUMBER	DOCDATE	TITLE	OSWEREPAID
C575	September 1, 2004	STRATEGY TO ENSURE INSTITUTIONAL CONTROL IMPLEMENTATION AT SUPERFUND SITES	OSWER NO. 9355.0-106
C582	July 1, 2000	A GUIDE TO DEVELOPING AND DOCUMENTING COST ESTIMATES DURING THE FEASIBILITY STUDY	OSWER 9355.0-75
C593	December 1, 2001	RISK ASSESSMENT GUIDANCE FOR SUPERFUND VOLUME I: HUMAN HEALTH EVALUATION MANUAL. PART D. STANDARDIZED PLANNING, REPORTING, AND REVIEW OF SUPERFUND RISK ASSESSMENTS. FINAL	
C602	July 1, 2004	RISK ASSESSMENT GUIDANCE FOR SUPERFUND VOLUME I: HUMAN HEALTH EVALUATION MANUAL (PART E SUPPLEMENTAL GUIDANCE FOR DERMAL RISK ASSESSMENT) FINAL	
C604	September 1, 1994	HEALTH EFFECTS ASSESSMENT FOR IRON (AND COMPOUNDS)	
C622	November 1, 1991	A GUIDE TO PRINCIPLE THREAT AND LOW LEVEL THREAT WASTES	9380.3-06FS
C623	May 1, 2001	OPERATION AND MAINTENANCE IN THE SUPERFUND PROGRAM	OSWER 9200.1-37FS
C636	January 1, 2004	DRINKING WATER HEALTH ADVISORY FOR MANGANESE	EPA-822-R-04-003
C651	February 1, 2003	HEALTH EFFECTS SUPPORT DOCUMENT FOR MANGANESE	
C663	September 1, 1996	ROLE OF COST IN THE SUPERFUND REMEDY SELECTION PROCESS	EPA-540/F-96/018
C692	February 19, 1992	PERMITS AND PERMIT EQUIVALENCY PROCESSES FOR CERCLA ON-SITE RESPONSE ACTIONS	OSWER 9355.7-03
C693	July 1, 1991	ARARS Q'S & A'S: GENERAL POLICY, RCRA, CWA, SDWA, POST-ROD INFORMATION AND CONTINGENT WAIVERS	9234.2-01/FS-A
C721	April 26, 2002	ROLE OF BACKGROUND IN THE CERCLA CLEANUP PROGRAM	9285.6-07P
C751	July 1, 2011	GROUNDWATER ROAD MAP: RECOMMENDED PROCESS FOR RESTORING CONTAMINATED GROUNDWATER AT SUPERFUND SITES	OSWER 9288.1-34
C762	September 1, 1999	RISK UPDATES	
C848	March 1, 2001	EPA REQUIREMENTS FOR QUALITY ASSURANCE PROJECT PLANS (QA/R5)	EPA/240/B-01/003
C875	September 20, 2010	REVISED GUIDANCE ON COMPILING ADMINISTRATIVE RECORDS FOR CERCLA RESPONSE	
C880	February 11, 1994	EXECUTIVE ORDER 12898, FEDERAL ACTIONS TO ADDRESS ENVIRONMENTAL JUSTICE IN MINORITY POPULATIONS AND LOW-INCOME POPULATIONS	
C884	May 1, 1994	CONSIDERING WETLANDS AT CERCLA SITES	

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EPA Guidance Documents may be reviewed at the OSRR Records and Information Center in Boston, MA

DOCNUMBER	DOCDATE	TITLE	OSWEREPAID
C908	December 1, 2008	GREEN REMEDIATION: BEST MANAGEMENT PRACTICES FOR EXCAVATION AND SURFACE RESTORATION	EPA 542-F-08-012
C918	August 5, 2013	NATIONAL RECOMMENDED WATER QUALITY CRITERIA: CURRENT WATER QUALITY CRITERIA	
C920	April 1, 2012	2012 EDITION OF THE DRINKING WATER STANDARDS AND HEALTH ADVISORIES	EPA 822-S-12-001
C923	September 19, 2011	CLARIFICATION OF OSWER'S 1995 TECHNICAL IMPRACTICABILITY WAIVER POLICY	OSWER 9355.5-32
C925	April 1, 2005	SUPERFUND COMMUNITY INVOLVEMENT HANDBOOK	EPA/540/K-05/003
C936	December 1, 2012	INSTITUTIONAL CONTROLS: A GUIDE TO PLANNING, IMPLEMENTING, MAINTAINING, AND ENFORCING INSTITUTIONAL CONTROLS AT CONTAMINATED SITES	OSWER 9355.0-89, EPA/540/R-09/001
C937	December 1, 2012	INSTITUTIONAL CONTROLS: A GUIDE TO PREPARING INSTITUTIONAL CONTROLS IMPLEMENTATION AND ASSURANCE PLANS AT CONTAMINATED SITES	OSWER 9200.0-77, EPA/540/R-09/02
C938	March 1, 2012	UNIFORM FEDERAL POLICY FOR QUALITY ASSURANCE PROJECT PLANS, PARTS 1-2	EPA/505/B-04/900A THROUGH 900C
C941	February 6, 2014	HUMAN HEALTH EVALUATION MANUAL: SUPPLEMENTAL GUIDANCE - UPDATE OF STANDARD EXPOSURE FACTORS	OSWER DIRECTIVE 9200.1-120
C1004	August 1, 2012	SUMMARY OF TECHNICAL IMPRACTICABILITY WAIVERS AT NATIONAL PRIORITIES LIST SITE (NPL), REPORT WITH GENERAL TECHNICAL IMPRACTICABILITY SITE INFORMATION SHEETS	OSWER 9230.2-24
C1005	June 1, 2015	REGIONAL SCREENING LEVELS (RSL) FOR CHEMICAL CONTAMINANTS AT SUPERFUND SITES	
C1006	June 1, 1995	REMEDIAL DESIGN/REMEDIAL ACTION HANDBOOK	OSWER 9355.0-04B, EPA 540/R-95/059
C1007	August 1, 1988	CERCLA COMPLIANCE WITH OTHER LAWS MANUAL. PART I. INTERIM FINAL	OSWER EPA/9234.1-01,