

Hanscom Air Force Base

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION I



AND THE

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UNITED STATES DEPARTMENT OF THE AIR FORCE

IN THE MATTER OF:

U.S. Department of the Air Force
Hanscom Air Force Base
Massachusetts

FEDERAL FACILITY AGREEMENT
under CERCLA Section 120
Administrative
Docket Number: CERC-02-2009-FF

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FEDERAL FACILITY AGREEMENT
under CERCLA Section 120
Administrative
Docket Number: CERC-02-2009-3FF

Based on the information available to the Parties on the Effective Date of this FEDERAL FACILITY AGREEMENT (Agreement), and without trial or adjudication of any issues of fact or law, the Parties agree as follows:

I. JURISDICTION

Each Party is entering into this Agreement pursuant to the following authorities:

1.1 The U.S. Environmental Protection Agency (EPA) Region I enters into those portions of this Agreement that relate to the Remedial Investigation/Feasibility Study (RI/FS) pursuant to Section 120(e)(1) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), 42 U.S.C. § 9620(e)(1), as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA), Pub. L. No. 99-499 (hereinafter jointly referred to as CERCLA), and Sections 6001, 3008(h) and 3004(u) and (v) of the Resource Conservation and Recovery Act (RCRA), 42 U.S.C. Sections 6961, 6928(h), 6924(u) and (v) as amended by the Hazardous and Solid Waste Amendments of 1984 (HSWA) (hereinafter jointly referred to as RCRA), and Executive Order 12580.

1.2 EPA Region I enters into those portions of this Agreement that relate to interim remedial actions and final remedial actions pursuant to CERCLA Section 120(e)(2), 42 U.S.C. Section 9620(e)(2), RCRA Sections 6001, 3008(h) and 3004(u) and (v), 42 U.S.C. Sections 6961, 6928(h), 6924(u) and (v), and Executive Order 12580.

1.3 The Air Force enters into those portions of this Agreement that relate to the RI/FS pursuant to CERCLA Section 120(e)(1), 42 U.S.C. Section 9620(e)(1), RCRA Sections 6001, 3008(h) and 3004(u) and (v), 42 U.S.C. Sections 6961, 6928(h), 6924(u) and (v), Executive Order 12580, the National Environmental Policy Act, 42 U.S.C. Section 4321, and the Defense Environmental Restoration Program (DERP), 10 U.S.C. Section 2701 *et seq.*

1.4 The Air Force enters into those portions of this Agreement that relate to interim remedial actions and final remedial actions pursuant to CERCLA Section 120(e)(2), 42 U.S.C. Section 9620(e)(2), RCRA Sections 6001, 3008(h), 3004(u) and (v), 42 U.S.C. Sections 6961, 6928(h), 6924(u) and (v), Executive Order 12580 and the DERP.

II. DEFINITIONS

Except as noted below or otherwise explicitly stated, the definitions provided in CERCLA and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) shall control the meaning of terms used in this Agreement.

2.1 "Accelerated Operable Unit" or "AOU" shall mean a remedial action, which prevents, controls, or responds to a release or threatened release of hazardous substances, pollutants, and contaminants where prompt action is necessary, but a response under removal authorities is not appropriate or desirable. The purpose of an AOU is to allow the Parties to proceed with a remedial action for that Operable Unit prior to completion of the final Record of Decision (ROD) for the total remedial action. AOU's are particularly appropriate where the size and complexity of the total remedial action would seriously delay implementation of independent parts of the action. AOU's will only proceed after complying with applicable procedures in the NCP, and the Parties shall make every effort to expedite these procedures. It is not intended that AOU's diminish the requirements for or delay the conduct of a total remedial action.

2.2 "Agreement" shall refer to this document and shall include all Appendices to this document. All such Appendices are integral parts of this Agreement and shall be enforceable to the extent provided herein.

2.3 "Applicable Massachusetts/Commonwealth law" shall mean all Commonwealth of Massachusetts laws administered by the Massachusetts Department of Environmental Protection determined to be applicable under this Agreement. The term shall include all Commonwealth laws determined to be Applicable or Relevant and Appropriate Requirements (ARARs).

2.4 "Applicable or Relevant and Appropriate Requirements" or "ARARs" shall mean "legally applicable" or "relevant and appropriate" requirements, standards, criteria or limitations, as those terms are used in Section 121 of CERCLA, 42 U.S.C. Section 9621, and as defined in the NCP.

2.5 "Air Force" shall mean the United States Department of the Air Force, including Hanscom Air Force Base, their employees, members, successors and authorized representatives, and assigns. The Air Force shall also include the United States Department of Defense (DoD) to the extent necessary to effectuate the terms of the Agreement, including, but not limited to, appropriations and Congressional reporting requirements

2.6 "CERCLA" shall mean the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, 42 U.S.C. Section 9601 et seq., as amended by the Superfund

Amendments and Reauthorization Act of 1986, (SARA) Public Law No. 99-499, and any amendments thereto.

2.7 “Community Relations” shall mean the program to inform and involve the public in the installation restoration, CERCLA and RCRA processes and to respond to community concerns. “Commonwealth” shall mean the Commonwealth of Massachusetts, including all departments, offices, and agencies thereof, as represented by the Massachusetts Department of Environmental Protection.

2.8 “Days” shall mean calendar days, unless business days are specified. Any submittal, written statement of position, or written statement of dispute, which, under the terms of this Agreement, would be due on a Saturday, Sunday, Federal or Commonwealth holiday shall be due on the following business day.

2.9 “Deadlines” shall mean the Near Term Milestones specifically established for the current fiscal year under the Site Management Plan. Deadlines are subject to stipulated penalties in accordance with Section XXI – STIPULATED PENALTIES.

2.10 “Deliverable Documents” shall mean those required documents listed as Primary and Secondary Documents under this Agreement.

2.11 “Documents” or “records” shall mean any documents, writings, correspondence, and all other tangible things on which information has been stored that relates to this Agreement or to any activities to be undertaken relating to this Agreement.

2.12 “EPA” or “U.S. EPA” or “Agency” shall mean the United States Environmental Protection Agency, its employees, agents, authorized representatives, successors and assigns.

2.13 “Facility” shall mean that property owned by the United States and operated by the U.S. Department of the Air Force in Bedford, Concord, Lexington, and Lincoln, Massachusetts, known as Hanscom Air Force Base consisting of approximately 826 acres. “Facility” shall also include Installation Restoration Program (IRP) Sites 1, 2, 3, and 4 on approximately 641 acres currently owned by the Commonwealth of Massachusetts known as L.G. Hanscom Field and operated by the Air Force from 1942 to 1974. The Air Force conducted flight operations on those 641 acres from 1942 to 1973 and leased them from the Commonwealth of Massachusetts from 1951 to 1974. This definition is for the purpose of describing a geographical area as identified on the map attached as Appendix A to this Agreement and not a governmental entity.

2.14 “Fiscal year” shall mean the time period used by the United States Government for budget management and commences on October 1 and ends on September 30 of the following calendar year.

2.15 “Focused Feasibility Study” or “FFS” shall mean a comparison of alternatives, which concentrates on a particular contaminated medium or a discrete portion of the Site that does not need added investigation in order to progress forward in the remedial process.

- 2.16 “Guidance” shall mean any requirements or policy directives issued by EPA that are of general application to environmental matters and which are otherwise applicable to the Air Force’s work under this Agreement.
- 2.17 “Hanscom Air Force Base” shall mean Hanscom Air Force Base located in Massachusetts.
- 2.18 “Interim Remedial Action” shall mean all discrete Remedial Actions, including, but not limited to, Accelerated Operable Units (AOUs), implemented prior to a final Remedial Action that are taken to prevent or minimize the release of hazardous substances, pollutants, or contaminants.
- 2.19 “Land Use Controls” or “LUCs” shall mean any restriction or administrative action, including engineering and institutional controls, arising from the need to reduce risk to human health and the environment.
- 2.20 “MassDEP” shall mean the Massachusetts Department of Environmental Protection and its authorized employees and its authorized representatives.
- 2.21 “Milestones” shall mean the dates established by the Parties in the Site Management Plan for the initiation or completion of Primary Actions and the submission of Primary Documents and Project End Dates. Milestones shall include Near Term Milestones, Out Year Milestones, Primary Actions, and Project End Dates.
- 2.22 “National Contingency Plan” or “NCP” shall mean the National Oil and Hazardous Substances Pollution Contingency Plan, 40 C.F.R. Part 300, and any amendment thereto.
- 2.23 “Near Term Milestones” shall mean the Milestones within the current fiscal year (FY), the next fiscal year or “budget year” (FY+1), and the year for which the budget is being developed or “planning year” (FY+2).
- 2.24 “On-site” shall have the meaning as defined in the NCP.
- 2.25 “Operable Unit” or “OU” shall mean a discrete action that comprises an incremental step toward comprehensively remediating the Site. This discrete portion of a remedial response manages migration, or eliminates or mitigates a release, threat of release, or pathway of exposure related to the Site. Operable Units may address geographical portions of the Site, specific Site problems, or initial phases of an action, or may consist of any set of actions performed over time or any actions that are concurrent but located in different parts of the Site. The cleanup of the Site can be divided into a number of Operable Units, depending on the complexity of the problems associated with the Site. The term “Operable Unit” is not intended to refer to the term “operating unit” as used in RCRA. All Operable Units shall be addressed in accordance with the NCP, EPA Guidance and the requirements of CERCLA.

2.26 “Out Year Milestones” shall mean the Milestones within those years occurring after the planning year until the completion of the cleanup or phase of the cleanup (FY+3 through Project End Date).

2.27 “Parties” shall mean the Air Force and EPA.

2.28 “Primary Actions” as used in these definitions shall mean those specified major, discrete actions that the Parties identify as such in the Site Management Plan. The Parties should identify all major, discrete actions for which there are sufficient information to be confident that the date for taking such action is implementable.

2.29 “Project End Dates” shall mean the dates established by the Parties in the Site Management Plan for the completion of major portions of the cleanup or completion of the cleanup of the facility. The Parties recognize that, in many cases, a higher degree of flexibility is appropriate with Project End Dates due to uncertainties associated with establishing such dates.

2.30 “Project Manager” shall mean each person designated by the Parties to represent that Party’s interests and manage all response actions undertaken at the Site.

2.31 “RCRA” shall mean the Resource Conservation and Recovery Act, 42 U.S.C. Section 6901 et seq., as amended by the Hazardous and Solid Waste Amendments of 1984, (HSWA), Public Law No. 98-616, and any amendments thereto.

2.32 “Record(s) of Decision” or “ROD(s)” shall be the public document(s) that select(s) and explain(s) which cleanup alternative(s) will be implemented at the Site, and includes the basis for the selection of such remedy(ies). The bases include, but are not limited to, information and technical analyses generated during the RI/FS and consideration of public comments and community concerns.

2.33 “Schedule” shall mean a timetable or plan that indicates the time and sequence of events.

2.34 “Site” shall include areas within the Facility, and any other areas, where a hazardous substance, hazardous waste, hazardous constituent, pollutant, or contaminant from the Facility has been deposited, stored, disposed of, or placed, or has migrated or otherwise come to be located. The Site is a “facility” within the meaning of Section 101(9) of CERCLA, 42 U.S.C. Section 9601(9). This definition is not intended to include hazardous substances or wastes intentionally transported from the Facility by motor vehicle.

2.35 “Site Management Plan” or “SMP” shall mean a planning document entitled “Hanscom Air Force Base, Massachusetts Site Management Plan,” prepared specifically under Section XI – DEADLINES AND CONTENTS OF SITE MANAGEMENT PLAN, which contains timetables, plans, or Schedules that indicate the times and sequences of events. The Site Management Plan will be used as a management tool in planning, reviewing and setting priorities for all response activities at the facility. Milestones developed under the terms of this Agreement are listed in the SMP. Deadlines listed in the SMP are subject to stipulated penalties in accordance with Section XXI – STIPULATED PENALTIES.

2.36 "Solid Waste Management Unit" or "SWMU", as defined pursuant to RCRA, shall mean any discernible unit at which solid wastes have been placed at any time, irrespective of whether the unit was intended for the management of solid and/or hazardous waste. Such units include any area at a facility at which solid wastes have been routinely and systematically released.

2.37 "Target Dates" shall mean dates established for the completion and transmission of Secondary Documents. Target Dates are not subject to dispute resolution and they are not Milestones.

2.38 "Transmit" shall mean the following: any document or notice to be transmitted by a certain date will be considered as transmitted on time if: (1) it is provided to the carrier on a next day mail basis no later than the day before it is due to be delivered according to the requirements of this Agreement; (2) it is hand-delivered by the due date; (3) it is sent by certified mail return receipt requested no later than two days before it is due to be delivered according to the requirements of this Agreement. Any other means of transmission must arrive on or before the due date to be considered as timely delivered.

2.39 "Work" shall mean all activities the Air Force is required to perform under this Agreement, except those required by Section XXXI – RECORD PRESERVATION.

III. PARTIES BOUND

3.1 This Agreement shall apply to and be binding upon EPA and the Air Force. The Air Force agrees to include the notices required by Section 120(h) of CERCLA in any contract for the sale or transfer of real property affected by this Agreement. Transfer or conveyance of any interest in real property affected by this Subsection 3.1 shall not relieve the Air Force of its applicable obligations under this Agreement.

3.2 The Air Force shall notify EPA of the identity and assigned tasks of each of its contractors performing Work under this Agreement upon their selection and contract award. The Air Force shall provide copies of this Agreement to all contractors performing any Work called for by this Agreement. Each Party shall be responsible for ensuring that its contractors comply with the terms and conditions of this Agreement.

3.3 This Section shall not be construed as an agreement to indemnify any person.

IV. PURPOSE

4.1 The general purposes of this Agreement are to:

4.1.1 Ensure that the environmental impacts associated with past and present activities at the Site are thoroughly investigated and appropriate remedial action taken as necessary to protect the public health, welfare and the environment;

4.1.2 Establish a procedural framework and Schedule for developing, implementing and monitoring appropriate response actions at the Site in accordance with CERCLA, as amended by SARA, the NCP, Superfund Guidance and policy, RCRA, RCRA Guidance and policy, and applicable Massachusetts law; and

4.1.3 Facilitate cooperation, exchange of information and participation of the Parties in such actions.

4.2 Specifically, the purposes of this Agreement are to:

4.2.1 Identify interim remedial action (IRA) alternatives, which are appropriate at the Site prior to the implementation of final remedial actions(s) for the Site. The IRA alternatives shall be identified and proposed to the Parties as early as possible prior to formal proposal of IRAs to EPA pursuant to CERCLA and applicable Massachusetts law. This process is designed to promote cooperation among the Parties in identifying IRA alternatives prior to selection of final IRAs.

4.2.2 Establish requirements for the performance of a RI to determine fully the nature and extent of the threat to the public health or welfare or the environment caused by the release and threatened release of hazardous substances, pollutants or contaminants at the Site and to establish requirements for the performance of a FS for the Site to identify, evaluate and select alternatives for the appropriate remedial action(s) to prevent, mitigate, or abate the release or threatened release of hazardous substances, pollutants or contaminants at the Site in accordance with CERCLA and applicable Massachusetts law.

4.2.3 Identify the nature, objective and Schedule of response actions to be taken at the Site. Response actions at the Site shall attain that degree of cleanup of hazardous substances, pollutants or contaminants mandated by CERCLA and applicable Massachusetts law;

4.2.4 Implement the selected interim remedial and final remedial action(s) in accordance with CERCLA and applicable Massachusetts law and meet the requirements of CERCLA Section 120(e)(2) for an interagency agreement among the Parties.

4.2.5 Ensure compliance, through this Agreement, with RCRA and other Federal and Massachusetts hazardous waste laws and regulations for matters covered herein.

4.2.6 Coordinate response actions at the Site with the mission and support activities at Hanscom Air Force Base.

4.2.7 Expedite the cleanup process to the extent consistent with protection of human health and the environment.

4.2.8 Provide for operation and maintenance of any remedial action selected and implemented pursuant to this Agreement.

V. SCOPE OF AGREEMENT

5.1 This Agreement is entered into by the Parties to enable the Air Force to meet the provisions of CERCLA, 42 U.S.C. Section 9601 et seq., and RCRA Sections 3004(u) and (v) and 3008(h), as amended, 42 U.S.C. Sections 6924(u) and (v) and 6928(h).

5.2 This Agreement is intended to cover the investigation, development, selection, and implementation of response actions for releases or threatened releases of hazardous substances, contaminants, hazardous wastes, hazardous constituents, or pollutants at or from the Site. This Agreement covers all phases of remediation for these releases, bringing together into one agreement the requirements for remediation as well as the system the Parties will use to determine and accomplish remediation, ensuring the necessary and proper level of participation by each Party. Although all such releases at the Site are not currently known, the Agreement establishes the system for dealing with those undiscovered releases. To accomplish remediation of those undiscovered releases, the Parties will establish Schedules and Deadlines as necessary and as information becomes available and, if required, amend this Agreement as needed.

5.3 This Agreement is intended to address and satisfy any of Hanscom Air Force Base's RCRA corrective action obligations, which relate to the release(s) of hazardous substances, hazardous wastes, hazardous constituents, pollutants, or contaminants at or from all areas addressed under future corrective action permits. This Agreement is not intended to limit any requirements under RCRA or any other law or regulation to obtain permits, and is not intended to affect the treatment, storage, or disposal by Hanscom Air Force Base of hazardous wastes. This Agreement is not intended to encompass response to spills of hazardous substances from ongoing operations unless those spills occur in conjunction with CERCLA removal actions or remedial actions pursuant to this Agreement.

5.4 The scope of this Agreement extends to the entire Site, as listed in the Federal Register proposing the Site for the National Priorities List (NPL) and as provided for in this Agreement. A release at the Site cannot be deleted from the NPL unless it is determined, in accordance with CERCLA, the NCP, and this Agreement, that the Air Force has implemented all appropriate response actions for such release, and that the release at the Site no longer poses a threat to human health or the environment. All response actions at the Site shall occur in discrete locations termed MMRP Sites or Operable Units (OUs) identified at the Site pursuant to this Agreement.

5.5 Any response action in progress on the Effective Date of this Agreement shall be subject to the obligations and procedures of this Agreement.

5.6 The Parties agree to expedite the initiation of response actions at the Site, including Accelerated Operable Units (AOUs) and interim response actions, and to carry out all activities under this Agreement so as to protect the public health, welfare and the environment. Upon request, the Parties agree to provide applicable Guidance or reasonable assistance in obtaining such Guidance relevant to the implementation of this Agreement.

VI. FINDINGS OF FACT

6.1 For purposes of this Agreement, the following constitutes a summary of the findings upon which this Agreement is based. Nothing contained in this Agreement shall constitute an admission of any liability by the Air Force for any matters contained herein nor shall anything in this Agreement constitute an admission by the Air Force with respect to any finding of fact or any legal determination noted herein. The primary source of information contained in this section is the "Third Five-Year Review Report for the Hanscom Field/Hanscom Air Force Base Superfund Site, Bedford, Concord, Lexington and Lincoln, Middlesex County Massachusetts" dated August 2007 and prepared by the 66th Mission Support Group/Civil Engineering, Hanscom Air Force Base, Massachusetts.

6.2 Hanscom Field/Hanscom Air Force Base was placed on the National Priorities List (NPL) on May 31, 1994, 59 Fed. Reg. 27989.

6.3 As of the effective date of this Agreement, Hanscom Air Force Base consists of approximately 826 acres of real property and the structures thereon and is owned and operated by the Air Force. From 1942 to 1974, Hanscom Air Force Base additionally comprised approximately 641 acres that are owned by the Commonwealth of Massachusetts and, as of the effective date of this Agreement, operated by the Massachusetts Port Authority (Massport) and the Federal Aviation Administration (FAA) as a full-service General Aviation airport known as L.G. Hanscom Field. The Air Force used these 641 acres as an airfield, conducting flight operations on them from 1942 to 1973 and leasing them from 1951 to 1974.

6.4 The site that Hanscom Field/Hanscom Air Force Base now occupies was initially established by the Commonwealth of Massachusetts in 1941 as the auxiliary Boston-Bedford Airport. Military occupation of the area began in 1942 with the activation of the 79th Pursuit Unit and the arrival of P-40 fighter aircraft. From 1942 to 1973, the Air Force conducted flight operations and serviced/repaired a variety of aircraft. In 1951, the 6250th Test Support Wing was activated to operate aircraft in support of electronics systems under development at MIT Lincoln Laboratory. In 1961, the Air Force Electronics Systems Division of the Air Force Systems Command was formed at Hanscom Air Force Base, and electronics-oriented systems development and testing operations were expanded. In 1974, the Airfield reverted to Commonwealth control when the lease permitting Air Force operation and maintenance of the airfield was canceled due to termination of Air Force flight operations in 1973. In 1992, an Air Force reorganization established the Electronic Systems Center (ESC) at Hanscom Air Force Base as part of the Air Force Materiel Command (AFMC).

6.5 As of the effective date of this Agreement, Hanscom Air Force Base's mission is to support the ESC, the Air Force's acquisition and development center for world class command and control systems. The ESC, the 66th Air Base Wing (base support and operations personnel), the Air Force Research Laboratory, MIT Lincoln Laboratory, and MITRE Corporation have personnel assigned to projects at Hanscom Air Force Base. There is substantial civilian contractor support presence at Hanscom Air Force Base. In addition, military personnel and their families are housed on the base.

6.6 In 1982, Roy F. Weston, Inc. was retained by Hanscom Air Force Base to conduct a hydrogeologic investigation at Hanscom Field to identify environmental impacts associated with historic Air Force waste disposal activities and to assess the potential for groundwater contamination at the Town of Bedford's Hartwell Road well field as related to past waste disposal activities at Hanscom Field.

6.7 In 1984, the Air Force completed an installation assessment and records search to determine potential contaminant sources on both the Air Force property and on the Commonwealth-owned Hanscom Field. Thirteen IRP sites were initially identified that potentially contained environmental contamination. Subsequently, the list was expanded to 22 IRP sites and one IRP Area of Concern (AOC) located on the Hanscom Field/Hanscom Air Force Base complex.

6.9 In 1988, the Air Force completed investigations and prepared Remedial Action Plans for five IRP sites on Hanscom Field. Also, in 1988, interim actions including the removal of buried drums and/or contaminated soil were completed at the three high-risk Hanscom Field sites (IRP Sites 1, 2 and 3) and a final Remedial Action was performed (impervious cap) at IRP Site 4, the former Hanscom Air Force Base municipal waste landfill. Also in 1988, an interim action was completed, and in 1989, a final Remedial Action was completed, for a mercury release site on Hanscom Air Force Base (IRP Site 10). The Air Force conducted all of these actions under the oversight of the Massachusetts Department of Environmental Quality Engineering (now the Massachusetts Department of Environmental Protection (MassDEP)).

6.10 In 1991, the Air Force commenced operation of a groundwater collection, treatment and recharge system to remove contaminants from the Hanscom Field groundwater. This system included four boundary interceptor wells to contain contaminated groundwater on-site. Subsequently, this groundwater remediation system has been augmented with additional on-site recovery wells, both conventional pumping wells and vacuum enhanced recovery (VER) wells and the area of groundwater contamination designated as Operable Unit 1 (OU-1).

6.11 In June 1993 a Technical Review Committee (TRC) was formed and in November 1994 the TRC was converted to a Restoration Advisory Board (RAB).

6.12 In 1995, a CERCLA Removal Action (dual-phase groundwater extraction and soil vapor extraction system) commenced to remediate petroleum releases associated with the former aviation fuel handling and storage facilities on Hanscom Air Force Base (IRP Site 21).

6.13 In 1996, the OU-1 groundwater remediation system was automated which allowed for unmanned operations/reduction in O&M staffing.

6.14 In August 1996, in order to determine the magnitude and extent of any residual soil contamination at the confirmed OU-1 source areas (IRP Sites 1, 2 & 3), Hanscom Air Force Base partnered with EPA and Tufts University on a soil-sampling program. For Hanscom the purpose of the soil sampling and analysis was to determine if residual soil contamination warranted additional remedial efforts. The results of this soil sampling and analysis are provided in CH2M Hills Final Report dated 19 January 1998, entitled OU-1 Field Report, Hanscom Air Force Base.

For EPA and Tufts the soil sampling and analysis program was part of EPA's Environmental Technology Initiative (ETI). This ETI project was the demonstration of a dynamic site investigation using Adaptive Sampling and Analysis with the goal of demonstrating the capability of field analytical technologies in the context of producing data of sufficient quality to support remedial decisions in a cost-effective manner. EPA published the results of this effort as EPA document EPA-542-R-98-006, dated September 1998 entitled Innovations in Site Characterization, Case Study: Hanscom Air Force Base, Operable Unit 1 (Sites 1, 2 and 3). EPA also published an 18-minute videotape summarizing the project which was distributed to all EPA Regions.

6.15 In 1997, EPA-Region I conducted a CERCLA Five-Year Review of the Remedial Action at IRP Site 4, also designated as (OU-2). This review concluded "based on the field inspection, and human health and ecological risk assessment, protectiveness of the landfill cap at Site 4 has been demonstrated."

6.16 In 1997, natural attenuation and monitoring was established as the final remedial action for the Hanscom Air Force Base AAFES Service Station site (IRP Site 22).

6.17 In 1997, an Air Force Center for Engineering and the Environment (AFCEE) Demonstration Project for Vacuum Enhanced Recovery (VER) at IRP Site 1 commenced. Following completion of the demonstration in 1999 the VER system was incorporated as a component of the OU-1 groundwater remediation system.

6.18 In 1999, natural attenuation and monitoring was established as the final remedial action for the Hanscom Air Force Base Motor Pool site (IRP Site 13).

6.19 In 2000, IRP AOC-1 was identified at the site of a new Hanscom Air Force Base commissary. Subsequently a Massachusetts Contingency Plan (MCP) Release Abatement Measure (RAM) was completed and a Class A-2 (No Further Action) Response Action Outcome Statement was issued to close-out IRP AOC-1, New Commissary Site.

6.20 In 2000, separate Technical Documents to Support No Further Action were finalized for IRP Site 14 and 15 on Hanscom Air Force Base. Regulatory concurrence with these were received in 2001 to Close-out IRP Sites 14 and 15.

6.21 In 2000, a DoD Technology Demonstration Project commenced for the In-Situ Substrate Addition to Create Reactive Zones for Treatment of Chlorinated Aliphatic Hydrocarbons. Hanscom Air Force Base was one of the Installations selected for this demonstration. The active treatment phase of this demonstration was from October 2000 to October 2002. 1,250 gallons of raw blackstrap molasses was injected in the on-site lower aquifer plume emanating for IRP Site 1. The results of the demonstration were used to develop a protocol for the use of the technology at DoD facilities.

6.22 In 2001, a Record of Decision dated September 2000 selecting the final remedy for Operable Unit 3/IRP Site 6 (the former filter bed/landfill site on Hanscom Air Force Base) was finalized.

- 6.23 In 2001, an Interim Record of Decision dated November 2000 was finalized for Operable Unit 1 (IRP Sites 1, 2 and 3 on Hanscom Field). This IROD documented the selected remedy as “continued operation of the existing dynamic groundwater collection and treatment system, institutional controls and monitoring”.
- 6.24 In 2001, the Operable Unit 1 IROD also provided regulatory concurrence with previously issued Decision Documents to Close-Out IRP Sites 5 and 20 on Hanscom Field.
- 6.25 In 2001, the remedial design and the construction of the final remedy was completed for the former filter bed/landfill site (IRP Site 6) and the long-term maintenance and monitoring of the site commenced.
- 6.26 In June 2001, a permanganate injection pilot study commenced at the IRP Site 1 VER area to compare cost effectiveness of this technology to VER technology. Three injections of permanganate totaling 3,300 pounds were injected between June and October 2001 followed by a 12 month evaluation phase. Results indicate that, while the permanganate was effective, VER would be a most cost effective technology at this site until the VER effectiveness decreases.
- 6.27 In 2001, regulatory concurrence with previously issued Decision Documents was received to Close-Out IRP Sites 8, 16, 17, and 18 on Hanscom Air Force Base and IRP Site 19 on Hanscom Field.
- 6.28 In 2002, a Record of Decision dated October 2001 selecting the final remedy for Operable Unit 3/IRP Site 21 (the former aviation fueling facility site) was finalized and a FY 2002 Military Construction Program contract was awarded for the design and construction of the final remedy at IRP Site 21.
- 6.29 In 2002, the Second Five-Year Review of the Hanscom Field/Hanscom Air Force Base Superfund Site was completed by the in-house IRP staff. The review report, which was approved by the Air Force in September 2002, concludes that the remedies placed/programmed for NPL OU-1/IRP Sites 1, 2 and 3; NPL OU-2/IRP Site 4; NPL OU-3/IRP Site 6; and NPL OU-3/IRP Site 21 remain protective of human health and the environment.
- 6.30 In 2002, IT Corporation’s Licensed Site Professional completed a MCP Periodic Evaluation (5-year review) of the on-going remedial actions at IRP Sites 13 and 22 (monitored natural attenuation). This review recommended continued monitoring of both sites.
- 6.31 In 2003, the remedial design and construction of the final remedy was completed at the former aviation fueling facility site (IRP Site 21) and the long-term operation, maintenance and monitoring of the site commenced. This also is the final remedy required to be put in place at the installation.
- 6.32 In 2003, the final remedy at the AAFES Service Station site (IRP Site 22) was converted to “enhanced” natural attenuation and monitoring by the installation of a 3-well iSOCÔ (in-situ Submerged Oxygen Curtain) system.

6.33 The Department of Defense has established the Military Munitions Response Program (MMRP) under the Defense Environmental Restoration Program (DERP) to address sites with unexploded ordnance (UXO), discarded military munitions (DMM), and munitions constituents (MC) located on non-operational (e.g., closed, transferred or transferring) range lands. In 2005 Air Force updated its MMRP inventory and no Air Force MMRP sites were identified at Hanscom Field/Hanscom Air Force Base during the inventory development.

6.34 Between August 2006 and August 2007 the operation of the IRP Site 1 VER system was again suspended for the duration of an additional permanganate treatment of the Site 1 source/VER area.

6.35 In 2007, the Second Five-Year Review of the Hanscom Field/Hanscom Air Force Base Superfund Site was completed by the in-house IRP staff. The review report, submitted by the Air Force in September 2007 and approved by USEPA, concludes that the remedies in place for NPL OU-1/IRP Sites 1, 2 and 3; NPL OU-2/IRP Site 4; NPL OU-3/IRP Site 6; and NPL OU-3/IRP Site 21 are protective of human health and the environment, and in the interim, exposure pathways that could result in unacceptable risks are being controlled.

6.36 In 2007, Shaw Environmental's Licensed Site Professional completed a MCP Periodic Evaluation (5-year review) of the on-going remedial actions at IRP Sites 13 and 22 (monitored natural attenuation). This review recommended continued monitoring of both sites.

6.37 In 2007, a Focused Groundwater Flow and Transport Model, Focused Feasibility Study, Proposed Plan and Final Record of Decision for NPL Operable Unit 1, Hanscom Field/Hanscom Air Force Base were finalized. This ROD converted the November 2000 IROD to a Final ROD and documented the selected remedy as continued operation of the existing dynamic groundwater collection and treatment system, land use controls (LUCs), including institutional controls (ICs) and monitoring.

6.38 Following the designation of Hanscom Field/Hanscom Air Force Base as a NPL Site in 1994 USEPA reviewed the listing of all of Hanscom Air Force Base's IRP sites to identify those subject to CERCLA or not subject to CERCLA because of the CERCLA petroleum exclusion clause. Of the 22 individual Hanscom Air Force Base IRP sites and 1 IRP Area of Concern with known or suspected contamination, 6 were determined to require to be investigated and remediated in accordance with CERCLA, the NCP and applicable EPA Guidance and are the subject of this Agreement. These 6 IRP sites have been grouped into the following three NPL Operable Units and as noted above all have final remedies in place:

Operable Unit 1

- IRP Site 1 Fire Training Area II
- IRP Site 2 Paint Waste Disposal Area
- IRP Site 3 Jet Fuel Residue/Tank Sludge Disposal Area

Operable Unit 2

- IRP Site 4 Sanitary Landfill

Operable Unit 3

- IRP Site 6 Landfill/Former Filter Beds
- IRP Site 21 Unit 1 Petroleum Release Site

The locations of these three Operable Units are identified on the map attached as Appendix A to this Agreement.

6.39 IRP sites identified as not subject to CERCLA because they involved only petroleum contamination include IRP Sites 9, 11, 12, 13, 14, 15, 16, 17, 18 and 22 and IRP Area of Concern No. 1. Please note that non-CERCLA/petroleum sites are investigated and remediated in accordance with Massachusetts General Laws Chapter 21E and the MCP, 310 CMR 40.000 with regulatory oversight by the MassDEP.

6.40 Several additional IRP sites have been eliminated from further investigation and remediation under CERCLA. These include IRP Site 10 due to the fact that there was no remaining contamination and IRP Site 19 because it was determined to be a rock outcrop. In addition, upon review of the files, EPA concurs that no further action is required for IRP Site 5, 7 and 20, and following the completion of groundwater sampling and analysis EPA concurs that no further action is required for IRP Site 8. Thus, EPA concurs with the Air Force's Decision Documents for IRP Sites 5, 7, 8, 10, 19 and 20 which were issued prior to the date of this Agreement. EPA agrees that those six sites may be considered "Closed Out."

6.41 Appendix C is a listing of Operable Units and Installation Restoration Program Sites with a completed Proposed Plan and Record of Decision and an On-going Completed Remedial Action; Appendix D is a listing of IRP Sites Being Addressed under the MCP; and Appendix E is a listing of No Further Action Sites.

6.42 The Department of Health and Human Service's Agency for Toxic Substances and Disease Registry (ATSDR) conducted its initial site visit to Hanscom Air Force Base in 1994 during which ATSDR determined that no imminent public health hazards existed. An ATSDR's visit is a requirement of Hanscom Air Force Base being placed on EPA's NPL. Subsequently in April 2003, ATSDR revisited the Hanscom Field/Hanscom Air Force Base NPL Site to begin a Public Health Assessment (PHA) for Hanscom Field/Hanscom Air Force Base. The "For Public Comment" PHA was dated April 12, 2004 and final PHA was dated April 22, 2004 which concluded that "Overall, HF/HAFB poses no public health hazard."

6.43 A Community Relations Plan for Hanscom Air Force Base was developed in 1999. The plan identified issues of community concern and described the community relations program to be implemented throughout the cleanup process at Hanscom Air Force Base. Community residents, elected officials and local environmental groups were interviewed to document their concerns on restorations issues.

6.44 The Hanscom Air Force Base IRP Administrative Record was established early in the 1980s. The IRP Administrative Record has all the Guidance, correspondence and documents

that were used to make a remedial decision at an IRP site. The IRP Administrative Record is maintained at the Hanscom Air Force Base Environmental Office and Project/Document Specific Information Repositories (IR) have been established in the local Towns' Libraries for the duration of public review and comment periods. The index of the documents in the IRP Administrative Record is attached as Appendix G to this Agreement.

VII. EPA DETERMINATIONS

7.1 The following constitutes a summary of the determinations relied upon by EPA to establish its jurisdiction and authority to enter into this Agreement. None of these determinations shall be considered admissions to any person, related or unrelated to this Agreement, for purposes other than determining the basis of this Agreement or establishing the jurisdiction and authority of the Parties to enter into this Agreement.

7.2 The United States Department of the Air Force is a "person" as defined in Section 101(21) of CERCLA, 42 U.S.C. Section 9601(21).

7.3 Hanscom Air Force Base is a "facility" as defined by Section 101(9) of CERCLA, 42 U.S.C. Section 9601(9), and 10 U.S.C. Section 2701 *et seq.*, and is subject to the Defense Environmental Restoration Program.

7.4 The United States is the owner and operator of Hanscom Air Force Base as defined in Sections 101(20) and 107(a)(1) of CERCLA, 42 U.S.C. Sections 9601(20) and 9607(a)(1). The Air Force is the DoD component charged with fulfilling the obligations of the owner/operator under CERCLA at Hanscom Air Force Base. With respect to Hanscom Air Force Base, the Secretary of Defense has delegated to the Air Force the CERCLA authority vested in him by Executive Order 12580. The Air Force is also the "lead agency," as defined in 40 C.F.R. § 300.5, for planning and implementing response actions under CERCLA at Hanscom Air Force Base.

7.5 There has been a release or a substantial threat of a release of hazardous substances, pollutants, contaminants, hazardous wastes or constituents at or from the Facility.

7.6 The actions provided for in this Agreement are not inconsistent with the NCP.

7.7 The actions provided for in this Agreement are necessary to protect the public health, welfare, and the environment.

7.8 This Agreement provides for the expeditious completion of all necessary response actions.

VIII. STATUTORY COMPLIANCE/RCRA-CERCLA INTEGRATION

8.1 The Parties intend to integrate the Air Force's CERCLA response obligations and RCRA corrective action obligations which relate to the release(s) of hazardous substances, hazardous wastes, pollutants or contaminants covered by this Agreement into this comprehensive Agreement. Therefore, the Parties intend that activities covered by this Agreement will be deemed to achieve compliance with CERCLA, 42 U.S.C. Section 9601 *et seq.*; to satisfy the corrective action requirements of RCRA Sections 3004(u) and (v), 42 U.S.C. Sections 6924(u) and (v), for a RCRA permit, and RCRA Section 3008(h), 42 U.S.C. Section 6928(h), for interim status facilities; and to meet or exceed all applicable or relevant and appropriate Federal and Commonwealth laws and regulations, to the extent required by CERCLA Section 121, 42 U.S.C. Section 9621 and applicable Massachusetts law.

8.2 Based upon the foregoing, the Parties intend that any remedial action selected, implemented and completed under this Agreement will be deemed by the Parties to be protective of human health and the environment such that remediation of releases covered by this Agreement shall obviate the need for further corrective action under RCRA (i.e., no further corrective action shall be required). The Parties agree that, with respect to releases of hazardous waste covered by this Agreement, RCRA shall be considered an applicable or relevant and appropriate requirement pursuant to CERCLA Section 121, 42 U.S.C. Section 9621.

8.3 The Parties recognize that the requirement to obtain permits for response actions undertaken pursuant to this Agreement shall be as provided for in CERCLA and the NCP. The Parties further recognize that ongoing hazardous waste management activities at Hanscom Air Force Base may require the issuance of permits under Federal and Massachusetts laws. This Agreement does not affect the requirements, if any, to obtain such permits. However, if a permit is issued to Hanscom Air Force Base for ongoing hazardous waste management activities at the Site, U.S. EPA shall reference and incorporate any appropriate provisions, including appropriate schedules (and the provision for extension of such schedules), of this Agreement into such permit. With respect to those portions of this Agreement incorporated by reference into permits, the Parties intend that judicial review of the incorporated portions shall, to the extent authorized by law, only be reviewed under the provisions of CERCLA.

8.4 Nothing in this Agreement shall alter the Air Force's authority with respect to removal actions conducted pursuant to CERCLA Section 104, 42 U.S.C. Section 9604.

IX. WORK TO BE PERFORMED

9.1 The Parties recognize that background information exists and has been reviewed prior to developing the Work Plans required by this Agreement. The Air Force need not halt currently ongoing work but may be obligated to modify or supplement work previously done to meet the requirements of this Agreement. It is the intent of the Parties to this Agreement that work done and data generated prior to the Effective Date of this Agreement be retained and utilized as elements of the RI/FS to the maximum extent feasible. The Air Force will pay for or perform any CERCLA response action, or portion thereof, required due to a release or threatened release of hazardous substances, pollutants, or contaminants attributable to actions undertaken by the Air

Force or to any event that may have occurred affecting the real property during the period of control by the Air Force.

9.2 Operable Units

9.2.1 The Air Force shall develop, implement and report on Remedial Investigations and Feasibility Studies (RI/FSs) for the Operable Units listed in Appendix B and new Operable Units established under Subsection 9.2.2. If an Operable Unit is modified under Subsection 9.2.3, and RI/FS work is appropriate for the modified Operable Unit, then the Air Force shall develop, implement and report on a RI/FS for the modified Operable Unit.

9.2.2 Any Party may propose that a new site within the facility be designated as an Operable Unit. The proposal must be in writing to the other Party and must state the reasons for designating a new Operable Unit. The proposal shall be discussed by all Project Managers within forty-five (45) days of the written notice. Dispute Resolution may be invoked if the Parties are not in agreement on the proposal of a specific Operable Unit. If Dispute Resolution is not invoked by the Parties within thirty (30) days after completion of the Project Managers' discussion concerning the proposal, or if the need for an Operable Unit is established through Dispute Resolution, the proposed new site shall be an Operable Unit, as that term is defined in Section II – DEFINITIONS of this Agreement.

9.2.3 A Party may propose that an established Operable Unit be modified. The proposal must be in writing to the other Party, and must state the reasons for the modification. The proposal shall be discussed by the Project Managers within forty-five (45) days of the written notice. Dispute Resolution may be invoked if the Parties are not in agreement on the proposal to modify a specific Operable Unit. If Dispute Resolution is not invoked within thirty (30) days after the Project Managers' discussion concerning the modification, or if the need for modifying an Operable Unit is established through Dispute Resolution, the Operable Unit, as defined in Section II – DEFINITIONS, shall be modified.

9.2.4 In the Site Management Plan, the Air Force shall include a Schedule and Milestone(s) for submitting RI/FS Work Plan(s) for the Operable Units in Appendix A, except for those Operable Units for which RI/FS Work Plans have already been submitted. When a new Operable Unit is established under Subsection 9.2.2, the Air Force shall, in the next draft amendment to the Site Management Plan, propose a Milestone for submitting of a RI/FS Work Plan for the new Operable Unit. When an Operable Unit is modified under Subsection 9.2.3, and RI/FS work is appropriate for the modified Operable Unit, the Air Force shall, in the next draft amendment to the Site Management Plan, propose a Milestone for submitting a RI/FS Work Plan for the modified Operable Unit. The RI/FS Work Plan(s) shall contain proposed Schedules and Milestone(s) for the submittal of the RI/FS Report(s). The Schedule(s) and Milestone(s) included in the Final RI/FS Work Plan(s) shall be incorporated into the Site Management Plan in accordance with Section XI – DEADLINES AND CONTENTS OF SITE MANAGEMENT PLAN of this Agreement. The development of the FS(s) will proceed in accordance with Subsection 9.2.7 of this Agreement.

9.2.5 For those Sites that the Parties determine represent a negligible or minimal risk and are strong candidates for no action, the Air Force shall submit a FS statement indicating negligible or minimal risks were found and no action is warranted. If the Parties determine that no action is required, a no-action Proposed Plan will be prepared. A Schedule for completing a no-action Proposed Plan will be developed in accordance with Section XI – DEADLINES AND CONTENTS OF SITE MANAGEMENT PLAN of this Agreement.

9.2.6 RIs shall be conducted in accordance with the requirements and Schedules set forth in the approved RI/FS Work Plan(s) and Site Management Plan. RIs shall meet the purposes set forth in Section IV – PURPOSE, of this Agreement. A Baseline Risk Assessment shall be a component of the RIs. Final Site clean-up level criteria will only be determined following completion of the Baseline Risk Assessment.

9.2.7 The Air Force agrees it shall develop, implement and report upon a FS for areas subject to a RI. The FS shall be conducted in accordance with the requirements and Schedules set forth in the Site Management Plan. The FS shall meet the purposes set forth in Section IV – PURPOSE of this Agreement.

9.3 Procedures for Interim Remedial Actions

9.3.1 The Air Force shall implement those Interim Remedial Actions (IRA) necessary to prevent, minimize, or eliminate risks to human health and the environment caused by the release of hazardous substances, pollutants, or contaminants. An Interim Remedial Action is identified, proposed, and implemented prior to a final Remedial Action. An IRA shall attain ARARs to the extent required by CERCLA or the NCP and be consistent with, and contribute to, the efficient performance of a final Remedial Action(s) taken at an area or Operable Unit. An IRA must be protective of human health and the environment, and comply with CERCLA, the NCP, and Commonwealth laws to the extent that they are legally applicable, or relevant and appropriate requirements in accordance with Section 121 of CERCLA, and this Agreement.

9.3.2 When a Party to this Agreement determines that an Interim Remedial Action is necessary for any area(s) within the Facility, such Party shall notify, in writing, the other Party, of the proposal. The Proposal Notification to the other Party under this Subsection 9.3.2 shall at a minimum include the location(s) of such area(s) within the Facility and the reason(s) the Party believes an Interim Remedial Action is required. Any Party may propose an IRA for those Operable Unit(s) most suitable for an Interim Remedial Action.

9.3.3 Within thirty (30) days of notification, any Party may request a meeting of the Party to assist in expediting the decision to proceed with an IRA. If a dispute(s) arises over whether to address such an area(s) under this Agreement that cannot be settled between the Parties within thirty (30) days from completion of the meeting, the dispute(s) shall be immediately brought to the Dispute Resolution Committee (DRC) pursuant to Section XX – DISPUTE RESOLUTION.

9.3.4 After the determination that an Interim Remedial Action is required under this Agreement, the Air Force shall, in the next draft amended Site Management Plan, submit to EPA and MassDEP proposed Milestone(s) for the submission of Work Plan(s) for the performance of

a Focused Feasibility Study (FFS) for the identified area(s). The Milestone(s) will be finalized in accordance with Section XI – DEADLINES AND CONTENTS OF SITE MANAGEMENT PLAN. The Schedule and Milestone(s) included in the approved, final FFS Work Plan will immediately be incorporated in the Site Management Plan. The FFS shall include a limited number of proposed Interim Remedial Action alternatives. To the extent possible, the FFS shall provide an assessment of the degree to which these alternatives were analyzed during their development and screening. The Air Force shall develop, implement, and report upon each FFS in accordance with the requirements set forth in the final FFS Work Plan. The Air Force shall follow the steps outlined in Subsections 9.4.2 through 9.7.4 below.

9.4 Records of Decision and Plans for Remedial Action

9.4.1 This Subsection 9.4 shall apply to selection of remedial actions and any disputes relating thereto.

9.4.2 Within forty-five (45) days after finalization of a RI/FS or FFS, the Air Force shall submit a draft Proposed Plan to EPA for review and comment as described in Section X – CONSULTATION. Within fourteen (14) days after receiving EPA's acceptance of the Proposed Plan, the Air Force shall publish its Proposed Plan for thirty (30) days of public review and comment. During the public comment period, the Air Force shall make the Proposed Plan and supporting analysis and information available to the public in the Administrative Record. The Air Force shall hold a public information meeting during the public comment period to discuss the preferred alternative for each Remedial Action. Copies of all written and oral public comments received will be provided to the Parties. Public review and comment shall be conducted in accordance with Section 117(a) of CERCLA, 42 U.S.C. Section 9617(a), and applicable EPA Guidance.

9.4.3 Following public comment, the Air Force, in consultation with EPA and MassDEP, will determine if the Proposed Plan should be modified based on the comments received. These modifications will be made by the Air Force and the modified documents will be provided to EPA. The Parties may recommend that additional public comment be solicited if modifications to the Proposed Plan substantially change the remedy originally proposed to the public. The determination concerning whether a Proposed Plan should be modified or whether additional public comment is necessary is subject to the dispute resolution provisions of this Agreement, Section XX – DISPUTE RESOLUTION.

9.4.4 The Air Force shall submit its draft ROD to EPA and MassDEP within forty-five (45) days following the close of the public comment period, including any extensions, on the Proposed Plan. The draft ROD will include a Responsiveness Summary, in accordance with applicable EPA Guidance. Pursuant to CERCLA Section 120(e)(4)(A), 42 U.S.C. Section 9620(e)(4)(A), EPA and the Air Force, in consultation with MassDEP, shall make the final selection of the remedial action(s).

9.4.5 The selection of a remedy that does not attain a legally applicable or relevant and appropriate standard, requirement, criteria or limitation is one basis on which MassDEP may determine not to concur with a final remedial action plan. In accordance with CERCLA Section

121(f)(3)(A), 42 U.S.C. Section 9621(f)(3)(A), at least thirty (30) days prior to the publication of the Air Force's final remedial action plan, if the Air Force proposes to select a remedial action that does not attain a legally applicable or relevant and appropriate standard, requirement, criteria or limitation, the Air Force shall provide an opportunity for MassDEP to concur or not concur in the selection of such plan. If MassDEP concurs or does not act within thirty (30) days of receipt of notification by the Air Force of pending publication of the final remedial action plan, the remedial action may proceed. If MassDEP does not concur, it may act pursuant to Section 121(f)(3)(B) of CERCLA, 42 U.S.C. Section 9621(f)(3)(B).

9.4.6 If EPA and the Air Force are unable to reach agreement on the selection of the remedy, after exhausting the Dispute Resolution process set forth in Section XX – DISPUTE RESOLUTION, then the Administrator shall select the remedy in accordance with all applicable laws and procedures.

9.4.7 Notice of the final ROD shall be published by the Party preparing it and shall be made available to the public prior to commencement of the remedial action, in accordance with Section 117(b) of CERCLA, 42 U.S.C. Section 9617(b). The final ROD shall include a statement that the MassDEP has concurred or not concurred with the selection of the remedy.

9.5 Remedial Design and Remedial Action

9.5.1 The Site Management Plan shall include a Target Date for submission of a preliminary/conceptual Remedial Design (RD) (30 percent design report); a Target Date for submission of the 90 percent or pre-final Remedial Design; and a Deadline for the final Remedial Design. All design documents shall be prepared in accordance with this Agreement and applicable Guidance issued by EPA including *Principles and Procedures for Specifying Monitoring and Enforcement of Land Use Controls and Other Post-ROD Actions (as amended)*.

9.5.1.1 The RD shall provide the appropriate plans and specifications describing the intended remedial construction and shall include provisions necessary to ensure that the remedial action will achieve ARARs and performance standards identified in the ROD.

9.5.1.2 The RD shall describe short and long-term implementation actions, and responsibilities for the actions, to ensure long-term viability of the remedy, which may include both Land Use Controls and an engineered portion (e.g., landfill caps, treatment systems) of the remedy. The term "implementation actions" includes all actions to implement, operate, maintain, and enforce the remedy.

9.5.2 The Remedial Action (RA) Work Plan(s) shall at a minimum contain a Schedule for the completion of the Remedial Action, a Health and Safety Plan, a Sampling and Analysis Plan, and a Quality Assurance Project Plan, Remedial Action Specifications, Erosion Control and Sedimentation Plan, Decontamination Plan, Remedial Action Contingency Plan, and provisions for operation and maintenance, if necessary. The Schedule contained in the final RA Work Plan(s) will be immediately incorporated in the Site Management Plan.

9.5.3 After the final design document is approved, pursuant to Section X – CONSULTATION, the Air Force shall begin performance of the Remedial Action in accordance with the ROD, final Remedial Design and the RA Work Plan. The Remedial Action shall be completed in accordance with the ROD, approved final Remedial Design and RA Work Plan and all applicable EPA Guidance.

9.5.4 Following completion of remedial action at each Operable Unit (OU) or IRP Site and in accordance with the Schedule in the Site Management Plan, the Air Force shall prepare and submit to EPA a Remedial Action Completion Report (RACR) to show that remedial action objectives for an OU have been achieved. The RACR shall provide an explanation for any activities that were not conducted in accordance with the final Remedial Design and/or RA Work Plan(s). In addition, for long-term remedies where it is anticipated that remedial action objectives will be achieved over a long period, the Air Force shall submit to EPA according to the Schedule in the Site Management Plan, a RACR which shall document that physical construction is complete and the unit is operating as designed. The RACR(s) shall be prepared in accordance with this Agreement and the DoD and EPA Joint Guidance for Recommended Streamlined Site Closeout and NPL Deletion Process for DoD Facilities (2006).

9.6 Accelerated Operable Unit

9.6.1 Accelerated Operable Units (AOUs), as defined in Section II – DEFINITIONS, will follow a streamlined remedial process as set forth below. Any Party may propose in writing that an Operable Unit (OU) be conducted as an AOU. The Party proposing an AOU shall be responsible for drafting an AOU proposal, which shall clearly define the purpose, scope and goals of the AOU. The Air Force shall evaluate all proposed AOUs.

9.6.2 Within thirty (30) days of notification, any Party may request a meeting of the Party to assist in expediting selection of an AOU. If dispute resolution is not invoked within thirty (30) days following receipt of a proposal for an AOU by the Parties, or thirty (30) days after the meeting, or if the need for an AOU is established through Section XX – DISPUTE RESOLUTION, the proposed AOU shall be incorporated into the Site Management Plan as an AOU. The Air Force agrees to pursue additional funding within ten (10) days of establishment of the AOU in order to initiate the AOU.

9.6.3 Within fifteen (15) days after the determination that an AOU is required under this Agreement, the Air Force shall submit to EPA proposed Deadlines for the submission of Work Plan(s) for the performance of an AOU Focused Feasibility Study (FFS) for the identified AOU(s). Each AOU FFS Work Plan shall contain a proposed Deadline for submittal of the AOU FFS and Proposed Plan, which will be incorporated in the next Site Management Plan. The Air Force shall develop, implement and report upon each AOU FFS in accordance with the requirements set forth in the final AOU FFS Work Plan. The Air Force shall follow the steps outlined in Subsections 9.4.2 through 9.5.4.

9.7 Supplemental Response Action

9.7.1 The Parties recognize that subsequent to finalization of a ROD, a need may arise for one or more supplemental response actions to remedy continuing or additional releases or threats of releases of hazardous substances, pollutants, or contaminants at or from the Site. If such release or threat of release may present an immediate threat to public health or welfare or the environment, it shall be addressed pursuant to Section XVIII – REMOVAL AND EMERGENCY ACTIONS. If such release or threat of release does not present an immediate threat to public health or welfare or the environment, it shall be addressed pursuant to Subsections 9.7.2 through 9.8.2.

9.7.2 A supplemental response action shall be undertaken only when:

9.7.2.1 A determination is made that:

9.7.2.1.1 As a result of the release or threat of release of a hazardous substance, pollutant, or contaminant at or from the Site, an additional response action is necessary and appropriate to ensure the protection of human health or the environment; or,

9.7.2.1.2 There is or has been a release of hazardous waste or hazardous constituents into the environment and corrective response action is necessary to protect human health or the environment; and,

9.7.2.2 Either of the following conditions is met for any determination made pursuant to Subsection 9.7.2.1, above:

9.7.2.2.1 For supplemental response actions proposed after finalization of the ROD, but prior to EPA Certification, the determination must be based upon conditions at the Site that were unknown at the time of finalization of the ROD or based upon new information received in whole or in part by EPA following finalization of the ROD; or

9.7.2.2.2 For supplemental response actions proposed after EPA Certification, the determination must be based upon conditions at the Site that were unknown at the time of EPA Certification or based upon new information received in whole or in part by EPA following EPA Certification.

9.7.3 If, subsequent to ROD signature, any Party concludes that a supplemental response action is necessary, based on the criteria set forth in Subsection 9.7.2, such Party shall promptly notify the others of its conclusion in writing. The notification shall specify the nature of the modification needed and the new information on which it is based. The Project Managers shall confer and attempt to reach consensus on the need for such an action within thirty (30) days of receiving such notification. If the Project Managers fail to reach consensus, any Party may notify the other Party in writing within ten (10) days thereafter that it intends to invoke dispute resolution. If the Project Managers are still unable to reach consensus within fourteen (14) days of the issuance of notice invoking dispute resolution, the question of the need for the supplemental response action shall be resolved through dispute resolution.

9.7.4 If the Project Managers agree, or if it is determined through dispute resolution, that a supplemental response action is needed based on the criteria set forth in Subsection 9.7.2, the Air Force shall propose a Deadline for submittal of the Supplemental Work Plan(s) and a Schedule for performance of the Work there under to EPA in the next draft amended SMP.

9.7.5 After finalization of a Supplemental Work Plan, the Air Force shall conduct a Supplemental Response Action RI/FS. Following finalization of the Supplemental Response Action RI/FS, the procedures described in Subsections 9.4 and 9.5 shall be followed.

9.8 Construction Completion and Site Completion.

9.8.1 Construction Completion. The Air Force agrees that it shall provide written notice to EPA when physical construction of all remedial actions for all Operable Units and IRP Sites is complete and will incorporate in the notice reference to the supporting RACRs.

9.8.2 Site Completion. Following completion of remedial action at the last Operable Unit or IRP Site and in accordance with the Schedule in the Site Management Plan, the Air Force shall prepare and submit to EPA a Remedial Action Completion Report (RACR) to show that remedial action objectives for all OUs and IRP Sites have been achieved. The RACR shall provide an explanation for any activities that were not conducted in accordance with the final Remedial Design and/or RA Work Plan(s). The information provided therein shall document compliance with statutory requirements and provide a consolidated record of all remedial activities for all OUs and IRP Sites at the Site in accordance with the DoD and EPA Joint Guidance, Recommended Streamlined Site Closeout and NPL Deletion Process for DoD Facilities. In order for a Site to be eligible for completion, the following criteria must be met:

9.8.2.1 Remedial Action Objectives specified in all RODs have been met, and all cleanup actions and other measures identified in the RODs have been successfully implemented;

9.8.2.2 The constructed remedies are operational and performing according to engineering specifications;

9.8.2.3 The Site is protective of human health and the environment;

9.8.2.4 Land use controls are in place as appropriate; and

9.8.2.5 The only remaining activities, if any, at the site are long term management activities (which may include long-term monitoring).

9.8.3. Information provided for remedial action completion shall be signed by the Air Force's signatory authority or designee, certifying that remedial activities have been completed in full satisfaction of the requirements of this Agreement, and shall include a request for EPA certification of remedial action completion at the Site. Within ninety (90) days of EPA's receipt of the Air Force's request for certification of Site completion, EPA, in consultation with MassDEP shall:

9.8.3.1 Certify that all response actions have been completed at the Site in accordance with CERCLA, the NCP and this Agreement, based on conditions known at the time of certification; or

9.8.3.2 Deny the Air Force's request for certification of Site completion, stating the basis of its denial from the standards identified in 9.8.2 and detailing the additional Work needed for completion and certification.

9.8.3.3 If EPA, in consultation with the MassDEP, denies the Air Force's request for certification for Site completion in accordance with this Agreement, the Air Force may invoke dispute resolution in accordance with Section XX – DISPUTE RESOLUTION of this Agreement within twenty (20) days of receipt of the written denial of certification or determination that additional Work is necessary. If the denial of certification is upheld through the dispute resolution process, the Air Force will perform the requested additional Work.

9.8.3.4 If dispute resolution is not invoked, or if a denial of certification is upheld through dispute resolution, the Air Force shall, in the next draft amended Site Management Plan submitted after receipt of the written denial of certification or dispute resolution finding, propose a Deadline for the submittal of a draft Supplemental Work Plan. The draft Supplemental Work Plan shall contain a Schedule for completion of the additional Work required. This Schedule, once approved, will be incorporated in the Site Management Plan. After performing the additional Work, the Air Force may resubmit a request for certification to EPA as outlined in this Subsection 9.8.3. EPA shall then grant or deny certification pursuant to the process set forth in this Subsection 9.8.3.

X. CONSULTATION

10.1 Review and Comment Process for Draft and Final Documents, Applicability

10.1.1 The provisions of this Section establish the procedures that shall be used by the Parties to provide each other with appropriate notice, review, comment, and response to comments regarding RI/FS and RD/RA documents, specified herein as either Primary or Secondary Documents. In accordance with CERCLA Section 120 and 10 U.S.C. 2705, the Air Force will normally be responsible for issuing Primary and Secondary Documents to EPA. As of the Effective Date of this Agreement, all draft and final reports for any deliverable document identified herein shall be prepared, distributed and subject to dispute in accordance with Subsections 10.2 through 10.10 below.

10.1.2. The designation of a document as "draft" or "final" is solely for purposes of consultation with EPA in accordance with this Section. Such designation does not affect the obligation of the Parties to issue documents, which may be referred to herein as "final," to the public for review and comment as appropriate and as required by law.

10.2 General Process for RI/FS and RD/RA Documents

10.2.1 Primary Documents include those documents that are major, discrete portions of RI/FS or RD/RA activities. Primary Documents are initially issued by the Air Force in draft subject to review and comment by EPA. Following receipt of comments on a particular draft Primary Document, the Air Force will respond to the comments received and issue a draft final Primary Document subject to dispute resolution. The draft final Primary Document will become the final Primary Document upon the earlier of (i) issuance of a "no additional comment letter" by EPA , (ii) thirty days after the period established for review of a draft final primary document if dispute resolution is not invoked, or (iii) modification by decision of the dispute resolution process. No additional comment letters shall state the document is ready for inclusion in the Administrative Record.

10.2.2 Secondary Documents include those reports that are discrete portions of the Primary Documents and are typically input or feeder documents. Secondary Documents are issued by the Air Force in draft, subject to review and comment by EPA. Although the Air Force will respond to comments received, the draft Secondary Documents may be finalized in the context of the corresponding Primary Documents. A Secondary Document may be disputed at the time the corresponding draft final Primary Document is issued.

10.3 Primary Documents

10.3.1 The Air Force shall complete and transmit draft reports for the following Primary Documents to EPA for review and comment in accordance with the provisions of this Section, except that the Site Management Plan shall be reviewed and commented on in accordance with Sections XI – DEADLINES AND CONTENTS OF SITE MANAGEMENT PLAN and XII – BUDGET DEVELOPMENT AND AMENDMENT OF SITE MANAGEMENT PLAN:

- (1) RI/FS and FFS Work Plans including Sampling and Analysis Plan and Quality Assurance Project Plan (QAPP)
- (2) Remedial Investigation Reports (including Risk Assessments for human health and the environment)
- (3) FS and FFS Reports
- (4) Proposed Plans
- (5) Records of Decision
- (6) Final Remedial Designs
- (7) Remedial Action Work Plans
- (8) Remedial Action Completion Reports
- (9) the Site Management Plan and each annual amendment

10.3.2 Only the draft final Primary Documents identified above (and their amendments) shall be subject to dispute resolution. The Air Force shall complete and transmit draft Primary Documents in accordance with the Schedule and Deadlines established in Section XI – DEADLINES AND CONTENTS OF SITE MANAGEMENT PLAN.

10.3.3 Prior to the Effective Date of this Agreement, the Air Force has completed and transmitted to EPA for review and comment the Primary Documents required as of the Effective Date of this Agreement to select and implement the final remedial actions at the following:

- Operable Unit 1 (includes IRP Sites 1, 2 and 3)
- Operable Unit 2/IRP Site 4 – Sanitary Landfill
- Operable Unit 3/IRP Site 6 – Landfill/Former Filter Beds
- Operable Unit 3/IRP Site 21– Unit 1 Petroleum Release Site

In addition, the Air Force has completed and transmitted the Primary Documents to EPA for review and comment that were required as of the Effective Date of this Agreement to “close” IRP Sites 5, 7, 8, 10, 19 and 20.

The above-mentioned Primary Documents are listed in Appendix G to this Agreement.

10.4 Secondary Documents

10.4.1 All Secondary Documents shall be prepared in accordance with the NCP and applicable EPA Guidance. The Air Force shall complete and transmit drafts of the following Secondary Documents to EPA for review and comment in accordance with the provisions of this Section:

- (1) Initial Remedial Action / Data Quality Objectives
- (2) Non-Time-Critical Removal Action Plans (40 C.F.R. Section 300.415(b)(4)(ii))
- (3) Pilot/Treatability Study Work Plans
- (4) Pilot/Treatability Study Reports
- (5) Engineering Evaluation/Cost Analysis Reports
- (6) Preliminary/Conceptual Remedial Designs
- (7) Prefinal Remedial Designs
- (8) Well Closure Methods and Procedures
- (9) Removal Action Memoranda

10.4.2 Although EPA may comment on the draft reports for the Secondary Documents listed above, such documents shall not be subject to dispute resolution except as provided by Subsection 10.2 hereof. Target Dates shall be established for the completion and transmission of draft Secondary Documents pursuant to Section XI – DEADLINES AND CONTENTS OF SITE MANAGEMENT PLAN.

10.5 Meetings of the Project Managers on Development of Documents

10.5.1 The Project Managers shall meet approximately every ninety (90) days, except as otherwise agreed by the Parties, to review and discuss the progress of work being performed at the site and on the Primary and Secondary Documents. Prior to preparing any draft report specified in Subsections 10.3 and 10.4 above, the Project Managers shall meet or confer by telephone to discuss the report results in an effort to reach a common understanding, to the maximum extent practicable, with respect to the results to be presented in the draft report.

10.6 Identification and Determination of Potential ARARs

10.6.1 For those Primary Documents or Secondary Documents that consist of or include ARAR determinations, the Project Managers shall meet prior to the issuance of a draft report, to identify and propose, to the best of their ability, all potential ARARs pertinent to the document being addressed.

10.6.2 The Air Force shall consider any written interpretations of ARARs provided by the MassDEP. Draft ARAR determinations shall be prepared by the Air Force in accordance with CERCLA Section 121(d)(2), the NCP, and pertinent Guidance issued by EPA, that is not inconsistent with CERCLA and the NCP.

10.6.3 In identifying potential ARARs, the Parties recognize that actual ARARs can be identified only on a site-specific basis and that ARARs depend on the specific hazardous substances, pollutants and contaminants at a site, the particular actions proposed as a remedy and the characteristics of a site. The Parties recognize that ARAR identification is necessarily an iterative process and that potential ARARs must be reexamined throughout the RI/FS process until a ROD is issued.

10.7 Review and Comment on Draft Documents

10.7.1 The Air Force shall complete and transmit each draft Primary Document to EPA on or before the corresponding Deadline established for the issuance of the document. The Air Force shall complete and transmit the draft Secondary Document in accordance with the Target Dates established for the issuance of such reports established pursuant to Section XI – DEADLINES AND CONTENTS OF SITE MANAGEMENT PLAN of this Agreement.

10.7.2 Unless the Parties mutually agree to another time period, all draft documents, except the Site Management Plan, the prefinal Remedial Design and the final Remedial Design, shall be subject to a sixty (60) day period for review and comment. The Site Management Plan shall be reviewed and commented on in accordance with Section XII – BUDGET DEVELOPMENT

AND AMENDMENT OF SITE MANAGEMENT PLAN or as agreed to by the Parties. The Parties recognize that time periods for review and comment on the draft Remedial Design and Remedial Action Work Plans may need to be expedited in order for the Air Force to satisfy the requirement of Section 120(e)(2) of CERCLA, 42 U.S.C. Section 9620(e)(2). The prefinal Remedial Design shall be subject to a forty-five (45) day period for review and comment. The final Remedial Design will be subject to a two (2) week period for review and comment by the Parties. If the final Remedial Design differs substantially from the prefinal Remedial Design, EPA may extend the two (2) week review and comment period for an additional two (2) weeks by providing written notice to the Air Force prior to the end of the initial two (2) week comment period. Review of any document by EPA may concern all aspects of the document (including completeness) and should include, but is not limited to, technical evaluation of any aspect of the document, and consistency with CERCLA, the NCP, and any pertinent Guidance or policy promulgated by EPA, and with applicable Massachusetts law. Comments by EPA shall be provided with adequate specificity so that the Air Force may respond to the comment and, if appropriate, make changes to the draft document. Comments shall refer to any pertinent sources of authority or references upon which the comments are based, and, upon request of the Air Force, EPA shall provide a copy of the cited authority or reference. In cases involving complex or unusually lengthy reports, EPA may extend the sixty (60) day comment period for an additional twenty (20) days by written notice to the Air Force prior to the end of the sixty (60) day period. On or before the close of any comment period, EPA shall transmit their written comments to the Air Force.

10.7.3 The review period for documents shall not begin until the submission date specified in the Site Management Plan.

10.7.4 Representatives of the Air Force shall make themselves readily available to EPA during the comment period for purposes of informally responding to questions and comments on draft documents. Oral comments made during such discussions need not be the subject of a written response by the Air Force at the close of the comment period.

10.7.5 In commenting on a draft document that contains a proposed ARAR determination, EPA shall include a reasoned statement of whether they object to any portion of the proposed ARAR determination. To the extent that EPA objects, it shall explain the basis for its objection in detail and shall identify any ARARs which it believes were not properly addressed in the proposed ARAR determination.

10.7.6 Following the close of the comment period for a draft document, the Air Force shall give full consideration to all written comments on the draft document submitted during the comment period. Within sixty (60) days of the close of the comment period on a draft Secondary Document, the Air Force shall transmit to EPA its written response to comments received within the comment period. Within sixty (60) days of the close of the comment period on a Draft Primary Document, the Air Force shall transmit to EPA a Draft Final Primary Document, which shall include the Air Force's response to all written comments received within the comment period. While the resulting draft final document shall be the responsibility of the Air Force, it shall be the product of consensus to the maximum extent possible.

10.7.7 The Air Force may extend the 60-day period for either responding to comments on a draft document or for issuing the draft final Primary Document for an additional twenty (20) days by providing timely notice to EPA. In appropriate circumstances, this time period may be further extended in accordance with Section XIII – EXTENSIONS.

10.8 Availability of Dispute Resolution for draft final Primary Documents:

10.8.1 Dispute resolution shall be available to the Parties for draft final Primary Documents as set forth in Section XX – DISPUTE RESOLUTION.

10.8.2 When dispute resolution is invoked on a draft final Primary Document, Work may be stopped in accordance with the procedures set forth in Section XX – DISPUTE RESOLUTION.

10.9 Finalization of Documents. The draft final Primary Document shall serve as the final Primary Document if no Party invokes dispute resolution regarding the document or, if invoked, at the completion of the dispute resolution process should the Air Force's position be sustained. If the Air Force's determination is not sustained in the dispute resolution process, the Air Force shall prepare, within not more than thirty-five (35) days, a revision of the draft final document, which conforms to the results of dispute resolution. In appropriate circumstances, the time period for this revision period may be extended in accordance with Section XIII – EXTENSIONS.

10.10 Subsequent Modification of Final Document

10.10.1 Following finalization of any Primary Document pursuant to Subsection 10.9 above, any Party to this Agreement may seek to modify the document, including seeking additional field work, pilot studies, computer modeling or other supporting technical work, only as provided in Subsections 10.10.2 and 10.10.3 below.

10.10.2 A Party may seek to modify a document after finalization if it determines, based on new information (i.e., information that became available, or conditions that became known, after the document was finalized) that the requested modification is necessary. A Party may seek such a modification by submitting a concise written request to the Project Managers of the other Party. The request shall specify the nature of the requested modification and how the request is based on new information.

10.10.3 In the event that a consensus is not reached by the Project Managers on the need for a modification, any Party may invoke dispute resolution to determine if such modification shall be conducted. Modification of a document shall be required only upon a showing that:

10.10.3.1 The requested modification is based on significant new information; and

10.10.3.2 The requested modification could be of significant assistance in evaluating impacts on the public health or the environment, in evaluating the selection of remedial alternatives, or in protecting human health and the environment.

10.10.4 Nothing in this Subsection 10.10 shall alter EPA's ability to request the performance of additional work that was not contemplated by this Agreement. The Air Force's obligation to perform such work must be established by either a modification of a report or document or by amendment to this Agreement.

XI. DEADLINES AND CONTENTS OF SITE MANAGEMENT PLAN

11.1 This Agreement establishes a process for creating and amending the Site Management Plan (SMP). Within 30 days of the effective date of this Agreement, the Air Force shall submit a draft SMP to EPA. Once finalized, the SMP will be attached as Appendix F to this Agreement. The SMP and each annual amendment to the SMP shall be Primary Documents. Milestones established in a SMP or established in a final amendment to a SMP remain unchanged unless otherwise agreed to by the Parties or unless directed to be changed pursuant to the agreed dispute resolution process set out in Subsections 12.5 or 12.6. In addition, if an activity is fully funded in the current Fiscal Year, Milestones associated with the performance of Work and submittal of Primary Documents associated with such activity (even if they extend beyond the current Fiscal Year) shall be enforceable.

11.2 The SMP includes proposed actions for both CERCLA responses and actions that would otherwise be handled pursuant to RCRA corrective actions per Section VIII – STATUTORY COMPLIANCE/RCRA-CERCLA INTEGRATION, and outlines all response activities and associated documentation to be undertaken at the Facility. The SMP incorporates all existing Milestones contained in approved Work Plans, and all Milestones approved in future Work Plans immediately become incorporated into the SMP.

11.3 Milestones in the SMP reflect the priorities agreed to by the Parties through a process of "risk, plus other factors" priority setting. Site activities have been prioritized by weighing and balancing a variety of factors including, but not limited to: (i) the DoD relative risk rankings for the Site (DoD Relative Risk Site Evaluation Model for IRP sites or the DoD Munitions Response Site Prioritization Protocol for MMRP sites); (ii) current, planned, or potential uses of the Facility; (iii) ecological impacts; (iv) impacts on human health; (v) intrinsic and future value of affected resources; (vi) cost effectiveness of the proposed activities; (vii) environmental justice considerations; (viii) regulatory requirements; and, (ix) actual and anticipated funding levels. While Milestones should not be driven by budget targets, such targets should be considered when setting Milestones. Furthermore, in setting and modifying Milestones, the Parties agree to make good faith efforts to accommodate Federal Fiscal constraints, which include budget targets established by the Air Force.

11.4 The SMP and its annual amendments include:

11.4.1 A description of actions necessary to mitigate any immediate threat to human health or the environment;

11.4.2 A listing of all currently identified MMRP sites, IRP sites, Operable Units (including Accelerated Operable Units (AOUs)), Interim Remedial Actions, Supplemental Response Actions, and Time-Critical and Non-Time-Critical Removal Actions covered or identified pursuant to this Agreement;

11.4.3 Activities and Schedules for response actions covered by the SMP, including at a minimum:

11.4.3.1 Identification of any Primary Actions;

11.4.3.2 All Deadlines;

11.4.3.3 All Near Term Milestones;

11.4.3.4 All Out Year Milestones;

11.4.3.5 All Target dates;

11.4.3.6 Schedule for initiation of Remedial Designs, Interim Response Actions, Non-Time-Critical Removal Actions, AOUs, and any initiation of other planned response action(s) covered by this Agreement; and

11.4.3.7 All Project End Dates.

11.5 The Air Force shall submit amendments to the SMP on an annual basis as provided in Section XII – BUDGET DEVELOPMENT AND AMENDMENT OF SITE MANAGEMENT PLAN. All amendments to the SMP shall meet all of the requirements set forth in this Section.

11.6 The Milestones established in accordance with this Section and Section XII – BUDGET DEVELOPMENT AND AMENDMENT OF SITE MANAGEMENT PLAN remain the same unless otherwise agreed by the Parties, or unless changed in accordance with the dispute resolution procedures set out in Subsections 12.5 and 12.6. The Parties recognize that possible bases for requests for changes or extensions of the Milestones include but are not limited to: (i) the identification of significant new Site conditions at this installation; (ii) reprioritization of activities under this Agreement caused by changing priorities or new site conditions elsewhere in the Air Force; (iii) reprioritization of activities under this Agreement caused by budget adjustments (e.g., rescissions, inflation adjustments, and reduced Congressional appropriations); (iv) an event of Force Majeure; (v) a delay caused by another Party's failure to meet any requirement of this Agreement; (vi) a delay caused by the good faith invocation of dispute resolution or the initiation of judicial action; (vii) a delay caused, or that is likely to be caused, by the grant of an extension in regard to another timetable and Deadline or Schedule; and (viii) any other event or series of events mutually agreed to by the Parties as constituting good cause.

11.7 The Deadlines established in the SMP and its amendments shall be published by EPA and MassDEP.

XII. BUDGET DEVELOPMENT AND AMENDMENT OF SITE MANAGEMENT PLAN

12.1 The Air Force, as a Federal agency, is subject to fiscal controls, hereinafter referred to as the Future Years Defense Plan (FYDP). The planning, programming, and budgeting process, hereinafter referred to as the Program Objectives Memorandum (POM) process, is used to review total requirements for DoD programs and make appropriate adjustments within the FYDP for each program while adhering to the overall FYDP control. The Parties recognize that the POM process is a multi-year process. The Parties also agree that all Parties should be involved in the full cycle of POM activities as specified in this Agreement. Further, the Parties agree that each Party should consider the factors listed in Subsection 11.3, including Federal fiscal constraints as well as each of the other factors, in their priority-setting decisions. Initial efforts to close any gap between cleanup needs and funding availability shall be focused on the identification and implementation of cost savings.

Facility-Specific Budget Building

12.2 In order to promote effective involvement by the Parties in the POM process, the Parties will meet at the Project Manager level for the purpose of (1) reviewing the FYDP controls; (2) developing a list of requirements/Work to be performed at the Site for inclusion in the Air Force POM process; and, (3) participating in development of the Air Force submission to the proposed President's budget, based on POM decisions for the year currently under consideration. Unless the Parties agree to a different time frame, the Air Force agrees to notify the other Party within ten (10) days of receipt, at the Project Manager level, that budget controls have been received. Unless the Parties agree to a different time frame or agree that a meeting is not necessary, the Parties will meet, at the Project Manager level, within thirty (30) days of receiving such notification to discuss the budget controls. However, this consultation must occur at least ten (10) days prior to the Air Force's initial budget submission to the Air Force Center for Engineering and the Environment (AFCEE). In the event that the Project Managers cannot agree on funding levels required to perform all Work outlined in the SMP, the Parties agree to make reasonable efforts to informally resolve these disagreements, either at the immediate or secondary supervisor level; this would also include discussions, as necessary, with AFCEE. If agreement cannot be reached informally within a reasonable period of time, the Air Force shall resolve the disagreement, if possible with the concurrence of EPA, and notify EPA. If EPA does not concur in the resolution, the Air Force will forward through AFCEE to the Air Force Headquarters its budget request with the views of EPA not in agreement and also inform Air Force Headquarters of the possibility of future enforcement action should the money requested not be sufficient to perform the Work subject to disagreement. In addition, if the Air Force's budget submission to AFCEE relating to the terms and conditions of this Agreement does not include sufficient funds to complete all Work in the existing SMP, such budget submission shall include supplemental reports that fully disclose the Work required by the existing SMP, but not included in the budget request due to fiscal controls (e.g., a projected budget shortfall). These supplemental reports shall accompany the cleanup budget that the Air Force submits through its higher Headquarters levels until the budget shortfall has been satisfied. If the budget shortfall is not satisfied, the supplemental reports shall be included in the Air Force's budget submission to the DoD Comptroller. The Deputy Under Secretary of Defense (Installations and Environment) shall receive information copies of any supplemental reports submitted to the DoD Comptroller.

Air Force Budget for Clean Up Activities

12.3 The Air Force shall forward to EPA documentation of the budget requests (and any supplemental reports) for the Site, as submitted by the Air Force to AFCEE, and by AFCEE to the Air Force Headquarters, within 14 days after the submittal of such documentation to the Air Force Headquarters by AFCEE. If the Air Force proposes a budget request relating to the terms and conditions of this Agreement that impacts other installations, discussions with other affected EPA Regions and states regarding the proposed budget request need to take place.

Amended SMP

12.4 No later than June 15 of each year after the initial adoption of the SMP, the Air Force shall submit to EPA a draft amendment to the SMP. When formulating the draft amendment to the SMP, the Air Force shall consider funding circumstances (including OMB targets/guidance) and "risk plus other factors" outlined in Subsection 11.3 to evaluate whether the previously agreed upon Milestones should change. Prior to proposing changes to Milestones in its annual amendment to the SMP, the Air Force will first offer to meet with EPA to discuss the proposed changes. The Parties will attempt to agree on Milestones before the Air Force submits its annual amendment by June 15, but failure to agree on such proposed changes does not modify the June 15 date, unless agreed on by all the Parties. Any proposed extensions or other changes to Milestones must be explained in a cover letter to the draft amendment to the SMP. The draft amendment to the SMP should reflect any agreements made by the Parties during the POM process outlined in this Section. Resolution of any disagreement over adjustment of Milestones pursuant to this Subsection shall be resolved pursuant to Subsection 12.5.

12.5.1 The Parties shall meet as necessary to discuss the draft amendment to the SMP. The Parties shall use the consultation process contained in Section X – CONSULTATION, except that none of the Parties will have the right to use the extension provisions provided therein and comments on the draft amendment will be due to the Air Force no later than 30 days after receipt by EPA of the draft amendment. If EPA provides comments and is not satisfied with the draft amendment during this comment period, the Parties shall meet to discuss the comments within 15 days of the Air Force's receipt of comments on the draft amendment. The draft final amendment to the SMP will be due from the Air Force no later than 30 days after the end of the EPA comment period. During this second 30-day time period, the Air Force will, as appropriate, make revisions and re-issue a revised draft herein referred to as the draft final amendment. To the extent that Section X – CONSULTATION contains time periods differing from these 30 day periods, this provision will control for consultation on the amendment to the SMP.

12.5.2.1 If the Air Force proposes, in the draft final amendment to the SMP, modifications of Milestones to which EPA has not agreed, those proposed modifications shall be treated as a request by the Air Force for an extension. Milestones may be extended during the SMP review process by following Subsections 12.4 through 12.7. All other extensions will be governed by Section XIII – EXTENSIONS. The time period for EPA to respond to the request for extension will begin on the date EPA receives the draft final amendment to the SMP, and EPA shall advise the Air Force in writing of its position on the request within thirty days. If EPA approves of the

Air Force's draft final amendment, the document shall then await finalization in accordance with Subsections 12.5.3 and 12.6. If EPA denies the request for extension, then the Air Force may amend the SMP in conformance with EPA comments or seek and obtain a determination through the dispute resolution process established in Section XX – DISPUTE RESOLUTION within 21 days of receipt of notice of denial. Within 21 days of the conclusion of the dispute resolution process, the Air Force shall revise and reissue, as necessary, the draft final amendment to the SMP. If EPA initiates a formal request for a modification to the SMP to which the Air Force does not agree, EPA may initiate dispute resolution as provided in Section XX – DISPUTE RESOLUTION with respect to such proposed modification. In resolving a dispute, the persons or person resolving the dispute shall give full consideration to the bases for changes or extensions of the Milestones referred to in Subsection 11.6 asserted to be present, and the facts and arguments of each of the Parties.

12.5.2.2 Notwithstanding Subsection 12.5.2.1, if the Air Force proposes, in the draft final amendment to the SMP, modifications of Project End Dates which are intended to reflect the time needed for implementing the remedy selected in the Record of Decision but to which either EPA has not agreed, those proposed modifications shall not be treated as a request by the Air Force for an extension, but consistent with Section XX – DISPUTE RESOLUTION, EPA may initiate dispute resolution with respect to such Project End Date.

12.5.2.3 In any dispute under this Section, the time periods for the standard dispute resolution process contained in Subsections 20.2, 20.5, and 20.6 of Section XX – DISPUTE RESOLUTION shall be reduced by half in regard to such dispute, unless the Parties agree to dispute directly to the SEC level.

12.5.3 The Air Force shall finalize the draft final amendment as a final amendment to the SMP consistent with the mutual consent of EPA, or in the absence of mutual consent, in accordance with the final decision of the dispute resolution process. The draft final amendment to the SMP shall not become final until 21 days after the Air Force receives official notification of Congress's authorization and appropriation of funds if funding is sufficient to complete Work in the draft final SMP or, in the event of a funding shortfall, following the procedures in Subsection 12.6. However, upon approval of the draft final amendment or conclusion of the dispute resolution process, the Parties shall implement the SMP while awaiting official notification of Congress's authorization and appropriation.

Resolving Appropriations Shortfalls

12.6 After authorization and appropriation of funds by Congress and within 21 days after the Air Force has received official notification of the Air Force's allocation based on the current year's Environmental Restoration, Air Force (ER,AF) Account, the Air Force shall determine if planned Work (as outlined in the draft final amendment to the SMP) can be accomplished with the allocated funds. (1) If the allocated funds are sufficient to complete all planned Work for that fiscal year and there are no changes required to the draft final amendment to the SMP, the Air Force shall immediately forward a letter to EPA indicating that the draft final amendment to the SMP has become the final amendment to the SMP. (2) If the Air Force determines within the 21-day period specified above that the allocated funds are not sufficient to accomplish the

planned Work for the Site (an appropriations shortfall), the Air Force shall immediately notify EPA. The Project Managers shall meet within thirty (30) days to determine if planned Work (as outlined in the draft final amendment to the SMP) can be accomplished through: 1) rescoping or rescheduling activities in a manner that does not cause previously agreed upon Near Term Milestones and Out Year Milestones to be missed; or 2) developing and implementing new cost-saving measures. If, during this thirty (30) day discussion period, the Parties determine that rescoping or implementing cost-saving measures are not sufficient to offset the appropriations shortfall such that Near Term Milestones, Out Year Milestones, and Project End Dates should be modified, the Parties shall discuss these changes and develop modified Milestones. Such modifications shall be based on the "Risk Plus Other Factors" prioritization process discussed in Subsection 11.3, and shall be specifically identified by the Air Force. The Air Force shall submit a new draft final amendment to the SMP to EPA within 30 days of the end of the 30 day discussion period. In preparing the revised draft final amendment to the SMP, the Air Force shall give full consideration to EPA input during the 30-day discussion period. If the EPA concurs with the modifications made to the draft final amendment to the SMP, EPA shall notify the Air Force and the revised draft final amendment shall become the final amendment. In the case of modifications of Milestones due to appropriations shortfalls, those proposed modifications shall, for purposes of dispute resolution, be treated as a request by the Air Force for an extension, which request is treated as having been made on the date that EPA receives the new draft final SMP or draft final amendment to the SMP. EPA shall advise the Air Force in writing of its position on the request within 21 days. The Air Force may seek and obtain a determination through the dispute resolution process established in Section XX – DISPUTE RESOLUTION. The Air Force may invoke dispute resolution within fourteen days of receipt of a statement of nonconcurrence with the requested extension. In any dispute concerning modifications under this Section, the Parties will submit the dispute directly to the SEC level, unless the Parties agree to utilize the standard dispute resolution process, in which case the time periods for the dispute resolution process contained in Subsections 20.2, 20.5, and 20.6 of Section XX – DISPUTE RESOLUTION shall be reduced by half in regard to such dispute. Within 21 days after the conclusion of the dispute resolution process, the Air Force shall revise and reissue, as necessary, the final amendment to the SMP.

12.7 It is understood by all Parties that the Air Force will work with EPA to reach consensus on the reprioritization of Work made necessary by any annual appropriations shortfalls or other circumstances as described in Section 12.6. This may also include discussions with other EPA Regions and states with installations affected by the reprioritization; the Parties may participate in any such discussions with other states.

Public Participation

12.8 In addition to any other provision for public participation contained in this Agreement, the development of the SMP, including its annual amendments, shall include participation by members of the public interested in this action. The Air Force must ensure that the opportunity for such public participation is timely; but this Subsection 12.8 shall not be subject to Section XXI – STIPULATED PENALTIES.

12.8.1 The Parties will meet, after seeking the views of the general public, and determine the

most effective means to provide for participation by members of the public interested in this action in the POM process and the development of the SMP and its annual amendments. The "members of the public interested in this action" may be represented by inclusion of a restoration advisory board or technical review committee, if they exist for Hanscom Air Force Base, or by other appropriate means.

12.8.2 The Air Force shall provide timely notification under Section 12.6, regarding allocation of ER,AF, to the members of the public interested in this action.

12.8.3 The Air Force shall provide opportunity for discussion under Sections 12.2, 12.5, 12.6, and 12.7 to the members of the public interested in this action.

12.8.4 The Air Force shall ensure that public participation provided for in this Subsection 12.8 complies with Executive Order 12898, *Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations*.

XIII. EXTENSIONS

13.1 A Schedule, Deadline or Milestone shall be extended upon receipt of a timely request for extension and when good cause exists for the requested extension. Any request for extension by the Air Force shall be submitted in writing and shall specify:

13.1.1 The Deadline or Milestone that is sought to be extended;

13.1.2 The length of the extension sought;

13.1.3 The good cause(s) for the extension; and

13.1.4 Any related Deadline or Milestone that would be affected if the extension were granted.

13.2 Good cause exists for an extension when sought in regard to:

13.2.1 An event of Force Majeure;

13.2.2 A delay caused by another Party's failure to meet any requirement of this Agreement;

13.2.3 A delay caused by the good faith invocation of dispute resolution or the initiation of judicial action;

13.2.4 A delay caused, or which is likely to be caused, by the grant of an extension in regard to another Deadline or Milestone; and

13.2.5 Any other event or series of events mutually agreed to by the Parties as constituting good cause.

13.3 Absent agreement of the Parties with respect to the existence of good cause, the Air Force may seek and obtain a determination through the dispute resolution process that good cause exists.

13.4 Within seven (7) days of receipt of a request for an extension of a Deadline or a Milestone, the other Party shall advise the requesting Party in writing of its position on the request. Any failure by the other Party to respond within the seven (7) day period shall be deemed to constitute concurrence in the request for extension. If a Party does not concur in the requested extension, it shall include in its statement of non-concurrence an explanation of the basis for its position.

13.5 If there is consensus among the Parties that the requested extension is warranted, the Air Force shall extend the affected Deadline or Milestone accordingly. If there is no consensus among the Parties as to whether all or part of the requested extension is warranted, the Deadline or Milestone shall not be extended except in accordance with a determination resulting from the dispute resolution process.

13.6 Within seven (7) days of receipt of a statement of non-concurrence with the requested extension, the Air Force may invoke dispute resolution.

13.7 A timely and good faith request for an extension shall toll any assessment of stipulated penalties or application for judicial enforcement of the affected Deadline or Milestone until a decision is reached on whether the requested extension will be approved. If dispute resolution is invoked and the requested extension is denied, stipulated penalties may be assessed and may accrue from the date of the original Deadline or Milestone. Following the grant of an extension, an assessment of stipulated penalties or an application for judicial enforcement may be sought only to compel compliance with the Deadline or Milestone as most recently extended.

XIV. PROJECT MANAGERS

14.1 On or before the Effective Date of this Agreement, EPA and the Air Force, shall each designate a Project Manager and notify the other Party of the name and address of its Project Manager. The Project Managers shall be responsible for assuring proper implementation of all Work performed under the terms of the Agreement. To the maximum extent practicable, communications between the Air Force and EPA on all documents, including reports, comments and other correspondence concerning the activities performed pursuant to this Agreement, shall be directed through the Project Managers. The Parties may designate an Alternate Project Manager to exercise the authority of the Project Manager in his or her absence.

14.2 The Parties may change their respective Project Managers. Such change shall be accomplished by notifying the other Party, in writing, within five (5) days of the change and prior to the new Project Manager exercising his or her delegated authority.

14.3 The Parties' Project Managers shall meet or confer informally as necessary as provided in Section X – CONSULTATION. Although the Air Force has ultimate responsibility for meeting its respective Deadlines, the EPA Project Manager shall endeavor to assist in this effort by

scheduling meetings to review documents and reports, overseeing the performance of environmental monitoring at the Site, reviewing RI/FS or RD/RA progress, and attempting to resolve disputes informally. At least seven (7) days prior to each scheduled ninety (90) day meeting, the Air Force will provide to the EPA Project Manager a draft agenda and summary of the status of the Work.

14.3.1 These status reports shall include, when applicable:

14.3.1.1 Identification of all data received and not previously provided by the Air Force during the reporting period consistent with the limitations of Subsection 32.1;

14.3.1.2 All activities completed pursuant to this Agreement since the last Project Manager meeting as well as such actions and plans that are scheduled for the upcoming ninety (90) days; and

14.3.1.3 A description of any delays, the reasons for such delays, anticipated delays, concerns over possible timetable implementation or problems that arise in the execution of a Work Plan during the quarter and any steps that were or will be taken to alleviate the delays or problems.

14.3.2 The minutes of each Project Manager meeting will be prepared by the Air Force and will be sent to all Project Managers within twenty-one (21) days after the meeting. Any documents requested during the meeting will be provided in a timely manner, except for those documents for which express notification is required.

14.4 Necessary and appropriate adjustments to a Deadline, Target Date or Milestone may be proposed by any Party. The Party that requested the modification shall prepare a written memorandum detailing the modification and the reasons therefore and shall provide a transmittal in a timely manner prior to the Deadline, Target Date or Milestone to the other Party for signature and return.

14.5 A Project Manager may also recommend and request minor field modifications to the Work performed pursuant to this Agreement, or in techniques, procedures or designs used in carrying out this Agreement. The minor field modifications proposed under this Part must be approved orally by all the Parties' Project Managers to be effective. No such Work modifications can be so implemented if an increase in contract cost will result without the authorization of the Air Force Contracting Officer. If agreement cannot be reached on the proposed additional work or modification to Work, dispute resolution as set forth in Section XX – DISPUTE RESOLUTION, shall be invoked by the Air Force, by submitting a written statement to EPA in accordance with Section XX – DISPUTE RESOLUTION. If all Parties agree to the modification, within five (5) business days following a modification made pursuant to this Section, the Project Manager who requested the modification shall prepare a written transmittal detailing the modification and the reasons therefore and shall provide the transmittal to the other Project Manager for signature and return.

14.6 Modifications of Work not provided for in Subsections 14.4 and 14.5 of this Section must be approved orally by all the Parties' Project Managers to be effective. No such Work

modifications can be so implemented if an increase in contract cost will result without the authorization of the Air Force Contracting Officer. If agreement cannot be reached on the proposed modification to Work, dispute resolution as set forth in Section XX – DISPUTE RESOLUTION, shall be used. If the Parties agree to the modification, within five (5) business days following a modification made pursuant to this Section, the Project Manager who requested the modification shall prepare a transmittal detailing the modification and the reasons therefore and shall provide the transmittal to the other Project Manager for signature and return.

14.7 Each Party's Project Manager shall be responsible for ensuring that all communications received from the other Project Manager is appropriately disseminated to and processed by the Party that each represents.

14.8 The Parties shall transmit Primary and Secondary Documents and all notices required herein by next day mail, hand delivery, electronic transmittal or certified letter to the persons specified in Subsection 14.9 below by the Deadline established under Section XI – DEADLINES AND CONTENTS OF SITE MANAGEMENT PLAN. Time limitations shall commence upon receipt. The Air Force shall provide to EPA a maximum of two (2) hard-copies of each Primary and Secondary Document, in addition to a CD-ROM disk version of each document for all Parties.

14.9 Notice to the individual Parties shall be provided under this Agreement to the following addresses:

14.9.1 For the Air Force: Mr. Thomas W. Best
66 MSG/CEGV
120 Grenier Street
Hanscom Air Force Base, MA 01731-1910

14.9.2 For EPA: Mr. Matthew R. Audet
U.S. Environmental Protection Agency, Region I
1 Congress St. , Suite 1100 (HBT)
Boston, MA 02114-2023

14.10 Nothing in this Section shall be construed to interfere with or alter the internal organization or procedures of a Party, including, without limitation, signature authority.

14.11 The Air Force Project Manager shall represent the Air Force with regard to the day-to-day field activities at the Site. The Air Force Project Manager or other designated representative shall be physically present at the Site or available to observe Work during implementation of all the Work performed at the Site pursuant to this Agreement. The absence of EPA Project Manager from the Site shall not be cause for Work stoppage or delay, unless the Project Managers agree otherwise in writing.

14.12 The authority of the Project Managers shall include, but not be limited to:

14.12.1 Taking samples and ensuring that sampling and other field work is performed in accordance with the terms of any final Work Plans, and Quality Assurance / Quality Control (QA/QC) Plan;

14.12.2 Observing, taking photographs, and making such other reports on the progress of the Work as the Project Managers deem appropriate, subject to the limitations set forth in Section XVI – ACCESS hereof;

14.12.3 Reviewing sampling data, records, files, and documents relevant to the Agreement, subject to the limitations set forth in Section XXXI - RECORD PRESERVATION; and

14.12.4 Determining the form and specific content of the Project Manager meetings.

14.13 If any event occurs or has occurred that may delay or prevent the performance of any obligation under this Agreement, whether or not caused by a Force Majeure event, any Party shall notify by telephone the other Party's Project Manager within three (3) business days of when the Party first became aware that the event might cause a delay. If the Party intends to seek an extension of a Deadline or Schedule because of the event, the procedures of Section XIII – EXTENSIONS, shall apply.

XV. EXEMPTIONS

15.1 The Parties recognize that the President may issue an order, as needed to protect national security interests, regarding response actions at Hanscom Air Force Base, pursuant to Section 120(j) of CERCLA, 42 U.S.C. Section 9620(j). Such an order may exempt Hanscom Air Force Base or any portion thereof from the requirements of CERCLA for a period of time not to exceed one (1) year after the issuance of that order. This order may be renewed. The Air Force shall obtain access to and perform all actions required by this Agreement within all areas inside those portions of Hanscom Air Force Base, which are not the subject of or subject to any such order issued by the President.

XVI. ACCESS

16.1 EPA and/or its representatives shall have the authority to enter the Site at all reasonable times for the purposes consistent with provisions of this Agreement. Such authority shall include, but not be limited to: inspecting records, logs, contracts, and other documents relevant to implementation of this Agreement; reviewing and monitoring the progress of the Air Force, and its contractors, in carrying out the activities under this Agreement; conducting, with prior notice to the Air Force, tests that EPA deems necessary; assessing the need for planning additional remedial response actions at the Site; and verifying data or information submitted to EPA. The Air Force shall honor all reasonable requests for access to the Site made by EPA, upon

presentation of credentials showing the bearer's identification and that he/she is an employee or agent of EPA. The Air Force Project Manager or his/her designee will provide briefing information, coordinate access and escort to restricted or controlled-access areas, arrange for installation passes, and coordinate any other access requests, which arise. The Air Force shall use its best efforts to ensure that conformance with the requirements of this Subsection 16.1 do not delay access.

16.2 The rights granted in Subsections 16.1 and 16.4 to EPA regarding access shall be subject to regulations and statutes, including Hanscom Air Force Base security regulations, as may be necessary to protect national security information ("classified information") as defined in Executive Order 12958, as amended, and comply with Hanscom Air Force Base's health and safety requirements. Such requirements shall not be applied so as to unreasonably hinder EPA from carrying out their responsibilities and authority pursuant to this Agreement.

16.3 The Air Force shall provide an escort whenever EPA requires access to restricted areas of Hanscom Air Force Base for purposes consistent with the provisions of this Agreement. EPA shall provide reasonable notice to the Air Force Project Manager, or his or her designee, to request any necessary escorts for such restricted areas. The Air Force shall not require an escort to any area of this Site unless it is a restricted, controlled-access area. Upon request of EPA, the Air Force shall promptly provide a written list of current restricted or controlled-access areas.

16.4 EPA shall have the right to enter all areas of the Site that are entered by contractors performing Work under this Agreement.

16.5 Upon a denial of any aspect of access, the Air Force shall provide an immediate explanation of the reason for the denial, including reference to the applicable regulations, and upon request, a copy of such regulations. Within forty-eight (48) hours, the Air Force shall provide a written explanation for the denial. To the extent possible, the Air Force shall expeditiously provide a recommendation for accommodating the requested access in an alternate manner.

16.6 The Air Force shall ensure that all response measures, ground water rehabilitation measures and remedial actions of any kind that are undertaken pursuant to this Agreement on any areas that: a) are presently owned by the United States and which are occupied by the Air Force or leased by the Air Force to any other entity; or b) are in any manner under the control of the Air Force or any lessees or agents of the Air Force, shall not be impeded or impaired in any manner by any transfer of title or change in occupancy or any other change in circumstances of such areas.

16.7 Nothing herein shall be construed as limiting EPA's statutory authority for access or information gathering.

XVII. PERMITS

17.1 The Air Force shall be responsible for obtaining all Federal, Commonwealth and local permits, which are necessary for the performance of all Work under this Agreement.

17.2 The Parties recognize that under Sections 121(d) and 121(e)(1) of CERCLA, 42 U.S.C. Sections 9621(d) and 9621(e)(1), and the NCP, portions of the response actions called for by this Agreement and conducted entirely onsite, where such response actions are selected and carried out in accordance with CERCLA, are exempt from the procedural requirement to obtain Federal, Commonwealth, or local permits. All activities must, however, comply with all the applicable or relevant and appropriate Federal and Commonwealth standards, requirements, criteria, or limitations, which would have been included in any such permit.

17.3 When the Air Force proposes a response action, other than an emergency removal action, to be conducted entirely onsite, which in the absence of Section 121(e)(1) of CERCLA, 42 U.S.C. Section 9621(e)(1), and the NCP would require a Federal, Commonwealth or local permit, the Air Force shall include in its Draft ROD or removal memorandum:

17.3.1 Identification of each permit that would otherwise be required;

17.3.2 Identification of the standards, requirements, criteria, or limitations that would need to be met to obtain each such permit; and

17.3.3 An explanation of how the response action proposed will meet the standards, requirements, criteria or limitations identified immediately above.

17.4 Subsection 17.2 above is not intended to relieve the Air Force from the requirement(s) of obtaining a permit whenever it proposes a response action involving the shipment or movement of a hazardous substance, pollutant, or contaminant or hazardous waste off the Site or in any other circumstances where the exemption provided for at Section 121(e)(1) of CERCLA, 42 U.S.C. Section 9621(e)(1), does not apply.

17.5 The Air Force shall notify EPA and MassDEP in writing of any permits required for any off-site activities it plans to undertake as soon as it becomes aware of the requirement. The Air Force shall apply for all such permits and provide EPA and MassDEP with copies of all such permits, applications, and other documents related to the permit process and final permits.

17.6 The Air Force agrees to notify EPA of its intention to propose modifications to this Agreement to obtain conformance with the permit, or lack thereof if a permit or other authorization that is necessary for implementation of this Agreement is not issued, or is issued or renewed in a manner that is materially inconsistent with the requirements of this Agreement. Notification by the Air Force of its intent to propose modifications shall be submitted within sixty (60) days of receipt by the Air Force of notification that: (1) a permit will not be issued; (2) a permit has been issued or reissued; or (3) a final determination with respect to any appeal related to the issuance of a permit has been entered. Within sixty (60) days from the date it submits its notice of intention to propose modifications to this Agreement, the Air Force shall submit to EPA its proposed modifications to this Agreement with an explanation of its reasons in support thereof.

17.7 EPA shall review the Air Force's proposed modifications to this Agreement in accordance with Section XXXVII – AMENDMENT OF AGREEMENT. If the Air Force submits proposed modifications prior to a final determination of any appeal taken on a permit needed to implement this Agreement, EPA may elect to delay review of the proposed modifications until after such final determination is entered.

17.8 During any appeal by any Party of any permit required to implement this Agreement or during review of any proposed modification(s) to the permit, the Air Force shall continue to implement those portions of this Agreement, which can be reasonably implemented independent of final resolution of the permit issue(s) under appeal. However, as to Work that cannot be so implemented, any corresponding Deadline, timetable, or Schedule shall be subject to Section XIII – EXTENSIONS.

17.9 Nothing in this Agreement shall be construed to affect the Air Force's obligation to comply with any RCRA permit(s) that the Facility may already have or will be issued in the future.

XVIII. REMOVAL AND EMERGENCY ACTIONS

18.1 The Air Force shall provide EPA with timely notice of any proposed removal action.

18.2 Nothing in this Agreement shall alter the Air Force's or EPA's authority with respect to removal actions conducted pursuant to Section 104 of CERCLA, 42 U.S.C. Section 9604.

18.3 If during the course of performing the activities required under this Agreement, any Party identifies an actual or a substantial threat of a release of any hazardous substance, pollutant, or contaminant at or from the Site, that Party may propose that the Air Force undertake removal actions to abate the danger and threat that may be posed by such actual or threatened release. All removal actions conducted on Hanscom Air Force Base shall be conducted in a manner consistent with this Agreement, CERCLA, Executive Order 12580, DERP, including provisions for timely notification and consultation with EPA, Commonwealth, and local officials, and the NCP and shall, to the extent practicable, contribute to the efficient performance of any long-term remedial action with respect to the release(s) or threatened release(s) concerned. Prior to determining to undertake such actions, the Air Force shall submit to EPA:

18.3.1 Documentation of the actual or threatened release at or from the Site;

18.3.2 Documentation that the actions proposed will abate the danger and threat that may be posed by release of hazardous substances, pollutants, or contaminants at or from the Site;

18.3.3 Documentation that the action is consistent with the NCP, applicable Massachusetts regulations, and, to the extent practicable, contributes to the efficient performance of any long-term remedial action with respect to the release or threatened release concerned;

18.3.4 Prepare an Engineering Evaluation/Cost Analysis (EE/CA), or its equivalent for a removal action whenever a planning period of at least six months exists before on-site activities

must be initiated (Non-Time Critical Removal Action). The EE/CA shall contain an analysis of removal alternatives for a site. The screening of alternatives shall be based on criteria as provided in CERCLA and the NCP, such as cost, feasibility, and effectiveness.

18.3.5 A Non-Time-Critical Removal Action Plan and Target Date for the proposed action; and

18.3.6 EPA shall expedite all reviews of these proposals to the maximum extent practicable.

18.4 The opportunity for review and comment for proposed removal actions, as stated in Subsection 18.3 above, may not apply if the action is in the nature of an emergency removal taken because a release or threatened release may present an imminent and substantial endangerment to human health or the environment. The Air Force may determine that review and comment, as stated in Subsection 18.3 above, is impractical. However, in the case of an emergency removal action, the Air Force shall provide EPA with oral notice as soon as possible. A written notice shall be transmitted to EPA within forty-eight (48) hours after the Air Force determines that an emergency removal is necessary, which will include any deviations from the oral notice. Within seven (7) days after initiating an emergency removal action, the Air Force shall provide EPA with the written basis (factual, technical and scientific) for such action and any available documents supporting such action. Upon completion of an emergency removal action, the Air Force shall state whether, and to what extent, the emergency removal action varied from the description of the action in the written notice provided pursuant to this Section. Within sixty (60) days of completion of an emergency response action, the Air Force will furnish EPA with a Removal Action Memorandum addressing the information provided in the written notification, whether and to what extent the action varied from the description previously provided, and any other information required by CERCLA or the NCP, and in accordance with EPA Guidance for such actions. Such actions may be conducted at anytime, either before or after the issuance of a ROD.

18.5 If an imminent health hazard or an activity conducted pursuant to this Agreement that is creating a danger to the public health or welfare or the environment is discovered by any Party, the discovering Party will notify the other Parties and the Air Force will take immediate action to promptly notify all appropriate Commonwealth and local agencies, potentially affected persons and officials in accordance with 10 U.S.C. Section 2705(a). The Air Force will expeditiously take appropriate measures to protect all persons affected.

18.6 All activities pursuant to this Agreement will be performed in accordance with the Health and Safety Plan and will be conducted so as to minimize the threat to the surrounding public.

XIX. PERIODIC REVIEW

19.1 Consistent with Section 121(c) of CERCLA, 42 U.S.C. Section 9621(c), Section 300.430(f)(4)(ii) of the NCP, and in accordance with this Agreement, if the selected remedial action results in any hazardous substance, pollutants or contaminants remaining at the Site at levels above that allowing for unlimited use and unrestricted exposure, the Parties shall review the remedial action for each Operable Unit at least every five (5) years after the initiation of the remedial action to assure that human health and the environment are being protected by the

remedial action being implemented. As part of this review, the Air Force shall report the findings of the review to EPA upon its completion. This report, the Periodic Review Assessment Report, shall be submitted to EPA for review and comment. Target Dates shall be established for the completion and transmission of the Periodic Review Assessment Report pursuant to Section XI – DEADLINES AND CONTENTS OF SITE MANAGEMENT PLAN.

19.2 If upon such review it is the conclusion of any of the Parties that additional action or modification of remedial action is appropriate at the Site in accordance with Sections 104 or 106 of CERCLA, 42 U.S.C. Sections 9604 or 9606, the Air Force shall implement such additional or modified action in accordance with Section IX – WORK TO BE PERFORMED.

19.3 Any dispute by the Parties regarding the need for or the scope of additional action or modification to a remedial action shall be resolved under Section XX – DISPUTE RESOLUTION, enforceable hereunder.

19.4 Any additional action or modification agreed upon pursuant to this Section shall be made a part of this Agreement.

19.5 EPA reserves the right to exercise any available authority to seek the performance of additional work that arises from a Periodic Review, pursuant to applicable law.

19.6 The assessment and selection of any additional response actions determined necessary as a result of a Periodic Review shall be in accordance with Subsection 9.7. Except for emergency response actions, which shall be governed by Section XVIII – REMOVAL AND EMERGENCY ACTIONS, such response actions shall be implemented as a supplemental response action in accordance with Subsections 9.7.4 and 9.7.5.

XX. DISPUTE RESOLUTION

20.1 Except as specifically set forth elsewhere in this Agreement, if a dispute arises under this Agreement, the procedures of this Section shall apply. All Parties to this Agreement shall make reasonable efforts to resolve disputes informally at the Project Manager or immediate supervisor level. If resolution cannot be achieved informally, the procedures of this Section shall be implemented to resolve a dispute.

20.2 Within thirty (30) days after: (1) issuance of a draft final Primary Document pursuant to Section X – CONSULTATION; or (2) any action that leads to or generates a dispute, the disputing Party shall submit to the DRC a written statement of dispute setting forth the nature of the dispute, the Work affected by the dispute, the disputing Party's position with respect to the dispute and the technical, legal or factual information the disputing Party is relying upon to support its position.

20.3 Prior to any Party's issuance of a written statement of dispute, the disputing Party shall engage the other Party in informal dispute resolution among the Project Managers and/or their immediate supervisors. During this informal dispute resolution period, the Parties shall meet as many times as are necessary to discuss and attempt resolution of the dispute.

20.4 The Dispute Resolution Committee (DRC) will serve as a forum for resolution of disputes for which agreement has not been reached through informal dispute resolution. The Parties shall each designate one individual and an alternate to serve on the DRC. The individuals designated to serve on the DRC shall be employed at the policy level (Senior Executive Service (SES) or equivalent) or be delegated the authority to participate on the DRC for the purposes of dispute resolution under this Agreement. EPA's representative on the DRC is the Director, Office of Site Remediation and Restoration for EPA Region I. The Air Force's designated member is the Director, Air Force Center for Engineering and the Environment. Written notice of any delegation of authority from the Party's designated representative on the DRC shall be provided to the all other Party pursuant to the procedures of Section XIV – PROJECT MANAGERS.

20.5 Following elevation of a dispute to the DRC, the DRC shall have twenty-one (21) days to resolve unanimously the dispute and issue a written decision signed by all Parties. If the DRC is unable to resolve unanimously the dispute within this twenty-one (21) day period, the written statement of dispute shall be forwarded to the Senior Executive Committee (SEC) for resolution within seven (7) days after the close of the 21-day resolution process.

20.6 The SEC will serve as the forum for resolution of disputes for which agreement has not been reached by the DRC. EPA's representative on the SEC is the Regional Administrator of EPA Region I. The Air Force's representative on the SEC is the Deputy Assistant Secretary of the Air Force (Installations and Environment). The SEC members shall, as appropriate, confer, meet and exert their best efforts to resolve the dispute and issue a written decision signed by all Parties. If unanimous resolution of the dispute is not reached within twenty-one (21) days, the EPA Regional Administrator shall issue a written position on the dispute. The Secretary of the Air Force may, within fourteen (14) days of the Regional Administrator's issuance of EPA's position, issue a written notice elevating the dispute to the Administrator of EPA for resolution in accordance with all applicable laws and procedures. In the event that the Air Force elects not to elevate the dispute to the Administrator within the designated fourteen (14) day escalation period, the party shall be deemed to have agreed with Regional Administrator's written position with respect to the dispute.

20.7 Upon elevation of a dispute to the Administrator of EPA pursuant to Subsection 20.6, the Administrator will review and resolve the dispute within twenty-one (21) days. Upon request, and prior to resolving the dispute, the EPA Administrator shall meet and confer with the Secretary of the Air Force to discuss the issue(s) under dispute. Upon resolution, the Administrator shall provide the Air Force with a written final decision setting forth resolution of the dispute. The duties of the Administrator set forth in this Section shall not be delegated.

20.8 The pendency of any dispute under this Section shall not affect the Air Force's responsibility for timely performance of the Work required by this Agreement, except that the time period for completion of Work affected by such dispute shall be extended for a period of time usually not to exceed the actual time taken to resolve any good faith dispute in accordance with the procedures specified herein. All elements of the Work required by this Agreement that

are not affected by the dispute shall continue to be completed in accordance with the applicable Schedule.

20.9 When dispute resolution is in progress, Work affected by the dispute will immediately be discontinued if the Director of the Office of Site Remediation and Restoration for EPA Region I requests, in writing, that Work related to the dispute be stopped because, in EPA's opinion, such Work is inadequate or defective, and such inadequacy or defect is likely to yield an adverse effect on human health or the environment, or is likely to have a substantial adverse effect on the remedy selection or implementation process. To the extent possible, the Party seeking a Work stoppage shall consult with the other Party prior to initiating a Work stoppage request. After stoppage of Work, if a Party believes that the Work stoppage is inappropriate or may have potential significant adverse impacts, the Party may meet with the Party ordering a Work stoppage to discuss the Work stoppage. Following this meeting, and further consideration of the issues, the EPA Division Director will issue, in writing, a final decision with respect to the Work stoppage. The final written decision of the EPA Division Director may immediately be subjected to formal dispute resolution. Such dispute may be brought directly to either the DRC or the SEC, at the discretion of the Party requesting dispute resolution.

20.10 Within twenty-one (21) days of resolution of a dispute pursuant to the procedures specified in this Section, the Air Force shall incorporate the resolution and final determination into the appropriate plan, Schedule or procedures and proceed to implement this Agreement according to the amended plan, Schedule or procedures.

20.11 Resolution of a dispute pursuant to this Section constitutes a final resolution of any dispute arising under this Agreement. All Parties shall abide by all terms and conditions of any final resolution of dispute obtained pursuant to this Section of this Agreement.

XXI. STIPULATED PENALTIES

21.1 In the event that the Air Force fails to submit a Primary Document, as listed in Section X – CONSULTATION, to EPA pursuant to the appropriate timetable or Deadlines in accordance with the requirements of this Agreement, or fails to comply with a term or condition of this Agreement that relates to an interim or final remedial action, EPA may assess a stipulated penalty against the Air Force. A stipulated penalty may be assessed in an amount not to exceed \$5,000 for the first week (or part thereof), and \$10,000 for each additional week (or part thereof) for which a failure set forth in this Subsection occurs.

21.2 Upon determining that the Air Force has failed in a manner set forth in Subsection 21.1, EPA shall so notify the Air Force in writing. If the failure in question is not already subject to dispute resolution at the time such notice is received, the Air Force shall have fifteen (15) days after receipt of the notice to invoke dispute resolution on the question of whether the failure did in fact occur. The Air Force shall not be liable for the stipulated penalty assessed by EPA if the failure is determined, through the dispute resolution process, not to have occurred. No assessment of a stipulated penalty shall be final until the conclusion of dispute resolution procedures related to the assessment of the stipulated penalty.

21.3 The annual reports required by CERCLA Section 120(e)(5) shall include, with respect to each final assessment of a stipulated penalty against the Air Force under this Agreement, each of the following:

21.3.1 The facility responsible for the failure;

21.3.2 A statement of the facts and circumstances giving rise to the failure;

21.3.3 A statement of any administrative or other corrective action taken, or a statement of why such measures were determined to be inappropriate;

21.3.4 A statement of any additional action taken by or at the facility to prevent recurrence of the same type of failure; and

21.3.5 The total dollar amount of the stipulated penalty assessed for the particular failure.

21.4 In the event that stipulated penalties become payable by the Air Force under this Agreement, the Air Force will seek Congressional approval and authorization to pay such stipulated penalties to the Federal Hazardous Substances Superfund. Stipulated penalties assessed pursuant to this Section shall be payable only in the manner and to the extent expressly provided for in Acts authorizing funds for, and appropriations to, the DoD. Any requirement for the payment of stipulated penalties under this Agreement shall be subject to the availability of funds, and no provision herein shall be interpreted to require the obligation or payment of funds in violation of the Anti-Deficiency Act, 31 U.S.C. Section 1341.

21.5 In no event shall this Section give rise to a stipulated penalty in excess of the amount set forth in CERCLA Section 109.

21.6 This Section shall not affect the Air Force's ability to obtain an extension of a timetable, Deadline or Schedule pursuant to Section XIII – EXTENSIONS.

21.7 Nothing in this Agreement shall be construed to render any officer or employee of the Air Force personally liable for the payment of any stipulated penalty assessed pursuant to this Section.

XXII. FORCE MAJEURE

22.1 A Force Majeure shall mean any event arising from causes beyond the control of the Party that causes a delay in or prevents the performance of any obligation under this Agreement, including but not limited to:

22.1.1 Acts of God;

22.1.2 Fire;

22.1.3 War;

- 22.1.4 Insurrection;
 - 22.1.5 Civil disturbance;
 - 22.1.6 Explosion;
 - 22.1.7 Unanticipated breakage or accident to machinery, equipment or lines of pipe despite reasonably diligent maintenance;
 - 22.1.8 Adverse weather conditions that could not be reasonably anticipated;
 - 22.1.9 Unusual delay in transportation;
 - 22.1.10 Restraint by court order or order of public authority;
 - 22.1.11 Inability to obtain, at reasonable cost and after exercise of reasonable diligence, any necessary authorizations, approvals, permits or licenses due to action or inaction of any governmental agency or authority other than the Air Force;
 - 22.1.12 Delays caused by compliance with applicable statutes or regulations governing contracting, procurement or acquisition procedures, despite the exercise of reasonable diligence; and
 - 22.1.13 Insufficient availability of appropriated funds, if the Air Force shall have made a timely request for such funds as a part of the budgetary process as set forth in Section XXVII – FUNDING.
- 22.2 A Force Majeure shall also include any strike or other labor dispute, whether or not within control of the Parties affected thereby. Force Majeure shall not include increased costs or expenses of response actions, whether or not anticipated at the time such response actions were initiated.

XXIII. ENFORCEABILITY

23.1 The Parties agree that:

23.1.1 Upon the Effective Date of this Agreement, any standard, regulation, condition, requirement or order that has become effective under CERCLA and is incorporated into this Agreement is enforceable by any person pursuant to CERCLA Section 310, and any violation of such standard, regulation, condition, requirement or order will be subject to civil penalties under CERCLA Sections 310(c) and 109;

23.1.2 All timetables and Deadlines associated with the RI/FS shall be enforceable by any person pursuant to CERCLA Section 310, and any violation of such timetables or Deadlines will be subject to civil penalties under CERCLA Sections 310(c) and 109;

23.1.3 All terms and conditions of this Agreement which relate to interim or final remedial actions, including corresponding timetables, Deadlines or Schedules, and all Work associated with the interim or final remedial actions, shall be enforceable by any person pursuant to CERCLA Section 310(c), and any violation of such terms or conditions will be subject to civil penalties under CERCLA Sections 310(c) and 109; and

23.1.4 Any final resolution of a dispute pursuant to Section XX – DISPUTE RESOLUTION that establishes a term, condition, timetable, Deadline or Schedule shall be enforceable by any person pursuant to CERCLA Section 310(c), and any violation of such term, condition, timetable, Deadline or Schedule will be subject to civil penalties under CERCLA Sections 310(c) and 109.

23.2 Nothing in this Agreement shall be construed as authorizing any person to seek judicial review of any action or Work where review is barred by any provision of CERCLA, including CERCLA Section 113(h).

23.3 Nothing in this Agreement shall be construed as a restriction or waiver of any rights EPA may have under CERCLA, including but not limited to any rights under Sections 113, 120, 121 and 310, 42 U.S.C. Sections 9613, 9620, 9621 and 9659. The Air Force does not waive any rights it may have under CERCLA Section 120, SARA Section 211 and Executive Order 12580.

23.4 The Parties agree to exhaust their rights under Section XX – DISPUTE RESOLUTION, prior to exercising any rights to judicial review that they may have.

23.5 The Parties agree that all Parties shall have the right to enforce the terms of this Agreement.

XXIV. OTHER CLAIMS

24.1 Subject to Section VIII – STATUTORY COMPLIANCE/RCRA-CERCLA INTEGRATION, nothing in this Agreement shall restrict the Parties from taking any action under CERCLA, RCRA, Commonwealth law, or other environmental statutes for any matter not specifically part of the Work performed under CERCLA, which is the subject matter of this Agreement.

24.2 Nothing in this Agreement shall constitute or be construed as a bar, or a discharge, or a release, from any claim, cause of action or demand in law or equity by or against any person, firm, partnership, or corporation not a signatory to this Agreement for any liability it may have arising out of, or relating in any way to the generation, storage, treatment, handling, transportation, release, or disposal of any hazardous substances, hazardous waste, pollutants, or contaminants found at, taken to, or taken from the Site.

24.3 This Agreement does not constitute any decision or pre-authorization by EPA of funds under Section 111(a)(2) of CERCLA, 42 U.S.C. Section 9611(a)(2) for any person, agent, contractor or consultant acting for the Air Force.

24.4 EPA shall not be held as a party to any contract entered into by the Air Force to implement the requirements of this Agreement.

24.5 The Air Force shall notify the appropriate Federal and Massachusetts Natural Resource Trustees of potential damages to natural resources resulting from releases or threatened releases under investigation, as required by Section 104(b)(2) of CERCLA, 42 U.S.C. Section 9604(b)(2), and Section 2(e)(2) of Executive Order 12580. Except as provided herein, the Air Force is not released from any liability that it may have pursuant to any provisions of Commonwealth and Federal law, including any claim for damages for destruction of, or loss of, natural resources.

24.6 This Agreement does not bar any claim for:

24.6.1 Natural resources damage assessments, or for damage to natural resources; or

24.6.2 Liability for disposal of any hazardous substances or waste material taken from Hanscom Air Force Base.

XXV. RESERVATION OF RIGHTS

25.1 Notwithstanding anything in this Agreement, EPA may initiate any administrative, legal or equitable remedies available to them, including requiring additional response actions by the Air Force in the event that: (a) conditions previously unknown or undetected by EPA arise or are discovered at the Site; or (b) EPA receives additional information not previously available concerning the premises that they employed in reaching this Agreement; or (c) the implementation of the requirements of this Agreement are no longer protective of public health and the environment; or (d) EPA discovers the presence of conditions on the Site that may constitute an imminent and substantial danger to the public health, welfare, or the environment; or (e) the Air Force fails to meet any of its obligations under this Agreement; or (f) the Air Force fails or refuses to comply with any applicable requirements of CERCLA or RCRA or Commonwealth laws or regulations; or (g) the Air Force, its officers, employees, contractors, or agents falsify information, reports, or data, or make a false representation or statement in a record, report, or document relating to the release of hazardous materials at the Site, and this information affects the determination of whether a remedial action is protective of human health and the environment. For purposes of this Subsection, conditions at the Site and information known to EPA shall include only those conditions and information known as of the date of the relevant response action decision document.

25.2 The Parties agree to exhaust their rights under Section XX – DISPUTE RESOLUTION, prior to exercising any rights to judicial review that they may have.

25.3 The Parties, after exhausting their remedies under this Agreement, reserve any and all rights, including the right to raise or assert any defense they may have under CERCLA, or any other law, where those rights are not inconsistent with the provisions of this Agreement, CERCLA, or the NCP. This Section does not create any right that EPA does not already have under applicable law.

XXVI. PROPERTY TRANSFER

26.1 No change or transfer of any interest in the Facility or any part thereof shall in any way alter the status or responsibility of the Parties under this Agreement. The Air Force agrees to give EPA sixty (60) days notice prior to the sale or transfer by the United States of any title, easement, or other interest in the real property affected by this Agreement. The Air Force agrees to comply with Section 120(h) of CERCLA, 42 U.S.C. Section 9620(h), including the Community Environmental Response Facilitation Act (CERFA), and any additional amendments thereof, and with 40 C.F.R. Part 373, if applicable.

26.2 In accordance with Section 120(h) of CERCLA, 42 U.S.C. Section 9620(h), and 40 C.F.R. Part 373, the Air Force shall include notice of this Agreement in any Host/Tenant Agreement or Memorandum of Understanding that permits any non-Hanscom Air Force Base activity to function as an operator on any portion of the Site.

XXVII. FUNDING

27.1 It is the expectation of the Parties to this Agreement that all obligations of the Air Force arising under this Agreement will be fully funded. The Air Force agrees to seek sufficient funding through its budgetary process to fulfill its obligations under this Agreement.

27.2 In accordance with CERCLA Section 120(e)(5)(B), 42 U.S.C. Section 9620(e)(5)(B), the Air Force shall submit to DoD for inclusion in its annual report to Congress the specific cost estimates and budgetary proposals associated with the implementation of this Agreement.

27.3 Any requirement for the payment or obligation of funds, including stipulated penalties, by the Air Force established by the terms of this Agreement shall be subject to the availability of appropriated funds, and no provision herein shall be interpreted to require obligation or payment of funds in violation of the Anti-Deficiency Act, 31 U.S.C. Section 1341. In cases where payment or obligation of funds would constitute a violation of the Anti-Deficiency Act, the dates established requiring the payment or obligation of such funds shall be appropriately adjusted.

27.4 If appropriated funds are not available to fulfill the Air Force's obligations under this Agreement, EPA reserves the right to initiate an action against any other person, or to take any response action, which would be appropriate absent this Agreement.

27.5 Funds authorized and appropriated annually by Congress under the Environmental Restoration, Air Force (ER,AF) appropriation in the Department of Defense Appropriations Act will be the source of funds for activities required by this Agreement consistent with 10 U.S.C. Chapter 160. However, should the ER,AF appropriation be inadequate in any year to meet the Air Force's total implementation requirements under this Agreement, the Air Force will, after consulting with the other Party and discussing the inadequacy with the members of the public interested in the action in accordance with Section XII – BUDGET DEVELOPMENT AND AMENDMENT OF SITE MANAGEMENT PLAN, prioritize and allocate that year's appropriation.

XXVIII. RECOVERY OF EPA EXPENSES

28 The Parties agree to amend this Agreement at a later date in accordance with any subsequent national resolution of the issue of EPA cost reimbursement for CERCLA response costs incurred by EPA. Pending such resolution, EPA reserves the rights it may have with respect to cost reimbursement.

XXIX. QUALITY ASSURANCE

29.1 The Air Force shall use quality assurance, quality control, and chain of custody procedures throughout all field investigation, sample collection and laboratory analysis activities. A Basewide Quality Assurance Project Plan (QAPP) was developed by the Air Force and approved by EPA in July 2004. A site-specific QAPP developed, in accordance with EPA Guidance, shall be submitted as a component of each PA/SI, RI, FS, RD, and RA Work Plan(s), as appropriate. These work plans will be reviewed as Primary Documents pursuant to Section X – CONSULTATION. QA/QC Plans shall be prepared in accordance with applicable EPA Guidance, including the Uniform Federal Policy for Quality Assurance Project Plans (March 2005).

29.2 In order to provide for quality assurance and maintain quality control regarding all fieldwork and samples collected pursuant to this Agreement, the Air Force shall include in each QA/QC Plan submitted to EPA all protocols to be used for sampling and analysis. The Air Force shall also ensure that any laboratory used for analysis is a participant in a QA/QC program that is consistent with EPA Guidance.

29.3 The Air Force shall ensure that lab audits are conducted as appropriate and are made available to EPA upon request. The Air Force shall ensure that EPA and/or its authorized representatives shall have access to all laboratories performing analyses on behalf of the Air Force pursuant to this Agreement.

XXX. RECORD PRESERVATION

30.1 Despite any document retention policy to the contrary, EPA and the Air Force shall preserve, during the pendency of this Agreement and for a minimum of ten (10) years after its termination or for a minimum of ten (10) years after implementation of any additional action taken pursuant to Section XIX – PERIODIC REVIEW, all records and documents in their possession that relate to actions taken pursuant to this Agreement. After the ten (10) year period, at the expiration of its document retention period, each Party shall notify the other Party at least forty-five (45) days prior to the proposed destruction or disposal of any such documents or records. Upon the request by any Party, the requested Party shall make available such records or copies of any such records unless withholding is authorized and determined appropriate by law. The Party withholding such records shall identify any documents withheld and the legal basis for withholding such records. No records withheld shall be destroyed until forty-five (45) days after the final decision by the highest court or administrative body requested to review the matter.

30.2 All such records and documents shall be preserved for a period of ten (10) years following the termination of any judicial action regarding the Work performed under CERCLA, which is the subject of this Agreement.

XXXI. SAMPLING AND DATA/DOCUMENT AVAILABILITY

31.1 Each Party shall make available to the other Party all the results of sampling, tests, or other data generated through the implementation of this Agreement as needed in a timely manner.

31.2 At the request of any Party, a Party shall allow the other Party or their authorized representatives to observe fieldwork and to take split or duplicate samples of any samples collected pursuant to this Agreement. Each Party shall notify the other Party by telephone not less than fourteen (14) days in advance of any scheduled sample collection activity unless otherwise agreed upon by the Parties. The Party shall provide written confirmation within three (3) days of the telephone notification.

31.3 If preliminary analysis indicates that an imminent or substantial endangerment to human health or the environment may exist, all other Project Managers shall be immediately notified.

XXXII. PROTECTED INFORMATION

32.1 The Air Force shall not withhold any physical, sampling, monitoring, or analytical data.

32.2 National Security Information:

32.2.1 Any dispute concerning EPA access to national security information ("classified information"), as defined in Executive Order 12958, as amended, shall be resolved in accordance with Executive Order 12958, as amended, and other applicable law, including the opportunity to demonstrate that EPA representative has proper clearances and a need to know, appeal to the Information Security Oversight Office, and final appeal to the National Security Council.

32.2.2 Upon receipt from EPA of a request to meet with the classifying officer regarding access to classified information, the Air Force shall, within ten (10) days of such request, notify the requesting Party of the identity of the classifying officer and the level of classification of the information sought. If the document was classified by the Air Force, the classifying officer and the representative of the requesting Party shall meet within twenty-one (21) days following receipt of the request. The purpose of the meeting shall be to seek a means to accommodate the requesting Party's request for access to information without compromising national security or violating security regulations. If no resolution is reached at the meeting, the Air Force shall notify the requesting Party of the classifying officer's decision within fourteen (14) days following the meeting. Failure to render a timely decision shall be construed as a denial. Failure to respond is subject to dispute resolution under this Agreement.

32.2.3 Nothing in this Subsection 33.2 is intended to, or should be construed as, superseding any law, regulation, or promulgated Air Force directive regarding access to, release of, or protection of national security information.

XXXIII. COMMUNITY RELATIONS

33.1 The Air Force has developed and implemented a Community Relations Plan. This plan responds to the need for an interactive relationship with all interested community elements, both on and off Hanscom Air Force Base, regarding environmental response activities conducted pursuant to this Agreement by the Air Force. Any revision or amendment to the Community Relations Plan shall be submitted to EPA for review and comment.

33.2 Except in case of an emergency requiring the release of necessary information, and except in the case of an enforcement action, any Party issuing a press release with reference to any of the Work required by this Agreement shall use its best efforts to advise the other Party of such press release and the contents thereof upon issuance of such release.

33.3 The Parties agree to comply with all relevant EPA policy and Guidance on community relations programs and the public participation requirements of CERCLA, the NCP and other applicable laws and regulations.

33.4 The Parties agree that Work conducted under this Agreement and any subsequent proposed remedial action alternatives and subsequent plans for remedial action at the Site arising out of this Agreement shall comply with all the Administrative Record and public participation requirements of CERCLA, including Sections 113(k) and 117, 42 U.S.C. Sections 9613(k) and 9617, the NCP, and all applicable Guidance developed and provided by EPA. This shall be achieved through implementation of the Community Relations Plan.

33.5 The Air Force shall establish and maintain an IRP Administrative Record at or near Hanscom Air Force Base, in accordance with CERCLA Section 113(k), 42 U.S.C. § 9613(k), Subpart I of the NCP, and applicable EPA Guidance. Before the Effective Date of this Agreement, the Air Force established and began maintaining copies of an IRP Administrative Record at Building 1825, 72 Dow Street, Hanscom AFB, MA 01731. In addition, an action specific repository will be established for the duration of the public comment period in one or more of the local town libraries for those actions for which a public review and comment period is required. The locations of the local towns' public libraries are:

Bedford Public Library, Mudge Way, 781-275-9440
Concord Public Library, Main Street, 978-318-3300
Cary Memorial Library, Massachusetts Avenue, 781-862-6288
Lincoln Public Library, Bedford Road, 781-259-8465

The Administrative Record developed by the Air Force shall be periodically updated and a copy of the Index will be provided to EPA. The Air Force will provide to EPA on request any document in the Administrative Record.

33.6 Pursuant to 10 U.S.C. Section 2705(c), the Air Force has established a Restoration Advisory Board. The purpose of the RAB is to provide a forum for cooperation between the Parties, local community representatives, and natural resource trustees on actions and proposed actions at the Site. The Parties shall participate in the RAB as follows:

33.6.1 The Environmental Director, Hanscom Air Force Base, who shall co-chair the RAB with a community member;

33.6.2 An EPA representative;

33.6.3 An MassDEP representative; and

33.6.4 The Air Force Project Manager(s).

The Parties shall encourage representatives from the following organizations to serve as members of the RAB:

33.6.5 Massport; and

33.6.6 Local communities (Bedford, Concord, Lexington Lincoln and Hanscom Air Force Base).

33.7 The Air Force shall schedule semi-annual status update meetings of the RAB unless the Parties agree to meet more or less frequently. If possible, meetings shall be held in conjunction with the meetings of the Project Managers. Meetings of the RAB shall be for the purpose of reviewing progress under the Agreement and for the following purposes:

33.7.1 To facilitate early and continued flow of information between the community, Hanscom Air Force Base, and the environmental regulatory agencies in relation to restoration actions taken by Hanscom Air Force Base under the Installation Restoration Program;

33.7.2 To provide an opportunity for RAB members and the public to review and comment on actions and proposed actions under the Installation Restoration Program; and

33.7.3 To facilitate regulatory and public participation consistent with applicable laws.

33.8 Special meetings of the RAB may be held at the request of the members.

XXXIV. PUBLIC COMMENT ON THIS AGREEMENT

34.1 Within fifteen (15) days after the execution of this Agreement (the date by which all Parties have signed the Agreement), EPA shall announce the availability of this Agreement to the public for their review and comment. Such public notices shall include information advising the public as to availability and location of the Administrative Record as discussed in Subsection

34.5. EPA shall accept comments from the public for forty-five (45) days after such announcement. Within twenty-one (21) days of completion of the public comment period, EPA shall transmit copies of all comments received within the comment period to the Air Force. Within thirty (30) days after the transmittal, the Parties shall review the comments and shall decide that either:

34.1.1 The Agreement shall be made effective without any modifications; or

34.1.2 The Agreement shall be modified prior to being made effective.

34.2 If the Parties agree that the Agreement shall be made effective without any modifications, and if the Parties agree on the Responsiveness Summary, EPA shall transmit a copy of the signed Agreement to the Air Force and shall notify the Air Force in writing that the Agreement is effective. The Effective Date of the Agreement shall be the date of receipt by the Air Force of the signed Agreement from EPA.

34.3 If the Parties agree that modifications are needed and agree upon the modifications and amend the Agreement by mutual consent within sixty (60) days after the expiration of the public comment period, EPA in consultation with the Air Force, will determine whether the modified Agreement requires additional public notice and comment pursuant to any provision of CERCLA. If EPA determines that no additional notice and comment are required, and the Parties agree on the Responsiveness Summary, EPA shall transmit a copy of the modified Agreement to the Air Force and shall notify it in writing that the modified Agreement is effective as of the date of the notification. If the Parties amend the Agreement within the sixty (60) days and EPA determines that additional notice and comment are required, such additional notice and comment shall be provided consistent with the provisions stated in Subsection 34.1 above. If the Parties agree, after such additional notice and comment has been provided, that the modified Agreement does not require any further modification and if the Parties agree on the Responsiveness Summary, EPA shall send a copy of the mutually agreed upon modified Agreement to the Air Force and shall notify it that the modified Agreement is effective. In either case, the Effective Date of the modified Agreement shall be the date of receipt by the Air Force from EPA of notification that the modified Agreement is effective.

34.4 In the event that the Parties cannot agree on the modifications or on the Responsiveness Summary within thirty (30) days after the EPA's transmittal of the public comments, the Parties agree to negotiate in good faith for an additional fifteen (15) days before invoking dispute resolution. The Parties agree to have at least one meeting during that 15-day period to attempt to reach agreement.

34.5 If, after the times provided in Subsection 34.4, the Parties have not reached agreement on:

34.5.1 Whether modifications to the Agreement are needed; or

34.5.2 What modifications to the Agreement should be made; or

34.5.3 Any language, any provisions, any Deadlines, any Work to be performed or any content of the Agreement or any Appendices to the Agreement; or

34.5.4 Whether additional public notice and comments are required; or

34.5.5 The contents of the responsiveness summary,

then the matters that are in dispute shall be resolved by the dispute resolution procedures of Section XX – DISPUTE RESOLUTION. For the purposes of this Section, the Agreement shall not be effective while the dispute resolution proceedings are underway. After these proceedings are completed, the Final Written Decision shall be provided to the Parties indicating the results of the dispute resolution proceedings. Each Party reserves the right to withdraw from the Agreement by providing written notice to the other Party within twenty (20) days after receiving from EPA the Final Written Decision of the resolution of the matters in dispute. Failure by a Party to provide such a written notice of withdrawal to EPA within this twenty (20) day period shall act as a waiver of the right of that Party to withdraw from the Agreement, and EPA shall thereafter send a copy of the final Agreement to the other Party and shall notify the other Party that the Agreement is effective. The Effective Date of the Agreement shall be the date of receipt of that letter from EPA to the Air Force.

34.5.6 At the start of the public comment period, the Air Force will transmit copies of this Agreement to the appropriate Federal, Commonwealth, and local Natural Resource Trustees for review and comment within the time limits set forth in this Section.

34.5.7 Existing records maintained by Hanscom Air Force Base that will be included in the Administrative Record such as reports, plans, and Schedules shall be made available by the Air Force for public review during the public comment period.

XXXV. EFFECTIVE DATE

This Agreement shall be effective in its entirety among the Parties in accordance with Section XXXIV – PUBLIC COMMENT ON THIS AGREEMENT.

XXXVI. AMENDMENT OF AGREEMENT

36.1 Except as provided in Section XIV – PROJECT MANAGERS, this Agreement can be amended or modified solely upon written consent of all the Parties. Such amendments or modifications shall be in writing, and shall become effective on the third business day following the date on which EPA signs the amendments or modifications. The Parties may agree on a different Effective Date. As the last signing Party, EPA will provide notice to each signatory pursuant to Section XIV – PROJECT MANAGERS, of the Effective Date.

36.2 The Party initiating the amendment of this Agreement shall propose in writing the amendment for distribution and signature by the other Party.

36.3 During the course of activities under this Agreement, the Parties anticipate that statutes, regulations, Guidance, and other rules will change. Those changed statutes, regulations, Guidance, and other rules shall be applied to the activities under this Agreement in the following manner:

36.3.1 Applicable statutes and regulations shall be applied in accordance with the statutory or regulatory language on applicability, and if applied to ongoing activities, shall be applied on the effective date provided. However, the Parties shall, to the extent practicable, apply them in such a way as to avoid as much as possible the need for repeating Work already accomplished;

36.3.2 Applicable policy or Guidance shall be applied as it exists at the time of initiation of the Work in issue; and

36.3.3 Applicable policy or Guidance that is changed after the initiation of the Work in issue or after its completion shall be applied subject to Section XX – DISPUTE RESOLUTION. The Party proposing application of such changed policy or Guidance shall have the burden of proving the appropriateness of its application. In any case, the Parties shall, to the extent practicable, apply any changed policy or Guidance in such a way as to avoid, as much as possible, the need for repeating Work already accomplished.

36.3.4 Changes in ARARs are governed by Section 300.430(f)(1)(ii)(B)(1) of the NCP.

XXXVII. SEVERABILITY

If any provision of this Agreement is ruled invalid, illegal, or unconstitutional, the remainder of the Agreement shall not be affected by such a ruling.

XXXVIII. TERMINATION AND SATISFACTION

38.1 The provisions of this Agreement shall be deemed satisfied upon a consensus of the Parties that the Air Force has completed its obligations under the terms of this Agreement. Following EPA Certification of all the response actions at the Site pursuant to Subsection 9.8 of Section IX – WORK TO BE PERFORMED, any Party may propose in writing the termination of this Agreement upon a showing that the requirements of this Agreement have been satisfied. The obligations and objectives of this Agreement shall be deemed satisfied and terminated upon receipt by the Air Force of written notice from EPA that the Air Force has demonstrated that all the requirements of this Agreement have been satisfied. A Party opposing termination of this Agreement shall provide a written statement of the basis for its denial and describe the actions necessary to grant a termination notice to the proposing Party within ninety (90) days of receipt of the proposal.

38.2 Any disputes arising from this Termination and Satisfaction process shall be resolved pursuant to the provisions of Section XX – DISPUTE RESOLUTION, of this Agreement.

38.3 Upon termination of this Agreement, the Air Force shall place a public notice announcing termination in two (2) local newspapers of general circulation.

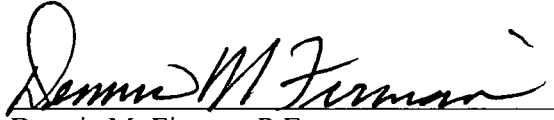
38.4 This Section shall not affect the Parties' obligations pursuant to Section XIX – PERIODIC REVIEW or Section XXX – RECORD PRESERVATION of this Agreement. In no event will this Agreement terminate prior to the Air Force's completion of the Work required by this Agreement.

AUTHORIZED SIGNATURES

The undersigned representative certifies that he or she is fully authorized by the Party he or she represents to enter into the terms and conditions of this Agreement and to legally bind such Party to this Agreement. This Agreement shall apply to and be binding upon EPA and the Air Force.

IT IS SO AGREED:

By



Dennis M. Firman, P.E.

Director

Air Force Center for Engineering and the Environment

Date 10 Sep 09

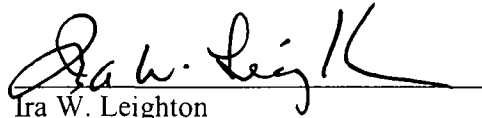
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IT IS SO AGREED:

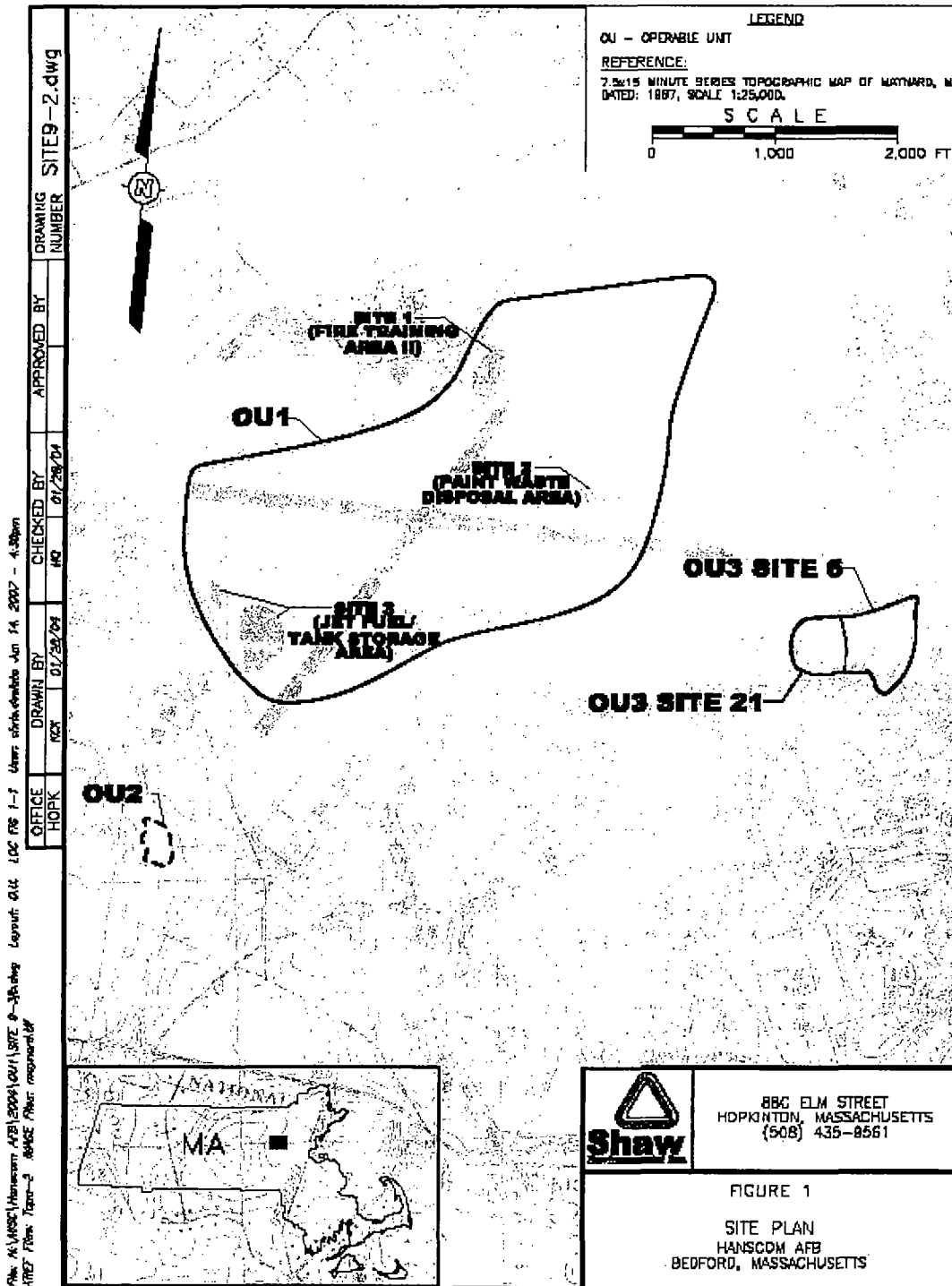
By



Ira W. Leighton
Acting Regional Administrator
Environmental Protection Agency, Region I

Date 9/18/09

Appendix A – Map of the Hanscom Field/Hanscom Air Force Base NPL Site



Appendix B – Initial List of Sites Requiring Remedial Investigation/Feasibility Study

There are no sites requiring RI/FS.

**Appendix C – Operable Units/Installation Restoration Program sites with Proposed Plans,
Record of Decision and On-going Remedial Actions
as of March 2009**

OU#	IRP Site	Site Name	Comments
1	IRP Sites 1, 2 & 3	NPL OU-1, Hanscom Field/Hanscom AFB	ROD signed by AF 14 Sep 2007 & by EPA 28 Sep 2007
	IRP Site 1	Fire Training Area II	
	IRP Site 2	Paint Waste Disposal Area	
	IRP Site 3	Jet Fuel Residue/Tank Sludge Disposal Area	
2	IRP Site 4	NPL OU-2/IRP Site 4 – Sanitary Landfill, Hanscom Field/Hanscom AFB	AF's 1988 Remedial Action accepted as final RA and USEPA completed 1 st Five-Year Review, Sep 1997
3	IRP Site 6	NPL OU-3/IRP Site 6 – Landfill/Former Filter Beds, Hanscom AFB	ROD signed by AF 14 Nov 2000 & by EPA 5 Dec 2000
3	IRP Site 21	NPL OU-3/IRP Site 21, Unit 1 Petroleum Release Site, Hanscom AFB	ROD signed by AF 20 Aug 2002 & by EPA 29 Aug 2002

**Appendix D – IRP Sites Being Addressed under the Massachusetts Contingency Plan
(MCP)
as of March 2009**

IRP Site	MCP RTN	Site Name	Comments
13	3-2686	Base Motor Pool	Petroleum Releases – Class C Response Action Outcome Statement issued Jan 1999 – Periodic Assessments completed Aug 2002 & Aug 2007
22	3-3882 & 3-20341	AAFES Service Station	Petroleum Releases – Class C Response Action Outcome Statements issued Aug 1997 & Aug 2002 – Periodic Assessments completed Aug 2002 & Aug 2007

Appendix E – No Further Action IRP Sites
as of March 2009

IRP Site	Site Name	Status	Close-Out Document
5	Fire Training Area I	Closed-out 9/27/1991	AF DD (note 1)
7	Industrial Wastewater Treatment System	Closed-out 1/22/1991	AF DD (note 2)
8	Scott Circle landfill	Closed-out 12/23/1991	AF DD (note 3)
9	Administration Building Jet Fuel Spill	Closed-out 1/22/1991	AF DD
10	Mercury Spill at Building 1128	Closed-out 12/19/1989	AF DD (note 2)
11	Various Fuel Spills on Runways & Taxiways	Closed-out 1/22/1991	AF DD
12	AAFES Service Station Gasoline Leak	Closed-out 1/22/1991	AF DD
14	Multi-site UST Investigation	Closed-out 10/19/2000	AF DD
15	Multi-site UST Removal	Closed-out 10/19/2000	AF DD
16	Contamination at Building T-860	Closed-out 9/30/1994	AF DD
17	Contamination at Building 1103	Closed-out 9/30/1993	AF DD
18	Contamination at Building 1102-C	Closed-out 9/30/1993	AF DD
19	Suspected Dump Site	Closed-out 9/30/1994	AF DD (note 2)
20	Suspected Fire Training Area	Closed-out 2/6/2001	OU-1 IROD
AOC #1	Commissary Construction Site – MCP RTN 3-19520	Closed-out 9/21/2000	MCP Class A-2 RAO Statement

Note 1 - Closed-out reconfirmed by OU-1 IROD dated November 2002

Note 2 - Closed-out reconfirmed by USEPA letter dated July 5, 2000

Note 3 - Closed-out reconfirmed by USEPA letter dated September 28, 2001

Appendix F – Initial Site Management Plan

Appendix G - Index of the Hanscom AFB IRP Administrative Record

<u>DOCUMENT</u>	<u>SITE</u>	<u>DATE</u>	<u>PHASE</u>	<u>AUTHOR</u>	<u>TITLE/SUBJECT</u>
<u>GENERAL/BASEWIDE HANSCOM AFP IRP REFERENCES</u>					
34	Basewide	Apr-51		Hanscom AFB	Historical Information Folder, Hanscom AFB Plans & 2 Aerial Photos circa April 1951
270	Basewide	Jul-60		M&E	Report of Development of Groundwater Supplies
1	Basewide	Aug-84	PA	JRB Associates	IRP Phase I - Record Search
257	1	Basewide	Sép-91	Benham Group	Base Comprehensive Plan - 2 Volumes
241	Basewide	Apr-93	PA	Halliburton	Final Hazard Ranking System Package (REV 3.0), Hanscom AFB
327	Basewide	Jun-98	PA	Lockheed	Aerial Photographic Analysis, Hanscom AFB, Bedford, MA
257	2	Basewide	Oct-98	Baker	General Plan, Hanscom AFB (replaces Base Comprehensive Plan)
396	1	Basewide	Feb-95	LEC Environmental	Request for Determination of Applicability Wetland Boundaries, Hanscom AFB - Bedford, MA
396	2	Basewide	Feb-95	LEC Environmental	Request for Determination of Applicability Wetland Boundaries, Hanscom AFB - Lexington, MA
396	3	Basewide	Feb-95	LEC Environmental	Request for Determination of Applicability Wetland Boundaries, Hanscom AFB - Lincoln, MA
259	2	Basewide	Dec-95	EPA N.E. Regional Lab	Memorandum - Shawsheen River Chronic Toxicity Test Results Analytical Results of Sampling Shawsheen River @ USGS Gaging Station
259	3	Basewide	Dec-95	M&E Services	
259	1	Basewide	Jan-96	Rizzo Associates	Hanscom AFB Stormwater Quality Testing Program
250	1-2	Basewide	Aug-97	LEC Environmental	Comprehensive Ecological Analysis - 2 Volumes
250	3	Basewide	Feb-99	LEC Environmental Simulation	Supplement to Comprehensive Ecological Analysis (Volume 3 - Riverfront Area Analysis)
408	Basewide	Jul-99	PA	Technologies, Inc	Report of Investigation: The Presence of Biological and Chemical Warfare Materiel at Hanscom AFB
257	3	Basewide	Nov-03	Parsons et al	General Plan Update, Hanscom AFB (replaces Base Comprehensive Plan)
490	1	Basewide	Feb-04	ATSDR	Public Comment Document - Public Health Assessment for Hanscom Field/Hanscom AFB
490	2	Basewide	Apr-04	ATSDR	Final - Public Health Assessment for Hanscom Field/Hanscom AFB
555	Basewide	Dec-07	PA	ITSI & Shaw Environ.	Draft Final Programmatic Modified CSE Phase I Work Plan + CD

MULTI-SITE

5	IRP	May-85		Dynamac	Recommendations & Cost Estimates for Development of Remedial Action Plans at Hanscom AFB
148	IRP	Dec-92		Radian	Hanscom AFB Initial Management Action Plan (MAP)
222	IRP	Dec-92		Hanscom AFB	Management Action Plan (MAP) - FY 1993
223	IRP	Dec-93		Hanscom AFB	Management Action Plan (MAP) - FY 1994
197	IRP	Various		Hanscom AFB	Restoration Advisory Board (RAB) Meeting Minutes - 29 Nov 1994 to Present - 3 BINDERS
279	C	IRP	Dec-94	Rust Environmental	Site Safety and Health Plan, Base-Wide Hydrogeological Survey (Monitoring Wells)
224	IRP	Jan-95		Hanscom AFB	Management Action Plan (MAP) - FY 1995
357	IRP	Aug-95		CH2M Hill	Data Usability Assessment
263	1	IRP	May-96	CH2M Hill	RAB 14 May 96 Presentation Materials
242	RA Sites	Jul-96	RI/FS	CH2M Hill	Human Health Risk Assessment Work Plan
243	RA Sites	Jul-96	RI/FS	CH2M Hill	Ecological Risk Assessment Methodology and Problem Formulation
263	2	IRP	Feb-98	CH2M Hill	RAB 2 Feb 1998 Presentation Materials
263	3	IRP	Feb-99	CH2M Hill	RAB 3 Feb 1999 Presentation Materials
279	A	IRP	Jan-97	Rust Environmental	Base-Wide Hydrogeological Survey (Monitoring Wells) - 2 Volumes
279	B	IRP	Apr-97	Rust Environmental	Base-Wide Hydrogeological Survey (Monitoring Wells) Task 5 - IRPIMS Data Entry
355	IRP	Apr-99		Hanscom AFB	Community Relations Plan PLAN for CERCLA (Superfund)
356	IRP	Apr-99		Hanscom AFB	Remedial Response Actions and Removal Actions
447	IRP	Feb-02		Hanscom AFB	Management Action Plan (MAP) for 1999
					Management Action Plan (MAP), Revised 15 February 2002

419	LTM Sites	Jan-03	RA-O	IT Environmental	Basewide Quality Assurance Project Plan (QAPP) with Amendment 1 for LTM at OU1 & OU3/Sites 6 & 21, IRP Sites 13 & 22, and the FAFSUST Site - 2 Volumes
420	RA Sites	May-03	RA-O	IT Environmental	Environmental Health & Safety Plan for O, M & M of OU-1, Maint of OU-2 (Site 4), Removal Action/ Remedial Action at OU-3 - Site 21 and Remedial Action at OU-3 - Site 6 with 3 Amendments
493	1	RA Sites	Oct-00	RA-O	Parsons
493	2	RA Sites	Mar-04	RA-O	Earth Tech
526	LTM Sites	Jul-04	RA-O	MaraTech	Remedial Process Optimization (RPO) Scoping Visit Information Package & Final Report
551	LTM Sites	May-08	RA-O	Shaw Environmental	Remedial Process Optimization (RPO) Inventory & Prioritization Report
552	RA Sites	2008	RA-O	M&E	Basewide Quality Assurance Project Plan (QAPP) for LTM at NPL OU1, NPL OU3/IRP Site 6, NPL OU3/IRP Site 21, and MCP Sites (IRP Sites 13 & 22, and the FAFSUST Site) - 2 Volumes
					Historical Analytical Data database - 1999 through 2007 - all S&A LTM Events - CD Only
					Site Health and Safety Plan - M&E Activities at Hanscom AFB

OPERABLE UNIT 1 - INCLUDES IRP SITES 1, 2 & 3

3		OU-1	Apr-83	PA/SI	Weston	Hydrogeologic Investigation
4		OU-1	Sep-84	PA/SI	Weston	Supplemental Hydrogeologic Investigation
225		OU-1	Feb-87	RI/FS	Haley & Aldrich	IRP Phase IV-A - Hanscom AFB Area 1, Remedial Investigation Data Document
27		OU-1	May-88	RI/FS	Haley & Aldrich	IRP Phase IV-A - Hanscom AFB Area 1, Appendix F, A/E RI Interpretive Report, Sites 1-5
28		OU-1	May-88	RI/FS	Haley & Aldrich	IRP Phase IV-A - Hanscom AFB Area 1, Introduction to Remedial Action Plans
33		OU-1	May-88	RI/FS	Haley & Aldrich	IRP Phase IV-A - Hanscom AFB Area 1, Environmental Assessment
35		OU-1 & Site 4	Apr-88	ROD/DD	Hanscom AFB	RI/FS Hanscom AFB Decision Paper Area 1 (Sites 1-5) - Signed 20 April 1988
126		OU-1	Apr-92	ROD/DD	Hanscom AFB	Decision Document - No Further Response Action Planned - Signed
335	3	OU-1	Dec-94	RI/FS	Spectrum Analytical	Spectrum Analytical, Inc. QA/QC Plan (for QA work associated with Tufts Univ. ETI Project)
275	1	OU-1	Sep-95	LTM	Haley & Aldrich	RAB Meeting Presentation - Long-Term Monitoring Report - Round 8
335	4	OU-1	Aug-96	RI/FS	Phoenix Environmental	Phoenix Environmental Laboratories, Inc. QA Program Plan (for work associated with Tufts Univ. ETI Project)
265		OU-1	Aug-96	RI/FS	CH2M Hill	Sampling & Analysis Plan - OU-1
335	2	OU-1	Sep-96	RI/FS	Hanscom AFB	Spectrum Analytical, Inc. Laboratory Reports for QA Analysis of OU-1 Soil Samples for Tufts Project - 5 each
335	6	OU-1	Oct-96	RI/FS	Hanscom AFB	Transmittal #1 of Off-Site Laboratory Data for QA Analysis of OU-1 Soil Samples for Tufts Project
275	2	OU-1	Nov-96	LTM	Haley & Aldrich	RAB Meeting Presentation - Long-Term Monitoring Report - Round 9
281		OU-1	Mar-97	RI/FS	CH2M Hill	Draft Final - Work Plan for Groundwater Modeling at Operable Unit
277		OU-1	Apr-97	RI/FS	ARA	Work Plan, Direct Push Monitoring Point Assessment
335	8	OU-1	May-97	RI/FS	Tufts Univ	Hanscom AFB Sample Data Package for joint AF/EPA/Tufts ETI project
298		OU-1	Jul-97	RI/FS	CH2M Hill	Draft - Groundwater Flow Model Report, Operable UnitT 1
335	7	OU-1	Nov-97	RI/FS	Hanscom AFB	Transmittal #2 of Off-Site Laboratory Data for QA Analysis of OU-1 Soil Samples for Tufts Project
307	1	OU-1	Dec-97	RI/FS	CH2M Hill	Draft Solute Transport Model Setup and Calibration Report, Operable UnitT 1
312		OU-1	Jan-98	RI/FS	CH2M Hill	OU-1 Field Report
335	5	OU-1	Jan-98	RI/FS	USEPA/Tufts Univ	Videotape - Field Analytics: The Key to Cost Effective Site Cleanup
305		OU-1	Feb-98	RI/FS	CH2M Hill	Work Plan, Operable UnitT 1 Monitoring Well Cluster Installation
307	2	OU-1	Mar-98	RI/FS	CH2M Hill	Presentation Materials - Groundwater Flow & Solute Transport Model March 11, 1998 Meeting
332		OU-1	Jul-98	RI/FS	CH2M Hill	OU-1 Monitoring Well Cluster Installation
335	1	OU-1	Sep-98	RI/FS	USEPA	Innovations in Site Characterization, Case Study, Hanscom AFB OU-1 (Sites 1, 2 & 3)
343		OU-1	Dec-98	RI/FS	CH2M Hill	Technical Memorandum - Soil to Groundwater Pathway, OU-1
315		OU-1	Jan-99	RI/FS	CH2M Hill	Ecological Risk Assessment, Operable UnitT 1

364	OU-1	May-00	FS	CH2M Hill	Focused Feasibility Study - Operable UnitT 1
365	OU-1	Jun-00	ROD	CH2M Hill	Interim Proposed Plan for Operable UnitT 1
382	OU-1	Jun-00	ROD	Hanscom AFB	Public Meeting Briefing Slides for Proposed Plan for Operable UnitT 1
383	OU-1	Jun-00	ROD	G&M/Hoey Court Reporters	Transcript of Public Hearing Concernig Proposed Plan for Operable UnitT 1
390	OU-1	Nov-00	ROD	CH2M Hill	Interim Record of Decision, Operable Unit 1 - Signed
533	OU-1	May-07	ROD	CFW Consultants	Focused Ground Water flow and Transport Model, Operable Unit One, Hanscom AFB, Bedford, MA
534	OU-1	May-07	FS	Hanscom AFB	Revised Focused Feasibility Study, NPL OU-1, Hanscom AFB, MA
535	OU-1	May-07	ROD	Hanscom AFB	Proposed Plan, NPL OU-1, Hanscom AFB, MA
536	OU-1	Sep-07	ROD	Hanscom AFB	ROD, NPL OU-1, Hanscom AFB, MA - Signed
538	OU-1	Jun-07	ROD	Hanscom AFB	Public Meeting Briefing Slides for Proposed Plan for Operable UnitT 1
539	OU-1	Jun-07	ROD	G&M Court Reporters	Transcript of Public Hearing Concerning Proposed Plan for OU-1

OU-1 REMEDIAL ACTION

37	2	OU-1	Feb-87	RD	Engr-Science	Soil Flushing and Stripping Review
153	2	OU-1	Apr-97	RD	Haley & Aldrich	Summary of 1988 Pump Test Data for PT2-RA (BIW #4)
153	1	OU-1	Sep-87	RD	Haley & Aldrich	Recovery and Observation Well Records (PT & PO Series) for IRP Sites 1 and 2, Installed July 1987
58		OU-1	Dec-87	RD	Haley & Aldrich	Subsurface Investigation & Recommendations for Groundwater Treatment Facility
59		OU-1	Dec-87	RD	Engineering-Science	Air Stripper Column Design Report
60		OU-1	Jan-88	RD	Engineering-Science	Groundwater Treatment Facility - Comparison of Vapor Off-gas Treatment Technologies
37	1	OU-1	Jun-88	RD	Haley & Aldrich	Detailed Design Cost Estimate
38	1	OU-1	Jun-88	RD	Haley & Aldrich	Design Analysis Report, Stage II Groundwater Treatment, Volume 1 of 2
38	2	OU-1	Jun-88	RD	Haley & Aldrich	Design Analysis Report, Stage II Groundwater Treatment, Volume 2 of 2
120		OU-1	Jan-92	RD	Haley & Aldrich	Remediation of Iron Bacteria Condition at Groundwater Treatment System
202		OU-1	Jul-92	RD	Haley & Aldrich	Specifications for Chemical Cleaning Contract (Iron Bacteria Study)
156		OU-1	Mar-93	RD	Water Tech. Group	Engineering Audit Report, Groundwater Treatment System (Iron Bacteria Study)
176		OU-1	Nov-93	RD	Water Tech. Group	DE Pilot Plant & Analytical Testing Interpretation (Iron Bacteria Study)
246	1	OU-1	Mar-95	RD	Haley & Aldrich	Advanced Oxidation Process Pilot Test Report
246	2	OU-1	May-95	RD	Haley & Aldrich	Design Analysis for Groundwater Treatment Modifications
246	3	OU-1	Jul-95	RD	Haley & Aldrich	Specifications for Groundwater Treatment Modifications
53		OU-1	Jun-88	RA-C	Haley & Aldrich	Construction Specifications, Groundwater Treatment Facility -Stage II
136	1	OU-1	1988-90	RA-C	R. Zoppo Co.	Construction of Groundwater Treatment System Project Photographs - 3 Volumes
136	2	OU-1	Mar-90	RA-C	R. Zoppo Co.	Observation and Monitoring Well Recods for IRP Sites 1, 2 and 3, Installed October 1989
49		OU-1	Apr-90	RA-C	Haley & Aldrich	IRP Phase IV-B - Recovered Groundwater Treatment System O&M Manual
77		OU-1	May-90	RA-C	Haley & Aldrich	O&M of Groundwater Treatment System - Conceptual O&M Specification Outline
82		OU-1	Jun-90	RA-C	Haley & Aldrich	O&M of Groundwater Treatment System - Prefinal O&M Specification
84		OU-1	Jun-90	RA-C	Haley & Aldrich	O&M of Groundwater Treatment System - Engineers Estimate & Proposed Staffing
260		OU-1	Jun-90	RA-C	Haley & Aldrich	Report on Bedrock Pump Test Review
83		OU-1	Sep-90	RA-C	Haley & Aldrich	O&M of Groundwater Treatment System - Final Engineers Estimate
112		OU-1	Sep-90	RA-C	Haley & Aldrich	Specifications - O&M of Groundwater Treatment Facility
86		OU-1	Oct-90	RA-C	Haley & Aldrich	O&M of Groundwater Treatment System - Revised Final Engineers Estimate

246	4	OU-1	Aug-95	RA-C	PSG	Proposal for Modifications to the Groundwater Treatment Facility - 3 Volumes
97		OU-1	Oct-90	RA-O	M&E Services	Proposal for O&M of Groundwater Treatment System - Volumes 1,2,3 & Supplemental Information for Best & Final Offer
129		OU-1	Jun-91	RA-O	M&E Services	O&M Contractor Plans (Transition, QC, Site Access & Security, Labor, Operation, Maintenance, Demob, Inventory, and Site Health & Safety) - 2 Volumes
206	B&C	OU-1	Aug-96	RA-O	Autocon Industries	O&M Manual - SCADA System - Modifications to the Groundwater Treatment Facility - 2 Volumes
385		OU-1	Oct-97	RA-O	EPA Region I	Technical Memorandum - OU-1 Monitoring Well Network Evaluation
206	A	OU-1	Jun-98	RA-O	PSG	IRP Phase IV-B - Recovered Groundwater Treatment System O&M Manual - Revised
345	1	OU-1	Mar-00	RA-O	IT Environmental	Operation, Maintenance & Monitoring of OU-1 and Maintenance of OU-1/IRP Site 4: Part 1-Environmental Health & Safety Plan
345	2	OU-1	Mar-00	RA-O	IT Environmental	Operation, Maintenance & Monitoring of OU-1 and Maintenance of OU-1/IRP Site 4: Part 2 - Quality Program Plan
362	1	OU-1	Mar-00	RA-O	Arcadis G&M	Demonstration Plan & Work Plan for In-situ Substrate Addition to Create Reactive Zones for Treatment of Chlorinated Aliphatic Hydrocarbons
362	2	OU-1	Mar-00	RA-O	Arcadis G&M	Demonstration/Work Plan Comment Responses
363		OU-1	Mar-00	RA-O	Arcadis G&M	Health & Safety Plan, In-situ Reductive Dechlorination Technology Demonstration
398	2	OU-1	Aug-00	RA-O	IT Environmental	Analytical Data Reports for Soil Samples from Boring for RAP1-7T at the Bedford Community Gardens
345	3	OU1 & Site 4	Oct-00	RA-O	IT Environmental	Operation, Maintenance & Monitoring of OU-1 and Maintenance of OU-1/IRP Site 4: Part 3 - Project Specific QAPP
398	1	OU-1	Nov-00	RA-O	IT Environmental	Monitoring Well Installation Report (RAP1-7S & T at the Bedford Community Garden) for LTM of OU-1
476	1	OU-1	Apr-03	RA-O	Arcadis G&M	In-situ Substrate Addition to Create Reactive Zones for Treatment of Chlorinated Aliphatic Hydrocarbons (Molasses injections in vicinity of Monitoring Well Cluster RAP1-6)
476	2	OU-1	Aug-05	RA-O	Arcadis G&M	Pre-Final Cost & Performance Report for ESTCP Project "In-situ Substrate Addition to Create Reactive Zones for Treatment of Chlorinated Aliphatic Hydrocarbons" (Molasses injections vic Monitoring Well Cluster RAP1-6)
514		OU-1	Dec-05	RA-O	Shaw Environmental	Work Plan - Additional Interceptor Well at Operable Unit 1
476	3	OU-1	Mar-06	RA-O	Arcadis G&M	Cost & Performance Report for ESTCP Project "In-situ Substrate Addition to Create Reactive Zones for Treatment of Chlorinated Aliphatic Hydrocarbons" (Molasses injections vic Monitoring Well Cluster RAP1-6)
524	2	OU-1	Jul-06	RA-O	Shaw Environmental	Interceptor Well Installation Report for IW-11 at OU1

OU-1 REMEDIAL ACTION - PERFORMANCE REPORTS

75		OU-1	1990-91	RA-O	Various	Start-up Phase Reports for Groundwater Treatment System - Sep 90-Jan 91
285	1	OU-1	Jan-95	RA-O	Haley & Aldrich	Treatment Plant Performance Data & 1994 Groundwater Levels at Recharge Basin
285		OU-1	Monthly	RA-O	HAFB & M&E Svcs	Monthly Discharge Monitoring Reports, 1991-1998 - 8 Binders
354		OU-1	Monthly	RA-O	HAFB & IT Environ.	Monthly Operation & Discharge Monitoring Reports, 1999
368		OU-1	Monthly	RA-O	HAFB & IT Environ.	Monthly Operation & Discharge Monitoring Reports, 2000
423		OU-1	Monthly	RA-O	HAFB & IT Environ.	Monthly Operation & Discharge Monitoring Reports, 2001
453		OU1/2/3	Aug-02	RA-O	Hanscom AFB	Second Five-Year Review Report for Hanscom Field/Hanscom AFB Superfund Site
446		OU-1	Monthly	RA-O	HAFB & IT Environ.	Monthly Summary Report of Operations, OU-1 GWT System - 2002
471		OU-1	Monthly	RA-O	HAFB & IT Environ.	Monthly Summary Report of Operations, OU-1 GWT System - 2003
486	1	OU-1	Monthly	RA-O	HAFB & MaraTech	Monthly Remedial Action Reports, NPL OU-1 - 2004
486	2	OU-1	Monthly	RA-O	HAFB & MaraTech	Monthly Remedial Action Reports, NPL OU-1 - 2005

486	3	OU-1	Monthly	RA-O	HAFB & MaraTech	Monthly Remedial Action Reports, NPL OU-1 - 2006
486	4	OU-1	Monthly	RA-O	HAFB & MaraTech	Monthly Remedial Action Reports, NPL OU-1 - 2007 Third Five-Year Review Report for Hanscom Field/Hanscom AFB Superfund Site - Signed
537		OU1/2/3	Aug-07	RA-O	Hanscom AFB	
563		OU1/2/3	Monthly	RA-O	HAFB & M&E	Monthly Remedial Action Reports, NPL OU-1 - 2008
<u>OU-1 SITE SPECIFIC</u>						
55		1	Apr-87	IRA-D	Haley & Aldrich	Construction Specifications, Site 1 Soil Removal & Site Improvements
40		1	Jul-87	IRA-D	Haley & Aldrich	IRP Phase IV - Detailed Design Cost Estimate, Site 1 Soil Removal
29		1	May-88	RI/FS/PP/ ROD	Haley & Aldrich	IRP Phase IV-A - Hanscom AFB Area 1, Remedial Action Plan, Site 1
74		1	Jun-88	IRA-C	Enroserv	Site Specific Quality Management Program (Soil Removal & Site Improvements Contract)
36		1	Jul-88	IRA-C	Enroserv	Survey Notebook, Soil Removal at Site 1
130		1	1988	IRA-C	Enroserv	Site 1 Soil Removal and Site Improvements Project Photographs
293	B	1	Jun-97	RA-O	Arcadis G&M	Demonstration of Vacuum Enhanced Recovery (VER) Technology Proposal
293	A	1	Sep-97	RA-O	Arcadis G&M	Technical Work Plan for Demonstration of Vacuum Enhanced Recovery (VER) Technology
293	D	1	Sep-98	RA-O	Arcadis G&M	Performance Review, Technology Demonstration Project - Vacuum Enhanced Recovery of DNAPLs
454		1	1997-98	RA-O	Hanscom AFB	Site 1 VER Demonstration Project Analytical Data Reports (1997-1998 Samples)
524	1	OU-1	Aug-99	RA-O	IT Environmental	Interceptor Well Installation Report for IW-10 at OU1
293	C	1	Jun-00	RA-O	Arcadis G&M	Technical Report - Demonstration of Vacuum Enhanced Recovery (VER) Technology at Site 1
480	2	1	Jun-01	RA-O	IT Environmental	Analytical Data Reports for June 2001 Samples for Permanganate Addition Pilot Study Baseline
480	1	1	Sep-03	RA-O	Shaw Environmental	Permanganate Addition Pilot Study Report for Remediation of OU1/IRP Site 1
30		2	May-88	RI/FS/PP/ ROD	Haley & Aldrich	IRP Phase IV-A - Hanscom AFB Area 1, Remedial Action Plan, Site 2
54	1	2 & 3	Apr-87	IRA-D	Haley & Aldrich	Construction Specifications, IRP Drum Removal, Phase I
54	2	2 & 3	May-87	IRA-D	Engineering-Science	Detailed Design Cost Estimate (IRP Drum Removal project)
51		2 & 3	87	IRA-C	Hydro-Dredge	IRP Drum Removal, Phase I, Pre-construction Submittals
52		2 & 3	Oct-87	IRA-C	Hydro-Dredge	IRP Drum Removal, Phase I, Chemical Quality Management Plan & Lab Protocol
132		2 & 3	1987-8	IRA-C	Hydro-Dredge	Drum Removal (Sites 2 & 3) Project Photographs
328		2 & 3	May-89	IRA-C	Hydro-Dredge	Survey Notebook, IRP Drum Removal, Phase I - Drum Removal for Sites 2 & 3
31		3 & 5	May-88	RI/FS/PP/ ROD	Haley & Aldrich	IRP Phase IV-A - Hanscom AFB Area 1, Remedial Action Plan, Site 3/5
390		OU-1	Nov-00	ROD/DD	CH2M Hill	Interim Record of Decision, Operable Unit 1 - Signed
<u>OU-1 LONG-TERM MONITORING</u>						
72		OU-1	Feb-89	LTM	Haley & Aldrich	Long-Term Monitoring Report - Rounds 1 thru 3
78		OU-1	Sep-90	LTM	Haley & Aldrich	Long-Term Monitoring Program - Quality Control & Sampling Plan
98		OU-1	Nov-90	LTM	Haley & Aldrich	Long-Term Monitoring Report - Round4
99		OU-1	Nov-90	LTM	Haley & Aldrich	Long-Term Monitoring Report - Round 4 Quality Control Summary Report
108	1	OU-1	Nov-90	LTM	Haley & Aldrich	Long-Term Monitoring - Daily Quality Control Report
100		OU-1	Mar-91	LTM	Haley & Aldrich	Long-Term Monitoring Report - Round 5
101		OU-1	Mar-91	LTM	Haley & Aldrich	Long-Term Monitoring Report - Round 5 Quality Control Summary Report

108	2	OU-1	Mar-91	LTM	Haley & Aldrich	Long-Term Monitoring - Daily Quality Control Reports
108	3	OU-1	Aug-91	LTM	Haley & Aldrich	Long-Term Monitoring - Daily Quality Control Reports
118		OU-1	Feb-92	LTM	Haley & Aldrich	Long-Term Monitoring Report - Round 6 Long-Term Monitoring Report - Round 6 Quality Control Summary Report
119		OU-1	Feb-92	LTM	Haley & Aldrich	
191		OU-1	Dec-93	LTM	Haley & Aldrich	Chemical data Acquisition Plan for LTM
190		OU-1	Feb-94	LTM	Haley & Aldrich	Site Safety and Health Plan for LTM
189		OU-1	Jun-94	LTM	Haley & Aldrich	Long-Term Monitoring Report - Round 6 Revised
221		OU-1	Jun-95	LTM	Haley & Aldrich	Long-Term Monitoring Report - Round 7 - Field Investigative Report Long-Term Monitoring Report - Round 7 Quality Control Summary Report
226		OU-1	Jun-95	LTM	Haley & Aldrich	
237		OU-1	Jun-95	LTM	Haley & Aldrich	Long-Term Monitoring Report - Round 7 Analytical Results Report
238		OU-1	Jun-95	LTM	Haley & Aldrich	Long-Term Monitoring Report - Round 8 - Field Investigative Report Long-Term Monitoring Report - Round 8 Quality Control Summary Report
239		OU-1	Jun-95	LTM	Haley & Aldrich	
240		OU-1	Jun-95	LTM	Haley & Aldrich	Long-Term Monitoring Report - Round 8 Analytical Results Report
255		OU-1	Apr-96	LTM	Haley & Aldrich	CDAP- Long-Term Sampling Program Long-Term Monitoring Report - Round 9 - Field Investigative Report - 2 Volumes
272		OU-1	Jan-97	LTM	Haley & Aldrich	Long-Term Monitoring Report - Round 9 Analytical Results Report - 2 Volumes
283		OU-1	Jan-97	LTM	Haley & Aldrich	Long-Term Monitoring Report - Round 9 Quality Control Summary Report - 2 Volumes
284		OU-1	Jan-97	LTM	Haley & Aldrich	Long-Term Monitoring Report - Round 9 Quality Control Summary Report - 2 Volumes
295	A	OU-1	Aug-97	LTM	Haley & Aldrich	Long-Term Monitoring Report - Round 10 - Field Investigative Report
295	B	OU-1	Aug-97	LTM	Haley & Aldrich	Long-Term Monitoring Report - Round 10 - Analytical Results Report
296		OU-1	Aug-97	LTM	Haley & Aldrich	Long-Term Monitoring Report - Round 10 - Quality Control Summary Report
339		OU-1	Aug-98	LTM	Haley & Aldrich	Long-Term Monitoring Report - Round 11 - Analytical Results Report
340		OU-1	Aug-98	LTM	Haley & Aldrich	Long-Term Monitoring Report - Round 11 - Quality Control Summary Report
338		OU-1	Sep-98	LTM	Haley & Aldrich	Long-Term Monitoring Report - Round 11 - Field Investigative Report
455		OU-1	1999	LTM	Hanscom AFB	USGS Diffusion Sampler Demonstration Project - EPA Lab Analytical Data Reports (1999 Samples)
369		OU-1	Apr-00	LTM	IT Environmental	Analytical Data Package for Long-Term Monitoring of OU-1 Sampling of Volatile Organic Compounds in Groundwater by Diffusion Samplers and a Low-Flow Method, and Collection of Borehole-Flowmeter Data, Hanscom Air Force Base, Massachusetts
386		OU-1	Jul-00	LTM	USGS	Analytical Data Package for Long-Term Monitoring of OU-1 (April 00 Samples)
391		OU-1	Aug-00	LTM	IT Environmental	Analytical Data Package for Long-Term Monitoring of OU-1 (June 00 Samples)
394		OU-1	Oct-00	LTM	IT Environmental	Evaluation of a Diffusion Sampling Method for Determining Concentrations of Volatile Organic Compounds in Groundwater, Hanscom Air Force Base, Massachusetts
413		OU-1	2000	LTM	USGS	Analytical Data Package for Long-Term Monitoring of OU-1 (September 00 Samples)
400		OU-1	Jan-01	LTM	IT Environmental	Analytical Data Package for Long-Term Monitoring of OU-1 (November 00 Samples)
402		OU-1	Mar-01	LTM	IT Environmental	Data Validation Report for OU-1 Groundwater Samples collected in Jan 2001
411	2	OU-1	Mar-01	LTM	Meridian S&T	Analytical Data Package for Long-Term Monitoring of OU-1 (January 2001 Samples)
411	1	OU-1	Apr-01	LTM	IT Environmental	Memorandum - Long-Term Monitoring of OU-1 (GC Analysis of May 2001 Samples)
424		OU-1	Jul-01	LTM	Hanscom AFB	Data Validation Report for OU-1 Groundwater Samples collected in September 2001
440	2	OU-1	Feb-02	LTM	Meridian S&T	Data Validation Report for OU-1 Groundwater Samples collected in November 2001
440	3	OU-1	Feb-02	LTM	Meridian S&T	Analytical Data Package for Long-Term Monitoring of OU-1 (September/November 2001 Samples)
440	1	OU-1	Mar-02	LTM	IT Environmental	

449	2	OU-1	Jun-02	LTM	Environ. Data Svcs	Data Validation Report for OU-1/Site 3 Groundwater Samples collected in April 2002
456		OU-1	Jun-02	LTM	Hanscom AFB	Memorandum - Long-Term Monitoring of OU-1 (GC Analysis of May 2002 Samples)
449	1	OU-1	Aug-02	LTM	IT Environmental	Analytical Data Package for Long-Term Monitoring of OU-1 (April 2002/Site 3 Samples)
461	2	OU-1	Nov-02	LTM	Environ. Data Svcs	Data Validation Report for OU-1 Groundwater Samples collected in September 2002
472	3	OU-1	Nov-02	LTM	Obrien & Geer	Analytical Data Report for November 2002 Samples for the MNA Assessment of NPL OU-1
461	1	OU-1	Jan-03	LTM	IT Environmental	Analytical Data Package for Long-Term Monitoring of OU-1 (September 2002 Samples)
472	1	OU-1	May-03	LTM	Shaw Environmental	Analytical Data Package for Long-Term Monitoring of OU-1 (November & December 2002 Samples)
472	2	OU-1	Mar-03	LTM	Environ. Data Svcs	Data Validation Report for OU-1 Groundwater Samples collected in November & December 2002
498		OU-1	Aug-03	LTM	Hanscom AFB	Memorandum - Long-Term Monitoring of OU-1 (GC Analysis of May 2003 Samples)
488	2	OU-1	Nov-03	LTM	Obrien & Geer	Laboratory Report November 2003 Samples, NPL OU1 - 3 Volumes
488	3	OU-1	Nov-03	LTM	Obrien & Geer	Analytical Data Report for November 2003 Samples for the MNA Assessment of NPL OU-1
488	1	OU-1	Jan-04	LTM	Shaw Environmental	Long-Term Monitoring Report for OU-1 (November 2003 Samples)
488	4	OU-1	Jan-04	LTM	Environ. Data Svcs	Data Validation Report for OU-1 Groundwater Samples collected in November 2003
505	2	OU-1	Dec-04	LTM	Obrien & Geer	Laboratory Report November 2004 Samples, NPL OU1 - 3 Volumes
505	3	OU-1		LTM	Environ. Data Svcs	Data Validation Report for OU-1 Groundwater Samples collected in November 2004
505	1	OU-1	Mar-05	LTM	Shaw Environmental	Long-Term Monitoring Report for OU-1 (November 2004 Samples)
518	2	OU-1	Dec-05	LTM	Life Sciences Labs	Analytical Data Report November 2005 Samples, NPL OU1 - 3 Volumes
518	3	OU-1	Jan-06	LTM	Environ. Data Svcs	Data Validation Report for OU-1 Groundwater Samples collected in November 2005
518	1	OU-1	Mar-06	LTM	Shaw Environmental	Long-Term Monitoring Report for OU-1 (November 2005 Samples)
530	2	OU-1	Dec-06	LTM	Life Sciences Labs	Analytical Data Report November 2006 Samples, NPL OU1 - CD & 2 Volumes (3 Binders)
530	3	OU-1	Apr-07	LTM	Environ. Data Svcs	Data Validation Report for OU-1 Groundwater Samples collected in November 2006
530	1	OU-1	May-07	LTM	Shaw Environmental	Long-Term Monitoring Report for OU-1 (November 2006 Samples)
547	2	OU-1	Jan-08	LTM	Life Sciences Labs	Analytical Data Report November 2007 Samples, NPL OU1 - In 2 PARTS- 2 CD's & Hard Copy (2 Binders)
547	3	OU-1	Jan-08	LTM	Life Sciences Labs	Analytical Data Report November 2007 PE Sample, NPL OU1 - CD & Hard Copy
547	4	OU-1	Feb-08	LTM	Environ. Data Svcs	Data Validation Report for OU-1 Groundwater Samples collected in November 2007 (2 Parts)
547	1	OU-1	May-08	LTM	Shaw Environmental	Long-Term Monitoring Report for OU-1 (November 2007 Samples)
559		OU-1	Jan-09	LTM	M&E	Long-Term Monitoring Report for NPL OU-1 (November 2008 Samples) w/CD of Nov-08 Analytical Data
566	1	OU1, Sites 6, 13, 21 & 22	Jan-09	RA-C	M&E	CD - Source Files for 2008 IRP LTM Reports for OU-1, Site 6, Site 21 & MCP Sites (13 & 22)
566	2	OU1, Sites 6, 13, 21 & 22	Jan-09	RA-C	M&E	CD - Source Files for 2008 IRP LTM Reports for OU-1, Site 6, Site 21 & MCP Sites (13 & 22) + Validation Data in Excel

OU-1 TREATMENT SYSTEM TOXICITY MONITORING

121	A	GWT FAC	Jul-91	LTO	ESI	Evaluation of Treated Effluent, Dec 91 Samples
121	B	GWT FAC	Oct-91	LTO	ESI	Evaluation of Treated Effluent, Oct 91 Samples
123		GWT FAC	Dec-91	LTO	Springborn Lab	Toxicity Evaluation of Treated Effluent, Dec 91 Samples
122		GWT FAC	Jan-92	LTO	Springborn Lab	Toxicity Evaluation of Treated Effluent, Dec 91 Samples
124		GWT FAC	Feb-92	LTO	Springborn Lab	Toxicity Evaluation of Treated Effluent, Feb 92 Samples
139		GWT FAC	May-92	LTO	Springborn Lab	Toxicity Evaluation of Treated Effluent, May 92 Samples

146	GWT FAC	Oct-92	LTO	Springborn Lab	Toxicity Evaluation of Treated Effluent, Sep 92 Samples
147	GWT FAC	Dec-92	LTO	Springborn Lab	Toxicity Evaluation of Treated Effluent, Nov 92 Samples
161	GWT FAC	Mar-93	LTO	Springborn Lab	Toxicity Evaluation of Treated Effluent, Feb 93 Samples
171	GWT FAC	Jun-93	LTO	Springborn Lab	Toxicity Evaluation of Treated Effluent, May 93 Samples
172	GWT FAC	Sep-93	LTO	Springborn Lab	Toxicity Evaluation of Treated Effluent, Aug 93 Samples
173	GWT FAC	Dec-93	LTO	Springborn Lab	Toxicity Evaluation of Treated Effluent, Nov 93 Samples
179	GWT FAC	Mar-94	LTO	Springborn Lab	Toxicity Evaluation of Treated Effluent, Feb 94 Samples
192	GWT FAC	Jun-94	LTO	Springborn Lab	Toxicity Evaluation of Treated Effluent, May 94 Samples
200	GWT FAC	Aug-94	LTO	Springborn Lab	Toxicity Evaluation of Treated Effluent, Aug 94 Samples
212	GWT FAC	Dec-94	LTO	Springborn Lab	Toxicity Evaluation of Treated Effluent, Nov 94 Samples
227	GWT FAC	Mar-95	LTO	Springborn Lab	Toxicity Evaluation of Treated Effluent, Feb 95 Samples
244	GWT FAC	Jul-95	LTO	Springborn Lab	Toxicity Evaluation of Treated Effluent, May 95 Samples
247	GWT FAC	Oct-95	LTO	Springborn Lab	Toxicity Evaluation of Treated Effluent, Aug 95 Samples
252	GWT FAC	Dec-95	LTO	Springborn Lab	Toxicity Evaluation of Treated Effluent, Nov 95 Samples
261	GWT FAC	Mar-96	LTO	Springborn Lab	Toxicity Evaluation of Treated Effluent, Feb 96 Samples
266	GWT FAC	Jun-96	LTO	EnviroSystems Lab	Toxicity Evaluation of Treated Effluent, Jun 96 Samples
271	GWT FAC	Aug-96	LTO	EnviroSystems Lab	Toxicity Evaluation of Treated Effluent, Aug 96 Samples
276	GWT FAC	Jan-97	LTO	EnviroSystems Lab	Toxicity Evaluation of Treated Effluent, Jan 97 Samples
289	GWT FAC	Mar-97	LTO	EnviroSystems Lab	Toxicity Evaluation of Treated Effluent, Mar 97 Samples
292	GWT FAC	May-97	LTO	EnviroSystems Lab	Toxicity Evaluation of Treated Effluent, May 97 Samples
301	GWT FAC	Sep-97	LTO	EnviroSystems Lab	Toxicity Evaluation of Treated Effluent, Sep 97 Samples
303	GWT FAC	Nov-97	LTO	EnviroSystems Lab	Toxicity Evaluation of Treated Effluent, Nov 97 Samples
316	GWT FAC	Mar-98	LTO	EnviroSystems Lab	Toxicity Evaluation of Treated Effluent, Mar 98 Samples
336	GWT FAC	Jul-98	LTO	EnviroSystems Lab	Toxicity Evaluation of Treated Effluent, Jul 98 Samples
337	GWT FAC	Aug-98	LTO	EnviroSystems Lab	Toxicity Evaluation of Treated Effluent, Aug 98 Samples
342	GWT FAC	Nov-98	LTO	EnviroSystems Lab	Toxicity Evaluation of Treated Effluent, Nov 98 Samples
351	GWT FAC	Mar-99	LTO	Severn Trent Lab	Accute and Chronic Toxicity Test Report - Mar 99 Samples
358	GWT FAC	Jul-99	LTO	Severn Trent Lab	Accute and Chronic Toxicity Test Report - Jun 99 Samples
359	GWT FAC	Sep-99	LTO	Severn Trent Lab	Accute and Chronic Toxicity Test Report - Sep 99 Samples
361	GWT FAC	Dec-99	LTO	Severn Trent Lab	Accute and Chronic Toxicity Test Report - Dec 99 Samples
374	GWT FAC	Feb-00	LTO	EnviroSystems Lab	Toxicity Evaluation of Treated Effluent, Feb 2000 Samples
377	GWT FAC	May-00	LTO	EnviroSystems Lab	Toxicity Evaluation of Treated Effluent, May 2000 Samples
397	GWT FAC	Aug-00	LTO	EnviroSystems Lab	Toxicity Evaluation of Treated Effluent, Aug 2000 Samples
401	GWT FAC	Dec-00	LTO	EnviroSystems Lab	Toxicity Evaluation of Treated Effluent, Dec 2000 Samples
414	GWT FAC	Feb-01	LTO	EnviroSystems Lab	Toxicity Evaluation of Treated Effluent, Feb 2001 Samples
425	GWT FAC	May-01	LTO	EnviroSystems Lab	Toxicity Evaluation of Treated Effluent, May 2001 Samples
427	GWT FAC	Aug-01	LTO	EnviroSystems Lab	Toxicity Evaluation of Treated Effluent, August 2001 Samples
428	GWT FAC	Aug-01	LTO	Severn Trent Lab	Accute and Chronic Toxicity Test Report, August 2001 Samples
433	GWT FAC	Nov-01	LTO	EnviroSystems Lab	Toxicity Evaluation of Treated Effluent, November 2001 Samples
443	GWT FAC	Feb-02	LTO	Severn Trent Lab	Accute and Chronic Toxicity Test Report (February 2002 Samples)
451	GWT FAC	May-02	LTO	Severn Trent Lab	Accute and Chronic Toxicity Test Report (May 2002 Samples)
458	GWT FAC	Aug-02	LTO	Severn Trent Lab	Accute and Chronic Toxicity Test Report (August 2002 Samples)
459	GWT FAC	Aug-02	LTO	Severn Trent Lab	Accute and Chronic Toxicity Test Report ("Filtered" August 2002 Samples)
467	GWT FAC	Dec-02	LTO	Severn Trent Lab	Accute and Chronic Toxicity Test Report (December 2002 Samples - Filtered & Unfiltered)
474	GWT FAC	Mar-03	LTO	Severn Trent Lab	Accute and Chronic Toxicity Test Report (March 2003 Samples - Filtered & Unfiltered)
479	GWT FAC	Jul-03	LTO	Severn Trent Lab	Accute and Chronic Toxicity Test Report (July 2003 Samples - Filtered & Unfiltered)
482	GWT FAC	Dec-03	LTO	Severn Trent Lab	Accute and Chronic Toxicity Test Report (December 2003 Samples)
499	GWT FAC	Aug-04	LTO	Severn Trent Lab	Accute and Chronic Toxicity Test Report (August 2004 Samples)

OPERABLE UNIT 2/IRP SITE 4

225		4	Feb-87	RI/FS/PP/ ROD	Haley & Aldrich	IRP Phase IV-A - Hanscom AFB Area 1, Remedial Investigation Data Document
35		OU-1 & Site 4	Apr-88	ROD/DD	Hanscom AFB	RI/FS Hanscom AFB Decision Paper, Area I (Sites 1-5) - Signed 20 April 1988
27		4	May-88	RI/FS/PP/ ROD	Haley & Aldrich	IRP Phase IV-A - Hanscom AFB Area 1, Appendix F, A/E RI Interpretive Report, Sites 1-5
28		4	May-88	RI/FS/PP/ ROD	Haley & Aldrich	IRP Phase IV-A - Hanscom AFB Area 1, Introduction to Remedial Action Plans
32		4	May-88	RI/FS/PP/ ROD	Haley & Aldrich	IRP Phase IV-A - Hanscom AFB Area 1, Remedial Action Plan Site 4
33		4	May-88	RI/FS/PP/ ROD	Haley & Aldrich	IRP Phase IV-A - Hanscom AFB Area 1, Environmental Assessment
174		4	Sep-93	ROD/DD	Hanscom AFB	Technical Document to Support No Further Action Planned - Signed
56		4	Aug-87	RD	Haley & Aldrich	Construction Specifications, Site 4 Landfill Cover
57		4	Nov-87	RD	Haley & Aldrich	Revised Construction Specifications, Site 4 Landfill Cover
196		4	Nov-87	RD	Haley & Aldrich	Detailed Design Cost Estimate for Landfill Cover, Site 4
329		4	Jun-88	RA-C	WES Construction	Survey Notebook, Site 4 (Cap Old Landfill)
135		4	1988	RA-C	WES Construction	Site 4 - Cap Old Landfill Project Photographs
208		4	Nov-94	RA-O	Obrien & Geer	Request for Determination of Applicability, Mass Wetlands Protection Act
254		4	Jan-96	RA-O	LEC Environmental	Ecological Analysis Capped Landfill Area 4
268		4	Apr-97	RA-O	CH2M Hill	Baseline Human Health Risk Assessment for Operable Unit 2 (Site 4)
274		4	Apr-97	RA-O	CH2M Hill	Baseline Ecological Risk Assessment for Operable Unit 2 (Site 4)
345	1	OU1 & Site 4	Mar-00	RA-O	IT Environmental	Operation, Maintenance & Monitoring of OU-1 and Maintenance of OU-1/IRP Site 4: Part 1- Environmental Health & Safety Plan
345	2	OU1 & Site 4	Mar-00	RA-O	IT Environmental	Operation, Maintenance & Monitoring of OU-1 and Maintenance of OU-1/IRP Site 4: Part 2 - Quality Program Plan
345	3	OU1 & Site 4	Oct-00	RA-O	IT Environmental	Operation, Maintenance & Monitoring of OU-1 and Maintenance of OU-1/IRP Site 4: Part 3 - Project Specific QAPP

OU-2/IRP SITE 4 REMEDIAL ACTION - PERFORMANCE REPORTS

297		4	Sep-97	RA-O	USEPA Region I	Five-year Review Report #1, Hanscom Field/Hanscom AFB Superfund Site (OU-2/ IRP Site 4)
387		4	Jul-00	RA-O	IT Environmental	Compilation of 4 letter Reports concerning 1999 Quarterly Inspections
404		4	Feb-01	RA-O	IT Environmental	Compilation of 4 letter Reports concerning 2000 Quarterly Inspections
438		4	Jan-02	RA-O	IT Environmental	Compilation of 4 letter Reports concerning 2001 Quarterly Inspections
453		OU1/2/3	Aug-02	RA-O	Hanscom AFB	Second Five-Year Review Report for Hanscom Field/Hanscom AFB Superfund Site
468		4	Feb-03	RA-O	IT Environmental	OU2/Site 4 Long-Term Maintenance - Quarterly Inspection Reports - 2002
500		4	Oct-04	RA-O	MaraTech	OU2/Site 4 Long-Term Maintenance - Quarterly Inspection Reports - 2003
511	1	4	Sep-05	RA-O	MaraTech	OU2/Site 4 Long-Term Maintenance - Quarterly Inspection Reports - 2004
511	2	4		RA-O	MaraTech	OU2/Site 4 Long-Term Maintenance - Quarterly Inspection Reports - 2005
511	3	4	Aug-07	RA-O	MaraTech	OU2/Site 4 Long-Term Maintenance - Quarterly Inspection Reports - 2006
511	4	4		RA-O	MaraTech	OU2/Site 4 Long-Term Maintenance - Quarterly Inspection Reports - 2007
537		OU1/2/3	Aug-07	RA-O	Hanscom AFB	Third Five-Year Review Report for Hanscom Field/Hanscom AFB Superfund Site - Signed
560		4	Jan-09	RA-O	M&E	Calendar Year 2008 Remedial Action Report for NPL OU-2/IRP Site 4

OU-2/IRP SITE 4 LONG-TERM MONITORING

48	4	Apr-90	LTM	Haley & Aldrich	Long-Term Monitoring Sampling and Analysis Plan for Site 4
70	4	Apr-90	LTM	Haley & Aldrich	Long-Term Monitoring Letter Report for Site 4
76	4	Jun-90	LTM	Haley & Aldrich	Long-Term Monitoring Second Letter Report for Site 4
85	4	Aug-90	LTM	Haley & Aldrich	Long-Term Monitoring Third Letter Report for Site 4
88	4	Feb-91	LTM	Haley & Aldrich	Long-Term Monitoring Fourth Letter Report for Site 4
106	4	Jul-91	LTM	Haley & Aldrich	Long-Term Monitoring Fifth Letter Report for Site 4
102	4	Nov-91	LTM	Haley & Aldrich	Long-Term Monitoring First Annual Summary Report for Site 4 Long-Term Monitoring Sixth Letter Report for Site 4, 2nd Semi-Annual Sampling Event (Round 6)
116	4	Nov-91	LTM	Haley & Aldrich	Long-Term Monitoring Second Annual Summary Report for Site 4
138	4	Mar-92	LTM	Haley & Aldrich	Long-Term Monitoring Final Annual Summary Report for Site 4
157	4	Nov-92	LTM	Haley & Aldrich	Long-Term Monitoring Final Annual Summary Report for Site 4
218	4	Feb-95	LTM	O'Brien & Geer	Work Plan - Supplemental Sampling and Environmental Update Sampling and Analysis Plan - Supplemental Sampling and Environmental Update
219	4	Feb-95	LTM	O'Brien & Geer	Health and Safety Plan - Supplemental Sampling and Environmental Update
220	4	Feb-95	LTM	O'Brien & Geer	Laboratory Report - Total Organic Carbon
231	4	Apr-95	LTM	O'Brien & Geer	Laboratory Report - Inorganics (3 Volumes)
232	4	Apr-95	LTM	O'Brien & Geer	Laboratory Report - Volatile Organics (2 Volumes)
233	4	Apr-95	LTM	O'Brien & Geer	Laboratory Report - Semivolatile Organics (3 Volumes)
234	4	Apr-95	LTM	O'Brien & Geer	Final Report Supplemental Sampling and Environmental Update, Site 4 Sanitary Landfill
230	4	Feb-96	LTM	O'Brien & Geer	Draft- Abbreviated Sampling and Analysis Plan (for Ecological Risk Assessment)
198	4	Jul-96	LTM	CH2M Hill	Draft- Abbreviated Quality Assurance Project Plan (for Ecological Risk Assessment)
199	4	Jul-96	LTM	CH2M Hill	Operable Unit 2 Sampling Report
278	4	Aug-96	LTM	CH2M Hill	

OU-3/IRP SITE 6

13	6	Aug-88	PA/SI	Dynamac	IRP Phase II Stage I - Final Report with Appendixes A through N (8 Books, Document Numbers 13 through 19A)	
217	(Bldg 1855) 6	Jun-97	PA/SI	EA	Chemical Data Acquisition Plan - Buildings 1811, 1848 & 1855 USTs	
308	(Bldg 1855) 6	Jun-97	PA/SI	EA	Site-Specific Health & Safety Plan - Buildings 1811, 1848 & 1855 USTs	
309	(Bldg 1855) 6	Feb-98	PA/SI	EA	Site Assessment Building 1855 UST Site Investigation	
23	6	Apr-88	RI/FS	M&E	IRP Stage 2 - Final Work Plan	
24	6	Apr-88	RI/FS	M&E	IRP Stage 2 - Final Quality Assurance Project Plan	
25	6	Apr-88	RI/FS	M&E	IRP Stage 2 - Addendum to Final Quality Assurance Project Plan	
26	6	Apr-88	RI/FS	M&E	IRP Stage 2 - Final Health & Safety Plan	
44	1	6	Aug-89	RI/FS	M&E	IRP Stage 2 - Informal Technical Information Report, FS Phase I
44	2	6	Aug-89	RI/FS	M&E	IRP Stage 2 - Informal Technical Information Report, FS Phase II
44	3	6	Aug-89	RI/FS	M&E	IRP Stage 2 - Informal Technical Information Report, FS Phase III
50	6	Nov-89	RI/FS	M&E	IRP Stage 3 - Draft Work Plan	
79	6	Jul-90	RI/FS	M&E	IRP Stage 3 - Final Work Plan	
89	6	Feb-91	RI/FS	M&E	Presentation of Stage 2A Results	
95	6	May-91	RI/FS	M&E	Presentation of Risk Assessment Conclusions & Initial Phases of FS	
111	6	Aug-91	RI/FS	M&E	Presentation of Feasibility Study Phase II & III	
45	6	Jun-92	RI/FS	M&E	IRP Stage 2 & 2A - Final Technical Report, RI & FS, Volume I, II (Appendixes) & III (Analytical)	

204		6	Jun-92	RI/FS	M&E	Technical Document to Support a Remedial Action Alternative - Draft
162		6, 13, 14, 22	Aug-92	RI/FS	CoE-Omaha	Request for Proposals for Remedial Investigation Work at Sites 6, 13, Building 1813 and Building 1639
152	A	6	Mar-93	RI/FS	EA	Site Health & Safety Plan for RI - Stage 3
168		6	Mar-93	RI/FS	EA	Chemical Data Acquisition Plan for RI/FS, Site DP-07 (IRP Site 6)
299	2	6	Aug-94	RI/FS	Hartmann Associates	Control Survey, Landfill Site #6
201		6	Jul-96	RI/FS	EA	Chemical Data Acquisition Plan for RI/FS, Site DP-07 (IRP Site 6)
152	B	6	Jul-96	RI/FS	EA	Site Health & Safety Plan for RI - Stage 3A
313		6 & 21	Apr-97	RI/FS	CH2M Hill	Draft-Field Investigation Technical Memorandum for Site 6 & 21
306		6	Jan-98	RI/FS	CH2M Hill	Abbreviated Sampling & Analysis plan, Site 6
314		6	Jun-98	RI/FS	CH2M Hill	Operable Unit 3/IRP Site 6, Wetlands Sediment Field sampling Report
299	1	6	Jul-98	RI/FS	EA	Continuing Remedial Investigation, Stages 3 & 3A, SITE DP-07 (IRP Site 6) - Volume 1 - Technical Report; Volume II - Appendixes A through L
352		6	Jul-99	RI/FS	CH2M Hill	Ecological Risk Assessment, Site 6 of OU-3
353		6	Jul-99	RI/FS	CH2M Hill	Human Health Risk Assessment, Site 6 of OU-3
366		6	May-00	FS	CH2M Hill	Focused Feasibility Study - OU-1/IRP Site 6
367		6	May-00	ROD	CH2M Hill	Proposed Plan for OU-6/IRP Site 6 Landfill
380		6	Jun-00	ROD	Hanscom AFB	Public Meeting Briefing Slides for Proposed Plan for OU-6/IRP Site 6 Landfill
381		6	Jun-00	ROD	G&M/Hoey Court Reporters	Transcript of Public Hearing concerning Proposed Plan for OU-3/IRP Site 6
389		6	Sep-00	ROD	CH2M Hill	Report-Record of Decision, Operable Unit 3/Site 6-Landfill - Signed 14 Nov (AF) & 5 Dec (EPA) 2000
236		6	Aug-95	RD	CH2M Hill	Remedial Design Work Plan - Design Alternatives for Site 6
249		6	Oct-95	RD	CH2M Hill	30% Design Submittal - Design Alternatives for Site 6 - Draft
407		6	Feb-01	RD	Hanscom AFB	Report on Groundwater Sampling and Analysis at selected OU3/Site 6 Monitoring Wells
399		6	Apr-01	RD	CH2M Hill	Design Brief - Remedial Design Operable Unit 3 Site 6-Landfill
417	1	6	May-01	RA-C	IT Environmental	Environmental Cleanup Plan
418		6	May-01	RA-C	IT Environmental	Quality System Plan/Construction Quality Plan
432	4	6	5/01-9/01	RA-C	IT Environmental	Daily Quality Control Reports for Remedial Action-Construction Project at OU3/IRP Site 6 (2 Volumes)
432	1	6	Apr-02	RA-C	IT Environmental	Remedial Action Report for Landfill capping Project at OU3/IRP Site 6
432	2	6	Jun-02	RA-C	IT Environmental	Remedial Action Report Addendum for OU3/IRP Site 6 - Wetland Remediation Areas
432	3	6	Jun-02	RA-C	IT Environmental	Remedial Action Report Addendum for OU3/IRP Site 6 - Debris Excavation Area #1
417	2	6	Sep-02	RA-C	IT Environmental	Environmental Cleanup Plan Addendum - Soil Monitoring/Monitoring Well Couplet Installation
444		6	Mar-02	RA-C	USEPA-Region 1	Interim Remedial Action Report, Site 6 (OU3) Landfill/Former Filter Bed Area
462	2	6	Nov-02	RA-C	Environ. Data Svcs	Data Validation Report for Site 6 Compliance Boundary Soil Boring Samples collected in September 2002
462	1	6	Jan-03	RA-C	IT Environmental	Site 6 Compliance Boundary Monitoring Well Installation Report
417	3	6	Nov-05	RA-C	Shaw Environmental	Environmental Cleanup Plan Addendum #2 - Monitoring Well Installations - OU3/IRP Site 6
525		6	Jul-06	RA-C	Shaw Environmental	Monitoring Well Installation Report for Additional Compliance Boundary Wells at OU3/IRP Site 6
565		6	Jan-09	RA-C	M&E	Memorandum, Installation of Monitoring Wells at OU-3/IRP Site 6

SITE 6 REMEDIAL ACTION - PERFORMANCE REPORTS

453	OU1/2/3	Aug-02	RA-O	Hanscom AFB	Second Five-Year Review Report for Hanscom Field/Hanscom AFB Superfund Site	
469	6	Feb-03	RA-O	IT Environmental	OU3/IRP Site 6 Long-Term Maintenance - Quarterly Inspection Reports - 2002	
501	6	Oct-04	RA-O	MaraTech	OU2/Site 6 Long-Term Maintenance - Quarterly Inspection Reports - 2003	
512	1	6	Sep-05	RA-O	MaraTech	OU3/IRP Site 6 Long-Term Maintenance - Quarterly Inspection Reports - 2004
512	2	6		RA-O	MaraTech	OU3/IRP Site 6 Long-Term Maintenance - Quarterly Inspection Reports - 2005
512	3	6	Aug-07	RA-O	MaraTech	OU3/IRP Site 6 Long-Term Maintenance - Quarterly Inspection Reports - 2006
512	4	6		RA-O	MaraTech	OU3/IRP Site 6 Long-Term Maintenance - Quarterly Inspection Reports - 2007
537	OU1/2/3	Aug-07	RA-O	Hanscom AFB	Third Five-Year Review Report for Hanscom Field/Hanscom AFB Superfund Site - Signed	
561	6	Jan-09	RA-O	M&E	Calendar Year 2008 Remedial Action Report for NPL OU-3/IRP Site 6	

SITE 6 POST-RA WETLAND MITIGATION MONITORING

457	6	Aug-02	RA-O	IT Environmental	May 2002 Wetland Mitigation Monitoring, Hanscom AFB OU-3/IRP Site 6
463	6	Jan-03	RA-O	IT Environmental	September 2002 Wetland Mitigation Monitoring, Hanscom AFB OU-3/IRP Site 6
477	6	Aug-03	RA-O	Shaw Environmental	May 2003 Wetland Mitigation Monitoring, Hanscom AFB OU-3/IRP Site 6
481	6	Oct-03	RA-O	Shaw Environmental	September 2003 Wetland Mitigation Monitoring, Hanscom AFB OU-3/IRP Site 6
496	6	Aug-04	RA-O	Shaw Environmental	June 2004 Wetland Mitigation Monitoring, Hanscom AFB OU-3/IRP Site 6
502	6	Dec-04	RA-O	Shaw Environmental	September 2004 Wetland Mitigation Monitoring, Hanscom AFB OU-3/IRP Site 6
513	6	Feb-06	RA-O	Shaw Environmental	2005 Wetland Mitigation Monitoring, Hanscom AFB OU-3/IRP Site 6
532	6	Nov-06	RA-O	Shaw Environmental	2006 Wetland Mitigation Monitoring, Hanscom AFB OU-3/IRP Site 6

SITE 6 POST-RA LONG-TERM MONITORING

445	1	6	May-02	LTM	IT Environmental	Baseline Groundwater Monitoring Report/Post-RA Monitoring of OU3/IRP Site 6 (Dec 2001 Samples)
445	2	6	Jun-02	LTM	Environ. Data Svcs	Data Validation Report for Baseline Groundwater Monitoring (Samples collected in December 2001)
470	2	6	Dec-02	LTM	Environ. Data Svcs	Data Validation Report for Post-RA Groundwater Monitoring (October 2002 Samples) - Part 1 (VOCs et al)
470	3	6	Dec-02	LTM	Environ. Data Svcs	Data Validation Report for Post-RA Groundwater Monitoring (October 2002 Samples) - Part 2 (Metals)
470	1	6	Jul-03	LTM	IT Environmental	Groundwater Monitoring Report for Post-RA Monitoring of OU3/IRP Site 6 (October 2002 Samples)
470	4	6	Jul-03	LTM	Environ. Data Svcs	Data Validation Report for Post-RA Groundwater Monitoring (April 2003 Samples)
470	5	6	Nov-03	LTM	Shaw Environmental	Revisions to Data Validation Reports for Post-RA Groundwater Monitoring (Oct 2002 & April 2003 Samples)
487	2	6	Sep-03	LTM	Obrien & Geer	Laboratory Report for September 03 Samples, NPL OU3/IRP Site 6 - 9 Volumes
487	3	6	Oct-03	LTM	Obrien & Geer	Laboratory Report for MW 6-112U Pesticides & PCB Analysis (10/16/03 Sample), NPL OU3/IRP Site 6
487	4	6	Dec-03	LTM	Environ. Data Svcs	Data Validation Report for Post-RA Groundwater Monitoring (Sep 2003 Samples) - 5 Parts (VOCs et al)
487	1	6	Apr-04	LTM	Shaw Environmental	Groundwater Monitoring Report for Post-RA Monitoring of OU3/IRP Site 6 (Sep 03 Samples)
503	2	6	Nov-04	LTM	Obrien & Geer	Laboratory Report for October 04 Samples, NPL OU3/IRP Site 6 - 8 Volumes
503	3	6		LTM	Environ. Data Svcs	Data Validation Report for Post-RA Groundwater Monitoring (Oct 2004 Samples) - 5 Parts (VOCs et al)
503	1	6	Feb-05	LTM	Shaw Environmental	Groundwater Monitoring Report for Post-RA Monitoring of OU3/IRP Site 6 (Oct 04 Samples)
507	6	6	Apr-05	LTM	Obrien & Geer	Laboratory Report for April 05 Samples, NPL OU3/IRP Site 6 - 2 Volumes
510	6	6	Aug-05	LTM	Obrien & Geer	Laboratory Report for July 05 Samples, NPL OU3/IRP Site 6 - 1 Volume

516	2	6	Dec-05	LTM	Life Sciences Labs	Analytical Data Reports for October 05 Samples, NPL OU3/IRP Site 6 - 6 Volumes
516	3	6	Dec-05	LTM	Life Sciences Labs	Addendum - Analytical Data Reports for 2 ea October 05 SVOC Samples, NPL OU3/IRP Site 6
516	4	6	Jan-06	LTM	Environ. Data Svcs	Data Validation Report for Post-RA Groundwater Monitoring (Oct 2005 Samples) - 5 Parts (VOCs et al)
519	1	6	Feb-06	LTM	Life Sciences Labs	Laboratory Report for January 06 Samples, NPL OU3/IRP Site 6
516	1	6	Mar-06	LTM	Shaw Environmental	Groundwater Monitoring Report for Post-RA Monitoring of OU3/IRP Site 6 (Apr, Jul & Oct 05 Samples)
520		6	May-06	LTM	Life Sciences Labs	Laboratory Report for April 06 Samples, NPL OU3/IRP Site 6
521		6	Aug-06	LTM	Life Sciences Labs	Laboratory Report for July 06 Samples, NPL OU3/IRP Site 6 - 3 Volumes
528	2	6	Jan-07	LTM	Life Sciences Labs	Analytical Data Reports for October 06 Samples, NPL OU3/IRP Site 6 - CD & Hard Copy (4 Volumes)
528	3	6		LTM	Life Sciences Labs	Addendum - Analytical Data Reports for 2 ea October 05 SVOC Samples, NPL OU3/IRP Site 6
528	4	6		LTM	Environ. Data Svcs	Data Validation Report for Post-RA Groundwater Monitoring (Oct 2005 Samples) - 5 Parts (VOCs et al)
531	1	6	Feb-07	LTM	Life Sciences Labs	Analytical Data Report for January 07 Samples, NPL OU3/IRP Site 6 - CD & Hard Copy
528	1	6	May-07	LTM	Shaw Environmental	Groundwater Monitoring Report for Post-RA Monitoring of OU3/IRP Site 6 (Jan/Apr/Jul/Oct 06 Samples)
531	2	6	May-07	LTM	Life Sciences Labs	Analytical Data Report for April 07 Samples, NPL OU3/IRP Site 6 - CD & Hard Copy
531	3	6	Sep-07	LTM	Life Sciences Labs	Analytical Data Report for August 07 Samples, NPL OU3/IRP Site 6 - CD & Hard Copy
545	2	6	Nov-07	LTM	Life Sciences Labs	Analytical Data Reports for October 07 PE Samples, NPL OU3/IRP Site 6 - CD & Hard Copy
545	3	6	Nov-07	LTM	Life Sciences Labs	Analytical Data Reports for October 07 Samples, NPL OU3/IRP Site 6 - CD & Hard Copy (2 Volumes)
545	4	6	2008	LTM	Environ. Data Svcs	Data Validation Reports for Post-RA Groundwater Monitoring (All 2007 Samples) - 8 Parts
545	1	6	Feb-08	LTM	Shaw Environmental	Groundwater Monitoring Report for Post-RA Monitoring of OU3/IRP Site 6 (Jan/Apr/Aug/Oct 07 Samples)
550	1	6	May-08	LTM	Test America	Analytical Data Report for April 08 Samples, NPL OU3/IRP Site 6 - CD Only
550	2	6	Jul-08	LTM	Test America	Analytical Data Report for July 08 Samples, NPL OU3/IRP Site 6 - CD Only
558		6	Jan-09	LTM	M&E	Groundwater Monitoring Report for Post-RA Monitoring of OU-3/IRP Site 6 (Apr/Jul/Oct 08 Samples)-CD for Oct-08 Analytical Data
566	1	OU1, Sites 6, 13, 21 & 22	Jan-09	RA-C	M&E	CD - Source Files for 2008 IRP LTM Reports for OU-1, Site 6, Site 21 & MCP Sites (13 & 22)
566	2	OU1, Sites 6, 13, 21 & 22	Jan-09	RA-C	M&E	CD - Source Files for 2008 IRP LTM Reports for OU-1, Site 6, Site 21 & MCP Sites (13 & 22) + Validation Data in Excel

OU-3/IRP SITE 21

128	1	15, 21, 22	Oct-91	IRA	United Retek Corp	Request to MA DEP regarding Reuse of Petroleum Contaminated Soil
128	2	15, 21, 22	Dec-91	IRA	United Retek Corp	Report to MA DEP regarding Reuse of Petroleum Contaminated Soil
210		21	Oct-92	PA/S-IRA	Zenone, Inc.	Health & Safety Plan - Investigation, Design & Construction of IRA
180		21	Mar-94	PA/SI-IRA	Zenone, Inc.	Preliminary RI, Interim Measure Design and Groundwater Recovery
324		21	Jun-98	PA/SI	EA	Site assessment Building 1823 UST Site Investigation
245	1	21	Apr-95	IRA-DD	Hanscom AFB	Engineering Evaluation/Cost Analysis (EE/CA), OU-3/IRP SITE 21
245	2	21	Jul-95	IRA-DD	Hanscom AFB	Action Memorandum, OU-3/IRP SITE 21 - Signed
245	3	21	Jul-95	IRA-DD	Hanscom AFB	Public Review Documents, IRP EE/CA, OU-3/IRP Site 21

229		21	Dec-94	RI/FS/IRA	Hanscom AFB	RFP with Aug 94 SOW - Unit 1 Petroleum Spill RI/FS & RAM
205		21	Jul-95	RI	Kestrel	Soil Gas Survey, Unit 1 (IRP Site 21)
334	2	21	Sep-95	RI	Hanscom AFB	September 1995 Perimeter Wells Soil Borings Sampling and Analysis Results
465	2	21	Feb-97	RI	Tufts Univ	Analytical Data Reports for Soil Samples collected in February 1997
277		21	Apr-97	RI	ARA	Work Plan, Direct Push Monitoring point Assessment
313		6 & 21	Apr-97	RI	CH2M Hill	Draft-Field Investigation Technical Memorandum for Site 6 & 21
300	2	21	Jun-97	RI	ECS	12 June 97 Sampling and Analysis of Recovery Wells Response to EPA Comments on Remedial Investigation Work Plan for Site 21
304		21	Jun-97	RI	ECS	Remedial Investigation (RI) Work Plan for Site 21
248		21	Aug-97	RI	ECS	Remedial Investigation (RI) Work Plan for Site 21
465	1	21	1996/7	RI	Tufts Univ	Compilation of Papers concerning LIF Investigations at IRP Site 21
334	3	21	Jan-98	RI	Hanscom AFB	Supplemental Groundwater Sampling and Analysis December 1997
379		21	Mar-99	RI	CH2M Hill	CH2M Hill Health & Safety Plan
334		21	Apr-99	RI	ECS	Remedial Investigation (RI) IRP Site 21 (6 Volumes)
370		21	Jul-00	RI	CH2M Hill	Supplemental Remedial Investigation Report, IRP SITE 21
405		21	Jun-01	FS	CH2M Hill	Feasibility Study, Operable Unit 3/Site 21
421		21	Jul-01	ROD	CH2M Hill	Proposed Plan, Operable Unit 3/Site 21
430		21	Aug-01	ROD	G&M Court Reporters	Transcript of Public Hearing concerning Proposed Plan for OU-3/IRP Site 21
431		21	Aug-01	ROD	Hanscom AFB	Public Meeting Briefing Slides for Proposed Plan for OU3/IRP Site 21
429		21	Oct-01	ROD	Hanscom AFB	AFMC Peer Review Committee Project Summary Report
422		21	Oct-01	ROD	CH2M Hill	ROD, Operable Unit 3/Site 21 - Signed 20-Aug-02 (AF) & 29-Aug-02 (EPA)
475		21	May-03	RA-C	Shaw Environmental	Environmental Cleanup Plan, RA at OU3/IRP Site 21
483		21	Dec-03	RA-C	Shaw Environmental	Operation and Maintenance Plan, RA at OU3/IRP Site 21
492	1	21	Mar-04	RA-C	Shaw Environmental	Remedial Action Report for the Remedial Action at OU3/IRP Site 21
492	2	21	Mar-04	RA-C	Shaw Environmental	Shakedown Period Analytical Data Reports for the Remedial Action at OU3/IRP Site 21 (Sep 03-Mar 04)

SITE 21 - PRE-RA INTERIM/REMOVAL ACTIONS

188		21	May-93	IRA	Zenone, Inc.	Interim Measure Monthly Monitoring Report, 25 Mar - 27 Apr 1993
187		21	Jun-93	IRA	Zenone, Inc.	Interim Measure Monthly Monitoring Report, 27 Apr-15 Jun 93
186		21	Jul-93	IRA	Zenone, Inc.	Interim Measure Monthly Monitoring Report, 16 Jun-15 Jul 93
185		21	Aug-93	IRA	Zenone, Inc.	Interim Measure Monthly Monitoring Report, 16 Jul-16 Aug 93
184		21	Sep-93	IRA	Zenone, Inc.	Interim Measure Monthly Monitoring Report, 17 Aug-15 Sep 93
183		21	Oct-93	IRA	Zenone, Inc.	Interim Measure Monthly Monitoring Report, 16 Sep-15 Oct 93
181		21	Dec-93	IRA	Zenone, Inc.	Interim Measure Monthly Monitoring Report, Mar-Dec 93
182		21	Dec-93	IRA	Zenone, Inc.	Interim Measure Monthly Monitoring Report, 16 Oct-15 Dec 93
228		21	Jun-95	Removal Action	Kestrel	Release Abatement Plan - Revised
258		21	Jan-96	Removal Action	Kestrel	Quarterly Status Report - IRA @ Site 21, 9/28-12/31/95
262		21	Apr-96	Removal Action	Kestrel	Quarterly Status Report - IRA @ Site 21, 1/1-3/31/96
286		21	Jul-96	Removal Action	Kestrel	Quarterly Status Report - IRA @ Site 21, 4/1-6/30/96
287		21	Feb-97	Removal Action	Kestrel	Quarterly Status Report - IRA @ Site 21, 7/1-9/30/96
288		21	Feb-97	Removal Action	ECS	Quarterly Status Report - IRA @ Site 21, 10/1-12/31/96
290		21	May-97	Removal Action	ECS	Quarterly Status Report - IRA @ Site 21, 1/1-3/31/97

300	1	21	Jul-97	Removal Action	ECS	Quarterly Status Report - IRA @ Site 21, 4/1-6/30/97
302		21	Dec-97	Removal Action	ECS	Quarterly Status Report - IRA @ Site 21, 7/1-9/30/97
330		21	Jan-98	Removal Action	ECS	Quarterly Status Report - IRA @ Site 21, 10/1-12/31/97
331		21	Apr-98	Removal Action	ECS	Quarterly Status Report - IRA @ Site 21, 1/1-3/31/98
346		21	Jan-99	Removal Action	ECS	Quarterly Status Report - IRA @ Site 21, 4/1-6/30/98
347		21	Jan-99	Removal Action	ECS	Quarterly Status Report - IRA @ Site 21, 7/1-10/31/98
348	A	21	Feb-99	Removal Action	Arcadis G&M	Technical Work Plan for Demonstration of Vacuum Enhanced Recovery (VER) Technology at IRP Site 21
375		21	Jun-99	Removal Action	Hanscom AFB	Letter Report on April 1999 Groundwater Monitoring at Site21, June 1999
376		21	Aug-99	Removal Action	Hanscom AFB	Letter Report on July 1999 Groundwater Monitoring at Site21, August 1999
348	B	21	Mar-00	Removal Action	Arcadis G&M	Start Up Report for Demonstration of Vacuum Enhanced Recovery (VER) Technology at IRP Site 21
378	1	21	Jun-00	Removal Action	Hanscom AFB	Letter Report on May 2000 Groundwater Monitoring at Site21, June 2000
378	2	21	Jul-00	Removal Action	CH2M Hill	Groundwater Monitoring Memorandum, May 4, 2000 Groundwater Sampling, Site 21
395		21	Sep-00	Removal Action	Hanscom AFB	IRP Site 21 VER System O&M Manual
403		21	Feb-01	Removal Action	Hanscom AFB	Letter Report on Removal Action & October 2000 Groundwater Monitoring at Site 21, February 2001
412	1	21	Mar-01	Removal Action	IT Environmental	Analytical Data Package for Long-Term Monitoring of OU-3-Site 21 (January 2001 Samples)
412	2	21	Mar-01	Removal Action	Meridian S&T	Data Validation Report for Site 21 Groundwater Samples collected in Jan 2001
426	1	21	Aug-01	Removal Action	IT Environmental	May-July 2001 Stage 1 (Pre-RA) Long-Term Monitoring Report for OU-3/IRPSite 21
426	2	21	Jul-01	Removal Action	Meridian S&T	Data Validation Report for Site 21 Groundwater Samples collected in May 2001
439	2	21	Feb-02	Removal Action	Meridian S&T	Data Validation Report for Site 21 Groundwater Samples collected in October 2001
439	1	21	Mar-02	Removal Action	IT Environmental	October 2001 - January 2002 Stage 1 (Pre-RA) Long-Term Monitoring Report for OU-3/IRPSite 21
450	2	21	Jun-02	Removal Action	Environ. Data Svcs	Data Validation Report for Site 21 Groundwater Samples collected in May 2002
450	1	21	Oct-02	Removal Action	IT Environmental	May-July 2002 Stage 1 (Pre-RA) Long-Term Monitoring Report for OU-3/IRPSite 21
473	2	21	Mar-03	Removal Action	Environ. Data Svcs	Data Validation Report for Site 21 Groundwater Samples collected in Dec 2002
473	1	21	May-03	Removal Action	Shaw Environmental	Oct-Dec 2002 Stage 1 (Pre-RA) Long-Term Monitoring Report for OU-3/IRPSite 21

SITE 21 REMEDIAL ACTION - PERFORMANCE REPORTS

453		OU1/2/3	Aug-02	RA-O	Hanscom AFB	Second Five-Year Review Report for Hanscom Field/Hanscom AFB Superfund Site
484		21	Monthly	RA-O	HAFB & Shaw	Monthly Remedial Action Reports, NPL OU-3/IRP Site 21 - September thru December 2003
485	1	21	Monthly	RA-O	HAFB & MaraTech	Monthly Remedial Action Reports, NPL OU-3/IRP Site 21 - January thru December 2004
485	2	21	Monthly	RA-O	HAFB & MaraTech	Monthly Remedial Action Reports, NPL OU-3/IRP Site 21 - January thru December 2005
485	3	21	Monthly	RA-O	HAFB & MaraTech	Monthly Remedial Action Reports, NPL OU-3/IRP Site 21 - January thru December 2006
485	4	21	Monthly	RA-O	HAFB & MaraTech	Monthly Remedial Action Reports, NPL OU-3/IRP Site 21 - January thru December 2007
537		OU1/2/3	Aug-07	RA-O	Hanscom AFB	Third Five-Year Review Report for Hanscom Field/Hanscom AFB Superfund Site - Signed
564		21	Monthly	RA-O	HAFB & M&E	Monthly Remedial Action Reports, NPL OU-3/IRP Site 21 - 2008

SITE 21 POST-RA LONG-TERM MONITORING

491		21	Mar-04	LTM	Shaw Environmental	October 2003 Stage 2 Post-RA Baseline Long-Term Monitoring
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						Report for OU3/IRP Site21
497	3	21	Apr-04	LTM	Obrien & Geer	Laboratory Report April 2004 Samples, NPL OU3/IRP Site 21
497	1	21	Sep-04	LTM	Shaw Environmental	April 2004 Post-RA Long-Term Monitoring Report for OU3/IRP Site 21
497	2	21	Jun-04	LTM	Environ. Data Svcs	Data Validation Report for OU-3/IRP Site 21 LTM Report (Apr 04 Samples)
504	2	21	Dec-04	LTM	Obrien & Geer	Laboratory Report November 2004 Samples, NPL OU3/IRP Site 21
504	3	21		LTM	Environ. Data Svcs	Data Validation Report for OU-3/IRP Site 21 LTM Report (November 2004 Samples)
504	1	21	Mar-05	LTM	Shaw Environmental	November 2004 Post-RA Long-Term Monitoring Report for OU3/IRP Site 21
509	2	21	Apr-05	LTM	Obrien & Geer	Laboratory Report April 2005 Samples, NPL OU3/IRP Site 21
509	3	21	Jun-05	LTM	Environ. Data Svcs	Data Validation Report for OU-3/IRP Site 21 LTM Report (April 2005 Samples)
509	1	21	Aug-05	LTM	Shaw Environmental	April 2005 Post-RA Long-Term Monitoring Report for OU3/IRP Site 21
517	2	21	Nov-05	LTM	Life Sciences Labs	Analytical Data Report October 2005 Samples, NPL OU3/IRP Site 21
517	3	21	Jan-06	LTM	Environ. Data Svcs	Data Validation Report for OU-3/IRP Site 21 LTM Report (October 2005 Samples)
517	1	21	Mar-06	LTM	Shaw Environmental	October 2005 Post-RA Long-Term Monitoring Report for OU3/IRP Site 21
522		21	May-06	LTM	Life Sciences Labs	Laboratory Report April 2006 Samples, NPL OU3/IRP Site 21
529	2	21	Nov-06	LTM	Life Sciences Labs	Analytical Data Report October 2006 Samples, NPL OU3/IRP Site 21- CD & Hard Copy (3 Volumes)
529	3	21	Jan-07	LTM	Environ. Data Svcs	Data Validation Report for OU-3/IRP Site 21 LTM Report (April & October 2006 Samples)
529	1	21	Apr-07	LTM	Shaw Environmental	April & October 2006 Post-RA Long-Term Monitoring Report for OU3/IRP Site 21
541		21	Jun-07	LTM	Life Sciences Labs	Analytical Data Report May 2007 Samples, NPL OU3/IRP Site 21- 1 Volume
546	2	21	Jun-07	LTM	Life Sciences Labs	Analytical Data Report May 2007 Samples, NPL OU3/IRP Site 21 - CD & Hard Copy (1 Volume)
546	3	21		LTM	Life Sciences Labs	Analytical Data Report October 2007 Samples, NPL OU3/IRP Site 21- CD & Hard Copy (2 Binders)
546	4	21	2007	LTM	Environ. Data Svcs	Data Validation Report for OU-3/IRP Site 21 LTM Report (May & October 2007 Samples)
546	1	21	Apr-08	LTM	Shaw Environmental	May & October 2007 Post-RA Long-Term Monitoring Report for OU3/IRP Site 21
549		21	Apr-08	LTM	Test America	Analytical Data Report April 2008 Samples, NPL OU3/IRP Site 21 - CD Only
557		21	Jan-09	LTM	M&E	Annual Long-Term Monitoring Report for NPL OU-3/IRP Site 21, April & October 2008 Post-RA w/CD of Oct-08 Analytical Data Report
566	1	OU1, Sites 6, 13, 21 & 22	Jan-09	RA-C	M&E	CD - Source Files for 2008 IRP LTM Reports for OU-1, Site 6, Site 21 & MCP Sites (13 & 22)
566	2	OU1, Sites 6, 13, 21 & 22	Jan-09	RA-C	M&E	CD - Source Files for 2008 IRP LTM Reports for OU-1, Site 6, Site 21 & MCP Sites (13 & 22) + Validation Data in Excel

MCP/NON-NPL SITES

SITE 13

13	13	Aug-88	PA/SI	Dynamac	IRP Phase II Stage I - Final Report with Appendixes A through N (8 Books, Document Numbers 13 through 19A)
73	13	Oct-88	PA/SI	Plunlett	Vadose Zone Air Sampling Report
23	13	Apr-88	RI/FS	M&E	IRP Stage 2 - Final Work Plan
24	13	Apr-88	RI/FS	M&E	IRP Stage 2 - Final Quality Assurance Project Plan
25	13	Apr-88	RI/FS	M&E	IRP Stage 2 - Addendum to Final Quality Assurance Project Plan

26		13	Apr-88	RI/FS	M&E	IRP Stage 2 - Final Health & Safety Plan
50		13	Nov-89	RI/FS	M&E	IRP Stage 3 - Draft Work Plan
79		13	Jul-90	RI/FS	M&E	IRP Stage 3 - Final Work Plan
89		13	Feb-91	RI/FS	M&E	Presentation of Stage 2A Results
95		13	May-91	RI/FS	M&E	Presentation of Risk Assessment Conclusions & Initial Phases of FS
111		13	Aug-91	RI/FS	M&E	Presentation of Feasibility Study Phase II & III
45		13	Jun-92	RI/FS	M&E	IRP Stage 2 & 2A - Final Technical Report, RI & FS, Volume I, II (Appendixes) & III (Analytical)
162		6, 13, 14, 22	Aug-92	RI/FS	CoE-Omaha	Request for Proposals for Remedial Investigation Work at Sites 6, 13, Building 1813 and Building 1639
166		13	Mar-93	RI/FS	EA	Chemical Data Acquisition Plan for RI/FS, Site 13 (Building 1642)
167		13	Mar-93	RI/FS	EA	Site Health & Safety Plan for RI - Site 13
216		13	Dec-94	RI/FS	EA	Chemical Data Acquisition Plan for Additional RI/FS, Site 13 (Building 1642) - Internal Draft
273	1	13	Aug-96	RI/FS	EA	MCP Phase I Report Submittal Site 13 Motor Pool (MCP Site # 3-2686)
273	2	13	Sep-97	RI/FS	EA	Additional Investigation Report, Site 13 (Motor Pool)
207		13	Apr-94	IRA	ATEC Associates Inland Waters Pollution Control	Laboratory Report, UST Removals, Sep 1993
158		13	Nov-95	IRA		Building 1642 Oil/Water Separator Removal Closure Report
203		13	Jun-92	ROD/DD RI/FS/DD/ RD	M&E	Technical Document to Support a Remedial Action Alternative - Draft
344	1	13	Jan-99	RD	CH2M Hill	Revised MCP Phase II, Phase III, Phase IV, Motor Pool Area (IRP Site 13)
344	2	13	Jan-99	ROD/DD	CH2M Hill	MCP Response Action Outcome (RAO) Statement, Motor Pool Area (IRP Site 13)

SITE 13 REMEDIAL ACTION - PERFORMANCE REPORTS

360		13	Dec-99	RA-O	CH2M Hill	Groundwater Monitoring Report-July 1999-Base Motor Pool-Site 13
371		13	Mar-00	RA-O	CH2M Hill	Groundwater Monitoring Report-December 1999-Base Motor Pool-Site 13
415		13	Mar-01	RA-O	CH2M Hill	Groundwater Monitoring Report-December 2000-Base Motor Pool-Site 13
442	1	13/22/FAF S	Mar-02	RA-O	IT Environmental	Groundwater Monitoring Report - Site 13, 22 & FAFS UST Site - December 2001 Samples
442	2	13/22/FAF S	Jan-02	RA-O	Environ. Data Svcs	Data Validation Report for Site 13, 22 & FAFS UST Site - December 2001 Samples
452		13/22/FAF S	Aug-02	RA-O	IT Environmental	Periodic Evaluation (5-Year Review) for IRP Site 13, IRP Site 22 & FAFS UST Site
460	1	13/22/FAF S	Feb-03	RA-O	IT Environmental	Groundwater Monitoring Report - Site 13, 22, AAFES Dispensing Area AOC & FAFS UST Site - Sep & Nov 2002 Samples
460	2	13/22/FAF S	Nov-02	RA-O	Environ. Data Svcs	Data Validation Report for Site 13, 22, AAFES Dispensing Area AOC & FAFS UST Site - Sep 2002 Groundwater Samples
460	3	13/22/FAF S	Oct-02	RA-O	Eastern Analytical	Laboratory Reports for MCP Monitoring (September 2002 Samples), IRP Sites 13 & 22 and FAFS UST Site
478	1	13/22/FAF S	Aug-03	RA-O	Shaw Environmental	Groundwater Monitoring Report - Site 13, 22, AAFES Dispensing Area AOC & FAFS UST Site - June 2003 Samples
478	2	13/22/FAF S		RA-O	Eastern Analytical	Laboratory Reports for MCP Monitoring (June 2003 Samples), IRP Sites 13 & 22 and FAFS UST Site
489		13/22/FAF S	Feb-04	RA-O	Shaw Environmental	ISOC System Report & Semi-Annual Transmittal-Site 13/22/AAFES Dispensing Area AOC & FAFSUST Site-Jul thru Dec 2003
495		13/22/FAF S	Jun-04	RA-O	Shaw Environmental	Groundwater Monitoring Report - Site 13, 22, AAFES Dispensing Area AOC & FAFS UST Site - March 2004 Samples
506		13/22/FAF S	Feb-05	RA-O	Shaw Environmental	Groundwater Monitoring Report - Site 13, 22, AAFES Dispensing Area AOC & FAFS UST Site - Jul & Dec-04 Samples
508	1	13/22/FAF S	Aug-05	RA-O	Shaw Environmental	Groundwater Monitoring Report - Site 13, 22, AAFES Dispensing Area AOC & FAFS UST Site - April 2005 Samples
508	2	13/22/FAF S	May-05	RA-O	Severn Trent Lab	Laboratory Report for April 05 Samples - Site 13, 22, AAFES Dispensing Area AOC & FAFS UST Site
515		13/22/FAF S	Feb-06	RA-O	Shaw Environmental	Groundwater Monitoring Report - Site 13, 22, AAFES Dispensing Area AOC & FAFS UST Site - October 2005 Samples
523		13/22/FAF	Aug-06	RA-O	Shaw Environmental	Groundwater Monitoring Report - Site 13, 22, AAFES Dispensing

						Area AOC & FAFS UST Site - April 2006 Samples
527		13/22/FAF S	Feb-07	RA-O	Shaw Environmental	Groundwater Monitoring Report - October 2006 Samples, IRP Site 22
540		13/22/FAF S	Aug-07	RA-O	Shaw Environmental	Periodic Evaluation (5-Year Review) for IRP Site 13, IRP Site 22 & FAFS UST Site
548		13/22/FAF S	Feb-08	RA-O	Shaw Environmental	Semi-Annual Inspection & Monitoring Report (1-Jul-07-31-Dec-07) & Groundwater Monitoring Report for Site 22-Nov-07 Samples
553		13/22	Aug-08	RA-O	M&E	Semi-Annual Inspection & Monitoring Report (1-Jan-30-Jun-08) for Site 22 (RTN 3-3882 & RTN 3-20341) & Site 13 (RTN 3-2686)
556		13/22	Jan-09	RA-O	M&E	Semi-Annual Inspection & Monitoring Report (1-Jul-31-Dec-08) for Site 22 (RTN 3-3882 & RTN 3-20341) & Site 13 (RTN 3-2686)
566	1	OU1, Sites 6, 13, 21 & 22	Jan-09	RA-C	M&E	CD - Source Files for 2008 IRP LTM Reports for OU-1, Site 6, Site 21 & MCP Sites (13 & 22)
566	2	OU1, Sites 6, 13, 21 & 22	Jan-09	RA-C	M&E	CD - Source Files for 2008 IRP LTM Reports for OU-1, Site 6, Site 21 & MCP Sites (13 & 22) + Validation Data in Excel
SITE 22						
128	1	15, 21, 22	Oct-91	IRA	United Retek Corp	Request to MA DEP regarding Reuse of Petroleum Contaminated Soil
128	2	15, 21, 22	Dec-91	IRA	United Retek Corp	Report to MA DEP regarding Reuse of Petroleum Contaminated Soil
154		22	Sep-92	IRA	AFCEE	Test Plan for Bioventing Initiative Field Test at Building 1639 and Building 1812
149		22	Feb-93	IRA	Battelle	Interim Report for Bioventing Initiative
264	1	22	Feb-95	IRA	AFCEE	Completion of One-Year Bioventing Field Test, Buildings 1639 & 1812
150		22	Nov-95	IRA	Hanscom AFB	MFR - Building 1639 Tank Removal Contract (GZA 1990, 1991 & 1992)
264	2	22	Jun-96	IRA	Parsons/AFCEE	Bioventing Performance and Cost Results from Multiple AF Test Sites
162		6, 13, 14, 22	Aug-92	RI/FS	CoE-Omaha	Request for Proposals for Remedial Investigation Work at Sites 6, 13, Building 1813 and Building 1639
253	I	22	Oct-92	RI/FS	EA	Site Health & Safety Plan - Buildings 1639 & 1813
253	D	22	Nov-92	RI/FS	EA	Chemical Data Acquisition Plan for Comprehensive Site Investigation at Building 1639
253	G	22	Dec-92	RI/FS	EA	Analytical Data - 3 Soil Samples on 30-Nov-92 at Building 1639
253	F	22	Jan-93	RI/FS	EA	Analytical Data - 7 Water Samples on 11-Jan-93 at Building 1639
163		22	Feb-93	RI/FS	EA	Monitoring Well Construction Report, Building 1639
160		22	Apr-93	RI/FS	EA	Building 1639 Well Monitoring Field Log Book
253	B	22	May-93	RI/FS	EA	Analytical Data Report, Building 1639
253	J	22	May-93	RI/FS	EA	Draft Comprehensive Site Assessment Report
253	K	22	May-93	RI/FS	EA	Appendixes, Comprehensive Site Assessment Report, Building 1639 (AAFES Service station)
253	E	22	Jun-93	RI/FS	EA	Addendum to Analytical Data Report, Building 1639
253	C	22	Mar-94	RI/FS	EA	Supplemental Chemical Data Acquisition Plan for Comprehensive Site Investigation at Building 1639
253	H	22	Mar-94	RI/FS	EA	Site Health & Safety Plan - Building 1639
253	A	22	Aug-95	RI/FS	EA	Analytical Data Report (Part 2) for Comprehensive Site Investigation at Building 1639
253		22	Jan-96	RI/FS	EA	Site Investigation Report, IRP Site 22 (Building 1639, AAFES Service Station) - 3 Volumes
280		22	Jun-96	RI/FS	CH2M Hill	MCP Phase I Initial Site Investigational Report & Tier Classification, IRP Site 22 (Building 1639, AAFES Service Station)
341		22	Dec-96	RI/FS	CH2M Hill	Memorandum-Groundwater Monitoring Event, July 3rd & 18th, 1996-AAFES Service Station, Site 22
294	1	22	Aug-97	RI/FS/DD/ RD	CH2M Hill	MCP Phase II, Phase III, Phase IV, IRP Site 22 (Building 1639, AAFES Service Station)

294 2 22 Sep-97 ROD/DD CH2M Hill

MCP Response Action Outcome (RAO) Statement, Site 22
(Building 1639, AAFES Service Station)

SITE 22 REMEDIAL ACTION - PERFORMANCE REPORTS

317		22	Aug-98	LTM	CH2M Hill	Groundwater Monitoring Report - December 1997 - AAFES Service Station (IRP Site 22)
349		22	Apr-99	LTM	CH2M Hill	Groundwater Monitoring Report - December 1998 - AAFES Service Station (IRP Site 22)
372		22	Mar-00	LTM	CH2M Hill	Groundwater Monitoring Report - December 1999 - AAFES Service Station (IRP Site 22)
384		22	Jul-00	LTM	CH2M Hill	Groundwater Monitoring Memorandum, June 22, 2000 Groundwater Sampling, IRP Site 22
416		22	May-01	LTM	CH2M Hill	Groundwater Monitoring Report - June & December 2000-AAFES Service Station (IRP Site 22)
441		22	Jul-01	LTM	IT Environmental	IRP Site 22 Sampling Results - May 24, 2001 with Data Validation Report
442	1	13/22/FAF S	Mar-02	RA-O	IT Environmental	Groundwater Monitoring Report - Site 13, 22 & FAFS UST Site - December 2001 Samples
442	2	13/22/FAF S	Jan-02	RA-O	Environ. Data Svcs	Data Validation Report for Site 13, 22 & FAFS UST Site - December 2001 Samples
452		13/22/FAF S	Aug-02	RA-O	IT Environmental	Periodic Evaluation (5-Year Review) for IRP Site 13, IRP Site 22 & FAFS UST Site
460	1	13/22/FAF S	Feb-03	RA-O	IT Environmental	Groundwater Monitoring Report - Site 13, 22, AAFES Dispensing Area AOC & FAFS UST Site - Sep & Nov 2002 Samples
460	2	13/22/FAF S	Nov-02	RA-O	Environ. Data Svcs	Data Validation Report for Site 13, 22, AAFES Dispensing Area AOC & FAFS UST Site - Sep 2002 Groundwater Samples
460	3	13/22/FAF S	Oct-02	RA-O	Eastern Analytical	Laboratory Reports for MCP Monitoring (September 2002 Samples), IRP Sites 13 & 22 and FAFS UST Site
478	1	13/22/FAF S	Aug-03	RA-O	Shaw Environmental	Groundwater Monitoring Report - Site 13, 22, AAFES Dispensing Area AOC & FAFS UST Site - June 2003 Samples
478	2	13/22/FAF S		RA-O	Eastern Analytical	Laboratory Reports for MCP Monitoring (June 2003 Samples), IRP Sites 13 & 22 and FAFS UST Site
489		13/22/FAF S	Feb-04	RA-O	Shaw Environmental	ISOC System Report & Semi-Annual Transmittal-Site 13/22/AAFES Dispensing Area AOC & FAFSUST Site-Jul thru Dec 2003
495		13/22/FAF S	Jun-04	RA-O	Shaw Environmental	Groundwater Monitoring Report - Site 13, 22, AAFES Dispensing Area AOC & FAFS UST Site - March 2004 Samples
506		13/22/FAF S	Feb-05	RA-O	Shaw Environmental	Groundwater Monitoring Report - Site 13, 22, AAFES Dispensing Area AOC & FAFS UST Site - Jul & Dec-04 Samples
508	1	13/22/FAF S	Aug-05	RA-O	Shaw Environmental	Groundwater Monitoring Report - Site 13, 22, AAFES Dispensing Area AOC & FAFS UST Site - April 2005 Samples
508	2	13/22/FAF S	May-05	RA-O	Severn Trent Lab	Laboratory Report for April 05 Samples - Site 13, 22, AAFES Dispensing Area AOC & FAFS UST Site
515		13/22/FAF S	Feb-06	RA-O	Shaw Environmental	Groundwater Monitoring Report - Site 13, 22, AAFES Dispensing Area AOC & FAFS UST Site - October 2005 Samples
523		13/22/FAF S	Aug-06	RA-O	Shaw Environmental	Groundwater Monitoring Report - Site 13, 22, AAFES Dispensing Area AOC & FAFS UST Site - April 2006 Samples
527		13/22/FAF S	Feb-07	RA-O	Shaw Environmental	Groundwater Monitoring Report - October 2006 Samples, IRP Site 22
540		13/22/FAF S	Aug-07	RA-O	Shaw Environmental	Periodic Evaluation (5-Year Review) for IRP Site 13, IRP Site 22 & FAFS UST Site
548		13/22/FAF S	Feb-08	RA-O	Shaw Environmental	Semi-Annual Inspection & Monitoring Report (1-Jul-07-31-Dec-07) & Groundwater Monitoring Report for Site 22-Nov-07 Samples
553		13/22	Aug-08	RA-O	M&E	Semi-Annual Inspection & Monitoring Report (1-Jan-30-Jun-08) for Site 22 (RTN 3-3882 & RTN 3-20341) & Site 13 (RTN 3-2686)
556		13/22	Jan-09	RA-O	M&E	Semi-Annual Inspection & Monitoring Report (1-Jul-31-Dec-08) for Site 22 (RTN 3-3882 & RTN 3-20341) & Site 13 (RTN 3-2686)
566	1	OU1, Sites 6, 13, 21 & 22	Jan-09	RA-C	M&E	CD - Source Files for 2008 IRP LTM Reports for OU-1, Site 6, Site 21 & MCP Sites (13 & 22)
566	2	OU1, Sites 6, 13, 21 & 22	Jan-09	RA-C	M&E	CD - Source Files for 2008 IRP LTM Reports for OU-1, Site 6, Site 21 & MCP Sites (13 & 22) + Validation Data in Excel

SITE 22 AOC - AAFES SERVICE STATION DISPENSING AREA

434 AOC-AAFES May-01 IRA ENPRO

Immediate Response Action Status Report, Gasoline and Diesel Release, AAFES Service Station

435	1	AOC- AAFES	Nov-01	IRA	ENPRO	Immediate Response Action Status Report, Gasoline and Diesel Release, AAFES Service Station
435	2	AOC- AAFES	Dec-01	IRA	ENPRO	Analytical Results and Summary Table (Nov 01 Samples), AAFES Gas Station
436		AOC- AAFES	Jan-02	IRA	ENPRO	Immediate Response Action Completion Report, Gasoline and Diesel Release, AAFES Service Station
437		AOC- AAFES	Jan-02	ROD	IT Environmental	Response Action Outcome Statement, AAFES Service Station, Bldg 1639
448		AOC- AAFES	Jun-02	RA-O	IT Environmental	Post-RAO Groundwater Monitoring Report, AAFES Service Station, Bldg 1639

CLOSED SITES**SITE 5**

31			May-88	RI/FS/PP/ ROD	Haley & Aldrich	IRP Phase IV-A - Hanscom AFB Area 1, Remedial Action Plan, Site 3/5
103			Oct-91	ROD/DD	Haley & Aldrich	Decision Document - No Further Action - Signed

SITE 7

13			Aug-88	PA/SI	Dynamac	IRP Phase II Stage I - Final Report with Appendixes A through N (8 Books, Document Numbers 13 through 19A)
23			Apr-88	ROD/DD	M&E	IRP Stage 2 - Final Work Plan
46	1		Dec-90	ROD/DD	M&E	Technical Document to Support No Further Action - Signed

SITE 8

13			Aug-88	PA/SI	Dynamac	IRP Phase II Stage I - Final Report with Appendixes A through N (8 Books, Document Numbers 13 through 19A)
87			Sep-89	PA/SI	Briggs	Preliminary Environmental Assessment Report
23			Apr-88	RI/FS	M&E	IRP Stage 2 - Final Work Plan
24			Apr-88	RI/FS	M&E	IRP Stage 2 - Final Quality Assurance Project Plan
25			Apr-88	RI/FS	M&E	IRP Stage 2 - Addendum to Final Quality Assurance Project Plan
26			Apr-88	RI/FS	M&E	IRP Stage 2 - Final Health & Safety Plan
45			Jun-92	RI/FS	M&E	IRP Stage 2 & 2A - Final Technical Report, RI & FS, Volume I, II (Appendixes) & III (Analytical)
47			Dec-90	ROD/DD	M&E	Technical Document to Support a Remedial Action Alternative - Signed
127			Dec-91	ROD/DD	Hanscom AFB	No Further Action Required Decision Document - Signed
406			Jan-01	ROD/DD	CH2M HILL	Technical Memorandum, November 21, 2000 Groundwater Sampling, Site 8

SITE 9

13			Aug-88	PA/SI	Dynamac	IRP Phase II Stage I - Final Report with Appendixes A through N (8 Books, Document Numbers 13 through 19A)
23			Apr-88	ROD/DD	M&E	IRP Stage 2 - Final Work Plan
46	2		Dec-90	ROD/DD	M&E	Technical Document to Support No Further Action - Signed

SITE 10

21			Apr-87	PA/SI	Donohue	IRP Phase II Confirmation/Quantification Stage I - Final Report
13			Aug-88	PA/SI	Dynamac	IRP Phase II Stage I - Final Report with Appendixes A through N (8 Books, Document Numbers 13 through 19A)

22		10	Mar-88	RA	Donohue	Site 10 Mercury Removal
39		10	Dec-89	ROD/DD	Hanscom AFB	Close-Out Report - Signed
SITE 11						
13		11	Aug-88	PA/SI	Dynamac	IRP Phase II Stage I - Final Report with Appendixes A through N (8 Books, Document Numbers 13 through 19A)
23		11	Apr-88	ROD/DD	M&E	IRP Stage 2 - Final Work Plan
46	3	11	Dec-90	ROD/DD	M&E	Technical Document to Support No Further Action - Signed
SITE 12						
13		12	Aug-88	PA/SI	Dynamac	IRP Phase II Stage I - Final Report with Appendixes A through N (8 Books, Document Numbers 13 through 19A)
23		12	Apr-88	ROD/DD	M&E	IRP Stage 2 - Final Work Plan
46	4	12	Dec-90	ROD/DD	M&E	Technical Document to Support No Further Action - Signed
SITE 14 = UST REPLACEMENT AT BUILDINGS 1120, 1429, 1811, 1813, 1816, 1817 & 1825						
69		14	Nov-85	Reference	CoE/Kasper Associates	Specifications for Multi-Site UST Replacements
109		14	Nov-87	PA/SI	Hanscom AFB	Underground Storage Tank Replacement Project and Leak Discovery Response
41		14	Apr-90	PA/SI	Law Environmental	Work Plan & QC Sampling Plan, Multi-Site UST Investigation
42		14	Apr-90	PA/SI	Law Environmental	SHERP, Multi-Site UST Investigation
92		14	Jun-91	PA/SI	Law Environmental	Site Investigation Report for Multi-Site UST Investigation
321		14 (1120)	Jun-98	ROD/DD	EA	Site Assessment Building 1120 UST Site Investigation
217		14 (1811)	Jun-97	PA/SI	EA	Chemical Data Acquisition Plan - Buildings 1811, 1848 & 1855 UST Site Investigation
308		14 (1811)	Jun-97	PA/SI	EA	Site Specific Health & Safety Plan, Buildings 1811, 1848 & 1855 UST Site Investigation
311		14 (1811)	Feb-98	ROD/DD	EA	Site Assessment Building 1811 UST Site Investigation
162		6, 13, 14, 22 & 14	Aug-92	RI/FS	CoE-Omaha	Request for Proposals for Remedial Investigation Work at Sites 6, 13, Building 1813 and Building 1639
253	I	(1813)	Oct-92	RI/FS	EA	Site Health & Safety Plan, Buildings 1639 & 1813
175		14 (1813)	Nov-92	RI/FS	EA	Chemical Data Acquisition Plan for Remedial Investigation at Building 1813
159		14 (1813)	Feb-93	RI/FS	EA	Building 1813 Well Monitoring Field Log Book
164		14 (1813)	Mar-93	RI/FS	EA	Building 1813 Monitoring Well Construction Report
165		14 (1813)	Apr-93	RI/FS	EA	Analytical Results for Investigation of a Suspected Hazardous Waste, Building 1813
215		14 (1813)	Feb-95	RI/FS	EA	Remedial Investigation Report with Appendixes (2 Volumes)
213	1	14 (1813)	Oct-94	RA	ATEC Associates	MCP Release Abatement Measure Completion Report
322		14 (1813)	Jun-98	ROD/DD	EA	Site Assessment Building 1813 UST Site Investigation
213	2	14 (1813)	Oct-94	ROD/DD	ATEC Associates	MCP Response Action Outcome (RAO) Statement
323		14 (1816)	Jun-98	ROD/DD	EA	Site Assessment Building 1816 UST Site Investigation
320	A	14 (1817)	Jul-93	ROD/DD	EA	Draft Decision Document for Building 1817, Site ST-14
320	B	14 (1817)	Jun-98	ROD/DD	EA	Site Assessment Building 1817 UST Site Investigation

325	14 (1825)	Jun-98	ROD/DD	EA	Site Assessment Building 1825 UST Site Investigation
392	14	Sep-00	ROD/DD	Hanscom AFB	Final - Technical Document to Support No Further Action, IRP Site 14 - Signed
<u>SITE 15 = ABANDONED USTs AT BUILDINGS 1700 (2), 1701, 1830 & 1848</u>					
104	15	Aug-90	IRA-D	Law Environmental	Specifications for Multi-Site UST Removal
80	15	Sep-90	IRA-D	Law Environmental	Site Specific Quality Management Plan, Multi-Site UST Removal
137	15	1990	IRA-C	Zenone, Inc.	Multi-Site Underground Storage Tank Removal Project Photographs
105	15	Feb-91	IRA-C	CoE-Omaha	Quality Control Test Results for Multi-Site UST Removal
128	1	15, 21, 22	Oct-91	IRA-C	United Retek Corp Request to MA DEP regarding Reuse of Petroleum Contaminated Soil
128	2	15, 21, 22	Dec-91	IRA-C	United Retek Corp Report to MA DEP regarding Reuse of Petroleum Contaminated Soil
318	15 (1700)	Jun-98	ROD/DD	EA	Site Assessment Building 1700 UST Site Investigation
319	15 (1701)	Jun-98	ROD/DD	EA	Site Assessment Building 1701 UST Site Investigation
326	15 (1830)	Jun-98	ROD/DD	EA	Site Assessment Building 1830 UST Site Investigation
217	15 (1848)	Jun-97	PA/SI	EA	Chemical Data Acquisition Plan - Buildings 1811, 1848 & 1855 UST Site Investigation
308	15 (1848)	Jun-97	PA/SI	EA	Site Specific Health & Safety Plan, Buildings 1811, 1848 & 1855 UST Site Investigation
310	15 (1848)	Feb-98	ROD/DD	EA	Site Assessment Building 1848 UST Site Investigation
393	15	Sep-00	ROD/DD	Hanscom AFB	Final - Technical Document to Support No Further Action, IRP Site 15 - Signed
<u>SITE 16</u>					
91	16 (T-860)	Apr-91	PA/SI	Law Environmental	Site Safety and Health Plan (SSHP) for Investigation of Suspected Hazardous Waste Sites
94	16 (T-860)	Apr-91	PA/SI	Law Environmental	Chemical Data Acquisition Plan for Investigation of Suspected Hazardous Waste Sites
117	16 (T-860)	Nov-91	PA/SI	Law Environmental	Analytical Results Report for Investigation of Suspected Hazardous Waste Sites
141	16 (T-860)	Jul-93	PA/SI	Law Environmental	SI Report for Investigation of Suspected Hazardous Waste Sites
195	16 (T-860)	Sep-94	ROD/DD	EA	No Further Response Action Planned Decision Document - Signed
<u>SITE 17</u>					
71	17 (1103)	May-90	RA	STD Methods	Report on Soil Characteristics of Stockpiles at Buildings BLDGS 1103 & 1102-C
107	17 (1103)	Nov-89	PA/SI	Clean Harbors	Report of Field Sampling Program
91	17 (1103)	Apr-91	PA/SI	Law Environmental	Site Safety and Health Plan (SSHP) for Investigation of Suspected Hazardous Waste Sites
94	17 (1103)	Apr-91	PA/SI	Law Environmental	Chemical Data Acquisition Plan for Investigation of Suspected Hazardous Waste Sites
117	17 (1103)	Nov-91	PA/SI	Law Environmental	Analytical Results Report for Investigation of Suspected Hazardous Waste Sites
141	17 (1103)	Jul-93	PA/SI	Law Environmental	SI Report for Investigation of Suspected Hazardous Waste Sites
177	17 (1103)	Sep-93	ROD/DD	EA	Site Decision document for Close-Out - Signed
<u>SITE 18</u>					
71	18	May-90	RA	STD Methods	Report on Soil Characteristics of Stockpiles at Buildings BLDGS

	(1102C)				1103 & 1102-C
91	18 (1102C)	Apr-91	PA/SI	Law Environmental	Site Safety and Health Plan (SSHP) for Investigation of Suspected Hazardous Waste Sites
94	18 (1102C)	Apr-91	PA/SI	Law Environmental	Chemical Data Acquisition Plan for Investigation of Suspected Hazardous Waste Sites
117	18 (1102C)	Nov-91	PA/SI	Law Environmental	Analytical Results Report for Investigation of Suspected Hazardous Waste Sites
141	18 (1102C)	Jul-93	PA/SI	Law Environmental	SI Report for Investigation of Suspected Hazardous Waste Sites
178	18 (1102C)	Sep-93	ROD/DD	EA	Site Decision document for Close-Out - Signed
211	18 (1102C)	Aug-96	ROD/DD	EA	MCP LSP Opinion
SITE 19					
91	19	Apr-91	PA/SI	Law Environmental	Site Safety and Health Plan (SSHP), for Investigation of Suspected Hazardous Waste Sites
94	19	Apr-91	PA/SI	Law Environmental	Chemical Data Acquisition Plan for Investigation of Suspected Hazardous Waste Sites
117	19	Nov-91	PA/SI	Law Environmental	Analytical Results Report for Investigation of Suspected Hazardous Waste Sites
141	19	Jul-93	PA/SI	Law Environmental	SI Report for Investigation of Suspected Hazardous Waste Sites
193	19	Sep-94	ROD/DD	EA	No Further Response Action Planned Decision Document - Signed
SITE 20					
91	20	Apr-91	PA/SI	Law Environmental	Site Safety and Health Plan (SSHP), for Investigation of Suspected Hazardous Waste Sites
94	20	Apr-91	PA/SI	Law Environmental	Chemical Data Acquisition Plan for Investigation of Suspected Hazardous Waste Sites
117	20	Nov-91	PA/SI	Law Environmental	Analytical Results Report for Investigation of Suspected Hazardous Waste Sites
141	20	Jul-93	PA/SI	Law Environmental	SI Report for Investigation of Suspected Hazardous Waste Sites
194	20	Sep-94	PA/SI	EA	No Further Response Action Planned Decision Document - Unsigned
256	20	Feb-96	RI/FS	Kestrel	Soil Gas Survey, Hanscom Field, Runway 23 Approach Area
390	OU-1	Nov-00	ROD/DD	CH2M Hill	Interim Record of Decision, Operable Unit 1 - Signed
AOC-1					
410	AOC-1	Sep-00	IRA - ROD/DD	ENPRO	Documentation for Class A-2 RAO, Commissary Construction Site - RTN 3-19520

HANSCOM AFB'S ENVIRONMENTAL COMPLIANCE PROGRAM AREAS OF CONCERN/SITES

209	FAFS UST Site	Mar-95	IRA	ATEC Associates	Immediate Response Action Completion Report - Building 1729 25,000 GAL UST (DEP RT 3-12056)
267	FAFS UST Site	Jan-96	IRA	ENPRO	Removal of Aircraft Fueling System East of the Hanscom Field Apron
282	FAFS UST Site	Mar-97	PA/SI	CH2M Hill	MCP Phase I - Initial Site Investigational Report & Tier Classification, Former Apron Fueling System UST Site
291	FAFS UST Site	Jul-97	RI/FS/RO D/RD	CH2M Hill	MCP Phase II, Phase III, Phase IV & RAO, Former Apron Fueling System UST Site
333	FAFS UST Site	Sep-98	RI/FS/RO D/RD	CH2M Hill	Revised MCP Phase II, Phase III, Phase IV & RAO, Former Apron Fueling System UST Site
350	FAFS UST Site	Apr-99	RA-O	CH2M Hill	Groundwater Monitoring Report-December 1998-Former Apron Fueling System UST Site
373	FAFS UST Site	Mar-00	RA-O	CH2M Hill	Groundwater Monitoring Report-December 1999-Former Apron Fueling System UST Site
409	FAFS UST Site	Feb-01	RA-O	CH2M Hill	Groundwater Monitoring Report-December 2000-Former Apron Fueling System UST Site

442	1	13/22/FAF S	Mar-02	RA-O	IT Environmental	Groundwater Monitoring Report - Site 13, 22 & FAFS UST Site - December 2001 Samples
442	2	13/22/FAF S	Jan-02	RA-O	Environ. Data Svcs	Data Validation Report for Site 13, 22 & FAFS UST Site - December 2001 Samples
452		13/22/FAF S	Aug-02	RA-O	IT Environmental	Periodic Evaluation (5-Year Review) for IRP Site 13, IRP Site 22 & FAFS UST Site
460	1	13/22/FAF S	Feb-03	RA-O	IT Environmental	Groundwater Monitoring Report - Site 13, 22, AAFES Dispensing Area AOC & FAFS UST Site - Sep & Nov 2002 Samples
460	2	13/22/FAF S	Nov-02	RA-O	Environ. Data Svcs	Data Validation Report for Site 13, 22, AAFES Dispensing Area AOC & FAFS UST Site - Sep 2002 Groundwater Samples
460	3	13/22/FAF S	Oct-02	RA-O	Eastern Analytical	Laboratory Reports for MCP Monitoring (September 2002 Samples), IRP Sites 13 & 22 and FAFS UST Site
478	1	13/22/FAF S	Aug-03	RA-O	Shaw Environmental	Groundwater Monitoring Report - Site 13, 22, AAFES Dispensing Area AOC & FAFS UST Site - June 2003 Samples
478	2	13/22/FAF S		RA-O	Eastern Analytical	Laboratory Reports for MCP Monitoring (June 2003 Samples), IRP Sites 13 & 22 and FAFS UST Site
489		13/22/FAF S	Feb-04	RA-O	Shaw Environmental	ISOC System Report & Semi-Annual Transmittal-Site 13/22/AAFES Dispensing Area AOC & FAFSUST Site-Jul thru Dec 2003
495		13/22/FAF S	Jun-04	RA-O	Shaw Environmental	Groundwater Monitoring Report - Site 13, 22, AAFES Dispensing Area AOC & FAFS UST Site - March 2004 Samples
506		13/22/FAF S	Feb-05	RA-O	Shaw Environmental	Groundwater Monitoring Report - Site 13, 22, AAFES Dispensing Area AOC & FAFS UST Site - Jul & Dec-04 Samples
508	1	13/22/FAF S	Aug-05	RA-O	Shaw Environmental	Groundwater Monitoring Report - Site 13, 22, AAFES Dispensing Area AOC & FAFS UST Site - April 2005 Samples
508	2	13/22/FAF S	May-05	RA-O	Severn Trent Lab	Laboratory Report for April 05 Samples - Site 13, 22, AAFES Dispensing Area AOC & FAFS UST Site
515		13/22/FAF S	Feb-06	RA-O	Shaw Environmental	Groundwater Monitoring Report - Site 13, 22, AAFES Dispensing Area AOC & FAFS UST Site - October 2005 Samples
523		13/22/FAF S	Aug-06	RA-O	Shaw Environmental	Groundwater Monitoring Report - Site 13, 22, AAFES Dispensing Area AOC & FAFS UST Site - April 2006 Samples
527		13/22/FAF S	Feb-07	RA-O	Shaw Environmental	Groundwater Monitoring Report - October 2006 Samples, IRP Site 22
540		13/22/FAF S	Aug-07	RA-O	Shaw Environmental	Periodic Evaluation (5-Year Review) for IRP Site 13, IRP Site 22 & FAFS UST Site
548		13/22/FAF S	Feb-08	RA-O	Shaw Environmental	Semi-Annual Inspection & Monitoring Report (1-Jul-07-31-Dec-07) & Groundwater Monitoring Report for Site 22-Nov-07 Samples
554		FAFS UST Site	Aug-08	RA-O	Shaw Environmental	Class C RAO Status and Soil Investigation Report - July 2008 Samples
562		FAFS UST Site	Feb-09	RA-O	Shaw Environmental	MCP Post Class-C RAO Status Report - Feb 09 for FAFS UST Site

464	AOC-Bldg 1614	Dec-02	LRA	ENPRO	Summary Letter Report-Limited Removal Action at Bldg 1614 Parking Lot
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BREAKOUT OF DOCUMENT 13 SHOWN FOR SITES 6 THROUGH 13 ABOVE

13		6 thru 13	Aug-88	PA/SI	Dynamac	IRP Phase II Stage I - Final Report
14		6 thru 13	Aug-88	PA/SI	Dynamac	IRP Phase II Stage I - Final Report - Appendix H Volume V
15		6 thru 13	Aug-88	PA/SI	Dynamac	IRP Phase II Stage I - Final Report - Appendix H Volume IV
16		6 thru 13	Aug-88	PA/SI	Dynamac	IRP Phase II Stage I - Final Report - Appendix H Volume III
17		6 thru 13	Aug-88	PA/SI	Dynamac	IRP Phase II Stage I - Final Report - Appendix H Volume II
18		6 thru 13	Aug-88	PA/SI	Dynamac	IRP Phase II Stage I - Final Report - Appendix H Volume I
19		6 thru 13	Aug-88	PA/SI	Dynamac	IRP Phase II Stage I - Final Report - Appendix A thru G
19	A	6 thru 13	Aug-88	PA/SI	Dynamac	IRP Phase II Stage I - Final Report - Appendix I thru N

REFERENCES FROM NON HANSCOM AFB SITES

2	Town of Bedford	Aug-84	Reference	CDM	Bedford's Hartwell Road Wellfield Contamination Study, Phase II
269	Town of Bedford	83/4/5	Reference	Various	Hartwell Road et al (Town of Bedford & Hydrology Reports & Notes)
68	Town of Bedford	Feb-90	Reference	GEI	Work Plan for RI of the Hartwell Road Wellfield
90	Town of Bedford	Jan-91	Reference	GEI	Groundwater Elevation Measurements & Boring Logs
96	Town of Bedford	Apr-91	Reference	GEI	Chemical Data, Hartwell Road Wellfield Remedial Investigation - 2 Volumes

110		Town of Bedford	Aug-91	Reference	GEI	Hartwell Road Wellfield RI - Boring Logs et al
115		Town of Bedford	Sep-91	Reference	GEI	Draft RI Report, Hartwell Road Wellfield, 5 Volumes (7 Books)
114		Town of Bedford	Nov-91	Reference	CDM	Draft FS Report, Hartwell Road Wellfield
113	1	Draper Lab	Sep-90	Reference	GZA	Limited Site Investigation, Draper Lab Special Test Facility
113	2	Draper Lab	Aug-91	Reference	Zecco	Soil Excavation Activities Report, Draper Lab Special Test Facility
235	A	Hanscom Field	May-93	Reference	M&E	Phase 1 - Limited Site Investigation for FAA Hanger Fuel Storage Area, Hanscom Field
235	B	Hanscom Field	Jun-95	Reference	GEI Consultants	Supplemental Phase I Investigation - FAA Hanger Fuel Storage Area, Hanscom Field (DEP Tracking Number 3-4467)
541	1	Hanscom Field	Jul-02	Reference	Massport	Draft - 2000 L.G. Hanscom Field Environmental Status & Planning Report (ESPR) - 2 Volumes
541	2	Hanscom Field	Nov-06	Reference	Massport	Draft - 2005 L.G. Hanscom Field Environmental Status & Planning Report (ESPR) - 2 Volumes
20		N. Truro	Nov-87	Reference	Radian	Hazard Evaluation Report
61		NWIRP	Nov-85	Reference	Rogers, et al	Initial Assessment Study of Naval Weapons Industrial Reserve Plant, Bedford, MA
63		NWIRP	Jan-89	Reference	DAMES & MOORE	RI Work Plan for Naval Weapons Industrial Reserve Plant, Bedford, MA
62		NWIRP	Feb-89	Reference	DAMES & MOORE	Community Relations Plan for Naval Weapons Industrial Reserve Plant, Bedford, MA
64		NWIRP	Nov-89	Reference	DAMES & MOORE	RI Findings for Naval Weapons Industrial Reserve Plant, Bedford, MA
65		NWIRP	Feb-90	Reference	DAMES & MOORE	Revised RI Findings for Naval Weapons Industrial Reserve Plant, Bedford, MA
81		NWIRP	Jul-90	Reference	DAMES & MOORE	Supplemental RI Findings for Naval Weapons Industrial Reserve Plant, Bedford, MA
133		NWIRP	May-92	Reference	ENSR	Naval Weapons Industrial Reserve Plan Phase II RI Work Plan
134		NWIRP	May-92	Reference	ENSR	Naval Weapons Industrial Reserve Plant, Phase II RI Sampling & Analysis Plan
214		NWIRP	May-92	Reference	Halliburton	Short-Term Measure Design Plan of Action Work Plan
169		NWIRP	Nov-92	Reference	Halliburton	Community Relations Plan for Naval Weapons Industrial Reserve Plant, Bedford, MA
251		NWIRP	Oct-94	Reference	Halliburton	Draft Final Naval Weapons Industrial Reserve Plan RI Phase II Report - 2 Volumes
388	A&B	NWIRP	Aug-96	Reference	Brown & Root Env	Draft Phase II RI Report, Part 1: Field Investigation Results - 2 Volumes - NWIRP
388	D	NWIRP	Oct-96	Reference	Brown & Root Env	Fate & Transport Modeling Report, NWIRP Bedford
388	C	NWIRP	Feb-99	Reference	Tetra-Tech NUS	Supplemental Investigation Report-Southern Flight Test Area, NWIRP Bedford
93		Pave Paws	Feb-91	Reference	GZA	Specifications for Remediation of Number 2 Fuel Oil Contaminated Soil
10		Raytheon	Sep-87	Reference	GZA	Preliminary Environmental Assessment, Raytheon Systems Laboratory
11		Raytheon	Nov-87	Reference	GZA	Raytheon's Tank Assessment - Final Report
66		Raytheon	Dec-88	Reference	GZA	Geohydrologic Study, Raytheon Systems Laboratory, Volume I
67		Raytheon	Dec-88	Reference	GZA	Geohydrologic Study, Raytheon Systems Laboratory, Volume II
12		696 Virginia Road	Apr-86	Reference	Rizzo Associates	Site Assessment Summary, 696 Virginia Road, Concord

REFERENCE DOCUMENTS FILED WITH ADMIN RECORD

125	2	Sep-94	Reference	DoD	1995 Defense Environmental Restoration Program Management Guidance
144		Dec-90	Reference	US Government	40 CFR Part 300 Hazard Ranking System, Final Rule
43	1	Jun-91	Reference	DoD	Automated Defense Priority Model Workbook
43	2	Jun-91	Reference	DoD	Automated Defense Priority Model, FY 92 Version
43	3	May-92	Reference	DoD	Automated Defense Priority Model, FY 93 Version
170		93	Reference	AFMC	CERCLA/IRP Legal Review Guide
131	B	Dec-99	Reference	DAF	Draft Final Management Action Plan (MAP) Guidebook Update - Also includes Jun 95 Version
125	5	Oct-02	Reference	DAF	Draft Final Management Guidance for the United States Air Force Environmental Restoration Program
544		1989	Reference	Executive Enterprises, Inc.	Environmental Acronyms, Abbreviations, and Glossary of Terms
125	6	Dec-07	Reference	AFCEE	Environmental Restoration Program Guide
466		Jul-02	Reference	DAF	Guide for Addressing Natural Resource Injury
6		Sep-86	Reference	Dynamac	Health & Safety Capability Statement
8		Mar-87	Reference	Dynamac	Hydrogeologic, water Resources & Geothermal Services Capability
125	3	Jul-96	Reference	DAF	Interim Air Force Environmental Restoration Program Management Guidance
131	A	May-92	Reference	DAF	Management Action Plan (MAP) Guidebook
125	4	Sep-01	Reference	DoD	Management Guidance for the Defense Environmental Restoration Program
155		Jun-95	Reference	DAF	NFRAP Guide
543		Dec-90	Reference	ATSDR	Public Health Statements
9		Jun-87	Reference	Dynamac	Reemedial Investigation & Engineering Capability
493	3	Jun-01	Reference	AFCEE	Remedial Process Optimization (RPO) Handbook
494		Jun-01	Reference	AFCEE	Remedial Process Optimization (RPO) Handbook
7		Sep-86	Reference	Dynamac	Risk Assessment Capability Statement
493	4	Oct-97	Reference	AFCEE	RPO - Long-Term Monitoring Optimization Guide
542		Nov-00	Reference	ESTCP	Technology Demonstration Plan - Demonstration/Validation of LTM Using Wells Installed by DP Tech.
125	1	May-00	Reference	DAF	U.S. Air Force IRP Remedial Project Manager's Handbook

Appendix H - Initial Information on Sites Suspected to Contain UXO, DMM or MCs

No sites at this time.