

**EPA Superfund
Record of Decision:**

**PEASE AIR FORCE BASE
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**Record of Decision
Brooks/Ditches Operable Unit
Pease Air Force Base, New Hampshire**

September 1997

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DECLARATION

SITE NAME AND LOCATION

Flagstone Brook, Pauls Brook, McIntyre Brook, Lower Newfields Ditch, Pease Air Force Base (Pease AFB), Rockingham County, New Hampshire

STATEMENT OF BASIS AND PURPOSE

This Record of Decision (ROD) presents a selected remedial action designed to protect human and ecological receptors in various brooks and ditches at Pease AFB, NH. The Pease AFB brooks and ditches included in this document are as follows: Flagstone Brook (Zone 1), Pauls Brook (Zone 1), McIntyre Brook (Zone 3), and Lower Newfields Ditch (Zone 3). This ROD was developed in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (42 U.S.C. Section 9601, et. seq.) as amended by the Superfund Amendments and Reauthorization Act (SARA) of 1996, and the National Contingency Plan (NCP) (40 CFR Part 300). Through this document, the Air Force plans to remedy the threat to public health, public welfare, or the environment posed by contaminated sediment associated with Pauls Brook and McIntyre Brook. This decision is based on the Administrative Record for the surface water bodies. The Administrative Record for Pease AFB is located at the Information Repository at 61 International Drive, Building 43, at Pease AFB. The Administrative Record Index as it applies to Flagstone Brook, Pauls Brook, McIntyre Brook, and Lower Newfields Ditch is provided in Appendix D.

The State of New Hampshire Department of Environmental Services (NHDES) concurs with the selected remedy.

ASSESSMENT OF THE SITE

Actual or threatened releases of hazardous substances from Pauls Brook and McIntyre Brook sediment, if not addressed by implementing the response action selected in the ROD, may present an imminent and substantial endangerment to public health, public welfare, or the environment.

DESCRIPTION OF THE SELECTED REMEDY

The selected remedy will protect public health, public welfare, and the environment by removing contaminated sediments that pose a potential threat to ecological receptors from direct contact with, or ingestion of the contaminated sediment.

The selected remedy includes the excavation of sediment associated with Pauls Brook and McIntyre Brook. The excavated sediment will be treated and/or disposed of off base at an asphalt batching facility, a Subtitle D landfill, or a Resource Conservation and Recovery Act (RCRA) transportation, storage, and disposal (TSD) facility, as deemed necessary at the time of remediation. The selected remedy also includes sedimentation and erosion control during excavation, restoration of wetlands impacted or destroyed by sediment excavation at Pauls Brook, and long-term environmental monitoring at Pauls Brook and McIntyre Brook.

The Air Force has determined that no action is necessary under CERCLA to ensure the protection of human health and the environment at Flagstone Brook and Lower Newfields Ditch.

STATUTORY DETERMINATIONS

The selected remedy is protective of human health and the environment, complies with federal and state requirements that are legally applicable or relevant and appropriate to the remedial action, and is cost-effective. This remedy uses permanent solutions and alternative treatment technologies to the maximum extent practicable. No actions are necessary under CERCLA to ensure the protection of human health and the environment at Flagstone Brook and Lower Newfields Ditch.

The foregoing represents the selection of a remedial action by the Air Force and EPA New England, with concurrence of NHDES.

EPA New England,

Concur and recommended for immediate implementation:

RECORD OF DECISION SUMMARY

I. SITE NAME, LOCATION, AND DESCRIPTION

The former Pease Air Force Base (AFB) is a National Priorities List (NPL) site consisting of numerous areas of contamination. The former base is located in the Town of Newington and the City of Portsmouth, both of which are in Rockingham County, NH. As shown in Figure 1, Pease AFB occupies approximately 4,365 acres on a peninsula in southeastern New Hampshire. The peninsula is bounded on the west and southwest by Great Bay, on the northwest by Little Bay, and on the north and northeast by the Piscataqua River.

This Record of Decision (ROD) addresses sources of contamination in various surface water bodies at Pease AFB. Flagstone Brook and Pauls Brook are located within the Installation Restoration Program (IRP) Zone 1 on the northeastern side of the former Pease AFB. McIntyre Brook and Lower Newfields Ditch are located within IRP Zone 3, in the central portion of the former base. These surface water bodies have been investigated under the Air Force IRP. The results of field investigations indicated that past activities in Zone 1 and Zone 3 have contributed to surface water and sediment contamination in these surface water bodies. Although these surface water bodies are physically located in Zones 1 and 3, they are being summarized in this report separately from the Zone 1 and 3 RODs. Because several issues regarding surface water and sediment were raised by the U.S. Environmental Protection Agency (EPA) and the New Hampshire Department of Environmental Services (NHDES) regarding surface water and sediment, these areas were separated from Zones 1 and 3 so as not to delay actions in those zones.

At the beginning of World War II, an airport at the present Pease AFB location was used by the U.S. Navy. The Air Force assumed control of the site in 1951, and construction of the facility was completed in 1956. Over time, various quantities of fuels, oils, solvents, lubricants, and protective coatings were used at the base, and releases of contaminants into the environment occurred.

In December 1988, Pease AFB was selected as one of 86 military installations to be closed by the Secretary of Defense's Commission on Base Realignment and Closure. The base was closed as an active military reservation on 31 March 1991. The New Hampshire Air National Guard (NHANG) remains at the air field and uses some of the existing facilities. The remainder of the reservation has been divided among the U.S. Department of the Interior through an intergovernmental conveyance, the State of New Hampshire's Pease Development Authority (PDA) in the form of a long-term lease (in anticipation of a deeded transfer in the future), and the Air Force.

The current land uses at the former Pease AFB are institutional, woodland, agricultural, abandoned land, and residential (currently unoccupied). Commercial and residential areas are located off base along Spaulding Turnpike, approximately 1,000 feet northeast of the Pease AFB eastern boundary, and Interstate I-95, which is located along the southeastern base boundary. The largest commercial complex is a shopping mall located on the eastern side of Spaulding Turnpike.

Flagstone Brook, the primary stream draining Zone 1, originates from two culverts at the northern end of the North Ramp/aircraft parking apron (see Figure 2). The western culvert drains stormwater from an area of approximately 20 acres, which includes the North Ramp/aircraft parking apron and the Hot Cargo Holding Pad. From this culvert, stormwater flows north to Flagstone Brook approximately 600 feet downstream. The eastern culvert drains stormwater from a portion of the North Ramp, the taxiway, the indoor firing range, a small area of industrial buildings, and Nashua Avenue. The total drainage area of the stormwater collection system within the headwaters of Flagstone Brook is approximately 78 acres. Below the confluence of the eastern and western branches, Flagstone Brook flows north along the western edge of Landfill 5 (LF-5). Surface runoff and groundwater discharge from LF-5 also contribute to flow in Flagstone Brook. Flagstone Brook eventually empties into the Piscataqua River near the General Sullivan Bridge.

Pauls Brook is located in the northeastern part of Pease AFB (see Figure 2). The stream begins west of Arboretum Drive near the Bulk Fuel Storage Area (BFSA) as an emergent wetland dominated by cattails (*Typha latifolia*) and flows eastward under Arboretum Drive off base toward the Piscataqua River. East of Arboretum Drive, the stream flows through a poorly drained forested area. The majority of the habitat east of Arboretum Drive consists of forested wetland. Based on review of a stormwater drainage map for Pease AFB, it appears that Pauls Brook also receives stormwater runoff from the BFSA, the engineering maintenance area, and a former mobile home park. Drainage from these areas discharges into Pauls Brook near station 8040. Stormwater runoff from the engineering maintenance area is discharged into Pauls Brook from the storm sewer system.

McIntyre Brook, a channelized drainage, is located on the southwestern side of Pease AFB (see Figure 3) and begins at a storm sewer discharge point. This storm sewer receives stormwater runoff from much of the flight apron and runway. Overburden groundwater infiltration is known to occur into the sewer system. Immediately after leaving the storm sewer, water is diverted to an oil/water separator located at the headwaters of McIntyre Brook and is subsequently discharged into the main channel. In addition to water discharged from the storm sewer system, McIntyre Brook receives water contributions from wetland drainage, agricultural runoff, and groundwater discharge along its upper reach (i.e., east of McIntyre Road). This portion of McIntyre Brook is outside of the Pease AFB property boundary. McIntyre Brook flows in a southwesterly direction for approximately 0.8 mile before discharging into Great Bay.

Newfields Ditch is a manmade drainage ditch that extends from Building 222 (Site 34) eastward to Hodgsons Brook (see Figure 4). It receives surface runoff and groundwater discharge from areas east of the aircraft parking apron that include Buildings 222 and 227 and the adjacent parking apron. The eastern portion of Newfields Ditch is known as Lower Newfields Ditch. The western portion of Newfields Ditch, known as Upper Newfields Ditch, was included in the Zone 3 ROD. Lower Newfields Ditch begins just east of Portsmouth Avenue near station 8140 and ends near station 802 where it leaves the base. Newfields Ditch ultimately discharges into the Piscataqua River.

A more detailed description of the surface water bodies, including local geology and hydrogeology, is presented in the Draft Final Zone 1 Remedial Investigation (RI) Report (G-623) and the Draft Final Zone 3 RI Report (G-629).

II. SITE HISTORY AND ENFORCEMENT ACTIVITIES

A. Zone Use and Response History

Past Zone 1 and Zone 3 activities have contributed to surface water and sediment contamination in Flagstone Brook, Pauls Brook, McIntyre Brook, and Lower Newfields Ditch. Flagstone Brook and Pauls Brook receive surface water runoff and groundwater discharge from Zone 1, while McIntyre Brook and Lower Newfields Ditch receive surface water runoff and groundwater discharge from Zone 3. The history of Zones 1 and 3, as well as the surface water bodies within these zones, is discussed in this subsection. More detailed information may be found in Section 2 of the Draft Final Zone 1 RI Report (G-623) and Section 2 of the Draft Final Zone 3 RI Report (G-629).

Zone 1

Historic land use in Zone 1 included waste disposal at Landfill 2 (LF-2), Landfill 4 (LF-4), LF-5, and the Paint Can Disposal Area (PCDA) and fuel storage and transfer at the BFSA. LF-2 and LF-4 were used for the disposal of domestic and industrial solid waste generated at the base from 1960 to 1964. LF-5 was used as the primary base landfill from 1964 to 1975. Domestic and industrial refuse reportedly disposed of in the landfill included waste oils and solvents, paints, paint strippers and thinners, pesticide containers, and empty cans and drums. The landfill also received an estimated 20,000 gallons of sludge from the industrial waste treatment plant. The BFSA has been in operation from 1953 to the present. Major spills of petroleum products, have occurred at this site in 1963, 1975, and 1980. The PCDA was reportedly used by both the Air Force and contract painters over a 30-year period to store and dispose of drums that contained paint and paint residues.

Flagstone Brook is the primary stream draining Zone 1. The brook receives surface water runoff from the North Ramp/aircraft parking apron, the Hot Cargo Holding Pad, the taxiway, the indoor firing range, Nashua Avenue, and LF-5. Groundwater discharge from LF-5 also contributes to flow in Flagstone Brook. Flagstone Brook has undergone anthropogenic changes in stream morphology resulting from past base construction activities and the development and use of LF-5. Pauls Brook, a small stream located in the southeastern portion of Zone 1, receives surface water runoff from the BFSA, the engineering maintenance area, and the mobile home park.

Zone 3

Most of the repair and maintenance of aircraft and related equipment occurred at facilities along the flightline in Zone 3. As a result, Zone 3 has been an area of numerous small fuel spills, spent solvent and waste oil spills, discharges of shop-generated wastes into storm drains, and suspected underground storage tank (UST) leaks. Fuels, such as gasoline, diesel fuel, and JP-4, and solvents, such as trichloroethene (TCE), 1,1,1-trichloroethane (1,1,1-TCA), tetrachloroethene (PCE), carbon tetrachloride, and stoddard solvent (PD-680), were in common use at Zone 3 sites.

Newfields, Ditch is a manmade drainage ditch that extends from Building 222 in Zone 3 eastward to Hodgsons Brook. The ditch receives surface runoff from areas east of the aircraft parking apron. McIntyre Brook is a natural stream, altered during base airfield construction, that flows westward from the runway out to Great Bay. The brook received outflow from the storm drain system, which collects most of the runoff from the flightline. Wastewater from the Building 227 floor drains also flowed into the flightline storm drain system that feeds into McIntyre Brook until 1974, when a bypass line was constructed.

B. Enforcement History

The enforcement history relative to Pease AFB, including Flagstone Brook, Pauls Brook, McIntyre Brook, and Lower Newfields Ditch, is summarized as follows:

- In 1976, the U.S. Department of Defense (DOD) devised a comprehensive IRP to assess and control environmental contamination that may have resulted from past operations and disposal practices at DOD facilities.
- In June 1980, DOD issued a Defense Environmental Quality Program Policy Memorandum (DEQPPM) requiring identification of past hazardous waste disposal sites on DOD agency installations. The DEQPPM was issued in response to the Resource Conservation and Recovery Act (RCRA) of 1976, and in anticipation of CERCLA.
- On 14 July 1989, Pease AFB was proposed for addition to the NPL. The effective date of addition was February 1990.
- On 24 April 1991, the Air Force, EPA, and NHDES signed a Federal Facilities Agreement (FFA) establishing the protocol and timetable for conducting the remedial investigation/feasibility study (RI/FS) and remedial design/remedial action processes at Pease AFB.

As part of the timetable established in the FFA, the Air Force, in an effort to streamline activities, designed a Basewide Strategy Plan for conducting an RI/FS investigation. This Strategy Plan grouped the sites at Pease AFB into seven zones or operable units based on geographic location, potential receptors, and potential future uses. RI/FS reports were prepared for each zone. As previously mentioned, the brooks and ditches addressed in this document, although physically located in Zones 1 and 3, were separated from the Zone 1 and Zone 3 RI/FS process so as not to delay actions in those zones. A separate Brooks/Ditches RI/FS Consolidated Report was prepared to address surface water and sediment in Flagstone Brook, Pauls Brook, McIntyre Brook, and Lower Newfields Ditch (G-805).

III. COMMUNITY PARTICIPATION

Throughout the history of IRP activities at Pease AFB, the local community has been actively involved and informed. EPA, NHDES, and the Air Force have kept the community and other interested parties apprised of zone activities through informational meetings, fact sheets, press releases, and public meetings.

In January 1991, the Air Force released a community relations plan that outlined a program to address community concerns and keep citizens informed about and involved in remedial activities at the base. This plan was updated and reissued in November 1994.

Numerous fact sheets have been released by the Air Force throughout the IRP at Pease AFB. These fact sheets are intended to keep public and other concerned parties apprised of developments and milestones in the Pease IRP. The fact sheets released to date that concern Flagstone Brook, Pauls Brook, McIntyre Brook, and Lower Newfields Ditch are summarized as follows:

Fact Sheet	Release Date
Pease AFB Installation Restoration Program Update	October 1991
Pease AFB Installation Restoration Program Update	December 1992
Proposed Plan for Brooks/Ditches Source Areas	February 1997

A complete information repository containing documents relating to the Pease AFB IRP is maintained at Pease AFB in Building 43. The Administrative Record, containing correspondence pertaining to the Pease AFB, IRP, also is located in Building 43 at Pease AFB. An index of the Administrative Record is maintained at EPA New England in Boston, MA.

IV. SCOPE AND ROLE OF OPERABLE UNIT OR RESPONSE ACTION

This ROD addresses only source control measures at Pauls and McIntyre Brooks. The actions being taken in these areas are compatible with other actions being taken or planned at other zones or areas of Pease AFB. The remedial alternatives developed for Pauls and McIntyre Brooks were designed to reduce potential environmental risks identified in the ecological risk assessment for these surface water bodies. The results of the human health and ecological risk assessments, which are presented in the Draft Final Brooks/Ditches RI/FS Consolidated Report (G-805) and are summarized in Section VI of this ROD, form the basis for concluding that contaminants in surface water and sediment at Flagstone Brook and Lower Newfields Ditch do not pose an unacceptable risk (current or future) to human and ecological receptors to require remedial actions under CERCLA. For this reason, no further action is warranted for these sites under CERCLA. Environmental monitoring will be conducted at Flagstone Brook as part of the long-term environmental requirements for the Landfill 5 source area and Zone 1 remedial actions.

The selected remedy was developed to reduce potential risks posed to ecological receptors from direct contact with contaminated sediment in Pauls Brook and McIntyre Brook. It is expected that removal of the sediment will, in conjunction with other source area actions conducted in Zone 1 and Zone 3, help improve surface water quality in the brooks. In summary, the remedy provides for the following tasks:

- Excavation of sediment exceeding cleanup goals from Pauls Brook and McIntyre Brook and off-base treatment and/or disposal.
- Sedimentation and erosion control during sediment excavation.
- Restoration of wetlands impacted or destroyed by sediment excavation at Pauls Brook.
- No further action for Lower Newfields Ditch and Flagstone Brook.
- Environmental monitoring during remedial operations.
- Long-term environmental monitoring in Pauls and McIntyre Brooks.

V. SUMMARY OF SITE CHARACTERISTICS

Table 1 presents a summary of investigative reports for Flagstone and Pauls Brooks (Zone 1) and McIntyre Brook and Lower Newfields Ditch (Zone 3). Based on the results of the RIs, a working conceptual model was developed that incorporates all known data concerning each zone and its vicinity, including geological, hydrogeological, and analytical data; field measurements; and visual observations. The significant findings of the RIs that are relevant to the surface water bodies are presented in this section.

A. Surface Water Hydrology

Pease AFB is located on a peninsula within the Piscataqua River drainage basin. Drainage is radially away from the peninsula, toward Great Bay to the west, Little Bay to the northwest and north, and the Piscataqua River to the east. Great Bay, Little Bay, and the Piscataqua River are all tidally influenced, and are, consequently, subjected to semidiurnal variation in water levels.

The peninsula is of relatively low relief, with the runway and aircraft parking apron in Zone 3 located along the high point of the peninsula. A surface drainage divide is located along the northeastern side of the aircraft parking apron, with runoff to the northeast of the divide draining toward the Piscataqua River and runoff southwest of the divide draining toward Great Bay.

Flagstone Brook is the primary stream draining Zone 1. Approximately 75% of Zone 1 is drained by Flagstone Brook and the Railway Ditch. Flagstone Brook originates from two culverts at the northern end of the North Ramp/aircraft parking apron. The western culvert drains stormwater from an area of approximately 20 acres, which includes the North Ramp/aircraft parking apron and the Hot Cargo Holding Pad. From this culvert, stormwater flows north to Flagstone Brook approximately 600 feet downstream. The eastern culvert drains stormwater from a portion of the North Ramp, the taxiway, the indoor firing range, a small area of industrial buildings, and Nashua Avenue. The total drainage area of the stormwater collection system within the headwaters of Flagstone Brook is approximately 78 acres. Below the confluence of the eastern and western branches, Flagstone Brook flows north along the western edge of LF-5. Surface runoff and groundwater discharge from LF-5 also contribute to flow in Flagstone Brook. Flagstone Brook eventually empties into the Piscataqua River near the General Sullivan Bridge.

Flagstone Brook is essentially a channelized drainage ditch with relatively uniform steep banks and uniform gradient, and contains a series of weir dams constructed for erosion and flood control. During

the June 1991 field investigations, the average stream depth was approximately 0.75 foot and the average stream width was approximately 9 feet. The substrate for most of Flagstone Brook is sand, cobble, and gravel; however, areas of silt and clay exist. Water velocity averaged approximately 0.2 ft/sec during the June 1991 investigations.

Pauls Brook begins west of Arboretum Drive near the BFSAs as an emergent wetland dominated by cattails and flows eastward under Arboretum Drive off base toward the Piscataqua River. East of Arboretum Drive the stream flows through a poorly drained forested wetland area. Pauls Brook also receives stormwater runoff from the BFSAs, the engineering maintenance area, and the mobile home park. Drainage from these areas discharges into Pauls Brook near station 8040. Stormwater runoff from the engineering maintenance area is discharged into Pauls Brook from the storm sewer system. Pauls Brook is a relatively small stream with a flow velocity of less than 0.5 ft/sec as measured in June 1991. The stream bed ranges from 0.8 to 3.8 feet wide and 0.1 to 0.3 foot deep. McIntyre Brook, a channelized drainage, begins at a storm sewer discharge point. This storm sewer receives stormwater runoff from much of the flight apron and runway. In addition, overburden groundwater infiltration into the sewer system is known to occur. Immediately after leaving the storm sewer, water is diverted to an oil/water separator located at the headwaters of McIntyre Brook and is subsequently discharged into the main channel.

McIntyre Brook flows in a southwesterly direction for approximately 0.8 mile before discharging into Great Bay. Along its course, four weirs have been constructed to regulate water flow; sediment catch basins are positioned below each weir. Sampling stations 812, 8078, 8077, and 8076 (see Figure 3) are located at these weirs. In addition to water discharged from the storm sewer system, McIntyre Brook receives water contributions from wetland drainage, agricultural runoff, and groundwater discharge along its upper reach (i.e., east of McIntyre Road). This portion of McIntyre Brook is outside the Pease AFB property boundary.

Because of its channelization, McIntyre Brook has a relatively consistent width (10 to 15 feet); water depth and velocity appear relatively constant, with moderate fluctuations during storms, and moderate variations along the length of the brook. For example, during an intensive sampling effort in June 1991, McIntyre Brook water depth ranged from 0.8 to 1.0 foot deep, and flow velocity ranged from 0.09 to 0.18 ft/sec along its entire length. A detailed discussion of the general physical/chemical conditions of the surface waters in McIntyre Brook is presented in the Drainage Area Letter Report (G-570).

The substrate of McIntyre Brook changes from upstream to downstream. Upstream, McIntyre Brook has a relatively compacted, clay base with little apparent sediment deposition occurring. Deposition in the sediment catch basins is limited to gravel-sized materials. Below the last catch basin near station 8076, sediment composition becomes fine-grained (i.e., predominantly silt and sand) until reaching the culvert under McIntyre Road. Below McIntyre Road, the substrate reverts back to a clay hardpan, until changing to gravel near Great Bay. The observed lack of uniformity in sediment characteristics along McIntyre Brook appears to be the result of past channelization and the addition of weirs and sediment catch basins.

Newfields Ditch is a manmade drainage ditch that extends from Building 222 (Site 34) eastward to Hodgsons Brook. It receives surface runoff and groundwater discharge from areas east of the aircraft parking apron that include Buildings 222 and 227 and the adjacent parking apron. Newfields Ditch originates in and flows through a forested wetland area north of Building 222 near the edge of the aircraft parking apron. It flows in a northeasterly direction toward Dover Avenue, passes through a culvert under Dover Avenue, and subsequently converges with flow from a channel that drains the central and eastern portion of Site 32/36. As it leaves the Site 32/36 area, the surface water in Newfields Ditch flows into a culvert that connects into the storm sewer network for Rochester and Portsmouth Avenues. Storm sewer flow joins the Newfields Ditch flow as it passes underground along Newfields Street before emerging east of Portsmouth Avenue.

The eastern portion of Newfields Ditch is known as Lower Newfields Ditch. Lower Newfields Ditch begins just east of Portsmouth Avenue near station 8140, joins Hodgsons Brook near the recreational baseball field, passes through a wet meadow area, and eventually leaves the base near station 802, as it passes under the Spaulding Turnpike. Between Portsmouth Avenue and the convergence with Hodgsons Brook, Newfields Ditch passes into a second culvert near Building 56, which is connected into the Concord Avenue storm sewer system, before emerging in the former residential section of the base east of Concord Avenue. Newfields Ditch ultimately discharges into the Piscataqua River.

Newfields Ditch has an average width of approximately 2 feet and an average depth of approximately 0.5 foot; however, several pools along its length are up to 2 feet deep. Near station 802, the ditch consists of several subchannels. The width of Newfields Ditch near station 802 ranges from 6 to 10 feet, depending on flow conditions. Flow velocity for most of the lower portion is less than 1 ft/sec. In general, the substrate of Lower Newfields Ditch is a mixture of gravel and sand, with local areas that exhibit a high clay and silt content.

B. Surface Water/Sediment Sources

This subsection identifies potential sources of the organic and inorganic compounds detected in the surface water and sediment of Flagstone Brook, Pauls Brook, McIntyre Brook, and Lower Newfields Ditch. Tables 2 through 14 present summaries of the highest concentrations of organic compounds and metals detected in the surface water and sediment samples collected from these surface water bodies. Potential sources of the detected organic and inorganic compounds include:

- Historic application of pesticides in wetland areas.
- Groundwater baseflow into the surface water drainages.
- Runoff from storms.
- Past disposal of pesticide liquids into the storm sewer system from the Civil Engineering (CE) Department complex.
- Leaching of compounds from sediment into surface water.

Flagstone Brook

The sampling locations used to characterize Flagstone Brook include, from upstream to downstream, 8031, 8106, 821, 821A, 819, 819A, 818, and 818A (see Figure 2). Surface runoff from the North Ramp and LF-5, potentially affect all sampling locations within the Flagstone drainage. A summary of the highest concentrations detected of organic compounds and total metals in Flagstone Brook surface water samples is presented in Table 2. Low concentrations of VOCs were present at two stream sampling locations (821 and 821A). Concentrations of VOCs did not exceed NHDES ambient water quality criteria (AWQC) in any Flagstone Brook surface water samples. Figure 5 presents the distribution of VOCs in surface water. Four pesticides and 15 metals also were detected in Flagstone Brook surface water samples.

Sediment contaminant concentrations were compared with biological effects range-low (ER-L) numerical effect-based, sediment quality guidelines developed by the National Oceanic and Atmospheric Administration (NOAA). The ER-L and effects range-medium (ER-M) represent two concentrations for an individual contaminant with respect to the incidence of adverse biological effects (i.e., increase in mortality, decrease in growth and reproduction). Contaminant concentrations below the ER-L represent a range of concentrations in which biological effects would seldom be observed. Contaminant concentrations equal to the ER-L or greater and below the ER-M represent a concentration range in which possible biological effects would occasionally occur. The probable effects range in which biological effects would frequently occur is identified with contaminant concentrations equal to or greater than the ER-M. ER-L and ER-M values are presented in Table 4 for comparison. Because ER-L and ER-M values are based primarily on studies conducted in estuarine environments, or with organisms typically found in estuarine settings, and because the brooks and ditches at Zone 1 are freshwater ditches, the equilibrium partitioning (EqP) approach also was used to evaluate the bioavailability of nonionic organic contaminants. The EqP approach is used to generate sediment quality criteria or ecotoxicological benchmarks for predicting contaminant concentrations in interstitial water (pore water), the exposure pathway for benthic invertebrates. A complete discussion of the EqP approach is contained in Appendix B of the Zone 1 FS Report (G-622).

A summary of the highest detected concentrations and a comparison to background concentrations and EqP interstitial water concentrations for nonionic organic compounds detected in Flagstone Brook sediment samples are presented in Table 3. A summary of the highest concentrations of metals detected is presented in Table 4. Figure 6 presents the distribution of organic compounds in sediment samples whose EqP interstitial water concentrations exceed chronic AWQC. Those organic compounds whose EqP interstitial water concentrations exceed chronic AWQC include anthracene (EqP=3.14/AWQC=2.00), naphthalene (EqP=942/AWQC=620), phenanthrene (EqP=7.65/AWQC=6.32), pyrene (EqP=3.10/AWQC=0.4), and 4,4-DDT (EqP=0.013/AWQC=0.001).

Semivolatile organic compounds (SVOCs) were reported from all Flagstone Brook sediment sampling locations, except for location 821. SVOCs present in the Flagstone Brook sediments included polynuclear aromatic hydrocarbons (PAHs), phthalates, phenols, benzoic acid, and total petroleum hydrocarbons (TPHs). The highest total PAH concentration was detected in the sample collected from location 8031 (11.82 mg/kg), located in a Flagstone Brook headwater tributary just north of the North Ramp. The highest concentrations of PAHs in Flagstone Brook sediment were detected at station 8031. This station is the most upgradient station and is located adjacent to the North Ramp. Runoff from the North Ramp is directed to Flagstone Brook via a 3-foot-diameter pipe that receives overland runoff from the North Ramp area. The runoff is considered to be a nonpoint source.

Pesticides were detected in five Flagstone Brook sediment samples. The pesticides detected at concentrations above background (the analytical detection limit) were 4,4'-DDT, 4,4'-DDD, and 4,4'-DDE. The highest concentrations were observed at locations 819 (4,4'-DDD=0.21 mg/kg and 4,4'-DDE=0.12 mg/kg) and 819A (4,4'-DDT=0.035 mg/kg). Pesticide concentrations in Flagstone Brook are representative of basewide conditions at Pease AFB as a result of routine pesticide use in accordance with standards for licensed application. Low levels of 4,4'-DDT and its breakdown products (DDD and DDE) have been detected in streams throughout Pease AFB and are the result of general area pesticide use rather than a specific spill or release. More information on this topic is presented in the Pesticides in Sediment Data Review Letter Report (G-797).

Thirteen metals exceeded background sediment concentrations at Flagstone Brook sediment sampling locations. Metals concentrations above background were observed along the entire reach of Flagstone Brook. Figure 7 presents the distribution of metals in Zone 1 sediment that exceed ER-L guidelines.

Pauls Brook

Four sampling locations (8039, 8040, 8041, and 813) located in the braided channel system of Pauls Brook were used to characterize Pauls Brook surface water and sediment (see Figure 2). In addition, four sediment samples were collected from outside the Pauls Brook channel in February 1996 (S001, S002, S003, and S004) and 18 sediment samples in the vicinity of Pauls Brook (S005 through S022) in May 1996, which were also used to characterize contaminant levels in Pauls Brook. A summary of the highest concentrations of organic compounds and total metals detected in Pauls Brook surface water samples is presented in Table 5. Although VOCs and SVOCs were not detected above chronic AWQC in Pauls Brook surface water samples during the earthworm sampling, signs of previously uncharacterized petroleum contamination were found within the Pauls Brook drainage, including a strong petroleum hydrocarbon odor and a sheen on the water and sediments. The only metals whose concentrations exceeded AWQC were zinc, iron, and aluminum. Aluminum did not exceed the maximum detected background concentration. Two pesticides (chlordane and 4,4'-DDD) were also detected at levels above AWQC.

A summary of the highest detected concentrations and a comparison to background concentrations and EqP interstitial water concentrations for organic compounds detected in Pauls Brook sediment samples are presented in Table 6. Maximum concentrations for metals are presented in Table 7. PAHs were detected above background in Pauls Brook sediment samples. Eighteen metals exceeded background at one or more Pauls Brook sediment sampling locations. With the exception of aluminum, arsenic, beryllium, boron, manganese, potassium, and selenium, the maximum concentration for each metal was detected in a sample collected from location 8039.

The pesticide compounds 4,4'-DDT, 4,4'-DDD, 4,4'-DDE, heptachlor epoxide, dieldrin, and alpha- and gamma-chlordane were detected in Pauls Brook sediment samples. Calculated interstitial water concentrations for pesticides in sediment were above chronic AWQC at all four Pauls Brook sampling locations. Interstitial water concentrations for 4,4'-DDD and both alpha- and gamma-chlordane were above AWQC at all locations, with the exception of location 8041.

Pesticides detected in Pauls Brook may be the result of routine pesticide use in this area or from past operational activities at the nearby Civil Engineering (CE) Department complex that were transported to Pauls Brook through the storm sewer. The likely mechanism for release of pesticides from the CE Department complex is believed to be past disposal of pesticide liquids via a storm drain during pesticide mixing activities or pesticide equipment washdown activities. Pesticide mixing activities are no longer conducted in the CE Department complex. Because the drainage route connecting the complex to Pauls Brook is composed of buried hard pipe for the entire route, no deposition of pesticides on route to Pauls Brook is believed to have occurred. Runoff from the BFSAs, where past fuel spills and leaking storage tanks have contaminated soil and groundwater, is the likely source responsible for fuel related contamination found in Pauls Brook.

McIntyre Brook

Surface water and sediment samples were collected at 11 stations within the McIntyre Brook drainage area. These stations, from upstream to downstream, are 8060, 8059, 811, 812, 8058, 8078, 8077, 8076, 8057, 8075, and 8056 (see Figure 3). A summary of the highest detected concentrations in McIntyre Brook surface water is presented in Table 8. Summaries of the highest detected concentrations of organic and inorganic contaminants in McIntyre Brook sediment are presented in Tables 9 and 10, respectively.

The following discussion of the observed distribution of contaminants in McIntyre Brook focuses on those chemicals that were present at concentrations above established background concentrations and/or were included as chemicals of concern (COCs) in the risk assessment.

Two organic compounds, cis-,2-dichloroethene (DCE) and TCE, were detected in surface water samples collected in the McIntyre Brook drainage area. TCE was detected at five stations in the upper portion of McIntyre Brook from station 8060 (1 Ig/L in 1991) downstream to station 8058 (0.7J Ig/L in 1991). The highest detected concentrations of TCE were observed at station 812 (2.9 Ig/L in 1988 and 2.7 Ig/L in 1989) just upstream of the Pease AFB boundary. DCE was only detected at station 8076, located off base, at a concentration of 0.2 Ig/L.

Mercury was the only metal detected in McIntyre Brook surface water at concentrations above background that also exceeded the NHDES freshwater chronic criteria. Mercury was detected at one station (811) in 1988 at a concentration of 0.29 Ig/L; mercury was not detected at that or any other station during subsequent sampling events.

Six inorganic analytes (arsenic, calcium, magnesium, silicon, potassium, and zinc) were detected in McIntyre Brook surface water at concentrations above the respective background concentrations. Calcium and magnesium were present at concentrations above background at eight stations, and silicon at nine stations. These three inorganic analytes were detected throughout McIntyre Brook with no apparent trend in concentrations. Zinc and potassium also were detected at concentrations that exceeded the background concentration, but only at station 811 in 1988. Arsenic was detected above the background concentration at station 812 in 1988.

Five VOCs, 20 SVOCs, and 2 pesticides were detected in sediments collected from the McIntyre Brook drainage area. Figure 8 presents the distribution of calculated EqP values that exceed AWQC for organic compounds in sediment samples. Each of the five VOCs was detected at one station during one sampling event: 1,2-dichlorobenzene at station 812 (170 J Ig/kg in 1988), benzyl alcohol at station 8059 (180 J Ig/kg in 1991), chlorobenzene at station 8075 (6 J Ig/kg in 1991), methylene chloride at station 811 (10 Ig/kg in 1988), and toluene at station 8057 (43 mg/kg in 1991). Methylene chloride and toluene are common laboratory contaminants, and their presence in these two samples potentially represents an artifact of analytical procedures.

SVOCs were detected in sediment samples collected throughout McIntyre Brook, from the upper reach at station 8060 downstream to station 8056. SVOCs present in the McIntyre Brook sediments included mainly PAHs. The highest PAH concentrations (78.4 mg/kg at station 8059) were found in samples from the upper reaches of McIntyre Brook east of McIntyre Road. Many of these compounds were detected at concentrations above those detected in background samples.

The herbicide 2,4-D and pesticide 4,4-DDD were detected at one station each in McIntyre Brook sediments; 2,4-D was detected at a concentration of 52 J Ig/kg at station 811 in 1989, and 4,4-DDD was detected at a concentration of 2.2 J Ig/kg in 1991. Low levels of 4,4'-DDT and its breakdown products (DDD and DDE) have been detected in streams throughout Pease AFB and are a result of general historic pesticide use rather than a specific spill or release.

Sixteen metals were detected in sediment samples from McIntyre Brook at concentrations above established background concentrations: aluminum, arsenic, barium, beryllium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, thallium, vanadium, and zinc, which were detected throughout the upper and central reaches of the stream. In general, the highest detected concentrations of these metals were observed at stations 812, 811, and 8058, all of which are located inside the base boundary. Figure 9 presents the distribution of metals in McIntyre Brook sediments that exceed NOAA ER-L guidelines.

Lower Newfields Ditch

Surface water and sediment samples were collected and analyzed from three stations in the Lower Newfields Ditch drainage from 1988 to 1992. These stations, from upstream to downstream, are 8140, 803, and 802 (see Figure 4). A summary of the highest detected concentrations of organics and total metals in Lower Newfields Ditch surface water is presented in Table 11. Summaries of the highest detected concentrations of organic and inorganic compounds in Lower Newfields Ditch sediment are presented in Tables 12 and 13, respectively. The following discussion of the observed distribution of contaminants in Lower Newfields Ditch focuses on those chemicals that were present at concentrations above established background concentrations and were included as COCs in the risk assessment.

Five organic compounds were detected in surface water samples collected either at station 802 or 803 in the Lower Newfields Ditch drainage. Three VOCs (chlorobenzene, 1,4-dichlorobenzene, and methylene chloride) and two pesticides (DDT and heptachlor epoxide) were detected. 1,4-Dichlorobenzene, chlorobenzene, and DDT were detected at station 802, and heptachlor epoxide and methylene chloride were detected at station 803. Since methylene chloride is a common laboratory contaminant, and is not known to

be associated with IRP sites that potentially discharge into Newfields Ditch, its presence is likely a result of laboratory contamination.

Eight metals were detected in surface water samples from Lower Newfields Ditch at concentrations above established background concentrations (cadmium, calcium, copper, nickel, selenium, silicon, sodium, and zinc). The highest concentrations of most of the metals were detected at station 803. The only inorganics detected at concentrations above background at station 8140 (the farthest upgradient sampling location) were calcium, silicon, and sodium.

Thirteen SVOCs were detected in sediment samples from Lower Newfields Ditch, the majority of which were present at concentrations above background levels. In general, the distribution of SVOCs in Lower Newfields Ditch was relatively constant, with nine SVOCs observed at station 8140, eight at station 802, and seven at station 803. Figure 10 presents the distribution of calculated EqP values for organic compounds in Lower Newfields Ditch sediment samples that exceeded AWQC.

Four pesticides (alpha-chlordane, gamma-chlordane, 4,4'-DDT, and 4,4'-DDD) were detected in sediment samples from Lower Newfields Ditch. Alpha- and gamma-chlordane were detected at station 802 (1991), DDT was detected at stations 803 (1988 and 1991) and 802 (1991), and DDD was detected at stations 803 and 802 (1988 and 1991). No pesticides were detected in sediment samples collected at station 8140 (the farthest upgradient sampling location).

Nine metals were detected in sediment samples from Lower Newfields Ditch at concentrations above the maximum background concentrations. Arsenic, beryllium, copper, lead, manganese, thallium, vanadium, and zinc were present above background concentrations during one or more sampling rounds only at station 802 C the farthest downstream sampling location. Barium, the only other inorganic present above background concentrations, was detected above background concentrations at stations 8140 and 802. Figure 11 presents the distribution of metals in Lower Newfields Ditch sediments that exceed NOAA ER-L guidelines.

VI. SUMMARY OF SITE RISKS

Baseline human health and ecological risk assessments were performed for the various media at Flagstone Brook, Pauls Brook, McIntyre Brook, and Lower Newfields Ditch, and are presented in Section 6 of the Draft Final Zone 1 RI Report (G-623) and Section 4 of the Draft Final McIntyre Brook/Lower Newfields Ditch RI/FS Report (G-618). The risk assessments were performed to evaluate the potential adverse risks posed to human and ecological receptors by exposure to zone-related contaminants. The risk assessments are intended to provide information that can be used to determine whether a remedial action is needed in each surface water body.

The approach and methodology for preparing the risk assessment were originally presented in a protocols document submitted to EPA New England and NHDES (G-568). This document was subsequently amended based on a meeting among WESTON, the Air Force, EPA New England, and NHDES (G-217), and a revised version was submitted (G-601).

The baseline risk assessment is divided into three main subsections:

- Data Evaluation and Reduction
- Human Health Risk Assessment
- Ecological Risk Assessment

These subsections are presented in the Zone 1 RI Report and the McIntyre Brook/Lower Newfields Ditch RI/FS Report and are described briefly in the subsections that follow.

A. Data Evaluation and Reduction

The objectives of the data evaluation and reduction are to review and summarize the analytical data for each medium and to select the COCs to be evaluated in the risk assessment. The reviewed data include sampling results for surface water and sediment collected during Stages 2, 3, and 4 of the IRP and data from sediment toxicity tests. The chemicals analyzed in each medium consist of SVOCs, pesticides/polychlorinated biphenyls (PCBs), VOCs, and inorganics (metals).

A preliminary data summary was performed on all media data sets. The guidelines followed in preparation of the data summary are explained in detail in Subsection 6.2.1 of the Draft Final Zone 1 RI Report (G-623) and Subsection 4.2.1 of the McIntyre Brook/Lower Newfields Ditch RI/FS Report (G-618).

Based on the preliminary data summary, approximately 25 to 30 COCs for sediment and 8 to 15 COCs for surface water were selected using the following criteria. A chemical was eliminated as a COC when:

- The chemical was detected in fewer than 5% of the samples and was not reported at high concentrations based on professional judgment (G-189; G-217).
- The chemical was not detected at a concentration above background concentrations. Only inorganic chemicals were eliminated as COCs based on a comparison with background. Although no organic chemicals were eliminated based on a background comparison, those organics that were not reported at concentrations above background are identified in the relevant Section 6 and Appendix K tables of the Zone 1 RI Report and Section 4 of the McIntyre Brook/Lower Newfields Ditch RI/FS Report.

Final summary tables were prepared for the COCs in each data set. Unless otherwise indicated, the final summary tables contain the following information for each chemical: frequency of detection, range of sample quantitation limits, range of averaged and detected concentrations, mean concentration (based on the averaged values), and upper 95% confidence limit of the mean concentration. These summary tables are presented in Section 6 of the Draft Final Zone 1 RI Report (G-623) and Section 4 of the McIntyre Brook/Lower Newfields Ditch RI/FS, Report (G-618). Tables 14 and 15 presents a summary of COCs by medium for all media considered.

B. Human Health Risk Assessment

The objective of the exposure assessment is to develop exposure scenarios for each of the applicable media and to calculate exposure doses to potential receptors. A most reasonable maximally exposed individual (RME) was selected for each medium based on both current and future land and water uses.

A brief discussion of evaluated exposure pathways follows. A more thorough description is presented in Subsections 2.3.1 and 3.3.1 of the Draft Final Brooks/Ditches RI/FS Consolidated Report (G-805). The current use exposure pathways evaluated are summarized as follows:

- Flagstone and Pauls Brooks - A maintenance worker was selected as the current RME for surface water and sediment. A maintenance worker is expected to come into contact with surface water and sediment more frequently than would a trespasser. Because there are no specific maintenance activities associated with Flagstone and Pauls Brooks, contact is assumed to be limited to 0.67 hour/day, 12 days/year for these surface water bodies.
- McIntyre Brook and Lower Newfields Ditch - A maintenance worker was selected as the current RME for surface water and sediment. A maintenance worker is expected to come into contact with surface water and sediment more frequently than would a trespasser. Contact with McIntyre Brook and Lower Newfields Ditch was assumed to occur for 2 hours/day and 1 hour/day, respectively. Exposure was limited to 12 days/year. The duration of exposure to McIntyre Brook was assumed to be longer than the exposure to Lower Newfields Ditch because there are currently specific maintenance activities associated with the on-base portion of the brook.

Future use scenarios were as follows:

- Flagstone and Pauls Brooks - A resident/recreational user was selected as the future RME for surface water and sediment pathways associated with Flagstone and Pauls Brooks. Because of the shallow depth of the brooks, recreational activities were assumed to be limited to wading. Contact of a recreational user with surface water was assumed to occur for 25 days/year for each surface water body.
- McIntyre Brook and Lower Newfields Ditch - A maintenance worker was selected as the future RME for surface water and sediment in the on-base portion of McIntyre Brook because it flows through areas assumed to have a future industrial use. The future maintenance worker was assumed to be exposed to the on-base portion of McIntyre Brook for 2 hours/day, 12 days/year. A resident/recreational user was selected as the future RME for surface water and sediment pathways associated with Lower Newfields Ditch and the off-base portion of McIntyre Brook. The exposure frequency and duration for the recreational user was assumed to be 1 hour/day, 75 days/year for these areas.

For each pathway evaluated, average and reasonable maximum exposure estimates were generated corresponding to exposure to the average and maximum concentrations detected in that particular medium.

Excess cancer risks were determined for each exposure pathway by multiplying the exposure level by the chemical-specific cancer factor. Cancer potency factors have been developed by EPA from epidemiological or animal studies to reflect a conservative upperbound of the risk posed by potentially carcinogenic compounds (i.e., the actual risk is unlikely to be greater than the risk predicted). The resulting risk estimates are expressed in scientific notation (e.g., 1×10^{-6} for 1/1,000,000) and indicate (using this example) that an average individual is likely to have 1-in-1-million chance of developing cancer over 70 years as a result of site-related exposure as defined for the compound at the stated concentration. Current EPA practice considers cancer risk to be additive when assessing exposure to a mixture of hazardous substances.

A hazard index also was calculated for each pathway as EPA's measure of the potential for noncancer health effects. A hazard quotient is calculated by dividing the exposure level by the reference dose (RfD) or other suitable benchmark for noncancer health effects for an individual compound. RfDs have been developed by EPA to protect sensitive individuals over the course of a lifetime, and they reflect a daily exposure level that is likely to be without an appreciable risk of an adverse health effect. RfDs are derived from epidemiological or animal studies and incorporate uncertainty factors to help ensure that adverse health effects will not occur. The hazard quotient is often expressed as a single value (e.g., 0.3) indicating a ratio of the stated exposure as defined to the RfD value (in this example, the exposure as characterized is approximately one-third of an acceptable exposure level for the given compound). A hazard quotient is only considered additive for compounds that have the same or similar toxic endpoint, and the sum is referred to as the hazard index. For example, the hazard quotient for a compound known to produce liver damage should not be added to a second whose toxic endpoint is kidney damage.

The total lifetime cancer risks and total hazard indices are presented by medium in Table 16. Where applicable, the cancer risks and hazard indices were calculated using three concentrations: the mean, the upper 95% confidence limit of the mean, and the maximum. Two subsets of total cancer risks and total hazard indices were calculated for sediment and surface water. One subset was based on all of the COCs, and the other was based on COCs that were detected above background.

The EPA range of generally accepted risk levels is 10^{-4} to 10^{-6} . EPA typically requires action for cancer risk levels greater than 10^{-4} . The cancer risks posed to the RME for the sediment pathway for Flagstone Brook and Lower Newfields Ditch were less than 10^{-6} for all exposure concentrations. The cancer risks posed to the RME for Pauls and McIntyre Brooks were greater than 10^{-6} , but less than 10^{-4} . In addition, there is no apparent potential for adverse noncancer health effects posed by exposure to sediment at any of the surface water bodies evaluated (all hazard indices were less than 1, which is the benchmark of concern).

The cancer risks posed by exposure to surface water in Flagstone Brook, Pauls Brook, McIntyre Brook, and Lower Newfields Ditch were below 10^{-6} for all exposure scenarios. Total hazard indices for all surface water exposure scenarios were less than 1.

C. Ecological Risk Assessment

The ecological risk assessment evaluated the potential adverse impacts of the COCs detected in surface water and surface sediment on aquatic life living in Lower Newfields Ditch and Flagstone, Pauls, and McIntyre Brooks.

Surface Water

Potential risks to aquatic communities were assessed by comparing surface water concentrations to NHDES AWQC, or to federal or other aquatic toxicity data when AWQC were not available, as shown in Tables 17 through 20. In Flagstone Brook, chronic hazard indices for both average and maximum concentrations exceeded 1 for 4,4'-DDT, aluminum, cadmium, and iron. All chronic hazard indices for Flagstone Brook were less than 10. Acute hazard indices for maximum concentrations slightly exceeded 1 for aluminum, cadmium, and copper. All acute hazard indices for average concentrations were below 1. In Pauls Brook, chronic hazard indices for both average and maximum concentrations exceeded 10 for chlordane while acute hazard indices for average and maximum concentrations exceeded 10 for 4,4'-DDD.

In McIntyre Brook, chronic hazard indices for both average and maximum concentrations exceeded 10 for mercury. All other chronic and acute hazard indices were less than 1. Chronic hazard indices for both average and maximum concentrations exceeded 10 for 4,4'-DDT, heptachlor epoxide, and cadmium in Lower Newfields Ditch. Chronic hazard indices for maximum concentrations slightly exceeded 1 for copper, selenium and zinc. All other chronic indices were below 1. Acute hazard indices for maximum concentrations slightly exceeded 1 for cadmium, copper, and zinc. All other acute hazard indices were below 1.

Sediment

The potential impacts of sediment contamination on the benthic and epibenthic communities in each surface water body were evaluated by comparing sediment concentrations with NOAA ER-Ls and ER-Ms. In addition, the EqP approach, a method recognized by EPA as a measure of bioavailability, was used to assess the potential impact of hydrophobic organic chemicals in sediment.

Flagstone Brook

The results of the ecological risk assessment for Flagstone Brook sediment are presented in Tables 21 and 22. ER-L hazard quotients (HQs) exceeded 1 for maximum concentrations of arsenic (HQ=9.82), chromium (HQ=1.15), lead (HQ=2.58), and zinc (HQ=1.31) in Flagstone Brook sediment. The highest sediment hazard quotient for organics in Flagstone Brook was attributed to pyrene (HQ=31.7) based on a comparison of AWQC with the calculated interstitial water concentration. The hazard quotient slightly exceeded 10 for 4,4'-DDT (HQ=11.3) based on a comparison of AWQC with the calculated interstitial water concentration.

The elevated concentrations of PAHs in Flagstone Brook sediment also are not believed to be associated with any of the areas of concern (AOCs) in Zone 1. The elevated concentrations are likely a result of runoff from the North Ramp. The highest concentrations of PAHs in Flagstone Brook sediment were detected at station 8031. This station is the most upgradient station and is located adjacent to the North Ramp. Runoff from the North Ramp is directed to Flagstone Brook via a 3-foot-diameter pipe that receives overland runoff from the North Ramp area. The runoff is considered to be a nonpoint source.

Based on the risk assessment previously presented, it was determined that concentrations of pesticides and arsenic in sediment at stations 819 and 821 in Flagstone Brook exceeded ecological-based criteria and resulted in hazard quotients of greater than 1. As a result, sediment toxicity tests were conducted on sediment collected from these two stations to further determine if a potential adverse risk to ecological receptors exists.

The results of the toxicity test are presented in the Toxicity Test Results for Flagstone Brook at Pease AFB, NH (G-794). The letter report concluded that based on a decreasing trend in pesticide concentrations in sediment, a serial dilution study in Flagstone Brook was not warranted. Pesticide concentrations in sediment have decreased over time. In addition, interstitial water concentrations for the pesticides 4,4'-DDD and 4,4'-DDE did not exceed corresponding AWQC.

There has only been one sample collected at either station 819 or 821 that has exceeded the ER-L for arsenic. The results of the toxicity test supported the decision not to develop remedial action objectives (RAOs) for Flagstone Brook. Additional monitoring of sediment conditions would likely verify a continued decline in sediment contaminant concentrations. This environmental monitoring will be conducted at Flagstone Brook as part of the long-term environmental monitoring requirements for the Landfill 5 source area and Zone 1 remedial actions.

Additionally, pesticide concentrations detected in Flagstone Brook are representative of basewide conditions at Pease AFB as a result of routine pesticide use in accordance with standards for licensed applications. Low levels of 4,4'-DDT and its breakdown products (DDE and DDE) have been detected in streams throughout Pease AFB and are a result of general historic pesticide use rather than a specific spill or release (G-797).

As previously mentioned, pesticides and PAHs detected in Flagstone Brook surface water and sediment samples are not believed to be associated with any of the AOCs in Zone 1. In addition, metals detected in Flagstone Brook sediment are considered to pose a limited risk to ecological receptors (HQs<10).

Pauls Brook

A comparison of maximum concentrations detected in Pauls Brook sediment and ER-L and ER-M values is presented in Table 23. The results of the EqP evaluation for Pauls Brook sediment are presented in Table 24. ER-L hazard quotients exceeded 1 for maximum concentrations of seven metals in Pauls Brook sediment: arsenic (HQ=2.3), cadmium (HQ=2.0), chromium (HQ=1.7), copper (HQ=2.0), lead (HQ=15.9), nickel (HQ=3.2), and zinc (HQ=7.2). Heptachlor epoxide (HQ=2.69E+04) had the highest sediment hazard quotient for organics in Pauls Brook. Interstitial water concentrations for pesticides in sediment in Pauls Brook also exceeded AWQC and resulted in hazard quotients substantially greater than 1.

Based on the results of the ecological risk assessment for Pauls Brook, the EPA review of the Zone 1 FS Report in August 1993 recommended modeling to assess the impact from bioaccumulation/biomagnification in Zone 1. A bioaccumulation risk assessment was performed to estimate the potential for contaminants in the sediment of Pauls Brook to bioaccumulate in terrestrial receptors. The study estimated the extent to which these contaminants could adversely affect terrestrial wildlife through trophic transfer. A wetlands

functional analysis also was performed to provide recommendations for any further action at Pauls Brook. The results of these studies are presented in the Bioaccumulation Risk Assessment for Pauls Brook Report (G-795).

The potential for bioaccumulation was evaluated by predicting chemical uptake into earthworms from site-related soil/sediment contamination and estimating chemical-specific doses to northern short-tailed shrews that may feed on these earthworms. Potential exposure to the shrew through sediment ingestion also was evaluated. The results of the bioaccumulation study indicated that a high probability exists for adverse effects occurring to small carnivorous mammals feeding in Pauls Brook or in the adjacent floodplain. Greater than 75% of the estimated risks to the shrew were a result of earthworm ingestion.

Based on the toxicological and exposure uncertainties associated with the bioaccumulation study, earthworm tissue collection and revision of calculated risks based on actual tissue samples as opposed to predicted tissue data were recommended.

The results of the revised risk assessment indicate that adverse effects potentially occur in carnivorous small mammals feeding in the stream proper or in the floodplain adjacent to Pauls Brook, particularly from exposure to chlordanes and lead.

During earthworm tissue sampling, signs of previously uncharacterized petroleum contamination were found within the Pauls Brook drainage, including a strong petroleum hydrocarbon odor and a sheen on the water and sediments. In addition, black deposits were found when digging for earthworms. Four sediment samples (S001 through S004) were collected in this area. PAHs were detected above background concentrations in all four samples. An additional 18 sediment samples were collected in the vicinity of Pauls Brook (S005 through S022) in May 1996, which confirmed the lateral extent of PAHs in sediments.

McIntyre Brook

As shown in Table 25, the average hazard quotients, based on a comparison with ER-L values, for sediment in McIntyre Brook equaled or exceeded 1 for lead. Maximum hazard quotients for lead, nickel, and zinc also exceeded 1. The results of the EqP evaluation for McIntyre Brook indicated hazard quotients greater than 1 for six PAHs, as shown in Table 26.

Based on the risk assessment, lead concentrations in sediment at stations 8057 and 8059 in McIntyre Brook substantially exceed NOAA ER-Ls. Calculated interstitial water concentrations for PAHs at these stations also exceeded EPA AWQC. As a result, sediment toxicity tests were conducted on sediment collected at stations 8057 and 8059.

No-observed-effect concentrations (NOECs) and lowest-observed-effect concentrations (LOECs) were developed as part of the serial dilution study for test organisms. These concentrations were assumed to provide a range of chemical concentrations that can be interpreted as drainage-specific biological effect levels. The calculated NOEC and LOEC for total PAHs (3.43 and 6.85 mg/kg, respectively) are relatively close to the ER-L value of 4.00 mg/kg. In addition, these values are present in sediment below the maximum background value of 8.94 mg/kg for total PAHs. The NOEC and LOEC of 8.94 and 17.88 mg/kg, respectively, for lead are well below the ER-L value of 35 mg/kg. In addition, the NOEC and LOEC are below the maximum background concentration of 42.1 mg/kg for lead in sediment at Pease AFB. Therefore, the NOEC and LOEC for lead were below background levels and deemed to be too conservative for use in the development of cleanup goals at McIntyre Brook. The complete results of the toxicity tests are contained in the Sediment Toxicity Letter Report for Pease AFB (G-758).

Lower Newfields Ditch

As shown in Table 27, the maximum hazard quotients, based on comparison with ER-L values, in Lower Newfields Ditch exceeded 1 for lead at station 803 (HQ=4.29) and zinc at station 802 (HQ=1.69) but were less than 10. Based on the EqP evaluation for Lower Newfields Ditch (see Table 28), hazard quotients exceeded 1 for four pesticides (alpha- and gamma-chlordane, 4,4'-DDD and 4,4'-DDT) and pyrene. With the exception of 4,4'-DDT, individual HQs for the other three pesticides were less than 10. The HQ for 4,4'-DDT exceeded 10 at only one sampling station (802) (HQ=111). Based on the low individual HQs for alpha- and gamma-chlordane and 4,4'-DDD and low frequency of detection for 4,4'-DDT, the potential for adverse effects (acute and chronic) to occur to benthic and epibenthic life from these detected contaminants appears limited. In addition, the concentrations of these pesticides in Lower Newfields Ditch are likely the result of basewide use of these chemicals to control insects and are not a result of a spill or release.

Although ecological-based criteria were slightly exceeded for pyrene, zinc, and lead, it is not believed that these contaminants pose a significant potential for adverse risk. In addition, because sampling location 802 is close to Spaulding Turnpike, the elevated lead and zinc levels are likely a result of

runoff from vehicular traffic on the highway and are not related to a site-specific activity at the base.

Pyrene was the only PAH detected above the maximum background concentration that had an EqP value greater than AWQC in Lower Newfields Ditch sediment. The elevated ecological risk associated with the PAHs, pyrene, and lead at sampling location 803 is probably not related to site specific activity. Several factors led to the conclusion that the PAH and lead contamination in this area is due to runoff from the road and not related to site-specific activity on base. Asphalt paving and general vehicular traffic may produce runoff with low levels of PAHs and lead. The upgradient sampling location does not exceed cleanup goals for these contaminants, and the buildings that could discharge pyrene to the drainage ditch were not used for industrial activities. These buildings include an elementary school and a barracks (Building 58). The hazard quotient for this upgradient sampling location (HQ= 1.76) is very close to the benchmark HQ of 1, and the low total organic carbon (TOC) concentration in sediment at this sampling location could have resulted in a higher hazard quotient with the EqP methodology.

Based on the information presented above, development of RAOs for Lower Newfields Ditch was not required.

Actual or threatened releases of hazardous substances from Pauls Brook and McIntyre Brook, if not addressed by implementing the response actions selected in this ROD, may present an imminent and substantial endangerment to public health, public welfare, or the environment.

VII. DEVELOPMENT AND SCREENING OF ALTERNATIVES

A. Statutory Requirements/Response Objectives

Section 121 of CERCLA establishes the following statutory requirements and preferences:

- Remedial actions must be protective of human health and the environment.
- Remedial actions must comply with all federal and more stringent state environmental standards, requirements, criteria, or limitations, unless a waiver is invoked, during implementation and upon completion..
- The remedial action selected must be cost-effective and use permanent solutions and alternative treatment technologies or resource recovery technologies to the maximum extent practicable.
- A preference for remedies in which treatment that permanently and significantly reduces the toxicity, volume, or mobility (TMV) of the hazardous substances is a principal element over remedies not involving such treatment.

Response alternatives were developed to be consistent with these mandates.

Based on preliminary information relating to the types of contaminants, environmental media of concern, and potential exposure pathways, remedial action objectives (RAOs) were developed to aid in the development and screening of alternatives. These RAOs were developed to mitigate existing and future potential threats to the environment via source control. RAOs for Pauls Brook and McIntyre Brook are discussed in this subsection. Contaminants in surface water and sediment at Flagstone Brook and Lower Newfields Ditch do not pose unacceptable risk (current or future) to human and ecological receptors to require remedial actions under CERCLA. For this reason, no further action is warranted for these sites under CERCLA.

Pauls Brook

The results of the human health baseline risk assessment indicated that no significant adverse health effects to human receptors resulting from ingestion of or dermal contact with contaminated sediment or surface water are expected at Pauls Brook. Because maximum sediment concentrations exceeded ecological risk-based remedial objectives (ROs) or regulatory-based ROs, RAOs were developed for sediment in Pauls Brook.

As previously mentioned, chronic surface water hazard indices for both average and maximum concentrations exceeded 10 for chlordane while acute surface water hazard indices for average and maximum concentrations exceeded 10 for 4,4'-DDD. It should be noted that AWQC were developed by EPA's Office of Water for the protection of aquatic life. While the exceedences of these contaminants in surface water may pose a potential risk to aquatic life, these contaminants were also detected in sediments. The results of the bioaccumulation risk assessment report conducted as part of the ecological risk assessment for Pauls Brook revealed that the majority of ecological exposure and risk was driven by sediment contaminants,

specifically pesticides, bioaccumulating in benthic invertebrates that are ingested by terrestrial receptors inhabiting the forested wetland system in Pauls Brook. Because the majority of ecological risk was driven by the exposure of these contaminants to terrestrial receptors, cleanup goals for surface water were not selected. However, it is expected that completed or planned source control remedial actions (i.e., containment of source soil, excavation and containment of contaminated sediment, and minimization of landfill leachate) will contribute to the improvement of surface water quality in Zone 1. Specifically, the planned excavation of sediments from Pauls Brook is expected to contribute to the attainment of AWQC over the long term. It should be noted, however, that final ambient surface water quality will depend on a variety of factors, including potential upgradient sources of contamination, background water quality, and the natural chemical equilibria between sediment and surface water. For these reasons, surface water cleanup goals were not developed for Pauls Brook.

Organic and inorganic contamination in Pauls Brook sediment are to be addressed by the following RAO:

- Protect ecological receptors from direct contact with, or ingestion of, sediment containing contaminants at concentrations that may present an unacceptable ecological risk.

Figure 12 presents the area in Pauls Brook requiring remediation based on the aforementioned RAOs.

McIntyre Brook

Based on the baseline risk assessment, the contaminants in McIntyre Brook do not present an unacceptable risk to human receptors.

The results of the baseline risk assessment indicated that no unacceptable risk to human receptors as a result of contact with surface water would be likely because the cumulative cancer risks neither exceeded 10⁻⁶ nor a hazard index of 1. The ecological risk assessment indicated that chronic hazard indices for average and maximum concentrations exceeded 1 for mercury only. However, mercury was only detected at one station (811) in 1988 at a concentration of 0.29 Ig/L; mercury was not detected at that or any other station during subsequent sampling events. For this reason, RAOs were not developed for McIntyre Brook surface water.

The sediment, however, may present an unacceptable risk to the environment. Organic and inorganic contamination in McIntyre Brook sediment are to be addressed by the following RAO:

- Protect ecological receptors from direct contact with, or ingestion of, sediment containing contaminants at concentrations that may present an unacceptable risk.

Figure 13 presents the area in McIntyre Brook requiring remediation based on the aforementioned RAOs.

Based on the results of the sediment survey, excavation of fine-grained sand and silt sediment at the water surface/bank interface is recommended in the area of stations 8059 and 8060. Excavation in the vicinity of station 8057 should focus on removing the depositional silt that lines the channel bottom in this area. The actual areas of sediment excavation will be determined through confirmational sampling at the time of remediation.

B. Technology and Alternative Development

CERCLA and the NCP set forth the process by which remedial actions are evaluated and selected. In accordance with this process, a range of alternatives was developed for Pauls Brook and McIntyre Brook that addressed the various media.

With respect to source area control, the Draft Final Zone 1 FS Report (G-622) and the McIntyre Brook/Lower Newfields Ditch RI/FS Report (G-618) developed a range of alternatives. This range included an alternative that removes or destroys hazardous substances to the maximum extent feasible and eliminates or minimizes to the degree possible the need for long-term management, an alternative that involves little or no treatment but provides protection through engineering or institutional controls, and a no-action alternative.

In Section 3 of the Draft Final Zone 1 FS Report (G-622) and Section 6 of the Draft Final McIntyre Brook/Lower Newfields Ditch RI/FS Report (G-618), technologies were identified, assessed, and screened based on implementability, effectiveness, and cost. The purpose of the initial screening was to narrow

the number of potential remedial actions for further detailed analysis while preserving a range of options. Each alternative was then evaluated in detail and screened in Section 5 of the Zone 1 FS Report (G-622) and Section 7 of the McIntyre Brook/Lower Newfields Ditch RI/FS Report (G-618).

Three source control alternatives (Alternatives 1 through 3) were retained for detailed analysis in the McIntyre Brook/Lower Newfields Ditch RI/FS Report (G-618). Three source control alternatives (Alternatives PB-1, PB-2, and PB-3A) also were retained for Pauls Brook for detailed analysis in the Zone 1 FS Report. However, one of the alternatives for each brook involved excavation of sediments with consolidation of sediments on LF-5. Because consolidation on LF-5 is no longer feasible, this alternative was eliminated from consideration in the Brooks/Ditches RI/FS Consolidated Report (G-805). The alternatives evaluated in the Zone 1 FS and McIntyre Brook and Lower Newfields Ditch RI/FS Report were combined into three alternatives for both Pauls Brook and McIntyre Brook in the Brooks/Ditches RI/FS Consolidated Report. The alternatives evaluated included a no action, limited action (surface water and sediment monitoring) and excavation/off-base disposal. Table 29 identifies the three alternatives that were retained for detailed analysis.

VIII. DESCRIPTION OF ALTERNATIVES

This section provides a summary of each alternative that was evaluated and retained for the comparative analysis in the Brooks/Ditches RI/FS Consolidated Report (G-805).

The alternatives analyzed for McIntyre Brook and Pauls Brook are as follows:

- Alternative 1: No action (always considered, as required by CERCLA).
- Alternative 2: Limited action (surface water and sediment monitoring).
- Alternative 3: Excavation of selected McIntyre Brook and Pauls Brook sediment with off-site disposal, wetland restoration, and surface water and sediment quality monitoring.

Alternative 1: No Action

The no-action alternative was evaluated in detail in the Brooks/Ditches RI/FS Consolidated Report (G-805) to serve as a baseline for comparison with the other remedial alternatives under consideration. Under this alternative, no treatment or containment of source materials would occur. Costs primarily include completion of 5-year reviews.

Estimated time for design and construction:	Not applicable.
Estimated time of operation:	30 years.
Estimated capital cost:	None.
Estimated operation and maintenance (O&M) cost:	\$26,200.
Estimated total cost (net present worth):	\$26,200.

Alternative 2: Limited Action

This alternative would consist of the following components:

- Reliance on natural attenuation to reduce contaminant concentrations.
- Long-term surface water and sediment sampling to assess whether natural attenuation has reduced contaminant concentrations, and to determine whether additional remedial action may be warranted.

Estimated time for design and construction:	Not applicable.
Estimated time of operation:	30 years.
Estimated capital cost:	Not estimated.
Estimated O&M cost (net present worth):	\$660,500.
Estimated total cost (net present worth):	\$660,500.

Alternative 3: Excavation of Selected Pauls Brook and McIntyre Brook Sediment with Off-Base Disposal

This alternative would consist of the following components:

- Excavation of sediment exceeding cleanup goals from Pauls Brook and McIntyre Brook and off-base treatment and/or disposal.
- Sedimentation and erosion control during sediment excavation.
- Restoration of wetlands impacted or destroyed by sediment excavation at Pauls Brook.
- No further action for Lower Newfields Ditch and Flagstone Brook.
- Environmental monitoring during remedial operations.
- Long-term environmental monitoring in Pauls and McIntyre Brooks.

Estimated time for design and construction:	2 months.
Estimated time of operation:	30 years.
Estimated capital cost:	\$532,800.
Estimated O&M cost (net present worth):	\$659,751.
Estimated total cost (net present worth):	\$1,192,551.

IX. SUMMARY OF THE COMPARATIVE ANALYSIS OF ALTERNATIVES

Section 121(b)(1) of CERCLA presents several factors that at a minimum EPA is required to consider in its assessment of alternatives. Building on these specific statutory mandates, the NCP articulates nine evaluation criteria to be used in assessing the individual remedial alternatives.

A detailed analysis was performed on the alternatives using the nine evaluation criteria in order to select a remedy for Pauls Brook and McIntyre Brook. The following is a summary of the comparison of the strengths and limitations of each alternative with respect to the nine evaluation criteria. These criteria are summarized as follows.

Threshold Criteria

The following two threshold criteria must be met in order for the alternatives to be eligible for selection in accordance with the NCP:

1. Overall protection of human health and the environment addresses whether a remedy provides adequate protection and describes how risks posed through each pathway are eliminated, reduced, or controlled through treatment, engineering controls, or institutional controls.
2. Compliance with applicable or relevant and appropriate requirements (ARARs) addresses whether a remedy will meet all of the ARARs of other federal and state environmental laws and/or provide grounds for invoking a waiver.

Primary Balancing Criteria

The following five criteria are used to compare and evaluate the elements of one alternative with another once the threshold criteria have been met:

3. Long-term effectiveness permanence assesses alternatives based on the long-term effectiveness and permanence they afford, along with the degree of certainty that they will prove successful.
4. Reduction of toxicity, mobility, or volume (TMV) through treatment addresses the degree to which alternatives employ recycling or treatment that reduces TMV, including how treatment is used to address the principal threats posed by the site.
5. Short-term effectiveness addresses the period of time needed to achieve protection and any adverse impacts on human health and the environment that may be posed during the construction and implementation period until cleanup goals are achieved. It also evaluates how long it would take for an alternative to attain RAOs.
6. Implementability addresses the technical and administrative feasibility of a remedy, including the availability of materials and services needed to implement a particular option.

7. Cost includes estimated capital, O&M, and present-worth costs.

Modifying Criteria

The following modifying criteria are used in the final evaluation of remedial alternatives generally after public comments on the RI/FS Report and the Proposed Plan are reviewed:

8. State acceptance addresses the state's position and key concerns related to the preferred alternative and other alternatives, and the state's comments on ARARs or the proposed use of waivers.
9. Community acceptance addresses the public's general response to the alternatives described in the Proposed Plan and RI/FS Report. Community acceptance of the Proposed Plan has been evaluated based on written comments and verbal comments received in public meetings during the public comment period.

Following the detailed analysis of each individual alternative, a comparative analysis, focusing on the relative performance of each alternative against the nine criteria, was conducted. This comparative analysis is presented in Table 30.

The following subsections present the nine criteria, including the two modifying criteria not discussed in the RI/FS reports; a brief narrative summary of the alternatives; and the strengths and limitations according to the detailed comparative analysis.

A. Overall Protection of Human Health and the Environment

The no-action and limited-action alternatives would not be expected to achieve cleanup goals over the short term and ecological receptors would continue to be exposed to contaminants in sediment. Over the long term, as contaminant sources to the respective waterways are controlled, and as natural attenuation processes degrade residual contamination in the waterways, it is possible that sediment quality in Pauls Brook and McIntyre Brook could approach or meet cleanup objectives. However, it may be many years before cleanup goals are achieved.

The limited-action alternative, which involves long-term surface water and sediment sampling and analysis, would be more protective of the environment than the no-action alternative because it provides for monitoring and evaluation of conditions in the brooks. This monitoring would be conducted to assess the effectiveness of source control actions, to determine whether natural attenuation has reduced contaminant concentrations, and to determine whether additional remedial action may be warranted.

The excavation alternative would likely protect ecological receptors over the short term because sediment containing contaminants at concentrations above cleanup goals would be excavated and disposed of off-site.

It is expected that removal of the sediment will, in conjunction with other source area actions conducted in Zone 1 and Zone 3, help improve surface water quality in the brooks. Ultimately, surface water quality would depend on a number of other factors, including background quality, the effects of potential upstream contaminant sources, and natural chemical equilibria between, sediment and surface water. The excavation alternatives would likely aid in reducing contaminant concentrations in surface water in a shorter period of time than would the no-action and limited-action alternatives.

B. Compliance with ARARs

Each alternative was evaluated for compliance with ARARs, including chemical-, action-, and location-specific ARARs. These alternative-specific ARARs are presented in Appendix C of the Brooks/Ditches RI/FS Consolidated Report. The no-action and limited action alternatives would not achieve chemical-specific ARARs for sediment in the short term. Alternative 3 would be expected to comply with all location- and action-specific ARARs.

C. Long-Term Effectiveness

The long-term effectiveness of the no-action and limited action alternatives would be similar, except that under the limited-action alternative, surface water and sediment sampling and analysis would be used to monitor the progress of source control actions and natural attenuation processes, and could be used to determine whether and when additional remedial action was warranted.

Under the no-action alternative, it is possible that cleanup goals would be achieved over the long term as source control activities, such as bioventing at the BFSAs in Zone 1, reduce contaminant loadings to the respective waterways and as natural attenuation processes reduce residual contaminant concentrations. However, it could be many years before cleanup goals are achieved under these alternatives.

The excavation alternative would achieve cleanup objectives for sediment in the short term and, possibly, the long term; however, the degree to which sediment excavation would improve surface water quality cannot be quantified. The ultimate surface water quality may also depend on factors such as potential upstream contaminant sources and natural chemical equilibria between sediment and surface water. Monitoring of surface water and sediments will be conducted to measure the long-term effectiveness of the remedy. In addition, surface water monitoring will continue to be conducted by the Pease Development Authority as required under the NPDES program. Coordination will be required between the Air Force, EPA, NHDES and the Pease Development Authority to ensure that the permitted discharges under the NPDES program do not threaten the protectiveness of the remedy.

D. Reduction in TMV of Contaminants

Because Alternatives 1, 2 or 3 do not involve the use of treatment technologies to reduce the toxicity, mobility or volume of waste in sediments, none of these remedial alternatives will meet this criterion.

E. Short-Term Effectiveness

Implementation of the no-action and limited-action alternatives would not be expected to cause adverse impacts on the environment. The only impacts on the environment associated with implementation of these alternatives would be the continued potential for ecological risks associated with existing contaminant concentrations. Alternatives 1 and 2 would require the longest time to achieve protection because they rely on natural attenuation to degrade site organic contaminants, while the Alternative 3 involves active removal of contaminated sediment. Alternative 3 is expected to be completed in approximately 2 months.

The excavation alternative would be protective of ecological receptors in the short term, but would likely impact surrounding wetlands as a result of excavation activities. Impacts may include the loss of vegetation, wildlife habitat and food sources, topsoil, and seed bank. Following excavation, the brooks will be backfilled with clean soil to match pre-excavation grades, and sideslopes will be revegetated as appropriate for stabilization. However, damage to Pauls Brook and surrounding wetlands will be unavoidable. It is not expected that the extent of wetlands impacted by excavation would be significant. Excavation of Pauls Brook sediment would be expected to impact adjacent mature forested wetlands. Reestablishment of these forested wetlands would take many years.

The wetlands within the Pauls Brook watershed are primarily deciduous forest dominated by red maple (*Acer rubrum*). Pauls Brook contains a defined bed and bank with a shallow depth-to-bed in some areas. Sheet flow through wetlands often results from storm events. Areas of emergent wetlands are found within the stream channel and in the headwaters adjacent to Merrimac Drive. Excavation of sediments will impact both the existing stream channel and adjacent wetlands. It is estimated that 1 acre of wetlands and other waters would be impacted by remediation in the Pauls Brook watershed.

A functional assessment of the Pauls Brook wetland complex was conducted as part of the bioaccumulation study. Wetland functions that would be adversely impacted from remediation include hydrologic support, water quality, and storm and floodwater storage. The Pauls Brook wetland complex had a low ranking for the biological function because of its low diversity.

Remediation will result in negative short-term impacts to all wetland functions. However, most functions will be restored following the completion of remediation and restoration of the impacted areas. In addition, the benefit to the environment from removing accumulated hazardous chemicals outweighs any short-term impacts. A negative long-term impact will be the removal of trees from the wetlands. The impacted areas will no longer function as forested wetlands. While the area can be replanted, it will take several decades before the area will again function as a deciduous forested wetland.

Alternative 3 involves slightly more impacts on site workers and the surrounding community because it involves excavation of sediment for off-site disposal. Because Alternative 3 involves transporting sediment off base, there could be additional risks to communities associated with accidental spills during transport to the off-site facility.

F. Implementability

Alternative 1 is the easiest to implement because it involves no remedial activities. The limited-action alternative, which involves long-term monitoring of surface water and sediment quality, would be easily

implemented using readily available equipment, services, and specialists. Monitoring would not interfere with the ability to undertake any additional remedial actions, if deemed necessary in the future. Alternative 3 would involve more scheduling problems because of the off-base treatment/disposal involved. Excavation difficulties would arise during wet excavation (dredging) in the brook, and the materials removed may present handling problems. The excavation alternative would require intensive preremedial design sampling to better define the areas to be remediated.

Alternative 3 would be the most difficult to implement, from a regulatory aspect, because off-base transport and treatment processes would likely require obtaining agency permits/approvals. Federal and state agency permits for the off-base transport of contaminated sediment would be required.

Sediment excavation would not interfere with the ability to perform any additional remedial actions that may be necessary in the future. Sediment excavation would be a reliable method for removing sediment containing contaminants at concentrations exceeding cleanup goals

G. Cost

The estimated present-worth costs of the alternatives are as follows:

Remedial Alternative	Capital Cost (\$)	30-Year Present Worth O&M Cost (\$)	Total Present-Worth Cost (\$)
Pauls Brook McIntyre Brook			
1. No action (always considered, as required by CERCLA).	0	26,200	265,200
2. Limited action (surface water and sediment monitoring in Pauls Brook and McIntyre Brook).	0	660,500	660,500
3. Excavation of selected Pauls Brook and McIntyre Brook sediment with off-site treatment/disposal, wetlands restoration, and surface water and sediment quality monitoring.	532,800	659,751	1,192,551

H. State Acceptance

As summarized in Section II of this document, NHDES has been involved in the environmental activities at Pease AFB since the mid-1980s. The RI/FS Reports were developed with an Air Force lead, with NHDES and EPA oversight, in accordance with the FFA. NHDES has reviewed this document and concurs with the selected remedy. A copy of the Declaration of Concurrence is included in Appendix B.

I. Community Acceptance

The comments received during the public comment period and the public hearing on the Proposed Plan are presented in the Responsiveness Summary (see Appendix C).

X. THE SELECTED REMEDY

The selected remedy (Alternative 3) for the remediation of Pauls and McIntyre Brooks involve the excavation of contaminated sediments. Sediment will be excavated using standard construction equipment, such as a backhoe. Sediment with contaminant concentrations exceeding cleanup goals will be removed. The volume of sediment to be excavated will be determined by confirmational sampling at the time of remediation. Hay bales and silt screens will be used to minimize potential migration of contaminated sediments during construction.

The excavated material will be transported to an approved off-base facility for disposal. Excavated material will be analyzed in accordance with the requirements of the selected disposal facility. It is not anticipated that excavated sediments would be characterized as a RCRA hazardous waste. Therefore, treatment may not be required prior to disposal.

Surface water and sediment samples from Pauls Brook will be collected and analyzed semiannually for the first 5 years following remediation and annually thereafter to monitor conditions within the brook. Additional remedial actions may be considered if warranted.

A. Methodology for Cleanup Goal Determination

Cleanup goals have been selected for sediment in Pauls Brook and McIntyre Brook. Cleanup goals have been established for COCs identified in the risk assessment section of the Brooks/Ditches RI/FS Consolidated Report (G-805) and for contaminants detected at levels exceeding ARARs, risk-based concentrations, or background values.

Cleanup goals were selected after comparing maximum contaminant concentrations detected for each COC in sediment with appropriate chemical-specific ARARs, background values, and ecological risk-based concentrations.

Cleanup goals were not established for chemicals detected at maximum concentrations that were lower than appropriate ARARs, background values, or risk-based concentrations. Cleanup goals for sediment in Pauls Brook and McIntyre Brook are summarized in the subsections that follow.

B. Pauls Brook

Table 31 presents ecological-based ROs (ER-Ls for inorganics, and EqP values for organics), risk-based cleanup concentrations, maximum background concentrations, and maximum concentrations detected in sediment, together with selected cleanup goals. For the pesticide COCs, ecological-based ROs were compared to site-specific risk-based cleanup concentrations. Risk-based cleanup concentrations were calculated using a predictive food chain model to estimate the potential for adverse risks to small carnivorous mammals feeding on earthworms in the contaminated sediments. The risk-based cleanup concentrations developed for these COCs represent a range of concentrations that provide protectiveness based on a low exposure scenario (HQ=1) and a high exposure scenario (HQ=10). Because site-specific factors have a direct impact on the bioavailability of contaminants to ecological receptors, the site-specific risk-based cleanup concentrations were selected as cleanup goals for the pesticide COCs. The conservative low exposure concentrations were selected as the cleanup goals due to the uncertainty regarding receptor exposure to multiple contaminants (i.e., additivism, antagonism, and synergism). As a result, cleanup goals were established for 4,4'-DDE, 4,4'-DDD, and 4,4'-DDT.

Cleanup goals for total PAHs were selected for Pauls Brook, rather than for individual PAHs, based on the results of discussions at a meeting attended by the Air Force, NHDES, and EPA New England on 17 January 1995. Sediment toxicity tests conducted at McIntyre Brook and Flagstone Brook where PAHs were a concern, could not distinguish those individual PAHs that were responsible for the toxicity measured during the tests. Therefore, the Pease background concentration for total PAHs was selected as the cleanup goal for Paul Brook sediment.

For metal COCs, maximum detected concentrations were compared with ER-Ls and maximum background concentrations, where available. Risk-based cleanup concentrations were also developed for cadmium and lead. With the exception of cadmium, the higher of the three values were chosen as cleanup levels. Because cadmium is a known bioaccumulator and is a significant contributor of total risk posed by Pauls Brook sediments, the low exposure risk-based cleanup level was selected as the cleanup goal.

C. McIntyre Brook

Sediment cleanup goals for McIntyre Brook were developed for organics based on the EqP methodology, and for inorganics based on comparison with the NOAA ER-L criteria. Background values were selected when they were greater than the EqP value or ER-L. Tables 32 and 33 present the organic and inorganic cleanup goals, respectively, for McIntyre Brook. Cleanup goals for McIntyre Brook sediment were developed for total PAHs, lead, nickel, and zinc.

As noted in the supplement to the Draft Final Zone 3 FS Report (G-628), the pesticide concentrations detected in Zone 3 sediment are representative of basewide conditions at Pease AFB. In addition, these concentrations do not pose unacceptable risks to human health and the environment and do not warrant remedial action under CERCLA. A comparison of pesticide concentrations in Zone 3 sediment to ambient basewide pesticide application concentrations is presented in the Pesticides in Sediment Data Review Letter Report (G-797).

D. Description of Remedial Components

The selected remedy (Alternative 3) will involve the following key components:

- Excavation and removal of sediment exceeding cleanup goals from Pauls Brook and McIntyre Brook.

- Excavated sediment exceeding cleanup goals from Pauls Brook and McIntyre Brook will be transported off-base for treatment and/or disposal.
- Sediment and erosion control will occur during excavation. Sediment excavations will be backfilled with clean fill.
- Restoration of wetlands impacted or destroyed by sediment excavation at Pauls Brook.
- Environmental monitoring during remedial operations.
- Long-term environmental monitoring in Pauls Brook and McIntyre Brook, consisting of sediment and surface water sampling and analysis.

Sediment Excavation and Off-Site Disposal

The selected remedy involves the excavation of sediment within Pauls Brook and McIntyre Brook that exceed cleanup goals for organic and inorganic contaminants. Sediment excavation would be conducted with standard construction equipment. The sediment will be properly secured for transportation to the off-site disposal facility. A grading plan would be developed for each brook, and upon completion of excavation activities, excavated areas would be backfilled with clean soil. Approximately 1 acre of wetlands impacted or destroyed by remediation in Pauls Brook will be restored upon completion of excavation activities. Excavated soil would be transported off-base; however, the final location for sediment disposal would not be determined until the time of remedial design. It is not anticipated that excavated sediments would be characterized as a RCRA hazardous waste. Therefore, treatment may not be required prior to disposal. However, asphalt batching, an off-site disposal option that provides for both treatment and resource recovery, may be considered as the cost is comparable with off-site landfill disposal.

Confirmational sampling and analysis for VOCs, SVOCs, pesticides (in Pauls Brook only), and metals would be performed to define limits of excavations and to ensure removal of contaminated material.

Construction Sequence

The excavation of sediments in Pauls Brook and McIntyre Brook could occur simultaneously. Implementation of the alternative is estimated to require 2 to 3 weeks for each brook. However, delivery of all contaminated sediments to the off-site disposal facility could require several months, depending on the scheduling constraints of the disposal facility.

The sediment excavation could be performed at any time during the construction season; however, it is recommended that the sediment excavation occur in the drier months of the season, such as July and August. This will minimize the erosion controls required.

Institutional Controls and Monitoring

No institutional controls will be necessary since all contaminated sediment exceeding cleanup goals will be removed. Short-term sediment monitoring would consist of confirmational sampling for the excavation of sediment. Long-term sediment and surface water monitoring would be performed at Pauls and McIntyre Brooks.

XI. STATUTORY DETERMINATIONS

The remedial action selected for implementation in Pauls Brook and McIntyre Brook is consistent with CERCLA and, to the extent practicable, the NCP. The selected remedy is protective of human health and the environment, attains ARARs, and is cost effective.

A. The Selected Remedy Is Protective of Human Health and the Environment

The remedy at Pauls and McIntyre Brooks will permanently reduce the risks posed to human health and the environment by eliminating, reducing, or controlling exposures to human and ecological receptors through treatment, engineering controls, and institutional controls. Specifically, the selected remedy will include:

- Excavation and off-base disposal of contaminated sediments from Pauls and McIntyre Brooks, thereby reducing receptor exposure to the sediments.

B. The Selected Remedy Attains ARARs

This remedy will attain federal and more stringent state ARARs. The major ARARs that are either applicable or relevant and appropriate to the selected remedy are as follows:

- Chemical-Specific ARARs.
 - Clean Water Act (CWA).
 - State of New Hampshire Surface Water Quality Regulations.
- Location-Specific ARARs.
 - Fish and Wildlife Coordination Act (FWCA).
 - Executive Order 11990 (40 CFR 6, Appendix A), Protection of Wetlands.
 - CWA, Section 404 (40 CFR 230 and 30 CFR 320 through 330), Prohibition of Wetlands Filling.
 - State of New Hampshire Administrative Code Env-Ws 300, 400, 600 C Criteria and Conditions for Fill and Dredging in Wetlands.
- Action-Specific ARARs
 - Resource Conservation and Recovery Act (RCRA).
 - State of New Hampshire Hazardous Waste Management Act and Hazardous Waste Rules, Env-Wm 100-1000
 - State of New Hampshire Admin Code Env-Wm 400-404 - Identification and Listing of Hazardous Waste
 - State of New Hampshire Admin Code Env-Wm 707.3 - Waste Pile Requirements

The Basewide ARARs Document (G-614) lists all ARARs identified for Pease AFB and provides a detailed discussion of the ARARs. Table 35 provides a complete list of the ARARs and to be considered criteria (TBCs) for the selected remedy, including regulatory citations; requirement synopses; actions to be taken to attain the requirements; and determinations as to whether the requirement is applicable, relevant, and appropriate, or to be considered.

C. The Selected Remedial Action Is Cost-Effective

The Air Force considers the selected remedy to be cost effective (i.e., the remedy affords overall effectiveness proportional to its costs). The overall effectiveness of each identified alternative was evaluated by assessing the relevant three criteria: long-term effectiveness and permanence, reduction in TMV through treatment, and short-term effectiveness. Effectiveness was then compared to the cost of each alternative.

A summary of the costs of the remedial alternatives evaluated is presented in Subsection IX.G. The selected remedy is the most effective alternative because it provides the highest degree of effectiveness and permanence. While the selected remedy is the most expensive alternative evaluated, the cost is proportionate to the high degree of effectiveness that it affords.

Costs associated with the selected remedy include costs associated with mobilization and demobilization; pre-excavation sampling and analysis; sediment excavation, transport, and confirmatory sampling; sediment disposal; backfilling with clean fill; sediment and erosion control; health and safety; and wetlands restoration and long-term monitoring in Pauls Brook.

D. The Selected Remedy Uses Permanent Solutions and Alternative Treatment or Resource Recovery Technologies to the Maximum Extent Practicable

The Air Force evaluated the alternatives to determine which provides the best balance of tradeoffs among alternatives in terms of (1) long-term effectiveness and permanence; (2) reduction of TMV through treatment; (3) short-term effectiveness; (4) implementability; and (5) cost. The balancing test emphasized long-term effectiveness and permanence and the reduction of TMV through treatment, and

considered the preference for treatment as a principal element, the bias against off-site land disposal of untreated waste, and community and state acceptance. Of the alternatives evaluated, the selected remedy provides the most favorable balance of the factors considered.

The selected remedy provides the highest degree of long-term effectiveness in the brooks. The selected remedy, through removal of the sediment source areas, reduces the potential risks to ecological receptors. Although on-base disposal is generally preferred, as previously mentioned, disposal of the excavated sediment on base at LF-5 was originally considered; however, this option is no longer feasible. Therefore, the off-site disposal option was selected.

E. The Selected Remedy Does Not Satisfy the Preference for Treatment That Permanently and Significantly Reduces the Toxicity, Mobility, or Volume of the Hazardous Substances as a Principal Element

Because the selected remedy does not involve the use of treatment technologies to reduce the toxicity, mobility or volume of waste in sediments, this criterion will not be met.

XII. DOCUMENTATION OF SIGNIFICANT CHANGES

Remedial alternatives for McIntyre Brook were originally developed in the McIntyre Brook/Lower Newfields Ditch RI/FS Report (G-618). Remedial alternatives for Pauls Brook were originally developed in the Draft Final Zone 1 FS Report (G-622). The Brooks/Ditches RI/FS Consolidated Report (G-805) summarizes the impact of Pease AFB sites on various surface water bodies that were not addressed in the Proposed Plans or RODs for the various IRP sites or zones. The surface water bodies addressed in this ROD include Flagstone Brook, Pauls Brook, McIntyre Brook, and Lower Newfields Ditch. As previously mentioned, alternatives involving sediment excavation with consolidation on LF-5 were eliminated from consideration in this document because this is no longer a feasible alternative because LF-5 has undergone final closure.

The selected remedy has undergone changes since the issuance of the Proposed Plan for Flagstone Brook, Pauls Brook, McIntyre Brook, and Lower Newfields Ditch. The Proposed Plan originally included surface water cleanup goals for Pauls Brook as part of the proposed remedy. It was determined subsequent to the issuance of the Proposed Plan that surface water cleanup goals for 4,4'-DDD, chlordane, iron, and zinc in Pauls Brook were not required. While these contaminants exceeded AWQC and/or maximum background concentrations, the results of the bioaccumulation risk assessment report conducted as part of the ecological risk assessment for Pauls Brook revealed that the majority of ecological exposure and risk was driven by sediment contaminants, specifically pesticides, bioaccumulating in benthic invertebrates that are ingested by terrestrial receptors inhabiting the forested wetland system in Pauls Brook. Because the majority of ecological risk was driven by the exposure of these contaminants to terrestrial receptors, cleanup goals for Pauls Brook surface water were dropped from the selected remedy. However, the planned excavation of sediments from Pauls Brook, along with other completed or planned source control remedial actions in Zone 1 are expected to contribute to the attainment of AWQC over the long term.

XIII. STATE ROLE

NHDES has reviewed the various alternatives and has indicated its support for the selected remedy. NHDES has also reviewed the Zone 1 RI Report, Zone 1 FS Report, McIntyre Brook/Lower Newfields Ditch RI/FS Report, and Brooks/Ditches RI/FS Consolidated Report, including the risk assessments, to determine whether the selected remedy is in compliance with applicable or relevant and appropriate state environmental laws and regulations. NHDES concurs with the selected remedy for Pauls Brook and McIntyre Brook. A copy of the Declaration of Concurrence is included as Appendix B.

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LIST OF ACRONYMS

1,1,1-TCA	1,1,1-trichloroethane
AAL	Ambient Air Limits
AFB	Air Force Base
AOCs	Areas of Concern
ARARs	Applicable or Relevant and Appropriate Requirements
AWQC	ambient water quality criteria
BFSA	Bulk Fuel Storage Area
CE	Civil Engineering
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFA	Code of Federal Regulations
CWA	Clean Water Act
CZMA	Coastal Zone Management Act
DCE	cis-1,2-dichloroethene
DEQPPM	Defense Environmental Quality Program Policy Memorandum
DOD	U.S. Department of Defense
EPA	U.S. Environmental Protection Agency
EqP	equilibrium partitioning
ER-L	biological effects range-low
ER-M	biological effects range-median
ESA	Endangered Species Act
FFA	Federal Facilities Agreement
FWCA	Fish and Wildlife Coordination Act
HAs	Health Advisories
HMTA	Hazardous Materials Transportation Act
HQs	hazard quotients
IRP	Installation Restoration Program
LDRs	land disposal restrictions
LF-2	Landfill 2
LF-4	Landfill 4
LF-5	Landfill 5
LOEC	lowest-observed-effect concentration
M&E	Metcalf and Eddy, Inc.
MCL	Maximum Contaminant Level
MCLG	Maximum Contaminant Level Goal
NCP	National Contingency Plan
NHANG	New Hampshire Air National Guard
NHDES	New Hampshire Department of Environmental Services
NOAA	National Oceanic and Atmospheric Administration
NOEC	no-observed-effect concentration
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
O&M	operation and maintenance
OSHA	Occupational Safety and Health Act
PAHs	polynuclear aromatic hydrocarbons
PCDA	Paint Can Disposal Area
PCE	tetrachloroethene
PDA	Pease Development Authority
RAO	Remedial Action Objective
RCRA	Resource Conservation and Recovery Act
RfD	reference dose
RI	Remedial Investigation
RO	Remedial Objective
ROD	Record of Decision
SARA	Superfund Amendments and Reauthorization Act
SVOC	semivolatile organic compound
SWQS	surface water quality standards
TBCs	to be considered criteria
TCE	trichloroethene
TMV	toxicity, volume, or mobility
TOC	total organic carbon
TPHs	total petroleum hydrocarbons
TSD	transportation, storage, and disposal
VOC	volatile organic compound

APPENDIX A

TABLES

Table 1

Investigation Report Summary
Brooks/Ditches, Pease AFB, NH

Phase, Stage or Program	Report Date	Author	Report Title	Zones/Sites Addressed
Stage 2	July 1990	WESTON	Installation Restoration Program Stage 2 Draft Final Report	Zone 1, Zone 3
Stage 4	May 1992	WESTON	Drainage Area Letter Report	Basewide
	May 1992	WESTON	Installation Restoration Program, Stage 4, Site Characterization Summary, Zone 3	Zone 3
	October 1992	WESTON	Installation Restoration Program, Stage 4, Site Characterization Summary, Zone 1	Zone 1
	April 1993	WESTON	McyIntyre Brook and Lower Newfields Ditch Remedial Investigation/ Feasibility Study	McIntyre Brook/Lower Newfields Ditch
	October 1991	WESTON	Draft Final Zone 1 Remedial Investigation Report	Zone 1
	December 1993	WESTON	Draft Final Zone 1 Feasibility Study Report	Zone 1
NA	June 1992	Fugro- McClelland	Wetlands Delineation and Evaluation for Pease International Tradeport	Zone 1, Zone 3
NA	November 1996	WESTON	Brooks/Ditches Remedial Investigation/Feasibility Study Consolidated Report	Flagstone, Pauls, and McIntyre Brooks, Lower Newfields Ditch

Table 4

**Summary of Highest Concentrations of Metals
Flagstone Brook Sediment Sample Results - Zone I
Brooks/Ditches, Pease AFB, NH**

Metal	Maximum Detected Background Concentration (mg/kg)	Maximum Detected Concentration (mg/kg)	Sampling Location ID	NOAA ER-L Action Guideline* (mg/kg)	NOAA ER-M Action Guideline* (mg/kg)
Aluminum	14,300	11,100	819A-D003	--	--
Arsenic	12.2	324	821-D003	33	85
Barium	52.5	583	8031-D104	--	--
Beryllium	0.83	0.87J	819A-D003	--	--
Boron	ND	33.9	8031-D104	--	--
Calcium	3,330	6,990	8106-D001	--	--
Chromium	53	91.9	8031-D001	80	145
Cobalt	14.4	16.7	819A-D005	--	--
Copper	23.2	22.6	819A-D004	70	390
Iron	21,900	61,200	8106-D001	--	--
Lead	42.1	90.4	8031-D005	35	110
Magnesium	6,450	5,130	821-D004	--	--
Manganese	358	5,290	8106-D001	--	--
Mercury	0.2	0.12	819A-D004	0.15	1.3
Nickel	46.7	35.8J	819A-D003	30	50
Potassium	2,840	6,110	8031-D001	--	--
Selenium	ND	346	821-D003	--	--
Silicon	4,840	3,830	819A-D007	--	--
Sodium	542	174	819A-D007	--	--
Thallium	ND	181	821-D003	--	--
Vanadium	35.7	57.8	819A-D004	--	--
Zinc	105	157J	8031-D104	120	270

*NOAA ER-L and ER-M values were taken from Long and Morgan, 1990 (G-855).

-- = Guideline not available.

ND = Not detected.

Table 7

**Summary of Highest Concentrations of Metals
Pauls Brook Sediment Sample Results - Zone 1
Brooks/Ditches, Pease AFB, NH**

Metal (total)	Maximum Detected Background Concentration (mg/kg)	Maximum Detected Concentration (mg/kg)	Sampling Location ID	NOAA ER-L Action Guideline (mg/kg)	NOAA ER-M Action Guideline (mg/kg)
Aluminum	14,300	29,200	8039-D001	--	--
Arsenic	12.2	76.2	8039-D001	33	85
Barium	52.5	317	8039-D001	--	--
Beryllium	0.83	1.2J	813-D004	--	--
Boron	ND	11.5	8040-D004	--	--
Cadmium	ND	10.1	8039-D001	5	9
Calcium	3,330	12,000	8039-D001	--	--
Chromium	53	133	8039-D001	80	145
Cobalt	14.4	39.5	8039-D001	--	--
Copper	23.2	139	8039-D001	70	390
Iron	21,900	76,800	8039-D001	--	--
Lead	42.1	558	8039-D001	35	110
Magnesium	6,450	9,670	8039-D001	--	--
Manganese	358	22,900J	8041-D005	--	--
Nickel	46.7	95.9	8039-D001	30	50
Potassium	2,840	819	8040-D004	--	--
Selenium	ND	1.8	813-D003	--	--
Silicon	9,840	7,500J	813-D007	--	--
Sodium	542	536	8039-D001	--	--
Vanadium	35.7	168	8039-D001	--	--
Zinc	105	868	8039-D001	120	270

-- = Guideline not available.

ND = Not detected.

Table 8

Summary of Highest Detected Concentrations of Organics and Total Metals
 Surface Water Analytical Results for McIntyre Brook - Zone 3
 Brooks/Ditches, Pease AFB, NH

Analyte	Maximum Background Concentration	Regulatory Guidance Value a	Maximum Detected Concentration	Location ID
Organics	(I _g /L)	(I _g /L)	(I _g /L)	
cis-1,2-Dichloroethene	ND	NA	0.2J	8076-W001
Trichloroethene	ND	NA	2.9	812-W001
Metals(total)	(mg/L)	(mg/L)	(mg/L)	
Aluminum	0.90	0.087	0.225	8075-W001
Arsenic	ND	NA	0.0054	812-W001
Calcium	25.80	NA	51.1	8078-W001
Iron	2.89	1.0	0.912	812-W002
Magnesium	9.14	NA	11.2	8078-W001
Manganese	1.97	NA	0.782	812-W002
Mercury	ND	0.000012	0.00029	811-W001
Potassium	ND	NA	5.06	811-W001
Sodium	31.7	NA	12.3	8076-W001
Silicon	5.5	NA	7.09	8076-W001
Zinc	0.043	0.134 b	0.0471	811-W001

a NHDES water quality criteria for toxic substances, freshwater chronic criteria for the protection of aquatic life.

b Adjusted for a hardness of 131.3 mg/L of CaCO₃.

NA = No criteria value available.

ND = Not detected.

Table 9

**Summary of Highest Detected Concentrations of Organics
Sediment Analytical Results for McIntyre Brook - Zone 3
Brooks/Ditches, Pease AFB, NH**

Organic Compound	Maximum Background Concentration (Ig/kg)	EqP Calculated Interstitial Water Concentration (Ig/L)	AWQC (Ig/L)	Maximum Detected Concentration (Ig/kg)	Sampling Location ID
VOCs					
1,2-Dichlorobenzene	ND	22.9	763 a	170J	812-D001
Benzyl alcohol	ND	NA	NA	180J	8058-D001
Chlorobenzene	ND	1.85	50 a	6J	8075-D001
Methylene chloride	ND	NA	NA	10	811-D001
Toluene	24	NA	NA	43	8057-D001
SVOCs					
Bis(2-ethylhexyl)phthalate	750	2.27	3.00 b	990	8059-D002
Dibenzofuran	ND	NA	NA	1,100	8059-D002
Di-n-butyl phthalate	ND	NA	NA	57	8078-D001
PAHs (total)	8,940	NA	NA	78,400	8059-D001
Acenaphthene	ND	92.8	520 a	1,600	8059-D002
Acenaphthylene	180	NA	NA	200J	8056-D001
Anthracene	190	52.4	2.00 c	2,100	8057-D001
Benzo(a)anthracene	610	2.2	1.00 c	8,000	8059-D001
Benzo(a)pyrene	640	0.47	0.5 c	6,800	8059-D001
Benzo(b)fluoranthene	600	NA	NA	8,400	8059-D001
Benzo(g,h,i)perylene	540	NA	NA	3,200	8059-D001
Benzo(k)fluoranthene	600	NA	NA	5,500	8059-D001
Chrysene	820	16.3	100 d	8,600	8059-D001
Dibenzo(a,h)anthracene	70	0.161	100 e	1,400	8059-D001
Fluoranthene	1,500	53.4	3,980 f	15,000	8059-D002
Fluorene	ND	81.4	580 g	1,700	8057-D002
Indeno(1,2,3-c,d)pyrene	500	NA	NA	4,100	8059-D001
Naphthalene	ND	39.7	620 a	270J	8060-D001
Phenanthrene	1,100	125	6.32 g	6,400	8059-D001
Pyrene	1,600	110	0.4 c	11,000	8059-D001
2-Methylnaphthalene	ND	NA	NA	100J	8059-D002
Pesticides/PCBs					
2,4-D	ND	595	3,360	52J	811-D002
DDD(4,4'-)	ND	0.00126	0.06 f	2.2J	8056-D001

a NHDES freshwater chronic criteria.

b Based on NHDES freshwater chronic criteria for phthalate esters.

c Based on 1/10th the LC 90 study for *Daphia magna* or *Daphia pulex* (G-8).

d Based on 1/10th the LC 90 for *Nereis arenaceodentata* (G-8).

e Based on 1/10th the LC 90 (96-hr) for the sandworm, *Neanthes arenacedentata* (G-131).

f NHDES freshwater acute criteria.

g Based on EPA 1991 draft sediment quality criteria.

Table 10

**Summary of Highest Detected Concentrations of Metals
Sediment Analytical Results for McIntyre Brook - Zone 3
Brooks/Ditches, Pease AFB, NH**

Metal	Maximum Background Concentration (mg/kg)	NOAA ER-L (mg/kg)	Maximum Detected Concentration (mg/kg)	Sampling Location ID
Aluminum	14,300	NA	31,100	812-D001
Arsenic	12.2	33	17.2	8059-D002
Barium	52.5	NA	517	8059-D001
Beryllium	0.83	NA	2.5	812-D001
Boron	ND	NA	35.1	859-D001
Cadmium	ND	5	3.3	8059-D002
Calcium	3,330	NA	3,740	812-D001
Chromium	53	80	70.9	812-D001
Cobalt	14.4	NA	22.9	812-D001
Copper	23.2	70	46.6	812-D001
Iron	21,900	NA	51,100	812-D001
Lead	42.1	35	355	8058-D001
Magnesium	6,450	NA	11,500	812-D001
Manganese	358	NA	604	812-D001
Molybdenum	ND	NA	32.7	812-D001
Nickel	46.7	30	52.3	812-D001
Potassium	2,840	NA	8,560	812-D001
Silicon	4,840	NA	322	8075-D001
Sodium	542	NA	325	8056-D001
Thallium	ND	NA	47	812-D001
Vanadium	35.7	NA	95.5	812-D001
Zinc	105	120	193	812-D001

ND = Not detected.

NA = No value available.

Table 11

Summary of Highest Detected Concentrations of Organics and Total Metals
Surface Water Analytical Results for Lower Newfields Ditch - Zone 3
Brooks/Ditches, Pease AFB, NH

Analyte	Maximum Background Concentration	Regulatory Guidance Value a	Maximum Detected Concentration	Sampling Location ID
Organics	(I g/L)	(I g/L)	(I g/L)	
Chlorobenzene	ND	50 c	0.2J	802-W003
1,4-Dichlorobenzene	ND	0.763	0.5J	802-W003
DDT	ND	0.001	0.02J	802-W002
Heptachlor epoxide	ND	0.0038	0.01J	803-W001
Methylene chloride	ND	NA	1,300J	803-W002
Metals	(mg/L)	(mg/L)	(mg/L)	
Aluminum	0.90	0.087	0.325J	803-W002
Cadmium	ND	0.0014 b	0.007	8140-W001
Calcium	25.80	NA	40.4	802-W002
Copper	0.015	0.015 b	0.031	803-W002
Iron	2.89	1.00	1.48	803-W001
Magnesium	9.14	NA	8.95	8140-W001
Manganese	1.97	NA	0.374	803-W001
Nickel	ND	0.193 b	0.058J	803-W001
Selenium	ND	0.005	0.006J	802-W001
Silicon	5.5	NA	7.29	803-W001
Sodium	31.7	NA	44.2	803-W001
Zinc	0.043	0.13 b	0.164J	803-W001

a NHDES water quality criteria for toxic substances, freshwater chronic criteria for the protection of aquatic life.

b Adjusted for a hardness of 126.7 mg/L of CaCO₃.

c Value is for chlorinated benzenes.

NA = No criteria value available.

ND = Not detected.

Table 12

**Summary of Highest Detected Concentrations of Organics
Sediment Analytical Results for Lower Newfields Ditch - Zone 3
Brooks/Ditches, Pease AFB, NH**

Analyte	Maximum Background Concentration (Ig/kg)	EqP Calculated		Maximum Detected Concentration (Ig/kg)	Location ID
		Interstitial Water Concentration (Ig/L)	AWQC (Ig/L)		
Benzoic acid	720	146	146,000 f	360J	8140-D001
Bis(2-ethylhexyl) phthalate	750	0.592	3.00 d	590	8140-D001
Pentachlorophenol	ND	0.796	11.6 h	360J	802-D001
PAHs (total)	8,940	NA	NA	2,050	802-D001
Benzo(a)anthracene	610	0.00298	1.00 c	41J	8140-D001
Benzo(a)pyrene	640	0.0041	0.5 c	160J	803-D101
Benzo(b)fluoranthene	600	NA	NA	410J	803-D101
Benzo(g,h,i)perylene	540	NA	NA	250J	802-D001
Benzo(k)fluoranthene	600	NA	NA	200J	802-D001
Chrysene	820	0.0301	100 c	60J	8140-D001
Fluoranthene	1,500	0.549	3,980 b	590	802-D001
Indeno(1,2,3-c,d)pyrene	500	NA	NA	190J	802-D001
Phenanthrene	1,100	0.795	6.32 g	110J	803-D001
Pyrene	1,600	0.704	0.4 c	190J	803-D003
Pesticides/PCBs					
Alpha-chlordane	ND	0.0343	0.0043 a	41J	802-D003
Gamma-chlordane	ND	0.0167	0.0043 a	20J	802-D003
DDT	ND	0.111	0.001 a	230	802-D003
DDD	ND	0.0639	0.06 b	420	802-D001

a NHDES freshwater chronic criteria.

b NHDES freshwater acute criteria.

c Based on 1/10th the LC 50 study for Daphia magna or Daphia pulex (G-8).

d Based on NHDES freshwater chronic criteria for phthalate esters.

e Based on 1/10th of the LC 50 for Nereis arenaceodentata (G-8).

f Based on locomotor behavior effects study for Daphnia magna (G-8).

g Based on EPA 1991 draft sediment quality criteria.

h NHDES freshwater chronic criteria, pH = 7.7.

Table 13

Summary of Highest Detected Concentrations of Metals
 Sediment Analytical Results for Lower Newfields Ditch - Zone 3
 Brooks/Ditches, Pease AFB, NH

Metal	Maximum Background Concentration (mg/kg)	NOAA ER-L (mg/kg)	Maximum Detected Concentration (mg/kg)	Sampling Location ID
Aluminum	14,300	NA	11,100J	802-D003
Arsenic	12.2	33	14.5J	802-D003
Barium	52.5	NA	130J	8140-D001
Beryllium	0.83	NA	1.4	802-D001
Calcium	3,330	NA	2,070	802-D001
Chromium	53	80	36.3J	802-S001
Cobalt	14.4	NA	10.4	802-D001
copper	23.2	70	34.4J	802-D001
Iron	21,900	NA	18,000	802-D001
Lead	42.1	35	150J	802-D001
Magnesium	6,450	NA	3,540	802-D001
Manganese	358	NA	580	802-D001
Nickel	46.7	30	37.7J	802-D001
Potassium	2,840	NA	1,880	802-D003
Silicon	4,840	NA	336	8140-D001
Sodium	542	NA	211	802-D001
Thallium	ND	NA	33.6	802-D001
Vanadium	35.7	NA	67.1	802-D001
Zinc	105	120	203J	802-D001

ND = Not detected.

NA = No value available.

Table 14

Summary of Chemicals of Concern by Mediuma - Zone 1
Brooks/Ditches, Pease AFB, NH

Chemical Organics	Surface Water		Sediment	
	Flagstone Brook	Pauls Brook	Flagstone Brook	Pauls Brook
Acetone			x	
Benzene		xb		
Benzoic acid			xc	xb
gamma-BHC (lindane)	x			
Bis(2-ethylhexyl) phthalate	xb	xb	xc	xb
2-Butanone			xc	
sec-Butylbenzene		xb		
Butyl benzyl phthalate				xb
Carbon disulfide			xb	xb
alpha-Chlordane				x
gamma-Chlordane				x
Chlordane (total)		x		
Chlorobenzene	x	x		
4,4'-DDD	x	x	x	x
4,4'-DDE	x		x	x
4,4'-DDT	x		x	x
Dibenzofuran			xb	xb
1,4-Dichlorobenzene	x			
Dieldrin				xb
Di-n-butyl phthalate			xb	x
Ethylbenzene		xb		
Heptachlor epoxide				x
Isopropylbenzene		xb		
4-Isopropyltoluene	xb	xb		
2-Methylnaphthalene			xb	xb
Naphthalene		x	x	xb
PAHs				
Acenaphthene			x	xb
Acenaphthylene			x	
Anthracene			xb	xb
Benzo(a)anthracene			x	x
Benzo(a)pyrene			xc	x
Benzo(b)fluoranthene			x	x
Benzo(g,h,i)perylene			xc	xb
Benzo(k)fluoranthene			xc	x
Chrysene			xc	x
Dibenzo(a,h)anthracene			x	xb
Fluoranthene			x	x

Table 14

Summary of Chemicals of Concern by Medium a - Zone 1
Brooks/Ditches, Pease AFB, NH

Chemical	Surface Water		Sediment	
	Flagstone Brook	Pauls Brook	Flagstone Brook	Pauls Brook
Organics (continued)				
Fluorene			x	xb
Indeno(1,2,3-cd)pyrene			xc	x
Phenanthrene			x	xb
Phenol		xb		
Pyrene			xc	x
n-Propylbenzene		xb		
Tetrachloroethene	x			
Toluene	xb	xb		
1,2,4-Trimethylbenzene		x		
1,3,5-Trimethylbenzene		x		
m,p-Xylenes (total)		x		
Inorganics				
Aluminum	x			x
Arsenic	xb	xb	x	x
Barium	x		x	x
Beryllium			xb	xb
Boron	x	x	x	xb
Cadmium	xb			x
Calcium	x	x	xb	xb
Chromium			x	x
Cobalt			xb	x
Copper	x			xb
Iron	x	x	x	x
Lead		xb	xb	x
Magnesium	x	x		xb
Manganese		x	x	x
Mercury				x
Nickel	xb	x		x
Potassium			xb	
Selenium			x	x
Silicon	x	x		
Thallium			x	
Vanadium			x	x
Zinc	x	x	xb	x

a An "x" indicates that the chemical was selected as a chemical of concern for both the human health and ecological risk assessments, unless otherwise indicated.

b Selected as a chemical of concern for the ecological risk assessment only.

c Chemical was not detected above background.

Table 15

Summary of Chemicals of Concern by Medium a - Zone 3
Brooks/Ditches, Pease AFB, NH

Chemical	Surface Water		Sediment	
	McIntyre Brook	Newfields Ditch (Lower)	McIntyre Brook	Newfields Ditch (Lower)
Organics				
Benzoic acid				x b
Benzyl alcohol			x c	
Bis(2-ethylhexyl) phthalate			x b	x b
alpha-Chlordane				x
gamma-Chlordane				x
Chlorobenzene		x	x c	
2,4-D			x	
4,4'-DDD			x	x
4,4'-DDT		x		x
Dibenzofuran	x c		x	
1,2-Dichlorobenzene			x c	
1,4-Dichlorobenzene		x		
cis-1,2-Dichloroethene	x			
Di-n-butyl phthalate			x c	
Heptachlor epoxide		x		
Methylene chloride		x	x c	
PAHs				
Acenaphthene			x	
Acenaphthylene			x c	
Anthracene			x	
Benzo(a)anthracene			x	x b
Benzo(a)pyrene			x	x b
Benzo(b)fluoranthene			x	x b
Benzo(g,h,i)perylene			x	x b
Benzo(k)fluoranthene			x	x b
Chrysene			x	x b
Dibenzo(a,h)anthracene			x	
Fluoranthene			x	x b
Fluorene			x	
Indeno(1,2,3-cd)pyrene			x	x b
Naphthalene			x c	
2-Methylnaphthalene			x c	

Table 15

Summary of Chemicals of Concern by Medium a - Zone 3
 Brooks/Ditches, Pease AFB, NH
 (Continued)

Chemical	Surface Water		Sediment	
	McIntyre Brook	Newfields Ditch (Lower)	McIntyre Brook	Newfields Ditch (Lower)
Phenanthrene			x	x b
Pyrene			x	x b
Pentachlorophenol				x
Toluene			x c	
Trichloroethene	x			
Inorganics				
Aluminum			x	x c
Arsenic	x c		x c	x
Barium			x	x
Beryllium			x	x
Boron			x c	
Cadmium		x c	x c	
Calcium	x	x	x c	
Chromium			x	
Cobalt			x	
Copper		x	x c	x c
Iron			x	
Lead			x	x
Magnesium	x		x c	
Manganese			x	x
Mercury	x			
Nickel		x	x c	
Potassium	x		x c	
Selenium		x		
Silicon	x	x		
Sodium		x		
Thallium			x	x
Vanadium			x	x
Zinc	x	x	x c	x c

a An "x" indicates that the chemical was selected as a chemical of concern for both the human health and ecological risk assessments, unless otherwise indicated.

b Chemical was not detected above background.

c Selected as a chemical of concern for the ecological risk assessment only.

Table 16

**Summary of Total Lifetime Cancer Risks and Hazard Indices
Brooks/Ditches, Pease AFB, NH**

Medium	RME	Total Lifetime Cancer Risk a,b			Total Hazard Index a,c		
		Mean	Upper 95% Confidence Limit	Maximum	Mean	Upper 95% Confidence Limit	Maximum
Surface Water d							
Flagstone Brook	Current maintenance worker	2E-09 (ALL)	3E-09 (ALL)	3E-09 (ALL)	3E-05 (ALL)	4E-05 (ALL)	5E-05 (ALL)
		2E-09 (BG)	3E-09 (BG)	3E-09 (BG)	3E-05 (BG)	4E-05 (BG)	5E-05 (BG)
	Future resident/ recreational user	3E-08 (ALL)	3E-08 (ALL)	4E-08 (ALL)	3E-04 (ALL)	4E-04 (ALL)	5E-04 (ALL)
		3E-08 (BG)	3E-08 (BG)	4E-08 (BG)	3E-04 (BG)	4E-04 (BG)	5E-04 (BG)
Pauls Brook	Current maintenance worker	2E-08 (ALL)	5E-08 (ALL)	5E-08 (ALL)	6E-04 (ALL)	1E-03 (ALL)	1E-03 (ALL)
		2E-08 (BG)	5E-08 (EG)	5E-08 (BG)	6E-04 (BG)	1E-03 (BG)	1E-03 (BG)
	Future resident/ recreational user	3E-07 (ALL)	6E-07 (ALL)	6E-07 (ALL)	6E-03 (ALL)	1E-02 (ALL)	1E-02 (ALL)
		3E-07 (BG)	6E-07 (BG)	6E-07 (BG)	6E-03 (BG)	1E-02 (BG)	1E-02 (BG)
McIntyre Brook (On Base)	Current and Future Maintenance Worker	2E-10	3E-10	3E-10	8E-06	1E-05	2E-05
McIntyre Brook (Off Base)	Current and Future Resident/Recreational User	NA	NA	NA	1E-06	2E-06	2E-06
Newfields Ditch (Lower)	Current Maintenance Worker	4E-09	7E-09	7E-09	6E-05	9E-05	9E-05
		1E-07	2E-07	2E-07	1E-03	2E-03	2E-03
	Future Resident/ Recreational User						
Sediment d							
Flagstone Brook	Current maintenance worker	6E-08 (ALL)	2E-07 (ALL)	2E-07 (ALL)	2E-04 (ALL)	7E-04 to 8E-04 (ALL) d	9E-04 (ALL)
		3E-08 (BG)	1E-07 (BG)	1E-07 (BG)	2E-04 (BG)	7E-04 (BG)	9E-04 (BG)
	Future resident/ recreational user	2E-07 (ALL)	7E-07 (ALL)	8E-07 (ALL)	6E-04 (ALL)	2E-03 (ALL)	3E-03 (ALL)
		1E-07 (BG)	4E-07 (BG)	5E-07 (BG)	6E-04 (BG)	2E-03 (BG)	3E-03 (BG)

Table 16

**Summary of Total Lifetime Cancer Risks and Hazard Indices
Brooks/Ditches, Pease AFB, NH
(Continued)**

Medium	RME	Total Lifetime Cancer Risk a,b			Total Hazard Index a,c		
		Mean	Upper 95% Confidence Limit	Maximum	Mean	Upper 95% Confidence Limit	Maximum
Pauls Brook	Current maintenance worker	4E-07 (ALL) 2E-07 (BG)	7E-07 (ALL) 3E-07 (BG)	9E-07 (ALL) 4E-07 (BG)	3E-03 (ALL) 3E-03 (BG)	7E-03 (ALL) 7E-03 (BG)	9E-03 (ALL) 9E-03 (BG)
	Future resident/ recreational user	1E-06 (ALL) 4E-07 (BG)	2E-06 (ALL) 9E-07 (BG)	2E-06 (ALL) 1E-06 (BG)	8E-03 (ALL) 8E-03 (BG)	2E-02 (ALL) 2E-02 (BG)	2E-02 (ALL) 2E-02 (BG)
McIntyre Brook (On Base) d	Current and Future Maintenance Worker	6E-07 (ALL) 2E-07 (BG)	2E-06 (ALL) 8E-07 (BG)	2E-06 (ALL) 8E-07 (BG)	1E-03 (ALL) 1E-03 (BG)	2E-03 (ALL) 2E-03 (BG)	2E-03 (ALL) 2E-03 (BG)
McIntyre Brook (Off Base) d	Current and Future Resident/Recreational User	2E-06 (ALL) 7E-07 (BG)	1E-05 (ALL) 4E-06 (BG)	1E-05 (ALL) 4E-06 (BG)	1E-03 (ALL) 1E-03 (BG)	4E-03 (ALL) 4E-03 (BG)	4E-03 (ALL) 4E-03 (BG)
Newfields Ditch (Lower) d	Current Maintenance Worker	5E-08 (ALL) 2E-08 (BG)	7E-08 (ALL) 3E-08 (BG)	7E-08 (ALL) 3E-08 (BG)	3E-04 (ALL) 3E-04 (BG)	5E-04 (ALL) 5E-04 (BG)	5E-04 (ALL) 5E-04 (BG)
	Future Resident/ Recreational Worker	4E-07 (ALL) 1E-07 (BG)	5E-07 (ALL) 2E-07 (BG)	5E-07 (ALL) 2E-07 (BG)	2E-03 (ALL) 2E-03 (BG)	3E-03 (ALL) 3E-03 (BG)	3E-03 (ALL) 3E-03 (BG)

a Values are rounded to one significant figure.

b Maximum cancer risk at hazardous waste sites is regulated in the range of 1E-06 to 1E-04 (10⁻⁶ to 10⁻⁴). Risks of less than 1E-06 (10⁻⁶) are generally not of concern.

c A hazard index or greater than 1 (1E+00) is usually considered the benchmark of potential concern.

d ALL = Includes all evaluated COCs.

BG = Includes only the evaluated COCs that were detected above background.

NA = Not applicable, there were no carcinogenic COCs.

Table 17

**Hazard Quotients Based on Surface Water Concentrations in
Flagstone Brook and Ambient Water Quality Criteria - Zone 1
Brooks/Ditches, Pease AFB, NH**

Chemical	Surface Water Concentration in Flagstone Brook ($\mu\text{g/L}$)		New Hampshire Water Quality Criteria ($\mu\text{g/L}$)		Hazard Quotients Based on Acute Criteria		Hazard Quotients Based on Chronic Criteria		
	Average	Maximum	Acute	Chronic	Average	Maximum	Average	Maximum	
Organics									
gamma-BHC	1.78E-02	2.00E-02	2.00E+00 a	1.00E-02 a	8.90E-03	1.00E-02	2.23E-01	2.50E-01	
Bis(2-ethylhexyl) phthalate	1.50E+00	2.00E+00	NCA	2.50E+00	NCA	NCA	6.00E-01	8.00E-01	
Chlorobenzene	4.00E-01	7.00E-01	2.50E+02	5.00E+01	1.60E-03	2.80E-03	8.00E-03	1.40E-02	
4,4'-DDD	5.80E-03	1.00E-02	6.00E-02	NCA	9.67E-02	1.67E-01	NCA	NCA	
4,4'-DDE	1.81E-02	2.00E-02	1.05E+03	NCA	1.72E-05	1.90E-05	NCA	NCA	
4,4'-DDT	5.03E-02	1.40E-01	1.10E+00	1.00E-03	4.57E-02	1.27E-01	5.03E+01	1.40E+02	
1,4-Dichlorobenzene	2.00E-01	5.00E-01	1.12E+03 b	7.63E+02 b	4.46E-04	4.46E-04	2.62E-04	6.55E-04	
Tetrachloroethene	3.81E-01	1.10E+00	5.28E+03	8.40E+02	7.22E-05	2.08E-04	4.54E-04	1.31E-03	
Inorganics									
Aluminum	3.02E+02	1.05E+03	7.50E+02	8.70E+01	4.03E-01	1.40E+00	3.47E+00	1.21E+01	
Barium	3.46E+01	1.04E+02	5.00E+04 c	NCA	6.92E-04	2.08E-03	NCA	NCA	
Boron	7.01E+01	2.10E+02	NCA	6.40E+03 d	NCA	NCA	1.10E-02	3.28E-02	
Cadmium	5.20E+00	5.20E+00	2.46E+00 a	1.50E+00 a	2.11E+00	2.11E+00	3.47E+00	3.47E+00	
Calcium	3.51E+04	5.14E+04	NCA	NCA	NCA	NCA	NCA	NCA	
Copper	9.90E+00	3.40E+01	2.48E+01 c	1.61E+01 c	3.99E-01	1.37E+00	6.15E-01	2.11E+00	
Iron	2.02E+03	8.52E+03	NCA	1.00E+03	NCA	NCA	2.02E+00	8.52E+00	
Magnesium	7.41E+03	1.08E+04	NCA	NCA	NCA	NCA	NCA	NCA	
Nickel	2.89E+01	2.89E+01	1.92E+03 c	2.13E+03 c	1.511E-02	1.51E-02	1.36E-02	1.36E-02	
Silicon	4.97E+03	9.46E+03	NCA	NCA	NCA	NCA	NCA	NCA	
Zinc	3.74E+01	1.46E+02	1.58E+02 e	1.44E+02 e	2.37E-01	9.24E-01	2.60E-01	1.01E+00	

a Value is for hexachlorocyclohexane (lindane).

b Value is for dichlorobenzene.

c Soluble barium concentration in freshwater and salt water generally would have to exceed 50 mg/L before toxicity to aquatic life could be expected (G-149).

d Toxicity value obtained from the literature based on a 21 -day NOEC for Daphnia magna (G-135).

e Value is based on an average measured hardness of 143.0 mg/L of CaCO₃ for Flagstone Brook.

NCA = No criteria available.

Table 18

**Hazard Quotients Based on Surface Water Concentrations in
Flagstone Brook and Ambient Water Quality Criteria - Zone 1
Brooks/Ditches, Pease AFB, NH**

	Surface Water Concentration in Pauls Brook (I g/L)		New Hampshire Water Quality Criteria (I g/L)		Hazard Quotients Based on Acute Criteria		Hazard Quotients Based on Chronic Criteria	
	Average	Maximum	Acute	Chronic	Average	Maximum	Average	Maximum
Chemical Organics								
Benzene	4.33E+00	9.00E+00	5.30E+03	NCA	8.17E-04	1.70E-03	NCA	NCA
Bis(2-ethylhexyl)phthalate	2.00E+00	2.00E+00	NCA	2.50E+00	NCA	NCA	8.00E-01	8.00E-01
Chlordane	5.90E-01	1.30E+00	2.40E+00	4.30E-03	2.46E-01	5.42E-01	1.37E+02	3.02E+02
Chlorobenzene	1.00E-01	1.00E-01	2.50E+02 a	5.00E+01 a	4.00E-04	2.00E-03	2.00E-03	2.00E-03
4,4'-DDD	8.20E-01	2.20E+00	6.00E-02	NCA	1.37E+01	3.67E+01	NCA	NCA
Ethylbenzene	3.13E-01	5.00E-01	3.20E+04	NCA	9.78E-06	1.56E-05	NCA	NCA
Naphthalene	1.00E-01	1.00E-01	2.30E+03	6.20E+02	4.35E-05	4.35E-05	1.61E-04	1.61E-04
Phenol	2.00E+00	2.00E+00	1.02E+04	2.56E+03	1.96E-04	1.96E-04	7.81E-04	7.81E-04
1,2,4-Trimethylbenzene	4.00E-01	4.00E-01	NCA	NCA	NCA	NCA	NCA	NCA
1,3,5-Trimethylbenzene	2.00E-01	2.00E-01	NCA	NCA	NCA	NCA	NCA	NCA
m,p-Xylene	1.00E-01	1.00E-01	1.50E+05 b	NCA	6.67E-07	6.67E-07	NCA	NCA
Inorganics								
Boron	1.87E+02	2.27E+02	NCA	6.40E+03 c	NCA	NCA	2.92E-02	3.55E-02
Calcium	4.58E+04	4.95E+04	NCA	NCA	NCA	NCA	NCA	NCA
Iron	1.75E+03	3.24E+03	NCA	1.00E+03	NCA	NCA	1.75E+00	3.24E+00
Magnesium	1.37E+04	1.65E+04	NCA	NCA	NCA	NCA	NCA	NCA
Manganese	1.19E+03	2.34E+03	NCA	NCA	NCA	NCA	NCA	NCA
Nickel	9.30E+00	2.20E+01	2.34E+03 d	2.60E+02 d	3.98E-03	9.41E-03	3.58E-02	8.46E-02
Silicon	5.77E+03	8.10E+03	NCA	NCA	NCA	NCA	NCA	NCA
Zinc	3.27E+01	1.76E+02	1.93E+02 d	1.75E+02 d	1.69E-01	9.12E-01	1.87E-01	1.01E+00

a Value is for chlorinated benzenes.

b Toxicity value based on a 24-hour LC 50 value for Daphnia magna (G-8).

c Toxicity value obtained from the literature based on a 21 -day NOEC for Daphnia magna (G-135).

d Value based on a calculated average hardness of 180.7 mg/L of CaCO₃ for Pauls Brook.

NCA = No criteria available.

Table 19

**Hazard Quotients Based on Surface Water Concentrations in
McIntyre Brook (On and Off Base) and Ambient Water Quality Criteria - Zone 3
Brooks/Ditches, Pease AFB, NH**

Chemical	Surface Water Concentration in McIntyre Brook (Ig/L)		New Hampshire Water Quality Criteria (Ig/L)		Hazard Quotients Based on Acute Criteria		Hazard Quotients Based on Chronic Criteria	
	Average	Maximum	Acute	Chronic	Average	Maximum	Average	Maximum
Organics								
cis- 1,2-Dichloroethene	2.00E-01	2.00E-01	1.16E+04 a	NCA	1.72E-05	1.72E-05	NCA	NCA
Trichloroethene	9.50E-01	2.90E+00	4.50E+04	2.19E+04	2.11E-05	6.44E-05	4.34E-05	1.32E-04
Inorganics								
Arsenic	5.40E+00	5.40E+00	NCA	NCA	NCA	NCA	NCA	NCA
Calcium	3.46E+04	5.11E+04	NCA	NCA	NCA	NCA	NCA	NCA
Magnesium	7.36E+03	1.12E+04	NCA	NCA	NCA	NCA	NCA	NCA
Mercury	7.60E-02	2.90E-01	2.40E+00	1.20E-02	3.17E-02	1.21E-01	6.33E+00	2.42E+01
Potassium	2.62E+03	5.05E+03	NCA	NCA	NCA	NCA	NCA	NCA
Silicon	5.34E+03	7.07E+03	NCA	NCA	NCA	NCA	NCA	NCA
Zinc	1.06E+01	4.71E+01	1.47E+02 b	1.34E+02 b	7.21E-02	3.20E-01	7.91E-02	3.51E-01

a Value is for dichloroethene.

b Value based on an average calculated hardness of 131.2 mg/L of CaCO₃ for McIntyre Brook.

NCA = No criteria available.

Table 20

**Hazard Quotients Based on Surface Water Concentrations in
Lower Newfields Ditch and Ambient Water Quality Criteria - Zone 3
Brooks/Ditches, Pease AFB, NH**

Chemical	Surface Water Concentration in Lower New fields Ditch (Ig/L)		New Hampshire Water Quality Criteria (Ig/L)		Hazard Quotient Based on Acute Criteria		Hazard Quotient Based on Chronic Criteria	
	Average	Maximum	Acute	Chronic	Average	Maximum	Average	Maximum
Organics								
Chlorobenzene	2.00E-01	2.00E-01	2.50E+02 a	5.00E+01 a	8.00E-04	8.00E-04	4.00E-03	4.00E-03
4,4'-DDT	2.00E-02	2.00E-02	1.10E+00	1.00E-03	1.82E-02	1.82E-02	2.00E-01	2.00E+01
1,4-Dichlorobenzene	2.92E-01	5.00E-01	1.12E+03	7.63E+02	2.60E-04	4.46E-04	3.82E-04	6.55E-04
Heptachlor epoxide	1.00E-02	1.00E-02	5.20E-01 b	3.80E-03 b	1.92E-02	1.92E-02	2.63E+00	2.63E+00
Methylene chloride	1.45E+02	1.30E+03	3.10E+05 c	NCA	4.68E-04	4.19E-03	NCA	NCA
Inorganics								
Cadmium	4.33E+00	7.00E+00	5.12E+00 d	1.40E+00 d	8.46E-01	1.37E+00	3.09E+00	5.00E+00
Calcium	3.67E+04	4.04E+04	NCA	NCA	NCA	NCA	NCA	NCA
Copper	1.12E+01	3.10E+01	2.22E+01 d	1.45E+01 d	5.05E-01	1.40E+00	7.72E-01	2.14E+00
Nickel	1.43E+01	5.80E+01	1.73E+03 d	1.93E+02 d	8.25E-03	3.35E-02	7.42E-02	3.01E-01
Selenium	4.30E+00	6.10E+00	2.00E+01	5.00E+00	2.15E-01	3.05E-01	8.60E-01	1.22E+00
Silicon	5.75E+03	7.29E+03	NCA	NCA	NCA	NCA	NCA	NCA
Sodium	3.37E+04	4.42E+04	NCA	NCA	NCA	NCA	NCA	NCA
Zinc	2.93+01	1.64E+02	1.43+02 d	1.30E+02 d	2.05E-01	1.15E+00	2.26E-01	1.27E+00

a NHDES water quality criteria for chlorinated benzenes.

b NHDES water quality criteria for heptachlor.

c Value is the LC 50(24-hr) for the water flea (*Daphnia magna*).

d Value is based on an average calculated hardness of approximately 126.7 mg/L CaCO₃.

NCA = No criteria available.

Table 21

Comparison of Sediment Concentrations to NOAA Biological
Effect Levels for Flagstone Brook - Zone 1
Brooks/Ditches, Pease AFB, NH

Inorganic Analyte	Sediment Concentration in Flagstone Brook (mg/kg)		NOAA Biological Effect Level (mg/kg)		ER-L Hazard Quotient		ER-M Hazard Quotient	
	Average	Maximum	ER-L	ER-M	Average	Maximum	Average	Maximum
Arsenic	2.30E+01	3.24E+02	3.30E+01	8.50E+01	6.97E-01	9.82E+00	2.71E-01	3.81E+00
Barium	6.80E+01	5.83E+02	NCA	NCA	NCA	NCA	NCA	NCA
Beryllium	3.61E-01	8.70E-01	NCA	NCA	NCA	NCA	NCA	NCA
Boron	1.30E+01	3.39E+01	NCA	NCA	NCA	NCA	NCA	NCA
Chromium	2.20E+01	9.20E+01	8.00E+01	1.45E+02	2.75E-01	1.15E+00	1.52E-01	6.34E-01
Cobalt	8.62E+00	1.67E+01	NCA	NCA	NCA	NCA	NCA	NCA
Iron	6.12E+04	6.12E+04	NCA	NCA	NCA	NCA	NCA	NCA
Lead	3.30E+01	9.04E+01	35	110	9.43E-01	2.58E+00	3.00E-01	8.22E-01
Manganese	9.87E+02	5.29E+03	NCA	NCA	NCA	NCA	NCA	NCA
Selenium	4.90E+00	3.46E+02	NCA	NCA	NCA	NCA	NCA	NCA
Thallium	1.30E+01	1.81E+02	NCA	NCA	NCA	NCA	NCA	NCA
Vanadium	2.20E+01	5.80E+01	NCA	NCA	NCA	NCA	NCA	NCA
Zinc	6.85E+01	1.57E+02	120	270	5.71E-01	1.31E+00	2.54E-01	5.81E-01

NCA = No criteria available.

Table 23

Comparison of Sediment Concentrations to NOAA Biological
Effect Levels for Pauls Brook - Zone 1
Brooks/Ditches, Pease AFB, NH

Inorganic Analyte	Sediment Concentration in Pauls Brook (mg/kg)		NOAA Biological Effect Level (mg/kg)		ER-L Hazard Quotient		ER-M Hazard Quotient	
	Average	Maximum	ER-L	ER-M	Average	Maximum	Average	Maximum
Aluminum	1.36E+04	2.92E+04	NCA	NCA	NCA	NCA	NCA	NCA
Arsenic	3.23E+01	7.60E+01	3.30E+01	8.50E+01	9.79E-01	2.30E+00	3.80E-01	8.94E-01
Barium	1.15E+02	3.17E+02	NCA	NCA	NCA	NCA	NCA	NCA
Beryllium	7.98E-01	1.20E+00	NCA	NCA	NCA	NCA	NCA	NCA
Boron	1.15E+01	1.15E+01	NCA	NCA	NCA	NCA	NCA	NCA
Cadmium	3.47E+00	1.00E+01	5.00E+00	9.00E+00	6.94E-01	2.00E+00	3.86E-01	1.11E+00
Calcium	4.50E+03	1.20E+04	NCA	NCA	NCA	NCA	NCA	NCA
Chromium	5.71E+01	1.33E+02	8.00E+01	1.45E+02	7.14E-01	1.66E+00	3.94E-01	9.17E-01
Cobalt	1.61E+01	4.00E+01	NCA	NCA	NCA	NCA	NCA	NCA
Copper	1.95E+01	1.39E+02	70	390	2.79E-01	1.99E+00	5.00E-02	3.56E-01
Iron	3.15E+04	7.68E+04	NCA	NCA	NCA	NCA	NCA	NCA
Lead	1.73E+02	5.58E+02	3.50E+01	1.10E+02	4.94E+00	1.59E+01	1.57E+00	5.07E+00
Magnesium	3.48E+03	9.67E+03	NCA	NCA	NCA	NCA	NCA	NCA
Manganese	8.07E+03	2.10E+04	NCA	NCA	NCA	NCA	NCA	NCA
Nickel	3.79E+01	9.60E+01	3.00E+01	5.00E+01	1.26E+00	3.20E+00	7.58E-01	1.92E+00
Selenium	1.28E+00	1.80E+00	NCA	NCA	NCA	NCA	NCA	NCA
Vanadium	6.10E+01	1.68E+02	NCA	NCA	NCA	NCA	NCA	NCA
Zinc	2.50E+02	8.68E+02	1.20E+02	2.70E+02	2.08E+00	7.23E+00	9.26E-01	3.21E+00

NCA = No criteria available.

Table 25

**Comparison of Sediment Concentrations to NOAA Biological
Effect Levels for McIntyre Brook (On and Off Base) - Zone 3
Brooks/Ditches, Pease AFB, NH**

Metal	Sediment Concentration in McIntyre Brook (mg/kg)		NOAA Biological Effect Level (mg/kg)		ER-M Hazard Quotient		ER-L Hazard Quotient	
	Average	Maximum	ER-L	ER-M	Average	Maximum	Average	Maximum
Aluminum	9,652	31,100	NCA	NCA	NCA	NCA	NCA	NCA
Arsenic	9.4	17.2	33	85	1.11E-01	2.02E-01	2.85E-01	5.21E-01
Barium	146	517	NCA	NCA	NCA	NCA	NCA	NCA
Beryllium	0.69	2.5	NCA	NCA	NCA	NCA	NCA	NCA
Boron	14	35.1	NCA	NCA	NCA	NCA	NCA	NCA
Cadmium	2.2	3.3	5	9	2.44E-01	3.67E-01	4.40E-01	6.60E-01
Calcium	1,754	3,740	NCA	NCA	NCA	NCA	NCA	NCA
Chromium	29	71	80	145	2.00E-01	4.90E-01	3.63E-01	8.88E-01
Cobalt	9.0	23	NCA	NCA	NCA	NCA	NCA	NCA
Copper	18	46.6	70	390	4.62E-02	1.19E-01	2.57E-01	6.66E-01
Iron	17,992	51,100	NCA	NCA	NCA	NCA	NCA	NCA
Lead	116	355	35	110	1.05E+00	3.23E+00	3.31E+00	1.01E+01
Magnesium	4,142	11,500	NCA	NCA	NCA	NCA	NCA	NCA
Manganese	384	604	NCA	NCA	NCA	NCA	NCA	NCA
Nickel	23	52.3	30	50	4.60E-01	1.05E+00	7.67E-01	1.74E+00
Thallium	13	47	NCA	NCA	NCA	NCA	NCA	NCA
Vanadium	28	96	NCA	NCA	NCA	NCA	NCA	NCA
Zinc	93	193	120	270	3.44E-01	7.15E-01	7.75E-01	1.61E+00

NCA = No criteria available.

Table 26

**Comparison of Interstitial Water Concentrations (On and Off Base)
McIntyre Brook Sediment and Toxicity Values - Zone 3
Brooks/Ditches, Pease AFB, NH**

Location	Chemical	Interstitial Water Concentration (Ig/L)	Toxicity Value (Ig/L)	Hazard Quotient
Station 8078	PAHs			
	Benzo(a)anthracene	7.08E-03	1.00E+00	7.08E-03
	Chrysene	5.81E-02	1.00E+02	5.81E-04
	Fluoranthene	1.16E-01	8.12E+00	1.43E-02
Station 8077	Pyrene	6.12E-01	4.00E-01	1.53E+00
	PAHs			
	Anthracene	1.07E+00	2.00E+00	5.36E-01
	Benzo(a)anthracene	4.43E-02	1.00E-02	4.43E-02
Station 8076	Benzo(a)pyrene	9.25E-03	5.00E-01	1.85E-02
	Chrysene	3.05E-01	1.00E+02	3.05E-03
	Fluoranthene	8.08E-01	8.12E+00	9.96E-02
	Phenanthrene	9.14E-01	6.32E+00	1.45E-01
	Pyrene	2.34E+00	4.00E-01	5.86E+00
	PAHs			
	Benzo(a)anthracene	7.63E-03	1.00E+00	7.63E-03
Station 8075	Benzo(a)pyrene	2.45E-03	5.00E-01	4.89E-03
	Chrysene	7.94E-02	1.00E+02	7.94E-04
	Fluoranthene	1.80E-01	8.12E+00	2.22E-02
	Phenanthrene	3.74E-01	6.32E+00	5.92E-02
	Pyrene	5.97E-01	4.00E-01	1.49E+00
	PAHs			
Station 8060	Benzo(a)anthracene	2.35E-02	1.00E+00	2.35E-02
	Benzo(a)pyrene	7.57E-03	5.00E-01	1.51E-02
	Chrysene	2.28E-01	1.00E+02	2.28E-03
	Fluoranthene	3.63E-01	8.12E+00	4.47E-02
	Phenanthrene	6.77E-01	6.32E+00	1.07E-01
	Pyrene	1.52E+00	4.00E-01	3.81E+00
Station 8060	PAHs			
	Acenaphthene	1.39E+01	2.30E+01	6.03E-01
	Benzo(a)anthracene	3.28E-01	1.00E+00	3.28E-01
	Benzo(a)pyrene	6.73E-02	5.00E-01	1.35E-01
	Chrysene	2.40E+00	1.00E+02	2.40E-02
	Fluoranthene	6.32E+00	8.12E+00	7.78E-01
	Fluorene	9.96E+00	5.80E+02	7.12E-02
	Phenanthrene	2.39E+01	6.32E+00	3.78E+00
Pyrene	1.84E+01	4.00E-01	4.60E+01	

Table 26

**Comparison of Interstitial Water Concentrations (On and Off Base)
McIntyre Brook Sediment and Toxicity Values - Zone 3
Brooks/Ditches, Pease AFB, NH
(Continued)**

Location	Chemical	Interstitial Water Concentration (Ig/L)	Toxicity Value (Ig/L)	Hazard Quotient
Station 8059	PAHs			
	Anthracene	5.43E+01	2.00E+00	2.72E+01
	Benzo(a)anthracene	2.20E+00	1.00E+00	2.20E+00
	Benzo(a)pyrene	4.70E-01	5.00E-01	9.40E-01
	Chrysene	1.63E+01	1.00E+02	1.63E-01
	Dibenzo(a,h)anthracene	1.61E-01	1.00E+02	1.61E-03
	Fluoranthene	5.34E+01	8.12E+00	6.58E+00
	Phenanthrene	1.25E+02	6.32E+00	1.97E+01
Station 8058	Pyrene	1.10E+02	4.00E-01	2.75E+02
	PAHs			
Station 8057	Fluoranthene	6.28E-01	8.12E+00	7.73E-02
	PAHs			
	Acenaphthene	5.34E+01	2.30E+01	2.32E+00
	Anthracene	5.24E+01	2.00E+00	2.62E+01
	Benzo(a)anthracene	1.77E+00	1.00E+00	1.77E+00
	Benzo(a)pyrene	3.05E-01	5.00E-01	6.10E-01
	Chrysene	1.12E+01	1.00E+02	1.12E-01
	Dibenzo(a,h)anthracene	1.06E-01	1.00E+02	1.06E-03
	Fluoranthene	3.33E+01	8.12E+00	4.10E+00
	Fluorene	8.14E+01	5.80E+02	1.40E-01
	Phenanthrene	7.71E+01	6.32E+00	1.22E+01
Station 8056	Pyrene	8.74E+01	4.00E-01	2.19E+02
	4,4'-DDD	1.26E-03	6.00E-02	2.09E-02
	PAHs			
	Anthracene	1.92E+01	2.00E+00	9.58E+00
	Benzo(a)anthracene	4.14E-01	1.00E+00	4.14E-01
	Benzo(a)pyrene	9.59E-02	5.00E-01	1.92E-01
	Chrysene	2.86E+00	1.00E+02	2.86E-02
	Dibenzo(a,h)anthracene	2.40E-02	1.00E+02	2.40E-04
	Fluoranthene	9.77E+00	8.12E+00	1.20E+00
	Fluorene	1.75E+01	5.80E+02	3.01E-02
Station 812	Phenanthrene	4.73E+01	6.32E+00	7.49E+00
	Pyrene	2.54E+01	4.00E-01	6.36E+01
	PAHs			
	Benzo(a)anthracene	1.46E-02	1.00E+00	1.46E-02
	Chrysene	1.37E-01	1.00E+02	1.37E-03
Station 811	Fluoranthene	3.45E-01	8.12E+00	4.25E-02
	Pyrene	9.63E-01	4.00E-01	2.41E+00
	Bis(2-ethylhexyl)phthalate	2.13E+00	3.00E+00	7.09E-01
	2,4-Dichlorophenoxyacetic acid	5.95E+02	3.36E+04	1.64E-02
Station 811	PAHs			
	Anthracene	1.09E+01	2.00E+00	5.47E+00
	Benzo(a)anthracene	1.09E-01	1.00E+00	1.09E-01
	Benzo(a)pyrene	1.50E-02	5.00E-01	2.99E-02
	Chrysene	8.69E-01	1.00E+02	8.69E-03
Phenanthrene	7.97E+00	6.32E+00	1.26E+00	

Table 27

Comparison of Sediment Concentrations to NOAA Biological
Effect Levels for Lower Newfields Ditch - Zone 3
Brooks/Ditches, Pease AFB, NH

Metal	Sediment Concentration in Lower Newfields Ditch (mg/kg)		NOAA Biological Effect Level (mg/kg)		ER-L Hazard Quotient		ER-M Hazard Quotient	
	Average	Maximum	ER-L	ER-M	Average	Maximum	Average	Maximum
Arsenic	6.70E+00	1.45E+01	3.30E+01	8.50E+01	2.03E-01	4.39E-01	7.88E-02	1.71E-01
Barium	6.70E+01	1.30E+02	NCA	NCA	NCA	NCA	NCA	NCA
Beryllium	4.00E-01	1.40E+00	NCA	NCA	NCA	NCA	NCA	NCA
Copper	1.71E+01	3.44E+01	70	390	2.44E-01	4.91E-01	4.38E-02	8.83E-02
Lead	6.50E+01	1.50E+02	3.50E+01	1.10E+02	1.86E+00	4.29E+00	5.91E-01	1.36E+00
Manganese	2.72E+02	5.80E+02	NCA	NCA	NCA	NCA	NCA	NCA
Thallium	1.10E+01	3.36E+01	NCA	NCA	NCA	NCA	NCA	NCA
Vanadium	2.40E+01	6.71E+01	NCA	NCA	NCA	NCA	NCA	NCA
Zinc	9.24E+01	2.30E+02	120	270	7.70E-01	1.69E+00	3.42E-01	7.52E-01

NCA = No criteria available.

Table 28

**Comparison of Interstitial Water Concentrations
Lower Newfields Ditch Sediment and Toxicity Values - Zone 3
Brooks/Ditches, Pease AFM, NH**

Location	Chemical	Interstitial Water Concentration (Ig/L)	Toxicity Value (Ig/L)	Hazard Quotient
Station 8140	Benzoic acid *	1.46E+02	1.46E+05	9.98E-04
	Bis(2-ethylhexyl)phthalate*	5.92E-01	3.00E+00	1.97E-01
	PAHs			
	Benzo(a)anthracene	2.98E-03	1.00E+00	2.98E-03
	Benzo(a)pyrene	8.94E-04	5.00E-01	1.79E-03
	Chrysene	3.01E-02	1.00E+02	3.01E-04
	Fluoranthene	8.76E-02	8.12E+00	1.08E-02
	Phenanthrene	3.76E-01	6.32E+00	5.94E-02
	Pyrene	2.64E-01	4.00E-01	6.60E-01
	Station 803	Bis(2-ethylhexyl)phthalate*	4.37E-01	3.00E+00
4,4'-DDD		4.76E-03	6.00E-02	7.93E-02
4,4'-DDT		2.32E-03	1.00E-03	2.32E+00
PAHs				
Benzo(a)pyrene		4.10E-03	5.00E-01	8.19E-03
Fluoranthene		3.69E-01	8.12E+00	4.54E-02
Phenanthrene		7.95E-01	6.32E+00	1.26E-01
Pyrene*	7.04E-01	4.00E-01	1.76E+00	
Station 802	Bis(2-ethylhexyl)phthalate*	4.80E-01	3.00E+00	1.60E-01
	Alpha-chlordane	3.43E-02	4.30E-03	7.98E+00
	Gamma-chlordane	1.67E-02	4.30E-03	3.89E+00
	4,4'-DDD	6.39E-02	6.00E-02	1.07E+00
	4,4'-DDT	1.11E-01	1.00E-03	1.11E+02
	PAHs			
	Benzo(a)pyrene	3.41E-03	5.00E-01	6.82E-03
	Fluoranthene	5.49E-01	8.12E+00	6.76E-02
Pentachlorophenol	7.96E-01	1.16E+01	6.88E-02	

* Chemical was included although it was not detected above background concentrations.

Table 29

**Alternatives Retained for Detailed Analysis
Brooks/Ditches, Pease AFB, NH**

Detailed Analysis Alternative	Description
Pauls Brook and McIntyre Brook	
1	No action - Always considered, as required by CERCLA).
2	Limited action - Surface water and sediment monitoring in Pauls and McIntyre Brooks. Reliance on source control activities and natural attenuation to restore sediment and surface water quality.
3	Excavation of selected sediment from Pauls and McIntyre Brooks, off-site treatment/disposal, and surface water and sediment quality monitoring.

Note: Initial screening and detailed analysis of alternatives are contained in the Zone 1 FS Report for Pauls Brook and the McIntyre Brook/Lower Newfields Ditch RI/FS Report for McIntyre Brook. The comparative analysis of alternatives is contained in the Brooks/Ditches RI/FS Consolidated Report.

Table 30

Summary of Detailed Alternatives Evaluation a
Brooks/Ditches, Pease AFB, NH

Remedial Alternative	Protection of Human Health and Environment Ranking	Compliance with ARARs Ranking	Long-Term Effectiveness Ranking	Reduction in TMV of Contaminants Through Treatment Ranking	Short-Term Effectiveness Ranking	Implementability Ranking	Cost Analysis b (in \$1,000)
1. No Action.	BC	C	BC	C	B	AB	26.2
2. Limited action (surface water and sediment monitoring).	B	C	B	C	AB	AB	661
3. Excavation of selected Pauls Brook and McIntyre Brook sediment and off-site disposal.	AB	AB	B	C	AB	B	1,182

a The letter ranking system is described in Subsection 4.4.3 of the Brooks/Ditches Remedial Investigation/Feasibility study Report.

b Estimated costs represent the 30-year present-worth cost. Detailed cost estimates are presented in Appendix B of the Brooks/Ditches Remedial Investigation/Feasibility study Report.

TMV = Toxicity, mobility, and volume.

Table 31

**Cleanup Goal Selection for
Pauls Brook Sediment - Zone 1
Brooks/Ditches, Pease AFB, NH**

Chemical	Ecological Criterion a (mg/kg)	Maximum Detected Background Concentration (mg/kg)	Maximum Detected Concentration (mg/kg)	Risk-Based Concentration b Cleanup Level (mg/kg) (LE-HE)	Cleanup Goal (mg/kg)
Organics					
Benzoic acid	33,320	0.720	0.290		NA
Benzyl butyl phthalate	NCA	ND	0.086		NA
Bis(2-ethylhexyl)phthalate	27.5	0.750	1.70		NA
Carbon disulfide	NCA	ND	0.002		NA
Di-n-butyl phthalate	0.379	ND	0.110		NA
Dibenzofuran	NCA	ND	0.200		NA
Toluene	93.6	0.024	0.056		NA
PAHs (total)	NCA	8.94	92.4		8.94
Pesticides/PCBs					
Aldrin	NCA	ND	3.70		NA
alpha-Chlordane	0.0232	ND	3.90	14.5-58	NA
gamma-Chlordane	0.0232	ND	3.40	17.1-68.2	NA
Dieldrin	NCA	ND	0.0260		NA
4,4'-DDE	2.39	ND	120.0	8.58-34.3	8.58
4,4'-DDD	264,000	ND	1,200	102-405	102
4,4'-DDT	0.0209	ND	2.1	2.11-8.44	2.11
Heptachlor epoxide	0.00002	ND	0.540	NC	NA
Inorganics					
Aluminum	NCA	14,300	43,000		NA
Arsenic	33.0	12.2	130.0		33.0
Barium	NCA	52.5	317.0		NA
Beryllium	NCA	0.830	1.2		NA
Boron	NCA	ND	11.5		NA
Cadmium	5.00	ND	10.1	0.153-0.613	0.153
Calcium	NCA	3,330	12,000		NA
Chromium	80.0	53.0	133.0		80.0
Cobalt	NCA	14.4	39.5		NA
Copper	70.0	23.2	139.0		70.0
Iron	NCA	21,900	92,000		NA
Lead	35.0	42.1	558.0	12.2-48.7	42.1
Magnesium	NCA	6,450	9,670		NA
Manganese	NCA	358.0	22,900		NA
Nickel	30.0	46.7	95.9		46.7
Potassium	NCA	2.840	819.0		NA
Selenium	NCA	ND	2.80		NA
Silicon	NCA	9,840	7,500		NA
Sodium	NCA	542.0	536.0		NA
Vanadium	NCA	35.7	168.0		NA
Zinc	120.0	105.0	868.0		120.0

a ER-Ls for inorganics, EqP values for organics.

b Risk-based concentration cleanup levels were calculated for chemicals of potential concern identified by EPA.

NA = Not applicable.

NCA = No criteria available.

ND = Not detected.

LE-HE = LE is based on an HQ of 1 for low exposure, and HE is based on an HQ of 10 for high exposure.

NC = Not calculated. Chemical was not detected in either earthworms or sediment.

Table 32

Sediment Cleanup Goals for Organics In McIntyre Brook - Zone 3
Brooks/Ditches, Pease AFB, NH

Organic Compound	Maximum Detected Concentration (I g/kg)	Maximum Hazard Quotient Based on EqP Values	Maximum Concentration Detected at Background Location (I g/kg)	NOAA Criteria		Cleanup Goal (I g/kg)
				ER-L (I g/kg)	ER-M (I g/kg)	
Bis(2-ethylhexyl)phthalate	990	0.757	750	NCA	NCA	NC
PAHs (total)	78,400	NCA	8,940	4,000	35,000	8,490

NC = No cleanup goal required because the HQ did not exceed 1.

NCA = No criteria value available.

Table 33

**Sediment Cleanup Goals for Inorganics in
McIntyre Brook - Zone 3
Brooks/Ditches, Pease AFB, NH**

Maximum Detected Inorganic Analyte	Maximum Detected Concentration (mg/kg)	Maximum Concentration Detected at Background Location (mg/kg)	NOAA Criteria		Cleanup Goal (mg/kg)
			ER-L (mg/kg)	ER-M (mg/kg)	
Aluminum	31,100	14,300	NCA	NCA	NA
Arsenic	17.2	12.2	33	85	NA
Barium	517	52.5	NCA	NCA	NA
Beryllium	2.5	0.83	NCA	NCA	NA
Boron	35.1	NA	NCA	NCA	NA
Calcium	3,740	3,330	NCA	NCA	NA
Chromium	70.9	53	80	145	NA
Cobalt	22.9	14.4	NCA	NCA	NA
Copper	46.6	23.2	70	390	NA
Iron	51,100	21,900	NCA	NCA	NA
Lead	355	42.1	35	110	42.1
Manganese	604	358	NCA	NCA	NA
Magnesium	11,500	6,450	NCA	NCA	NA
Nickel	52.3	46.7	30	NCA	46.7
Thallium	47.1	NA	NCA	NCA	NA
Vanadium	95.5	35.7	NCA	NCA	NA
Zinc	193	105	120	270	120

NA = Not applicable. Maximum detected concentration was below background or the NOAA ER-L, or had no associated criteria value.

NCA = No criteria value available.

Table 34

**ARARs for the Selected Remedy - Excavation of Pauls Brook and McIntyre Brook
Sediment with Off-Base Treatment and/or Disposal
Brooks/Ditches, Pease AFB, NH**

Media	Requirement	Requirement Synopsis	Action To Be Taken To Attain Requirements	Status
Sediment	CHEMICAL SPECIFIC Federal-CWA-Ambient Water Quality Criteria (AWQC) Protection of Freshwater Aquatic Life	AWQC are developed under the Clean Water Act (CWA) as guidelines from which states develop water quality standards, AWQC for aquatic life are relevant and appropriate when protection of aquatic organisms is being considered at a site.	AWQC were used in the development of sediment cleanup goals.	Relevant and Appropriate
Sediment	FEDERAL-EPA Risk Reference Doses (RfDs)	RfDs are dose levels developed based on noncarcinogenic effects and are used to develop Hazard Indices. A Hazard Index of less than or equal to 1 is considered acceptable.	EPA RfDs have been used to characterize risks resulting from exposure to contaminants in surface water and sediment.	TBC
Sediment	FEDERAL-EPA Carcinogen Assessment Group Policy Factors	Potency Factors are developed by the EPA from Health Effects Assessments or evaluation by the Carcinogenic Assessment Group and are used to develop excess cancer risks. A range of 10^{-4} to 10^{-6} is considered acceptable.	EPA Carcinogenic Potency Factors have been used to compute the individual incremental cancer risk resulting from exposure to site contamination in surface water and sediment. Risk levels have been found to be $<10^{-4}$ in surface water and sediment	TBC
Sediment	FEDERAL-EPA Interim Sediment Criteria Values for Non-Polar Hydrophobic Organic Contaminants (EPA May 1986)	Establishes screening values for contaminants in sediments.	Screening values were used as guidance for establishing cleanup goals.	TBC
Sediment	FEDERAL-NOAA Environmental Effects Range-Low (ER-L) and Median (ER-M). Technical Memorandum NOS OMA 52.	Identifies contaminant concentration levels at which biological effects are first observed in aquatic species in estuarine environments.	ER-L values were used as guidance for establishing cleanup goals.	TBC

Table 34

**ARARs for the Selected Remedy - Excavation of Pauls Brook and McIntyre Brook
Sediment with Off-Base Treatment and/or Disposal
Brooks/Ditches, Pease AFB, NH
(Continued)**

Media	Requirement	Requirement Synopsis	Action To Be Taken To Attain Requirements	Status
Sediment	STATE-NH Admin. Code Env-Ws 432 Surface Water Quality Standards (SWQS). RSA 485A:8	Surface water classification standards for Class B waters are applicable to the site. New Hampshire Surface Water Quality standards for toxic pollutants in Class B waters are essentially the same as Federal Ambient Water Quality Criteria.	SWQS have been considered in the development of sediment cleanup goals. Sediments exceeding cleanup goals will be excavated.	Relevant and Appropriate to the extent more stringent than federal AWQC.
Wetlands, Rivers	LOCATION SPECIFIC FEDERAL-Executive Order 11990 Protection of Wetlands. 40 CFR Part 6 - Appendix A	Under this Order, federal agencies are required to minimize destruction, loss, or degradation of wetlands, or beneficial values of wetlands. Identifies federal agencies that must be consulted when wetlands are to be altered. Outlines how agencies are to interact. 40 CFR 6. Appendix A contains the EPA policy for carrying out the provisions of EO 11990.	Remedial activities will be conducted as to minimize harm to wetlands. Appropriate federal agencies (identified under this Act) will be contacted and allowed to review the proposed work plan prior to sediment excavation in McIntyre and Pauls Brooks and surrounding wetlands.	Applicable
Wetlands, Rivers	FEDERAL-CWA Section 404:40 CFR Part 230 and 320-330	Requirements regulate the discharge of dredged or fill material into water bodies or wetlands and require mitigation for any such discharges.	Excavated sediments will be disposed of off-site. If clean fill is added, requirements will be met. Moreover, impacts to wetlands from sediment excavation will be mitigated.	Applicable
Wetlands, Rivers	FEDERAL-16 USC 661 et seq., Fish and Wildlife Coordination Act	Requires actions to be taken to avoid adverse effects, minimize potential harm to fish or wildlife, and preserve natural and beneficial uses of the land.	Relevant federal agencies will be contacted to help analyze effects of remedial action on wildlife in the wetlands in McIntyre and Pauls Brooks and the surrounding wetlands. Remedial activities will be conducted so as to minimize adverse impacts.	Applicable

Table 34

**ARARs for the Selected Remedy - Excavation Of Pauls Brook and McIntyre Brook
Sediment with Off-Base Treatment and/or Disposal
Brooks/Ditches, Pease AFB, NH
(Continued)**

Media	Requirement	Requirement Synopsis	Action To Be Taken To Attain Requirements	Status
Wetlands, Rivers	STATE-RSA 485 A-17 NH Admin. Code Env-Ws 415, Rules Relative to Prevention of Pollution from Dredging, Filling, Mining, Transporting, and Construction	Establish criteria for conducting any activity in or near surface water, which significantly alters terrain or may otherwise adversely affect water quality, impede runoff, or create unnatural runoff.	Erosion control measures will be taken during sediment excavation, Areas excavated will be backfilled and regraded.	Applicable
Wetlands, Rivers	STATE-RSA 482-A. NH Admin. Code Env-Wt 300, 400, 600. New Hampshire Criteria and Conditions for Fill and Dredging in Wetlands	Any activity in or adjacent to wetlands, including rolling and dredging, must meet these criteria for protection of fish, wildlife, commerce, and public recreation.	Proposed work adjacent to the wetlands and McIntyre and Pauls Brooks will be reviewed by the Wetlands Board and will comply with substantive state wetland protection requirements.	Applicable
Hazardous Waste	ACTION SPECIFIC FEDERAL-RCRA 40 CFR Part 264. Standards Applicable to Generators of Hazardous Waste	RCRA Subtitle C establishes standards applicable to treatment, storage, transport, and disposal of hazardous waste and the closure of hazardous waste facilities.	Sediments will be analyzed to determine whether they contain characteristic hazardous waste. If so, management of hazardous waste as part of CERCLA response must comply with substantive requirements of these regulations. Has effect through state hazardous waste requirements, NH Hazardous Waste Management Act and Rules. ENV-Wm 100-1000, which operate in lieu of federal regulations. See discussion of NH hazardous waste requirements below.	Relevant and Appropriate
Hazardous Waste	STATE RSA 147A-NH Hazardous Waste Management Control Act and Hazardous Waste Rules. Env-Wm 100-1000	Standards for management of hazardous waste facilities. Operate in lieu of federal RCRA Subtitle requirements.	Sediments will be analyzed to determine whether they constitute characteristic waste. If so, handling and disposal of sediments must comply with these regulations. Requirements are listed	See following section by section analysis
Hazardous Waste	STATE-NH Admin. Code Env-Wm 400-404 - Identification and Listing of Hazardous Waste	Requirements for identification and listing of hazardous waste.	Excavated sediments will be analyzed to determine whether they are hazardous prior to disposal. Sediments testing positive will be disposed of in a licensed TSD facility.	Applicable
Hazardous Waste	STATE-NH Admin. Code Env-Wm 707.03 - Waste Pile Requirements	Incorporates by reference the requirements of 40 CFR 264. Subpart L governing waste piles.	The excavated sediments stockpiled at the site prior to off-site disposal will comply with these requirements.	Applicable

APPENDIX B

DECLARATION OF CONCURRENCE

Mr. Albert F. Lowas, Jr.
Acting Director, Air Force Base Conversion Agency
1700 North Moore Street, Suite 2300
Arlington, VA 22209-2802

Re: Record of Decision for the Brooks and Ditches at the Pease Air Force Base
Superfund Site; Newington and Portsmouth, New Hampshire

Subject: Declaration of Concurrence

Dear Mr. Lowas:

The New Hampshire Department of Environmental Services (Department) has reviewed and concurs with the "Record of Decision for the Brooks/Ditches" (ROD) for the Pease Air Force Base (Pease AFB) Superfund Site in Newington and Portsmouth, New Hampshire. This ROD addresses the remedial actions necessary to address potential threats to human health, welfare and the environment in: Flagstone Brook (Zone 1); Pauls Brook (Zone 1); McIntyre Brook (Zone 3); and Lower Newfields Ditch (Zone 3), which resulted from releases of hazardous substances at various sites at Pease AFB. The Brooks and Ditches ROD documents the remedial actions to be taken in McIntyre Brook and Pauls Brook and the basis for determining that no further action is necessary under CERCLA to protect human health and the environment at Flagstone Brook and Lower Newfields Ditch.

The Air Force prepared the Brooks and Ditches ROD in accordance with the provisions of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 as amended by the Superfund Amendments and Reauthorization Act of 1986 (CERCLA). As a party to the "Pease Federal Facility Agreement Under CERCLA Section 120" (Pease FFA), the State has participated in the oversight of the Air Force's Remedial Investigations and Feasibility Studies at all sites on-base. In a letter dated September 16, 1993, the State concurred with the Source Area ROD for Landfill 5 which, was fast-tracked in order to accelerate the implementation of the actions necessary at the landfill to contain the primary source of groundwater contamination, a portion of which discharges to Flagstone Brook. In order to enable the expeditious implementation of source control measures and ensure that all potential threats to human health and the environment in the ditches were thoroughly investigated and evaluated, the State also concurred with the decision to incorporate Flagstone Brook, Pauls Brook, McIntyre Brook and Lower Newfields Ditch into a basewide surface water operable unit.

The selected remedy includes the excavation of sediment associated with Pauls Brook and McIntyre Brook. The excavated sediment will be treated and/or disposed of off base at an asphalt batching facility, a Subtitle D landfill, or a Resource Conservation and Recovery Act (RCRA) transportation, storage, and disposal (TSD) facility, as deemed necessary at the time of remediation. The selected remedy also includes sedimentation and erosion control during excavation, restoration of wetlands impacted or destroyed by sediment excavation at Pauls Brook, and long-term environmental monitoring at Pauls Brook and McIntyre Brook. No actions are necessary under CERCLA to ensure the protection of human health and the environment at Flagstone Brook and Lower Newfields Ditch.

State Concurrence

The State reviewed all information in the Brooks and Ditches Administrative Record, evaluated the cumulative risks associated with current and future potential exposures to the contaminants whose presence is associated with a CERCLA release and determined the actions set forth in the Brooks and Ditches ROD are consistent with the requirements of CERCLA. As a party to the Pease FFA, and acting as agent for the State of New Hampshire, the Department concurs with the no-action decisions selected under CERCLA for Flagstone Brook and Lower Newfields Ditch and the selected remedy for McIntyre Brook and Pauls Brook.

Letter to Albert F. Lowas, Jr.

Re: Brooks and Ditches ROD Declaration of Concurrence

September 24, 1997

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In striving to achieve the maximum benefit with limited public (and private) resources, the State continues to seek reasonable and practical solutions to the often costly and complex environmental challenges associated with contaminated site cleanups. Through the partnership and dedication exhibited by all parties, the rapid implementation of the actions necessary to protect human health and the environment will serve to expedite the achievement of our mutual environmental goals and facilitate efforts to restore the local economy in order to protect the welfare of those in the communities surrounding Pease AFB. As always, the Department stands ready to provide the guidance and assistance the Air Force may require in order to take the actions necessary to protect human health and the environment in a complete and cost-effective manner.

cc: Harry T. Stewart, P.E., DES-HWRB
Carl W. Baxter, P.E., DES-HWRB
Martha A. Moore, Esq., NHDOJ-AGO
Jerry Dexter, PDA
Michael J. Daly, EPA-New England
Arthur L. Ditto, P.E., AFBCA- 0L"A"

APPENDIX C

RESPONSIVENESS SUMMARY

OVERVIEW

The Air Force issued the Pease AFB Brooks & Ditches Operable Unit (B&D OU) Proposed Plan to the public in February 1997. In this Proposed Plan, the Air Force identified its preferred alternative for the two brooks requiring remedial action, the other brooks and ditches that make up the B&D OU were identified as requiring no further action. The selection of these preferred alternatives by the Air Force was coordinated with the U.S. Environmental Protection Agency (USEPA) New England Region, and the New Hampshire Department of Environmental Services (NMES).

The following subsections provide the background on community involvement with the B&D OU activities, and the Air Force's response to comments received during the Proposed Plan public comment period of 19 February to 21 March 1997.

BACKGROUND ON COMMUNITY INVOLVEMENT

Prior to the start of the public comment period for the B&D OU Proposed Plan, the Air Force issued the Proposed Plan in a fact sheet format. A presentation on the status of work conducted and results of the sampling at the B&D OU were made to the Pease Air Force Base Restoration Advisory Board - Technical Review Committee (RAB-TRC). Additionally, the content of the Proposed Plan was presented to and discussed with the members of the RAB-TRC. Notifications announcing the beginning of the B&D OU Proposed Plan comment period were mailed to all individuals on the Pease AFB mailing list in early February 1997, along with a copy of the Proposed Plan. A press release also was issued to the media announcing the public hearing. Newspaper announcements (advertisements) were published prior to the public hearing date of 5 March 1997.

SUMMARY OF COMMENTS RECEIVED DURING THE COMMENT PERIOD AND THE AIR FORCE RESPONSES

Two written comments were received on the Brooks & Ditches Operable Unit Proposed Plan during the comment period; the remainder of the comments were received verbally at the public hearing. The following provides a summary of each comment and respective Air Force response.

WRITTEN COMMENTS

1. Comment: SCOPE is in agreement with the Proposed Plan that the no further action recommendation for the Lower Newfields Ditch and Flagstone Brook is a viable option for these two sites.

Response: The Air Force acknowledges SCOPE's agreement.

2. Comment: As for Paul's Brook and McIntyre Brook, SCOPE supports the Air Force's preferred alternative of excavating the contaminated sediment, sediment and erosion control, off-site disposal, wetlands restoration and long-term monitoring.

Response: The Air Force acknowledges SCOPE's support.

3. Comment: As with all remediation proposals SCOPE has been involved in, and as a member of the Restoration Advisory Board/Technical Review Committee, long-term monitoring is a concern we feel must be seriously considered by the Air Force in relation to an Air Force presence at Pease. It is our contention the long-term monitoring, and Air Force presence, and community involvement go hand-in-hand in providing the right ingredients for good community relations between the Air Force and the communities surrounding Pease. A long-term Air Force presence is as important as the long-term monitoring of Pease sites. One compliments the other, and in so doing, the communities know they have a link to the decision.

Response: The Air Force understands SCOPE's and Seacoast Communities' desire for continued Air Force presences at Pease during the long-term monitoring process. The Air Force will take the communities' preferences into account when developing its future management plans for Pease AFB.

4. Comment: I think it's a total waste of time, a total waste of money, to even think of spending over a million dollars on the ditch named McIntyre Brook which runs by the Smith property. It's not needed.

To pacify abutters no action will not do it; therefore, limited action and/or monitoring would be appropriate, but clearly excavation is not warranted at this late date since the Air Force has been

long gone and that ditch has long since been flushed out by Mother Nature.

I don't remember that the right of way for that ditch was mentioned but the R.O.W. is at least 50 feet wide; or is it 100 feet wide? The ditch has been flushed out by rain, grass has grown throughout the distance of that brook/ditch, trees have taken hold, and the ditch/brook is hardly noticeable anymore. Leave well enough alone.

Response: The Air Force understands the need to be sensitive to cost when selecting remedial actions. However, results from the ecological risk assessment as well as sediment toxicity tests conducted by the Air Force indicated adverse impacts to aquatic organisms from contaminated sediments. Therefore, removal of these contaminated sediments from McIntyre Brook is required. As always, the Air Force will continue its efforts to maintain a proper balance between cost and environmental protectiveness in the implementation of remedial actions at Pease.

VERBAL COMMENTS:

1. Comment: You're going to remove sand or gravel that have filled the holes, or what are you going to do?

Response: For Paul's Brook the Air Force will be excavating an area of approximately one acre to a depth of about two feet. After which the area, which is a wetland, will be restored as a wetland. For McIntyre Brook the Air Force will be removing areas where sediments that contain contaminants above cleanup goals have been deposited.

2. Comment: What about people who have wells, is there any measuring of any contamination of water from wells in the area?

Response: The Air Force has evaluated groundwater issues base-wide, and has looked at all the potential sources of contamination. The Air Force is addressing all sources of groundwater contamination, refer to previous public hearings and previous remedial action decisions. For McIntyre Brook, the Brook is a receiver of contamination from surface runoff at the Base. There is no indication that contamination in McIntyre Brook would effect any drinking wells as groundwater flow is into the Brook area versus away from the Brook.

3. Comment: As far as trees, they've been really good so far. There's no problem with them continuing to stand, is there, as far as their being contaminated with whatever they've taken into the system in their roots?

Response: The root systems of the trees along McIntyre Brook are not in the actual ditch line but adjacent to the Brook banks. There is no indication or reason to believe that adjacent trees are effected by any of the contaminated sediments within the Brook ditch line.

4. Comment: There are beavers out there; is there any effect to them? Obviously, they eat the trees.

Response: Since there is no indication that trees are impacted by the Brook (see response to Comment #3 above) the beavers are not being effected.

5. Comment: My question is, you mentioned monitoring for a four or five year period, perhaps make sure the excavation of the contamination is effective. What's to prevent future condugements on the runway just undoing all that you've done, and is there a sort of authority that you have with the operators of the runway so that you can immediately call to their attention any kind of problem that they may be creating in what you have just cleaned up? And I ask that because my concern is, I think I understand that the property that is under a long-term lease to the Pease Development Authority, and I wonder, ultimately, who is responsible for their actions so that we, as taxpayers, are assured all this is money spent to really the best advantage?

Response: Potential future re-contamination of McIntyre Brook is a legitimate concern. The Air Force is responsible for addressing contamination that has resulted from its past activities. Monitoring of current and future redevelopment activities that may impact surface water quality in McIntyre Brook is now the responsibility of the Pease Development Authority (PDA) under permit issued by USEPA and NHDES. This permit is called a National Pollution Discharge Elimination System Permit, where the PDA is required to monitor various surface water outfalls, including McIntyre Brook. Both USEPA and NHDES have the responsibility for enforcement of this permit.

6. Comment: My only concern is, and I'm sure that there's low demand for it, creates situations, as far as drainage ditches, like those coming off of Pease, and I wondered if the cost of clean-up -- and, of

course, I want to see the ditches cleaned up, -- but I just wanted to make sure that this was just not going to be something that was monitored for six years, and then, there was going to be a slowly built-up sediments over the next 30 years the same as it was before.

Response: As stated in response +o Comment #5 above, the Air Force will correct effects of its past activities on McIntyre Brook. Monitoring of current and future activities that may negatively impact surface water quality in McIntyre Brook is the responsibility of the PDA under the NPDES permit issued by USEPA and NHDES. The Air Force does agree that a parties need to be concerned about future redevelopment activities and ensure that the activities do not undo what the Air Force is doing as part of the cleanup efforts as Pease.

7. Comment: I just had a couple of questions about maybe some of the sediment that would end up in the bay, if anybody has looked into that, and what kind of sediments are in there?

Response: As part of the characterization work at McIntyre Brook the Air Force sampled from the start of the Brook to Great Bay. Contaminant levels in McIntyre Brook at the bay did not exceed regulatory standards or exceed any acceptable risk levels. Therefore, it was unnecessary to sample sediment in Great Bay itself.

8. Comment: Quite often there's a stench comes out of that brook, which is -- I don't know how to explain what is smells like, but it's always been there. It's not like any other fresh water stream that I've smelled, and I just wondered if that's maybe because of the sediment that's in there, or if you had any idea about it?

Response: The Air Force has not found any odor issue associated with the sediments. The odd odor may be attributable to biological decomposition activity, especially in the areas of McIntyre Brook that are effected by tidal activity of the Great Bay.

9. Comment: I have a question about that oil separator. Is that functional? Is that working the way it's supposed to be working?

Response: The oil/water separator is functional and is working as designed. By design, during low water flows in the drainage system, water is diverted through the separator. During high flows (storm events) water bypasses the separator.

10. Comment: I'm highly in support of the plan here. This has been a long time in coming. I thoroughly support it.

Response: The Air Force acknowledges the commenter's support.

11. Comment: Do all the abutters get notified, or just certain ones?

Response: Notification of Proposed Plan comment periods and public hearings is done using the most current Air Force mailing list for Pease. If individuals names are not on the mailing list, including abutters to Pease, they will not receive a direct mailing. From the interest shown in this action, the Air Force will take steps to notify abutters to the McIntyre Brook area of future activities.

12. Comment: As part of the action, will you be notifying, publicly, the action that's going to happen?

Response: Yes, in this case notification will be provided prior to the start of construction activities. This notification will be to abutter's to the McIntyre Brook area (see response to Comment #11).

13. Comment: What I want to know is, what's the time frame for this, what you call proposal that you're putting forward; what's the time frame for that?

Response: It is the Air Force's goal to have this work completed in the August/September time period of this year.

14. Comment: So, you then will get a hold of all the abutters and let them know what's going on, so then I don't have to go out there and ask them -- like I usually do -- going, "Hey, who are you; what are you doing?"

Response: Yes, as stated in response to Comments #11 and # 12, the Air Force will provide notification to abutters prior to the start of construction, detailing the planned construction activities.

15. Comment: You pretty much figure that it's going to be a couple of months, then, that you're going to be out there.

Response: Yes, that is the Air Force's goal.

16. Comment: What kind of workdays are you talking; are you talking early in the morning until late at night, or are you talking an eight to five job?

Response: Typically the Air Force's contractors work 4 - 10 hour days. Work hours being 6:00 AM to 4:00 PM.

17. Comment: I was going to say, I don't start my lawnmower until 8:00 because Timmy gets after me. "Don't start until 8:00." We watch that clock pretty close.

Response: Once the work gets close to the residential area the Air Force will ensure that the contractor doesn't start any noisy type work before 8:00 AM.

18. Comment: You used the scenario of drops of oil on your shirt, and then the seepage into the water and the retention on the shirt. What's been determined from the sediments in McIntyre Brook; how long do those sediments stay there, you know?

Response: Sediment deposits do not necessarily go away. The issue is with the contamination that is contained within the sediment matrix. What the Air Force has measured is how much of the contamination that may be contained within the sediment matrices leach or leak out to the water in the Brook.

19. Comment: So, how much has been left behind, percentage; can you determine that or not?

Response: The process used to determine acceptable contamination levels that can be left behind does not measure it in a percentage but rather a ratio, in this case in parts per billion. The cleanup goals specified in the Proposed Plan is what has been determined as the maximum levels that can be left behind.

20. Comment: Now, when they do that, when they do that excavation and do all that work, will they be wearing contaminant suits, like they did on McIntyre, on McIntyre Road? You know how you put the pipes, and everything; you'd seen them in their white suits and their masks, and everything. Are they going to be doing that over there too?

Response: No, the contaminant levels are very low and don't warrant special personal protection for workers. It must be remembered that the risk assessment process showed unacceptable risk to human health. The issue that is being dealt with at McIntyre Brook is risk to the ecology, that is, plants and animals.

21. Comment: Specifically, the questions that I had, I'll be by area. On the Flagstone Brook that will require no further action, the pipeline that was going to go through and cut across that brook, I believe they're going to a pipeline underneath the Flagstone Brook, from what they tell me; has there been any particular sampling in the area where they're going to dig pipeline, to see if the soil has got contaminants in it, or do you intend to do any, at the time that they go do their excavation?

Response: The Air Force doesn't see the need to sample any of the soil in the area where the pipeline will cross under Flagstones Brook. In the area where the pipeline intersects Flagstones the sediments were "clean", i.e. within acceptable levels, therefore, there is no reason to believe there would be a problem with the soils underlying the Brook.

22. Comment: In the Paul's Brook area, are you going to take any, pull actual soil out of the Paul's Brook area, and will require cutting and removing any of the trees, as far as the forest area? Could you estimate how many of the trees or how much of an area it's going to be?

Response: The plan is to excavate the contaminated sediments in the Paul's Brook area. This will require the removal of trees that lie within the area where excavation is required. Based upon information available at the time of the Proposed Plan, the area of excavation is estimated to be one to one and a half acres.

23. Comment: Is there a plan to replant any large trees at the edge of the wetlands, because what you're obviously opening up is quite a view from the Spaulding Turnpike into the Base, and to the Air National Guard area?

Response: Based upon this comment, the first step the Air Force will take will be to minimize, to the extent possible, the loss of any large trees. If, as a result of the excavation process, a large visible area is opened up, the Air Force will plant trees as part of site restoration process.

24. Comment: As far as the downstream of Paul's Brook, you indicated that there's some ponds around the malls that are actually stopping points for the brook, as it continues down towards the Piscataqua

River. Have those particular ponds in the Fox Run Mall been sampled for sediments, at all?

Response: As stated during the presentation portion of the Public Hearing, characterization sampling started at the beginning of the brooks and proceeded downstream to a point where the sediments and/or surface water sampling results were "clean", i.e. within acceptable levels. This "clean" location for Paul's Brook was at a point before the Brook flows under the Spaulding Turnpike, well upstream of the ponds at the Fox Run Mall. Therefore, it was not necessary to sample the ponds at the Mall.

25. Comment: Essentially, there was no need to then. Looking at the other side, on the west side of the runway on McIntyre Brook.

Response: That is correct.

26. Comment: Just one last comment and that is, with the excavation of soil and the extensive work that you're going to do there, has the underground drainage ditches that lead into that brook that go under the runway already, have they already been flushed and cleaned, or are they still going to be -- do you still have to do that before excavating the soil?

Response: As part of the storm water carrying process of the drainage piping, there is a natural flushing process of sediment materials that might collect in drainage piping. Based upon investigative work done at Pease, particularly for the Fuel Hydrant System, there does not appear to be a residual sediment problem associated with the drainage piping that leads to McIntyre Brook.

29. Comment: One of the plans that has been promoted by the PDA is a green belt around the areas, to extend the golf course up to the midpoint, and I just wondered if, with the contamination of McIntyre Brook on the base, if that is all going to be removed so that it's something that they continue to need to do, or is that something that will support recreational use next to the ground line?

Response: The work area for McIntyre Brook is between the top of banks, an area approximately 50 feet wide. McIntyre Brook will be continued to be used to carry runoff flow from the Tradeport. Other than ensuring that future development does not impact the design function of McIntyre Brook, from an Air Force environmental perspective, there is no reason future development can't occur in that area.

APPENDIX D

ADMINISTRATIVE RECORD FILE INDEX

FOR THE

INSTALLATION RESTORATION PROGRAM

PEASE AIR FORCE BASE
NEW HAMPSHIRE

SEPTEMBER 1997

ABOUT THE ADMINISTRATIVE RECORD FILE

Under section 113(k) of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), the U.S. Air Force is required to establish an administrative record file for every Superfund response action and to make a copy of the administrative record available at or near the site.

Due to funding and space limitation, and based on guidance received from EPA Region I, the Air Force has established one administrative file for Pease Air Force Base which encompasses environmental response actions base-wide. Since access to Pease is unrestricted, both the information repository and the administrative record file are housed on base. Although similar in nature, the information repository contains general information about the Air Force's Installation Restoration Program while the administrative record documents the specific decision-making process leading to response actions.

Although draft documents are not usually placed in an administrative record, the Air Force and EPA Region I decided to temporarily house draft documents in the Pease administrative record. Draft documents in the administrative record are pulled and replaced with final documents as soon as the final documents are available. The Air Force and EPA Region I believe that this policy allows for an overall more complete administrative record.

The administrative record serves two purposes, according to EPA guidance. First the record contains those documents which form the basis for the selection of a response action and under section 113(j) of CERCLA judicial review of any issue concerning the adequacy of any response action is limited to the administrative record. This does not mean that only documents which support a response decision are placed in the record. Relevant documents that were considered but ultimately rejected are also included in the record to better establish the decision-making process.

Second, CERCLA section 113(k) requires that the administrative record act as a vehicle for public participation. Participation by interested citizens ensures that the concerns of the public will be addressed during the response selection process. The administrative record file must be reasonably available for public review during normal business hours. The record file should be treated as a non-circulating reference document. This will allow the public greater access to the volumes and also minimize the risk of loss or damage. Individuals may photocopy any documents in the non-confidential portion of the file.

Major documents in the Pease Air Force Base administrative record are shelved by specific zone. For example, documents pertinent to Zone 1 are shelved together and are kept separate from documents pertaining to other zones. Documents relevant to all zones are together in a general area and are shelved in accordance with the structure of the administrative record. In addition, the administrative record index is cross-referenced to facilitate the location of documents related to specific zones.

The documents in the administrative record file may become lost or damaged during use. If this occurs, contact the administrative record file manager at Pease Air Force Base. Documents may be added to the administrative record file as site work progresses. This index will be updated quarterly to reflect documents added to the administrative record file.

The administrative record file will be maintained in Building 43 at Pease AFB. Questions and/or comments about the administrative record file should be directed to:

Arthur L. Ditto, Remedial Project Manager
Air Force Base Conversion Agency
Operating Location A, Building 43
61 International Drive
Pease AFB, NH 03803-0157
(603) 430-2586

ABOUT THE INDEX NUMBERING SYSTEM

Document Number - Comprised of a 3 letter site code (PEA), the category number, the entry number and the page range of a document. (Both page numbers will be the same for a one page document.) If documents are eventually placed on a microfiche system, the document number consists of the site code followed by the microfilm reel and frame number.

Example: PEA (1.1) #1 001-031

Site Code	(Category #)	Entry #	Page Range
PEA	(1.1)	#1	001-031

Long Title The long title and brief description of document.

Author Indicates author or primary originator of document. If a contractor prepared the document, indicates company and location.

Recipient Indicates primary recipient of document.

Date Indicates date document was issued.

Type Indicates document type

Second Reference Other categories pertaining to the document.

Location Exact location(s) of document.

ADMINISTRATIVE RECORD FILE STRUCTURE

- 1.0 SITE IDENTIFICATION
 - 1.1 Background - RCRA and other Information
 - 1.2 Notification/Site Inspection Reports
 - 1.3 Preliminary Assessment (PA) Report
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 - 1.5 Previous Operable Unit Information
 - 1.6 Correspondence

- 2.0 REMOVAL RESPONSES
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 - 2.3 EE/CA Approval Memorandum (Non-Time-Critical Removals)
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 - 6.4 General Correspondence

- 7.0 ENFORCEMENT
 - 7.1 Enforcement History
 - 7.2 Endangerment Assessments
 - 7.3 Administrative Orders
 - 7.4 Consent Decrees
 - 7.5 Affidavits
 - 7.6 Documentation of Technical Discussions/Response Actions
 - 7.7 Notice Letters and Responses

- 8.0 HEALTH ASSESSMENTS
 - 8.1 ATSDR Health Assessments
 - 8.2 Toxicological Profiles
 - 8.3 General Correspondence

- 9.0 NATURAL RESOURCE TRUSTEES
 - 9.1 Notices Issued
 - 9.2 Findings of Fact
 - 9.3 Reports
 - 9.4 General Correspondence

- 10.0 PUBLIC PARTICIPATION
 - 10.1 Comments and Responses
 - 10.2 Community Relations Plan
 - 10.3 Public Notice(s) (Availability of the Admin. Record File, Availability of the Proposed Plan, Public Meetings)
 - 10.4 Public Meeting Transcripts
 - 10.5 Documentation of other Public Meetings
 - 10.6 Fact Sheets, Press Advisories, and News Releases
 - 10.7 Responsiveness Summary
 - 10.8 Late Comments
 - 10.9 Technical Review Committee Charter
 - 10.10 Correspondence

11.0 TECHNICAL SOURCES, GUIDANCE, AND PROCEDURES DOCUMENTS

- 11.1 EPA Headquarters Guidance
- 11.2 EPA Regional Guidance
- 11.3 State Guidance
- 11.4 Air Force Guidance
- 11.5 Technical Sources
- 11.6 Proposed Procedures/Procedures
- 11.7 Correspondence

*Note: Guidance documents listed as bibliographic sources for a document already included in the Administrative Record are not listed separately in this index.

12.0 CONFIDENTIAL FILE

- 12.1 Privileged Documents (Extractions)

1.1 Background - RCRA and Other Information

DOCUMENT NUMBER: PEA(1.1)#1 001-031
LONG TITLE: Scope of Work for the Remedial Investigation/Feasibility Study
AUTHOR: USAF
RECIPIENT: EPA. NHDES
DATE: April 1991
TYPE: Scope of Work for RI/FS
SECOND REFERENCE: None
LOCATION: ARF,IR

DOCUMENT NUMBER: PEA(1.1) #2 i-J.12
LONG TITLE: Draft Supplemental Environmental Impact Statement: Disposal and Reuse of Pease Air Force Base, New Hampshire
AUTHOR: USAF
RECIPIENT: Arthur Ditto, AFBCA
DATE: May 1995
TYPE: Environmental Impact Statement
SECOND REFERENCE: None
LOCATION: ARF,IR

1.2 Notification/Site Inspection Reports

*NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

1.3 Preliminary Assessment (PA) Report

DOCUMENT NUMBER: PEA(1.3)#1 001-068
LONG TITLE: Phase II Problem Confirmation and Quantification Presurvey Report (Field Sampling for SI Work)
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA: NHDES; USAF Occupational and Environmental Health Lab (OEHL), Brooks AFB, TX
DATE: June 1984
TYPE: Technical Report
SECOND REFERENCE: None
LOCATION: ARF,IR

DOCUMENT NUMBER: PEA(1.3)#2 001-182
LONG TITLE: Installation Restoration Program Records Search for Pease Air Force Base, New Hampshire
AUTHOR: CH2M Hill
RECIPIENT: EPA. NHDES; USAF Engineering & Service Center, Tyndall AFB; SAC, Offutt AFB, NE
DATE: January 1984
TYPE: Technical Report
SECOND REFERENCE: None
LOCATION: ARF,IR

DOCUMENT NUMBER: PEA(1.3)#3 001-041
LONG TITLE: Preliminary Assessment Stage 3B IRP, Pease AFB, New Hampshire (Updated PA Report)
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF: EPA: NHDES
DATE: 20 July 1990
TYPE: Letter Report
SECOND REFERENCE: None
LOCATION: ARF,IR

DOCUMENT NUMBER: PEA(1.3)#4 001-1.2
LONG TITLE: Final Preliminary Assessment Report, Portsmouth Refuse to Energy Plan
AUTHOR: ICF Kaiser Engineers, Inc.
286 Congress Street, 7th Floor
Boston, Massachusetts 02210
RECIPIENT: USAF
DATE: November 1991
TYPE: Report
SECOND REFERENCE: None
LOCATION: ARF,IR

1.4 Site Investigation (SI) Report

DOCUMENT NUMBER: PEA(1.4)#1 001-309
LONG TITLE: Installation Restoration Program, Phase II - Confirmation/Quantification
Stage I, Volume I, Final
Report for Pease Air Force Base, New Hampshire
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: HQ SAC/SGPB, Offutt AFB, NE; EPA; NHDES
DATE: August 1986
TYPE: Technical Report: Field Investigations
SECOND REFERENCE: None
LOCATION: ARF,IR

DOCUMENT NUMBER: PEA(1.4)#2 001-883
LONG TITLE: Installation Restoration Program Phase II - Confirmation Quantification
Stage 1. Volume II, Appendices
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: HQ SAC/SGPB, Offutt AFB, NE: EPA: NHDES
DATE: August 1987
TYPE: Technical Report: Field Investigations
SECOND REFERENCE: None
LOCATION: ARF,IR

DOCUMENT NUMBER: PEA(1.4)#3 001-308
LONG TITLE: Installation Restoration Program Stage 3B Preliminary Assessment/Site
Inspection for Pease Air Force Base, New Hampshire - Draft
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA; NHDES; HQ SAC/DE, Offutt AFB, NE: AFSC HSD YAQ, Brooks AFB, TX
DATE: February 1991
TYPE: Technical Report: Also includes review of PA
SECOND REFERENCE: None
LOCATION: ARF,IR

1.5 Previous Operable Unit Information

*NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

1.6 Correspondence

DOCUMENT NUMBER: PEA(1.6)#1 001-002
LONG TITLE: Comment Regarding the Installation Restoration Program. Phase I Record
Search Report, Pease Air Force Base
AUTHOR: The State of New Hampshire, Water Supply and Pollution Control Commission
RECIPIENT: USAF, HQ SAC, Offutt AFB, NE
DATE: 16 March 1984
TYPE: Letter/Comments
SECOND REFERENCE: None
LOCATION: ARF(Section 1.6 Binder)

DOCUMENT NUMBER: PEA(1.6)#2 001-004
LONG TITLE: Comments Regarding the Installation Restoration Program Report (09/10/86)
AUTHOR: State of New Hampshire, Division of Public Health Services
RECIPIENT: NH Division of Public Health Services
DATE: 24 November 1986
TYPE: Comments to SI (1.4)
SECOND REFERENCE: None
LOCATION: ARF (Section 1.6 Binder)

DOCUMENT NUMBER: PEA(1.6)#3 001-005
LONG TITLE: Comments Regarding the Phase II, Stage 1 IRP Report (08/86 Draft)
AUTHOR: State of New Hampshire, Department of Environmental Services
RECIPIENT: USAF
DATE: 3 February 1987
TYPE: Comments to SI(1.4)
SECOND REFERENCE: None
LOCATION: ARF(Section 1.6 Binder)

DOCUMENT NUMBER: PEA(1.6)#4 001-007
LONG TITLE: Air force Responses to Comments From the New Hampshire Department of Environmental Services on the Phase II, Stage 1 IRP Draft Report
AUTHOR: USAF
RECIPIENT: NHDES
DATE: 8 May 1987
TYPE: Responses to Comments to SI (1.4)
SECOND REFERENCE: None
LOCATION: ARF(Section 1.6 Binder)

DOCUMENT NUMBER: PEA(1.6)#5 001-004
LONG TITLE: Letter Concerning Site Walkovers made with Members of Sherburne Civic Group
AUTHOR: State of New Hampshire, Division of Public Health Services
RECIPIENT: USAF
DATE: 18 July 1990
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF(Section 1.6 Binder)

DOCUMENT NUMBER: PEA(1.6)#6 001-002
LONG TITLE: Zone 3 Water Hardness at Pease, AFB, NH
AUTHOR: Lee dePersia, Roy F. Weston, Inc.
RECIPIENT: Arthur Ditto, AFBCA
DATE: 25 May 1994
TYPE: Letter with Attachment
SECOND REFERENCE: Zone 3
LOCATION: ARF(Section 1.6 Binder)

DOCUMENT NUMBER: PEA(1.6)#7 001-001
LONG TITLE: Bulk Fuel Storage Area (BFSA) Site Investigation Report
AUTHOR: Arthur Ditto, AFBCA OL-A
RECIPIENT: 157 ARG/DE, Attn: Maj. Robertson
DATE: 2 June 1994
TYPE: Memorandum
SECOND REFERENCE: BFSA
LOCATION: ARF(Section 1.6 Binder)

DOCUMENT NUMBER: Bulk Fuel Storage Area (BFSA) Site Investigation Report
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: 157 ARG/DE, Attn: Maj. Robertson
DATE: 7 June 1994
TYPE: Memorandum
SECOND REFERENCE: BFSA
LOCATION: ARF(Section 1.6 Binder)

DOCUMENT NUMBER: PEA(1.6)#9 001-001
LONG TITLE: Locations of Surface Waters of New Hampshire in the Vicinity of the Former
Pease Air Force Base
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Richard Pease, NHDES
DATE: 3 March 1994
TYPE: Letter
SECOND REFERENCE: Pickering Brook
LOCATION: ARF(Section 1.6 Binder)

DOCUMENT NUMBER: PEA(1.6)#10 001-001
LONG TITLE: Pease Air Force Base Environmental Baseline Study (EBS)
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Charles Brown, AFCEE/ECA
DATE: 28 June 1995
TYPE: Memorandum
SECOND REFERENCE: Environmental Baseline Survey
LOCATION: ARF(Section 1.6 Binder)

2.1 Sampling Analysis Plans

*NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

2.2 Sampling and Analysis Data/Chain of Custody

*NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

2.3 EE/CA Approval Memorandum(Non-Time Critical Removals)

*NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

2.4 EE/CA (Engineering Evaluation/Cost Analysis)

*NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

2.5 Action Memorandum

*NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

2.6 Amendments to Action Memorandum

*NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

2.7 Removal Response Reports

*NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

2.8 Correspondence

DOCUMENT NUMBER: PEA(2.8)#1 001-041
LONG TITLE: New Hampshire wetlands permit for National Priorities List (NPL) Related
Work Site 32/36
AUTHOR: USAF
RECIPIENT: State of New Hampshire
DATE: 22 August 1990
TYPE: Permit
SECOND REFERENCE: Site 32.36
LOCATION: ARF(Section 2.8 Binder)

3.1 Sampling and Analysis Plan (SAP)

DOCUMENT NUMBER: PEA(3.1)#1 001-210
LONG TITLE: Quality Assurance Project Plan, Integrated Installation Restoration Program, Stage 2, to Support the Preliminary Remedial Investigation Field Work, Labeled Stage 2 Field Work
AUTHOR: Roy E. Weston, Inc.
RECIPIENT: EPA; NIDES; HQ SAC/DEPV, Ouffutt AFB, NE
DATE: November 1987
TYPE: Quality Assurance Project Plan
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.1)#2 001-212
LONG TITLE: Quality Assurance Project Plan, Integrated Installation Restoration Program, Stage 3
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA; NHDES
DATE: August 1989
TYPE: Quality Assurance Project Plan
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.1)#3 001-286
LONG TITLE: Installation Restoration Program Stage 4 Sampling and Analysis Plan - Draft
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA; NHDES
DATE: January 1991
TYPE: Sampling and Analysis Plan
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.1)#4 001-003
LONG TITLE: Locations of Background Sampling Locations
AUTHOR: Arthur L. Ditto, RPM
RECIPIENT: U.S. Air Force/Pease AFB
Johanna Hunter, RPM, EPA:
Richard Pease, RPM, NHDES
DATE: 15 June 1992
TYPE: Letter and Map
SECOND REFERENCE: Stage 3C Background Data Base
LOCATION: ARF(Section 3.1 Binder)

DOCUMENT NUMBER: PEA(3.1)#5 001-R1
LONG TITLE: Installation Restoration Program, Stage 4 Sampling and Analysis Plan Addendum 3, Pease AFB, NH -Draft
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: October 1992
TYPE: Addendum
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.1)#6 001-001
LONG TITLE: Analysis Using SW846 Method 8330 for Explosives
AUTHOR: Edward S. Barnes, P.E., C.I.H.
Roy F. Weston, Inc.
RECIPIENT: Capt. Carl Wocerhle
U.S. Air Force/Base Closure Division
Air Force Base Center for Environmental Excellence
DATE: 23 October 1992
TYPE: Letter
SECOND REFERENCE: Samples for SW8330 Analysis
LOCATION: ARF(Section 3.1 Binder)

DOCUMENT NUMBER: PEA(3.1)#7 001-005
LONG TITLE: Ethylene Dibronide (EDB) Analysis Using Modified Method E504.1
AUTHOR: Edward S. Barnes, P.E., C.I.H.
Roy F. Weston, Inc.
RECIPIENT: Capt. Carl Wocerhle
U.S. Air Force/Base Closure Division
Air Force Base Center for Environmental Excellence
DATE: 19 November 1992
TYPE: Letter with 4 Page Attachment
SECOND REFERENCE: Analytical Method Recommended for EDB Analysis
LOCATION: ARF(Section 3.1 Binder)

DOCUMENT NUMBER: PEA(3.1)#8 2.24-R.1
LONG TITLE: Stage 4 Sampling and Analysis Plan, Addendum #3. QAPP Portion
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 2 December 1992
TYPE: Addendum
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.1)#9 001-002
LONG TITLE: Submittal of Construction Quality Plan (CQP) and Sampling and Analysis Plan (SAP)
for Ditch Maintenance
AUTHOR: Mark McKenzie, AFBCA
RECIPIENT: Richard Pease, NHDES
Mike Daly, EPA Region I
DATE: 21 June 1994
TYPE: Letter
SECOND REFERENCE: Newfield's Ditch, Grafton Ditch, Flagstone Brook, McIntyre Brook, Paul's Brook
LOCATION: ARF(Section 3.1 Binder)

DOCUMENT NUMBER: PEA(3.1)#10 001-004
LONG TITLE: Earthworm Sampling Protocol at Pease AFB, NH
AUTHOR: Lee dePersia, Roy F. Weston, Inc.
RECIPIENT: Arthur Ditto, P.E. AFBCA
DATE: 20 September 1995
TYPE: Letter & Proposal
SECOND REFERENCE: None
LOCATION: ARF(Section 3.1 Binder)

3.2 Sampling and Analysis Data/Chain of Custody Forms

DOCUMENT NUMBER: PEA(3.1)#1 001-027
LONG TITLE: Volatile Aromatics/Halocarbons by Modified 8010/8020 - Draft Data Sheets
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: Unknown
TYPE: Data
SECOND REFERENCE: None
LOCATION: ARF(Section 3.2 Binder)

DOCUMENT NUMBER: PEA(3.2)#2 001-018
LONG TITLE: Volatile Aromatics/Halocarbons by Modified 8010/8020
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: Unknown
TYPE: Data
SECOND REFERENCE: None
LOCATION: ARF(Section 3.2 Binder)

DOCUMENT NUMBER: PEA(3.2)#3 001-009
LONG TITLE: CLP Volatile organic Analysis, Case No. 15175, SDG No. AX086, 8 Water Analytical Results
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: Unknown
TYPE: Data
SECOND REFERENCE: None
LOCATION: ARF(Section 3.2 Binder)

DOCUMENT NUMBER: PEA(3.2)#4 001-013
LONG TITLE: Preliminary Survey of Metal Concentrations in New Hampshire Soils - Final Report
AUTHOR: New Hampshire Division of Public Health Services, Bureau of Health Risk Assessment
RECIPIENT: USAF
DATE: May 1991
TYPE: Data
SECOND REFERENCE: None
LOCATION: ARF(Section 3.2 Binder)

DOCUMENT NUMBER: PEA(3.2)#5 001-D1
LONG TITLE: Background Soluble Metals Concentrations for Groundwater at Pease AFB
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 20 November 1991
TYPE: Letter Report
SECOND REFERENCE: PEA(3.6)
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.2)#6 001-E.1
LONG TITLE: Tolerance Limits for Background Soils at Pease ARB, NH
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 17 April 1992
TYPE: Letter Report
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.2)#7 001-002
LONG TITLE: Results of Background Surface Water/Sediment Location Walkover
AUTHOR: Arthur L. Ditto, USAF
RECIPIENT: Johanna Hunter. EPA
DATE: 19 August 1992
TYPE: Letter
SECOND REFERENCE: Knights Brook
LOCATION: ARF(Section 3.2 Binder)

DOCUMENT NUMBER: PEA(3.2)#8 001-052
LONG TITLE: Maximum Detected Concentrations for Unfiltered Groundwater at Pease AFB, NH
AUTHOR: Lee dePersia, Roy F. Weston, Inc.
RECIPIENT: Arthur Ditto, USAF
DATE: 25 August 1992
TYPE: Letter with Attachments(Tables and Graphs)
SECOND REFERENCE: None
LOCATION: ARF(Section 3.2 Binder)

DOCUMENT NUMBER: PEA(3.2)#9 001-009
LONG TITLE: Newington Water Quality Sampling on July 18, 1992 and Analysis Performed on August 28, 1992
(NHDES Sample #210239-210241)
AUTHOR: Scott Doane, Hydrogeologist
NHDES
RECIPIENT: Wayne Wood
Newington, NH 03803
DATE: 21 September 1992
TYPE: Letter and Chain of Custody and Tables
SECOND REFERENCE: None
LOCATION: ARF(Section 3.2 Binder)

DOCUMENT NUMBER: PEA(3.2)#10 001-009
LONG TITLE: Tissue Sample Letter Report for Great Bay, Bass Pond and McIntyre Brook
AUTHOR: Lee R. dePersia, Roy F. Weston Inc.
Through U.S. Air Force
RECIPIENT: Johanna Hunter, EPA
Richard Pease, NHDES
DATE: 9 October 1992
TYPE: Routing Letters and Letter Report with Map and Table
SECOND REFERENCE: Great Bay, Bass Pond, McIntyre Brook
LOCATION: ARF(Section 3.2 Binder)

DOCUMENT NUMBER: PEA(3.2)#11 001-007
LONG TITLE: Zone 1 Groundwater Model Calibration
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 17 May 1993
TYPE: Letter Report
SECOND REFERENCE: Zone 1
LOCATION: ARF(Section 3.2 Binder)

3.3 Work Plan

DOCUMENT NUMBER: PEA(3.3)#1 001-144
LONG TITLE: Work Plan for the Installation Restoration Program, Stage 3
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA; NHDES
DATE: August 1989
TYPE: Work Plan
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.3)#2 001-B.4
LONG TITLE: Installation Restoration Program, Stage 3C, Action Plan
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA; NHDES
DATE: May 1991
TYPE: Operations Plan
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.3)#3 001-258
LONG TITLE: Installation Restoration Program, Stage 4 Work Plan
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA; NHDES
DATE: January 1991
TYPE: Work Plan
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.3)#4 001-213
LONG TITLE: Work Plan for the Integrated Installation Restoration Program, Stage 2.1 Labeled
Stage 2
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA; NHDES
DATE: September 1987
TYPE: Work Plan
SECOND REFERENCE: None
LOCATION: ARF, IR

DOCUMENT NUMBER: PEA(3.3)#5 001-G5
LONG TITLE: Installation Restoration Program, Stage 4 Work Plan Addendum 1, Pease AFB, NH - Draft
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: September 1991
TYPE: Addendum
SECOND REFERENCE: None
LOCATION: ARF,IR

DOCUMENT NUMBER: PEA(3.3)#6 001-G5
LONG TITLE: Installation Restoration Program, Stage 4 Work Plan addendum Number 2 for Pease AFB,NH - Draft
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: March 1992
TYPE: Addendum
SECOND REFERENCE: None
LOCATION: ARF,IR

#

DOCUMENT NUMBER: PEA(3.3)#7 001-B4
LONG TITLE: Installation Restoration Program, Stage 3C, Operation Plan for Pease AFB, NH - Draft
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: May 1991
TYPE: Plan
SECOND REFERENCE: None
LOCATION: ARF,IR

DOCUMENT NUMBER: PEA(3.3)#8 001-3.5
LONG TITLE: Installation Restoration Program, Stage 4 Work Plan Addendum 3, Pease AFB, NH
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: June 1992
TYPE: Addendum
SECOND REFERENCE: None
LOCATION: ARF,IR

DOCUMENT NUMBER: PEA(3.3)#9 iii-R2
LONG TITLE: Stage 4 Health and Safety Plan Addendum - Section 9 Paint Can Disposal Area Test Pit and Drum Handling Procedures
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 22 June 1992
TYPE: Addendum
SECOND REFERENCE: None
LOCATION: ARF,IR

DOCUMENT NUMBER: PEA(3.3)#10 001-004
LONG TITLE: Groundwater Modeling Process Outline
AUTHOR: Lee dePersia, Roy F. Weston, Inc.
RECIPIENT: Arthur Ditto, USAF
DATE: 2 October 1992
TYPE: Letter
SECOND REFERENCE: Groundwater Modeling
LOCATION: ARF(Section 3.3 Binder)

DOCUMENT NUMBER: PEA(3.3)#11 001-C.31
LONG TITLE: Installation Restoration Program, Stage 5 Health and Safety Plan, Pease AFB, NH - Draft
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: October 1992
TYPE: Health and Safety Plan
SECOND REFERENCE: Groundwater Modeling
LOCATION: ARF,IR

DOCUMENT NUMBER: PEA(3.3)#12 001-F
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Interim Monitoring Plan
AUTHOR: USAF
RECIPIENT: Pease AFB
DATE: January 1994
TYPE: Monitoring Plan
SECOND REFERENCE: Groundwater Monitoring
LOCATION: ARF(Zone 7 Shelf)

DOCUMENT NUMBER: PEA(3.3)#13 001-4.1
LONG TITLE: Work Plan to Evaluate the Sediments of McIntyre Brook and Flagstone Brook,
Pease AFB, NH
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 27 October 1993
TYPE: Work Plan
SECOND REFERENCE: McIntyre Brook: Flagstone Brook
LOCATION: ARF(Section 3.3 Binder)

3.4 Preliminary RI Field Work Reports

DOCUMENT NUMBER: PEA(3.4)#1 001-173
LONG TITLE: Interim Technical Report No.1 for the Installation Restoration Program,
Stage 2, Volume I, for Pease Air Force Base
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA:NHDES:USAF
DATE: February 1988
TYPE: Technical Report
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.4)#2 001-147
LONG TITLE: Interim Technical Report No. 1 for the Installation Restoration Program,
Stage 2, Volume II - Appendices - Draft
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA:NHDES;USAF
DATE: January 1988
TYPE: Technical Report - Appendices
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.4)#3 001-214
LONG TITLE: Interim Technical Report No. 2 for the Installation Restoration Program,
Stage 2, Volume I
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA:NHDES;USAF
DATE: August 1988
TYPE: Technical Report
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.4)#4 001-696
LONG TITLE: Interim Technical Report No. 2 for the Installation Restoration Program,
Stage 2, Volume II - Appendices (Sample Tracking Information, Analytical Results)
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA:NHDES;USAF
DATE: August 1988
TYPE: Technical Report - Appendices
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.4)#5 001-838
LONG TITLE: Interim Technical Report No. 2 for the Installation Restoration Program,
Stage 2, Volume III - Appendices(Analytical Results)
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA;NHDES;USAF
DATE: August 1988
TYPE: Technical Report - Appendices
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.4)#6 001-722
LONG TITLE: Interim Technical Report No. 2 for the Installation Restoration Program,
Stage 2, Volume IV - Appendices(Analytical Results)
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA;NHDES;USAF
DATE: August 1988
TYPE: Technical Report - Appendices(Analytical Results
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.4)#7 001-289
LONG TITLE: Interim Technical Report No. 2 for the Installation Restoration Program, Stage 2,
Volume V - Appendices(Field Geological, Geological, and Hydrogeological Data)
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA;NHDES;USAF
DATE: August 1988
TYPE: Technical Report - Appendices
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.4)#8 001-106
LONG TITLE: Interim Technical Report No. 3 for the Installation Restoration Program,
Stage 2, Volume I -
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA;NHDES;USAF
DATE: February 1989
TYPE: Technical Report
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.4)#9 001-658
LONG TITLE: Interim Technical Report No. 3 for the Installation Restoration Program,
Stage 2, Volume II - Appendices
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA;NHDES;USAF
DATE: February 1989
TYPE: Technical Report - Appendices
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.4)#10 001-198
LONG TITLE: Interim Technical Report No. 4 for the Installation Restoration Program,
Stage 2, Volume I - Draft
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA;NHDES;USAF
DATE: April 1989
TYPE: Technical Report
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.4)#11 001-770
LONG TITLE: Interim Technical Report No. 4 for the Installation Restoration Program,
Stage 2, Volume II - Appendices
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA;NHDES;USAF
DATE: April 1989
TYPE: Technical Report - Appendices
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.4)#12 001-568
LONG TITLE: Interim Technical Report No. 4 for the Installation Restoration Program,
Stage 2, Volume III - Appendices-Draft
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA;NHDES;USAF
DATE: April 1989
TYPE: Technical Report - Appendices
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.4)#13 001-770
LONG TITLE: Interim Technical Report No. 4 for the Installation Restoration Program,
Stage 2, Volume IV - Appendices-Draft
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA;NHDES;USAF
DATE: April 1989
TYPE: Technical Report - Appendices
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.4)#14 001-1,150
LONG TITLE: Interim Technical Report No. 4 for the Installation Restoration Program,
Stage 2, Volume V - Appendices-Draft
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA;NHDES;USAF
DATE: April 1989
TYPE: Technical Report - Appendices
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.4)#15 001-729
LONG TITLE: Interim Technical Report No. 4 for the Installation Restoration Program,
Stage 2, Volume VI - Appendices-Draft
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA;NHDES;USAF
DATE: April 1989
TYPE: Technical Report - Appendices
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.4)#16 001-803
LONG TITLE: Interim Technical Report No. 4 for the Installation Restoration Program,
Stage 2, Volume VII- Appendices-Draft
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA;NHDES;USAF
DATE: April 1989
TYPE: Technical Report - Appendices
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.4)#17 001-251
LONG TITLE: Installation Restoration Program, State 2, Draft Final Report, Volume I
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA;NHDES;USAF
DATE: July 1990
TYPE: Technical Report
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.4)#18 001-452
LONG TITLE: Installation Restoration Program, Stage 2, Draft Final Report, Volume II
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA;NHDES;USAF
DATE: July 1990
TYPE: Technical Report
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.4)#19 001-621
LONG TITLE: Installation Restoration Program, Stage 2, Draft Final Report, Appendices, Volume I
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA;NHDES;USAF
DATE: July 1990
TYPE: Technical Report - Appendices
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.4)#20 001-420
LONG TITLE: Installation Restoration Program, Stage 2, Draft Final Report, Appendices, Volume II
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA;NHDES;USAF
DATE: July 1990
TYPE: Technical Report - Appendices
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.4)#21 001-658
LONG TITLE: Installation Restoration Program, Stage 2, Draft Final Report, Appendices, Volume III
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA;NHDES;USAF
DATE: July 1990
TYPE: Technical Report - Appendices
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.4)#22 001-688
LONG TITLE: Installation Restoration Program, Stage 2, Draft Final Report, Appendices, Volume IV
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA;NHDES;USAF
DATE: July 1990
TYPE: Technical Report - Appendices
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.4)#23 001-261
LONG TITLE: Installation Restoration Program, Stage 2, Draft Final Report, Appendices, Volume V
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA;NHDES;USAF
DATE: July 1990
TYPE: Technical Report - Appendices
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.4)#24 001-340
LONG TITLE: Installation Restoration Program, Stage 2, Summary Analytical Tables
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA;NHDES;USAF
DATE: July 1990
TYPE: Technical Report - Appendices
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.4)#25 001-338
LONG TITLE: Installation Restoration Program Stage 3, Landfill 5 Site Characterization Summary - Draft
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA;NHDES;USAF
DATE: November 1990
TYPE: Technical Report
SECOND REFERENCE: Landfill 5
LOCATION: ARF(Landfill 5 Shelf)

DOCUMENT NUMBER: PEA (3.4) #26 001-041
LONG TITLE: Pease AFB Monitor Well Inventory and Inspection
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 7 August 1992
TYPE: Report
SECOND REFERENCE: None
LOCATION: ARF(Section 3.4 Binder)

DOCUMENT NUMBER: PEA(3.4)#27 001-D
LONG TITLE: Background Values for Soil, Groundwater, Surface Water and Sediment at Pease Air Force Base
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 26 February 1993
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.4)#28 001-Map 6
LONG TITLE: Off Base Well Inventory Letter Report for Pease AFB
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 17 September 1992
TYPE: Letter Report
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.4)#29 001-Figure 11
LONG TITLE: United States Air Force Installation Restoration Program Pease Air Force Base, Regional Groundwater Model
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: April 1994
TYPE: Report
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.4)#30 001-C.2
LONG TITLE: Pease Air Force Base Monitor Well Inventory and Inspection Letter Report
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 04 October 1994
TYPE: Report
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.4)#31 001-005

LONG TITLE: McIntyre Brook Sediment Excavation Letter Report
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: July 1995
TYPE: Report
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.4)#32 001-055
LONG TITLE: Bioaccumulation Risk Assessment for Pauls Brook at Pease AFB, NH
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: AFBCA
DATE: December 1995
TYPE: Risk Assessment Report
SECOND REFERENCE: Bioaccumulation Risk Assessment for Pauls Brook (Forwarding Letter-
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.4)#33 001-095
LONG TITLE: Pease AFB Zone 3 Groundwater Modeling Report
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: AFBCA
DATE: December 1995
TYPE: Report
SECOND REFERENCE: Zone 3 Groundwater Modeling Report (Forwarding Letter - 3.6)
LOCATION: ARF

3.5 Remedial Investigation (RI) Reports

DOCUMENT NUMBER: PEA(3.5)#1 001-G.4
LONG TITLE: Installation Restoration Program, Stage 3C, Landfill 5 Remedial Investigation,
Pease AFB, NH Technical Report - DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: April 1992
TYPE: Report
SECOND REFERENCE: Landfill 5
LOCATION: ARF(Landfill 5 Shelf)

DOCUMENT NUMBER: PEA(3.5)#2 001-6.4.5
LONG TITLE: Installation Restoration Program, Stage 3C, Landfill 5 Remedial Investigation,
Pease AFB, NH Figures-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: April 1992
TYPE: Figures
SECOND REFERENCE: Landfill 5
LOCATION: ARF(Landfill 5 Shelf)

DOCUMENT NUMBER: PEA(3.5)#3 001-F.154
LONG TITLE: Installation Restoration Program, Stage 3C, Landfill 5 Remedial Investigation,
Pease AFB, NH Appendices A-F - DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: April 1992
TYPE: Appendices
SECOND REFERENCE: Landfill 5
LOCATION: ARF(Landfill 5 Shelf)

DOCUMENT NUMBER: PEA(3.5)#4 001-M.30
LONG TITLE: Installation Restoration Program, Stage 3C, Landfill 5 Remedial Investigation, Pease AFB, NH Appendices G.H.Land M-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: April 1992
TYPE: Appendices
SECOND REFERENCE: Landfill 5
LOCATION: ARF(Landfill 5 Shelf)

DOCUMENT NUMBER: PEA(3.5)#5 001-K
LONG TITLE: Installation Restoration Program, Stage 3C, Landfill 5 Remedial Investigation, Pease AFB, NH Appendices 1-K-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: April 1992
TYPE: Appendices
SECOND REFERENCE: Landfill 5
LOCATION: ARF(Landfill 5 Shelf)

DOCUMENT NUMBER: PEA(3.5)#6 001-5.2.1
LONG TITLE: Installation Restoration Program, Stage 4, Site Characterization Summary Zone 3, Pease AFB, NH Technical Report
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: May 1992
TYPE: Report
SECOND REFERENCE: Zone 3
LOCATION: ARF(Zone 3 Shelf)

DOCUMENT NUMBER: PEA(3.5)#7 001-C
LONG TITLE: Installation Restoration Program, Stage 4, Site Characterization Summary Zone 3, Pease AFB, NH Appendices
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: May 1992
TYPE: Appendices
SECOND REFERENCE: Zone 3
LOCATION: ARF(Zone 3 Shelf)

DOCUMENT NUMBER: PEA(3.5)#8 001-D
LONG TITLE: Installation Restoration Program, Stage 4 Site Characterization Summary, IRP Zone 4, Pease AFB, NH Appendices
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: May 1992
TYPE: Appendices
SECOND REFERENCE: Zone 4
LOCATION: ARF(Zone 4 Shelf)

DOCUMENT NUMBER: PEA(3.5)#9 001-R29
LONG TITLE: Installation Restoration Program, Stage 4 Site Characterization Summary, IRP Zone 4, Pease AFB, NH Technical Report
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: May 1992
TYPE: Appendices
SECOND REFERENCE: Zone 4
LOCATION: ARF(Zone 4 Shelf)

DOCUMENT NUMBER: PEA(3.5)#10 001-A.3
LONG TITLE: Installation Restoration Program, Stage 3C, Jet Engine Test Cell - IRP Site 34,
Source Area Remedial Investigation Pease AFB, NH Technical Report - DRAFT FINAL.
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: May 1992
TYPE: Report
SECOND REFERENCE: Site 34
LOCATION: ARF(Site 34 Shelf)

DOCUMENT NUMBER: PEA(3.5)#11 001-B12
LONG TITLE: Sampling Locations and Results Drainage Area Letter Report
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: May 1992
TYPE: Report
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.5)#12 001-B43
LONG TITLE: Installation Restoration Program, Stage 4, No Further Action Decision
Document for IRP Site 3, Pease AFB, NH
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: September 1992
TYPE: Decision Document
SECOND REFERENCE: Site 3
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.5)#13 001-3.1.1
LONG TITLE: Installation Restoration Program, Stage 4 Site Characterization
Summary, IRP Zone 1, Pease AFB, NH Technical Report - Draft
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: October 1992
TYPE: Report
SECOND REFERENCE: Zone 1
LOCATION: ARF(Zone 1 Shelf)

DOCUMENT NUMBER: PEA(3.5)#14 001-C
LONG TITLE: Installation Restoration Program, Stage 4 Site Characterization
Summary, IRP Zone 1, Pease AFB, NH Appendices A-C - Draft
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: October 1992
TYPE: Appendices
SECOND REFERENCE: Zone 1
LOCATION: ARF(Zone 1 Shelf)

DOCUMENT NUMBER: PEA(3.5)#15 001-ACR 1
LONG TITLE: Installation Restoration Program, Stage 4 Site Characterization Summary,
IRP Zone 2, Pease AFB, NH Text
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: October 1992
TYPE: Report
SECOND REFERENCE: Zone 2
LOCATION: ARF(Zone 4 Shelf)

DOCUMENT NUMBER: PEA(3.5)#16 A-C
LONG TITLE: Installation Restoration Program, Stage 4 Site Characterization Summary,
IRP Zone 2, Pease AFB, NH, Appendices A-C
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: October 1992
TYPE: Report
SECOND REFERENCE: Zone 2
LOCATION: ARF(Zone 2 Shelf)

DOCUMENT NUMBER: PEA(3.5)#17 D1-D2
LONG TITLE: Installation Restoration Program, Stage 4 Site Characterization Summary,
IRP Zone 2, Pease AFB, NH Appendix D-Volume 1 & 2
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: October 1992
TYPE: Appendices
SECOND REFERENCE: Zone 2
LOCATION: ARF(Zone 2 Shelf)

DOCUMENT NUMBER: PEA(3.5)#18 E-F
LONG TITLE: Installation Restoration Program, Stage 4 Site Characterization Summary,
IRP Zone 2, Pease AFB, NH Appendices E-F
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: October 1992
TYPE: Report
SECOND REFERENCE: Zone 2
LOCATION: ARF(Zone 2 Shelf)

DOCUMENT NUMBER: PEA(3.5)#19 001-126
LONG TITLE: Haven Well Pumping Test Letter Report
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: Jim Snyder, AFCEF/ESB, USAF
DATE: 8 January 1993
TYPE: Transmittal Letter., Letter Report, Maps, Appendices
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.5)#20 001-Acr.5
LONG TITLE: United States Air Force Installation Restoration Program, Pease Air Force
Base, Zone 4 Remedial Investigation Report Text-Draft Final
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: September 1993
TYPE: Report
SECOND REFERENCE: Zone 4
LOCATION: ARF(Zone 4 Shelf)

DOCUMENT NUMBER: PEA(3.5)#21 001-6.4.3
LONG TITLE: United States Air Force Installation Restoration Program, Pease Air Force
Base, Zone 4 Remedial Investigation Report-Figures-Draft Final
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: September 1993
TYPE: Report
SECOND REFERENCE: Zone 4
LOCATION: ARF(Zone 4 Shelf)

DOCUMENT NUMBER: PEA(3.5)#22 001-1
LONG TITLE: United States Air Force Installation Restoration Program, Pease Air Force Base, Zone 4 Remedial Investigational Report, Appendices B,C,D,E,F,G,H and I-Draft Final
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: September 1993
TYPE: Appendices
SECOND REFERENCE: Zone 4
LOCATION: ARF(Zone 4 Shelf)

DOCUMENT NUMBER: PEA(3.5)#23 001-O
LONG TITLE: United States Air Force Installation Restoration Program, Pease Air Force Base, Zone 4 Remedial Investigation Report, Appendices J,L and O-Draft Final
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: September 1993
TYPE: Appendices
SECOND REFERENCE: Zone 4
LOCATION: ARF(Zone 4 Shelf)

DOCUMENT NUMBER: PEA(3.5)#24 001-K-1
LONG TITLE: United States Air Force Installation Restoration Program, Pease Air Force Base, Zone 4 Remedial Investigation Report, Appendix K. Part 1 of 2-Draft Final
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: September 1993
TYPE: Appendices
SECOND REFERENCE: Zone 4
LOCATION: ARF(Zone 4 Shelf)

DOCUMENT NUMBER: PEA(3.5)#25 001-K-2
LONG TITLE: United States Air Force Installation Restoration Program, Pease Air Force Base, Zone 4 Remedial Investigation Report, Appendix K Part 2 of 2-Draft Final
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: September 1993
TYPE: Appendices
SECOND REFERENCE: Zone 4
LOCATION: ARF(Zone 4 Shelf)

DOCUMENT NUMBER: PEA(3.5)#26 001-O
LONG TITLE: United States Air Force Installation Restoration Program, Pease Air Force Base, Zone 4 Remedial Investigation Report, Appendix M, & N
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: March 1993
TYPE: Appendices
SECOND REFERENCE: Zone 4
LOCATION: ARF(Zone 4 Shelf)

DOCUMENT NUMBER: PEA(3.5)#27 001-J.1
LONG TITLE: United States Air Force Installation Restoration Program, Pease Air Force Base, Zone 4 Remedial Investigation Report, Appendix J 1 of 4
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: March 1993
TYPE: Appendix
SECOND REFERENCE: Zone 4
LOCATION: ARF(Zone 4 Shelf)

DOCUMENT NUMBER: PEA(3.5)#28 001-J.2
LONG TITLE: United States Air Force Installation Restoration Program, Pease Air Force Base, Zone 4 Remedial Investigation Report, Appendix J 2 of 4
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: March 1993
TYPE: Appendix
SECOND REFERENCE: Zone 4
LOCATION: ARF(Zone 4 Shelf)

DOCUMENT NUMBER: PEA(3.5)#29 001-J.3
LONG TITLE: United States Air Force Installation Restoration Program, Pease Air Force Base, Zone 4 Remedial Investigation Report, Appendix J 3 of 4
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: March 1993
TYPE: Appendix
SECOND REFERENCE: Zone 4
LOCATION: ARF(Zone 4 Shelf)

DOCUMENT NUMBER: PEA(3.5)#30 001-J.4
LONG TITLE: United States Air Force Installation Restoration Program, Pease Air Force Base, Zone 4 Remedial Investigation Report, Appendix J 4 of 4
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: March 1993
TYPE: Appendix
SECOND REFERENCE: Zone 4
LOCATION: ARF(Zone 4 Shelf)

DOCUMENT NUMBER: PEA(3.5)#31 001-ACR 4
LONG TITLE: U.S. Air Force Installation Restoration Program, Pease AFB Zone 1 Remedial Investigation Report Text-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: October 1993
TYPE: Report
SECOND REFERENCE: Zone 1
LOCATION: ARF(Zone 1 Shelf)

DOCUMENT NUMBER: PEA(3.5)#32 001-6.4-4
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 1 Remedial Investigation Report Figures-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: October 1993
TYPE: Figures
SECOND REFERENCE: Zone 1
LOCATION: ARF(Zone 1 Shelf)

DOCUMENT NUMBER: PEA(3.5)#33 001-F
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 1 Remedial Investigation Report Appendices A,B,C,D,E and F-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: October 1993
TYPE: Appendices
SECOND REFERENCE: Zone 1
LOCATION: ARF(Zone 1 Shelf)

DOCUMENT NUMBER: PEA(3.5)#34 001-04/19/93
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 1 Remedial Investigation Report Appendices B DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: April 1993 (10/93 Draft Final used to supplement)
TYPE: Appendix
SECOND REFERENCE: Zone 1
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.5)#35 001-L
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 1 Remedial Investigation Report Appendices G,H,I, and L-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: October 1993
TYPE: Appendices
SECOND REFERENCE: Zone 1
LOCATION: ARF(Zone 1 Shelf)

DOCUMENT NUMBER: PEA(3.5)#36 001-H-4.95
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 1 Remedial Investigation Report Appendices H Part 1 of 2-Draft
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: April 1993 (10/93 Draft Final used to supplement)
TYPE: Appendix
SECOND REFERENCE: Zone 1
LOCATION: ARF(Zone 1 Shelf)

DOCUMENT NUMBER: PEA(3.5)#37 001-H
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 1 Remedial Investigation Report Appendices H Part 2 of 2-Draft
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: April 1993 (10/93 DRAFT FINAL used to supplement)
TYPE: Appendix
SECOND REFERENCE: Zone 1
LOCATION: ARF(Zone 1 Shelf)

DOCUMENT NUMBER: PEA(3.5)#38 001-2853
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 1 Remedial Investigation Report Appendix I Draft
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: April 1993 (10/93 DRAFT FINAL used to supplement)
TYPE: Appendices
SECOND REFERENCE: Zone 1
LOCATION: ARF(Zone 1 Shelf)

DOCUMENT NUMBER: PEA(3.5)#39 001-J
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 1 Remedial Investigation Report Appendix J-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: October 1993
TYPE: Appendix
SECOND REFERENCE: Zone 1
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.5)#40 001-K.6-6
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 1 Remedial Investigation Report Appendix K-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: October 1993
TYPE: Appendix
SECOND REFERENCE: Zone 1
LOCATION: ARF(Zone 1 Shelf)

DOCUMENT NUMBER: PEA(3.5)#41 001-L
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 1 Remedial Investigation Report Appendix L DRAFT
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: April 1993 (10/93 DRAFT FINAL used to supplement)
TYPE: Appendices
SECOND REFERENCE: Zone 1
LOCATION: ARF(Zone 1 Shelf)

DOCUMENT NUMBER: PEA(3.5)#42 001-Arc.4
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 2 Remedial Investigation Report Text-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: November 1993
TYPE: Report
SECOND REFERENCE: Zone 2
LOCATION: ARF(Zone 2 Shelf)

DOCUMENT NUMBER: PEA(3.5)#43 001-6.4-3
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 2 Remedial Investigation Report Figures-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: November 1993
TYPE: Figures
SECOND REFERENCE: Zone 2
LOCATION: ARF(Zone 2 Shelf)

DOCUMENT NUMBER: PEA(3.5)#44 001-G
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 2 Remedial Investigation Report Appendices A,C,D,E,F and G-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: November 1993
TYPE: Appendices
SECOND REFERENCE: Zone 2
LOCATION: ARF(Zone 2 Shelf)

DOCUMENT NUMBER: PEA(3.5)#45 001-500
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 2 Remedial Investigation Report Appendix B Part 1 of 2-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: November 1993
TYPE: Appendix
SECOND REFERENCE: Zone 2
LOCATION: ARF(Zone 2 Shelf)

DOCUMENT NUMBER: PEA(3.5)#46 001-500
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 2 Remedial Investigation Report Appendix B Part 2 of 2. DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: November 1993
TYPE: Appendices
SECOND REFERENCE: Zone 2
LOCATION: ARF(Zone 2 Shelf)

DOCUMENT NUMBER: PEA(3.5)#47 001-475
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 2 Remedial Investigation Report Appendix H-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: November 1993
TYPE: Appendix
SECOND REFERENCE: Zone 2
LOCATION: ARF(Zone 2 Shelf)

DOCUMENT NUMBER: PEA(3.5)#48 001-1.1
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 2 Remedial Investigation Report Appendix I, Part 1 of 3-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: November 1993
TYPE: Appendices
SECOND REFERENCE: Zone 2
LOCATION: ARF(Zone 2 Shelf)

DOCUMENT NUMBER: PEA(3.5)#49 001-1.2
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 2 Remedial Investigation Report Appendix I Part 2 of 3-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: November 1993
TYPE: Appendices
SECOND REFERENCE: Zone 2
LOCATION: ARF(Zone 2 Shelf)

DOCUMENT NUMBER: PEA(3.5)#50 001-1.3
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 2 Remedial Investigation Report Appendix I Part 3 of 3-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: November 1993
TYPE: Appendix
SECOND REFERENCE: Zone 2
LOCATION: ARF(Zone 2 Shelf)

DOCUMENT NUMBER: PEA(3.5)#51 001-J.1
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 2 Remedial Investigation Report Appendix J Part 1 of 2-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: November 1993
TYPE: Appendix
SECOND REFERENCE: Zone 2
LOCATION: ARF(Zone 2 Shelf)

DOCUMENT NUMBER: PEA(3.5)#52 001-J.2
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 2 Remedial Investigation Report Appendix J Part 2 of 2-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: November 1993
TYPE: Appendix
SECOND REFERENCE: Zone 2
LOCATION: ARF(Zone 2 Shelf)

DOCUMENT NUMBER: PEA(3.5)#53A 001-K.74
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 2 Remedial Investigation Report Appendix K-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: November 1993
TYPE: Report
SECOND REFERENCE: Zone 2
LOCATION: ARF(Zone 2 Shelf)

DOCUMENT NUMBER: PEA(3.5)#54B 001-300
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 2 Remedial Investigation Report Appendices L, M, and N-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: November 1993
TYPE: Report
SECOND REFERENCE: Zone 2
LOCATION: ARF(Zone 2 Shelf)

DOCUMENT NUMBER: PEA(3.5)#55C 001-1.1
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 2 Remedial Investigation Report Appendices I, Part 1 of 2-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: May 1993
TYPE: Appendix
SECOND REFERENCE: Zone 2
LOCATION: ARF(Zone 2 Shelf)

DOCUMENT NUMBER: PEA(3.5)#56D 001-1.2
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 2 Remedial Investigation Report Appendix I. Part 2 of 2-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: May 1993
TYPE: Appendix
SECOND REFERENCE: Zone 2
LOCATION: ARF(Zone 2 Shelf)

DOCUMENT NUMBER: PEA(3.5)#57 001-ACR,4
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 3 Remedial Investigation Report Text-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: September 1993
TYPE: Report
SECOND REFERENCE: Zone 3
LOCATION: ARF(Zone 3 Shelf)

DOCUMENT NUMBER: PEA(3.5)#58 001-6.390
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 3 Remedial Investigation Report Section 6 Tables-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: September 1993
TYPE: Tables
SECOND REFERENCE: Zone 3
LOCATION: ARF(Zone 3 Shelf)

DOCUMENT NUMBER: PEA(3.5)#59 001-F.94
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 3 Remedial Investigation Report Figures-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: September 1993
TYPE: Figures
SECOND REFERENCE: Zone 3
LOCATION: ARF(Zone 3 Shelf)

DOCUMENT NUMBER: PEA(3.5)#60 001-D.26
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 3 Remedial Investigation Report Appendices A, C, and D-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: September 1993
TYPE: Appendices
SECOND REFERENCE: Zone 3
LOCATION: ARF(Zone 3 Shelf)

DOCUMENT NUMBER: PEA(3.5)#61 001-B
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 3 Remedial Investigation Report Appendices B Part 1 of 2 DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: April 1993
TYPE: Appendix
SECOND REFERENCE: Zone 3
LOCATION: ARF(Zone 3 Shelf)

DOCUMENT NUMBER: PEA(3.5)#62 001-B
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 3 Remedial Investigation Report Appendix B Part 2 of 2 DRAFT
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: April 1993
TYPE: Appendix
SECOND REFERENCE: Zone 3
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.5)#63 001-1000
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 3 Remedial Investigation Report Appendices B,E,F,G,L and M-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: September 1993
TYPE: Appendices
SECOND REFERENCE: Zone 3
LOCATION: ARF(Zone 3 Shelf)

DOCUMENT NUMBER: PEA(3.5)#64 001-H.4
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 3 Remedial Investigation Report Appendix H Part 1 of 3-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: April 1993 (same as DRAFT FINAL September 1993)
TYPE: Appendix
SECOND REFERENCE: Zone 3
LOCATION: ARF(Zone 3 Shelf)

DOCUMENT NUMBER: PEA(3.5)#65 001-H
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 3 Remedial Investigation Report Appendix H Part 2 of 3-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: April 1993 (same as DRAFT FINAL September 1993)
TYPE: Appendix
SECOND REFERENCE: Zone 3
LOCATION: ARF(Zone 3 Shelf)

DOCUMENT NUMBER: PEA(3.5)#66 001-H
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 3 Remedial Investigation Report Appendix H Part 3 of 3-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: April 1993 (same as DRAFT FINAL September 1993)
TYPE: Appendix
SECOND REFERENCE: Zone 3
LOCATION: ARF(Zone 3 Shelf)

DOCUMENT NUMBER: PEA(3.5)#67 001-2388
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 3 Remedial Investigation Report Appendix I Part 1 of-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: April 1993
TYPE: Appendix
SECOND REFERENCE: Zone 3
LOCATION: ARF(Zone 3 Shelf)

DOCUMENT NUMBER: PEA(3.5)#68 2424-5307
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 3 Remedial Investigation Report Appendix I Part 2 of 2-DRAFT
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: April 1993
TYPE: Appendix
SECOND REFERENCE: Zone 3
LOCATION: ARF(Zone 3 Shelf)

DOCUMENT NUMBER: PEA(3.5)#69 001-J.1
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 3 Remedial Investigation Report Appendices I and J Part 1 of 2-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: September 1993
TYPE: Appendix
SECOND REFERENCE: Zone 3
LOCATION: ARF(Zone 3 Shelf)

DOCUMENT NUMBER: PEA(3.5)#70 001-J.2
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 3 Remedial Investigation Report Appendix J Part 2 of 2-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: September 1993
TYPE: Appendix
SECOND REFERENCE: Zone 3
LOCATION: ARF(Zone 3 Shelf)

DOCUMENT NUMBER: PEA(3.5)#71 001-K.7
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 3 Remedial Investigation Report Appendix K-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: September 1993
TYPE: Appendix
SECOND REFERENCE: Zone 3
LOCATION: ARF(Zone 3 Shelf)

DOCUMENT NUMBER: PEA(3.5)#72 001-K.5-2
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB, McIntyre Brook/Lower Newfields Ditch Remedial Investigation/Feasibility Study Report-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: November 1993
TYPE: Report
SECOND REFERENCE: Zone 3
LOCATION: ARF,PEA(4.2)#24 001-K.5-2 on Zone 3 Shelf(Filed as Feasibility Study Report)

DOCUMENT NUMBER: PEA(3.5)#73 001-009
LONG TITLE: Letter Report to Establish Remedial Goals for Sediments in Flagstone Brook
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 19 April 1994
TYPE: Letter Report(RI)
SECOND REFERENCE: Flagstone Brook
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.5)#74 001-039
LONG TITLE: Cumulative Risk Evaluation for Zone 1 through Zone 5 at Pease AFB,N.H.
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: March 1994
TYPE: Risk Evaluation Report
SECOND REFERENCE: Zone 1,Zone 2,Zone 3,Zone 4,Zone 5
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.5)#75 001-008
LONG TITLE: Zone 3 Water Hardness
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Mike Daly, EPA Region I
Richard Pease, NHDES
DATE: 03 August 1994
TYPE: Letter with enclosures
SECOND REFERENCE: Zone 3
LOCATION: ARF(Section 3.5 Binder)

DOCUMENT NUMBER: PEA(3.5)#76 001-007
LONG TITLE: Basewide Interim Monitoring Report No. 2 for Pease Air Force Base, NH
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 05 August 1994
TYPE: Letter with attachment
SECOND REFERENCE: Zone 1:Zone 2:Zone 4
LOCATION: ARF(Section 3.5 Binder)

DOCUMENT NUMBER: PEA(3.5)#77 001-002
LONG TITLE: Sediment Toxicity Test Report for Flagstone and McIntyre Brooks, Pease Air Force Base, NH
AUTHOR: Mike Daly, EPA Region I
RECIPIENT: Arthur Ditto, AFBCA
DATE: 30 September 1994
TYPE: Fax
SECOND REFERENCE: PEA (10.1)
LOCATION: ARF(Section 3.5 Binder)

DOCUMENT NUMBER: PEA(3.5)#78 001-E.34
LONG TITLE: Summary of Revision to Basewide Interim Monitoring Plan, Pease Air Force Base, NH
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 23 November 1994
TYPE: Interim Monitoring Plan
SECOND REFERENCE: PEA(10.1)#161 001-006
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.5)#79 001-040
LONG TITLE: Basewide Interim Monitoring Report No. 4 for Pease Air Force Base, NH
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 16 December 1994
TYPE: Interim Monitoring Report
SECOND REFERENCE: Zone 1;Zone 2;Zone 4;Zone 5;Zone 7;PEA(10.1)#161 001-006
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.5)#80 i-Appendix E
LONG TITLE: DDT Sediment Evaluation Report for Pease Air Force Base, NH
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: November 1994
TYPE: Report
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.5)#81 1.1-Figure 2.7.6
LONG TITLE: U.S. Air Force Installation Restoration Program Pease Air Force Base, Basewide Interim Monitoring Report No. 1 for October Through December 1993 - Volume I
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: April 1994
TYPE: Report
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.5)#82 Appendix A-Appendix C
LONG TITLE: U.S. Air Force Installation Restoration Program Pease Air Force Base, Basewide Interim Monitoring Report No. 1 for October Through December 1993-Volume II
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: April 1994
TYPE: Report
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.5)#83 001-043
LONG TITLE: U.S. Air Force Installation Restoration Program Pease Air Force Base, Basewide Interim Monitoring Report No. 2 for January through March 1994
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: July 1994
TYPE: Report
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA(3.5)#84 001-049
LONG TITLE: U.S. Air Force Installation Restoration Program Pease Air Force Base,
Basewide Interim Monitoring Report No. 3
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: October 1994
TYPE: Report
SECOND REFERENCE: None
LOCATION: ARF

3.6 RI Correspondence

DOCUMENT NUMBER: PEA(3.6)#1 001-001
LONG TITLE: Comments Regarding the Work Plan for the IRP Stage 2
AUTHOR: State of New Hampshire, Department of Environmental Services
RECIPIENT: USAF
DATE: 27 July 1987
TYPE: Comments Serving 3.4 (Preliminary RI Field Work, Report)
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#2 001-006
LONG TITLE: Letter Regarding IRP, Stage 2
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 11 November 1987
TYPE: Letter Serving 3.4 (Preliminary RI Field Work Reports)
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#3 001-001
LONG TITLE: Letter Stating Conformance of the Stage 2, Quality Assurance Project Plan With Air
Force IRP Practices
AUTHOR: State of New Hampshire, Department of Environmental Services
RECIPIENT: USAF
DATE: 12 November 1987
TYPE: Letter Serving 3.4 (Preliminary RI Field Work Reports)
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#4 001-003
LONG TITLE: Review Comments on the Phase II, Stage 2 IRP, Draft Final Report
AUTHOR: State of New Hampshire, Department of Environmental Services
RECIPIENT: USAF
DATE: 28 February 1990
TYPE: Review Comments on Phase II, Stage 2, IRP Serving 3.4 (Preliminary RI
Field Work Reports)
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#5 001-011
LONG TITLE: Review Comments for the Pease AFB, Phase II, Stage 2 IRP Draft Final Report
AUTHOR: EPA
RECIPIENT: USAF
DATE: 7 March 1990
TYPE: Review Comments Serving 3.4 (Preliminary FI Field Work Reports)
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#6 001-010
LONG TITLE: Review Comments Regarding the IRP, Stage 2 Draft Final Report (December 1989)
AUTHOR: U.S. Department of Commerce, National Oceanic and Atmospheric Administration
RECIPIENT: EPA; USAF
DATE: 7 March 1990
TYPE: Review Comments Serving 3.4 (Preliminary RI Field Work Reports)
SECOND REFERENCE: PE(10.1)
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#7 001-020
LONG TITLE: Review Comments to the IRP Stage 2 RI/FS Draft Report
AUTHOR: USAF
RECIPIENT: Roy F. Weston, Inc; Pease AFB
DATE: 15 March 1990
TYPE: Review Comments Serving 3.4 (Preliminary RI Field Work Reports)
SECOND REFERENCE: PEA(10.1)
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#8 001-004
LONG TITLE: Sampling Data for Off-Site Sampling at Pease AFB
AUTHOR: State of New Hampshire, Water Supply and Pollution Control Division
RECIPIENT: Air Force
DATE: 5 July 1990
TYPE: Sampling Data
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#9 001-003
LONG TITLE: Off-Base Sampling at Pease AFB
AUTHOR: NHDES
RECIPIENT: USAF
DATE: 25 October 1990
TYPE: Sampling Results
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#10 001-065
LONG TITLE: Sampling Results from Pease AFB, Newington, Portsmouth
AUTHOR: NHDES
RECIPIENT: USAF
DATE: 17 January 1991
TYPE: Sampling Data
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#11 001-002
LONG TITLE: Installation Restoration Program(IRP)at Pease AFB,NH
AUTHOR: Department of the Air Force
RECIPIENT: Pease AFB
DATE: 8 March 1989
TYPE: Memorandum - Pertaining to RI
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#12 001-002
LONG TITLE: Work Plan for the IRP Stage 3 and ITR #4
AUTHOR: Department of the Air Force
RECIPIENT: Pease AFB
DATE: 3 April 1989
TYPE: Memorandum - Pertaining to RI
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#13 001-007
LONG TITLE: Consolidated Comments to the IRP Stage 3 Work Plan for Pease Air Force Base, NH
AUTHOR: USAF
RECIPIENT: Roy F. Weston, Inc.
DATE: 1 June 1989
TYPE: Review Comments - Pertaining to RI
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#14 001-001
LONG TITLE: Review Comments Regarding the Work Plan and QAPP-Stage 3
AUTHOR: NHDES
RECIPIENT: USAF
DATE: 16 June 1989
TYPE: Review Comments-Pertaining to RI
SECOND REFERENCE: PEA(10.1)
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#15 001-008
LONG TITLE: Stage 3 Work Plan-Response to Comments
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 29 June 1989
TYPE: Response to Comments-Pertaining to RI
SECOND REFERENCE: PEA(10.1)
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#16 001-008
LONG TITLE: Consolidated Comments to the IRP Stage 3 Quality Assurance Project
Plan(QAPP) for Pease Air Force Base, NH
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 29 June 1989
TYPE: Review Comments-Pertaining to RI
SECOND REFERENCE: PEA(10.1)
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#17 001-004
LONG TITLE: Letter Regarding Recent and Scheduled Future Activity in the Bulk Fuel Storage Area
AUTHOR: USAF
RECIPIENT: Roy F. Weston, Inc.
DATE: 10 May 1990
TYPE: Letter
SECOND REFERENCE: BFS
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#18 001-007
LONG TITLE: Review Comments on the Stage 3 Work Plan for the IRP
AUTHOR: EPA
RECIPIENT: USAF
DATE: 7 June 1990
TYPE: Review Comments
SECOND REFERENCE: PEA(10.1)
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#19 001-002
LONG TITLE: Letter Concerning Proposed Drilling Locations, Stage 3B
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 12 June 1990
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#20 001-002
LONG TITLE: Letter Regarding Well Installation Modification
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 5 July 1990
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#21 001-002
LONG TITLE: Information Letter 3 - Documenting discussion on 25 October 1990
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 29 October 1990
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#22 001-007
LONG TITLE: Stage 3, Landfill 5 Site Characterization Summary Informal Technical Information Report-Review Comments
AUTHOR: NHDES
RECIPIENT: USAF
DATE: 30 January 1991
TYPE: Review Comments
SECOND REFERENCE: PEA (3.4)#32 001-0338;PEA(10.1)
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#33 001-008
LONG TITLE: Response to Comments - Draft Final Stage 4 Work Plan and Sampling And Analysis Plan
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 7 February 1991
TYPE: Letter/Response to Comments
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#34 001-017
LONG TITLE: EPA Review Comments on the Stage 3, Landfill 5 Site Characterization Summary Informal Technical Information Report
AUTHOR: EPA
RECIPIENT: USAF
DATE: 14 February 1991
TYPE: Review Comments
SECOND REFERENCE: PEA(3.4)#32 001-338;PEA(10.1)
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#35 001-004
LONG TITLE: Issues Needing Resolution Prior to the Upcoming Field Efforts
AUTHOR: EPA
RECIPIENT: USAF
DATE: 10 April 1991
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#36 001-030
LONG TITLE: Response to Comments. Landfill 5 Site Characterization Summary - Informal Technical Information Report
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 7 June 1991
TYPE: Response to Comments
SECOND REFERENCE: PEA(3.4)#32 001-338;PEA(10.1); Landfill 5
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#37 001-030
LONG TITLE: (Revised) Response to Comments - Landfill 5 - Site Characterization Summary, Informal Technical Information Report
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 17 July 1991
TYPE: Letter
SECOND REFERENCE: PEA(3.4)#32 001-338;PEA(10.1); Landfill 5
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#38 001-038
LONG TITLE: Response to Comments - Stage 4 Work Plan and SAP
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 28 September 1990
TYPE: Response to Comments
SECOND REFERENCE: PEA(10.1)
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#39 001-011
LONG TITLE: Review comments on the Installation Restoration Plan(IRP) Stage 4 Work Plan and Sampling and Analysis Plan
AUTHOR: NHDES
RECIPIENT: USAF
DATE: 16 October 1990
TYPE: Review Comments
SECOND REFERENCE: PEA(10.1)
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#40 001-017
LONG TITLE: The Town of Newington Review Comments on the IRP Stage 4 Work Plan
AUTHOR: The Town of Newington
RECIPIENT: USAF
DATE: 29 October 1990
TYPE: Review Comments
SECOND REFERENCE: PEA(10.1)
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#41 001-076
LONG TITLE: EPA Technical Review of the Draft IRP Stage 4 Work Plan and Sampling and Analysis Plan for Pease Air Force Base
AUTHOR: EPA
RECIPIENT: USAF
DATE: 2 November 1990
TYPE: Review Comments
SECOND REFERENCE: PEA(10.1)
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#42 001-002
LONG TITLE: Response to Air Force Questions on State Comments to the Stage 4 Work Plan
AUTHOR: NHDES
RECIPIENT: USAF
DATE: 3 December 1990
TYPE: Response to questions on comments
SECOND REFERENCE: PEA(10.1)
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#43 001-007
LONG TITLE: Response to EPA Comments on the Pease AFB Stage 4 Work Plan Sampling and Analysis Plan
AUTHOR: Air Force
RECIPIENT: EPA
DATE: 10 December 1990
TYPE: Response to Comments
SECOND REFERENCE: PEA(10.1)
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#44 001-008
LONG TITLE: Air Force Response to NHDES Comments - Draft Final Stage 4 Work Plan and Sampling and Analysis Plan
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 7 February 1991
TYPE: Response to Comments
SECOND REFERENCE: PEA(10.1)
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#45 001-008
LONG TITLE: EPA Initial Approval of the IRP Stage 4 Work Plan and Sampling and Analysis Plan
AUTHOR: EPA
RECIPIENT: USAF
DATE: 13 March 1991
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#46 001-058
LONG TITLE: Air Force Response to EPA Comments on the Stage 4 Work Plan and Sampling and Analysis Plan
AUTHOR: USAF
RECIPIENT: EPA
DATE: 1991
TYPE: Response to Comments
SECOND REFERENCE: PEA(10.1)
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#47 001-003
LONG TITLE: Off-Base Sampling at Pease Air Force Base
AUTHOR: Richard Pease, NHDES
RECIPIENT: Art Ditto, Pease AFB
DATE: 25 October 1990
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#48 001-001
LONG TITLE: EPA Concerns
AUTHOR: USAF
RECIPIENT: Art Ditto, Pease AFB
DATE: 8 April 1991
TYPE: Internal Record of Phone Conversation with EPA and NHDES
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#49 001-004
LONG TITLE: Issues Needing Resolution Prior to Upcoming Field Efforts
AUTHOR: Johanna Hunter, EPA
RECIPIENT: Arthur Ditto, Pease AFB
DATE: 10 April 1991
TYPE: Letter
SECOND REFERENCE: PEA(3.3)
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#50 001-002
LONG TITLE: Review of Risk, Assessment Data and Sampling Procedures
AUTHOR: Johanna Hunter, EPA
RECIPIENT: Arthur Ditto, Pease AFB
DATE: 16 April 1991
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#51 001-067
LONG TITLE: Concerns about Analytical Methods
AUTHOR: USAF
RECIPIENT: USAF
Johanna Hunter, EPA
Roy F. Weston, Inc.
DATE: 23 April 1991
TYPE: Fax with Attachments
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#52 001-001
LONG TITLE: Surface Water and Sediment Sampling Locations
AUTHOR: Arthur Ditto, Pease AFB
RECIPIENT: Johanna Hunter, EPA
DATE: 24 April 1991
TYPE: Letter(Transmittal)
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#53 001-008
LONG TITLE: Field Oversight Coordination
AUTHOR: Johanna Hunter, EPA
RECIPIENT: Arthur Ditto, Pease AFB
DATE: 29 April 1991
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#54 001-004
LONG TITLE: Preliminary Sampling Schedule for Stage 3C IRP Sites through November 1991
AUTHOR: USAF
RECIPIENT: Johanna Hunter, EPA
Richard Pease, NHDES
DATE: 02 May 1991
TYPE: Fax
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#55 001-003
LONG TITLE: Review of April 25, 1991 Revised Analytical Methods
AUTHOR: Johanna Hunter, EPA
RECIPIENT: Art Ditto, Pease AFB
DATE: 08 May 1991
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#56 001-002
LONG TITLE: Review of April 25, 1991 Revised Analytical Methods
AUTHOR: Johanna Hunter, EPA
RECIPIENT: Art Ditto, Pease AFB
DATE: 08 May 1991
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#57 001-005
LONG TITLE: Field Performance Review of Weston Activities, Pease Air Force Base, New Hampshire
AUTHOR: Mitre Corporation
RECIPIENT: Dennis Landquest, Human Systems Division
IRP Program Office
HSD YAQ
Brooks AFB. TX 78235-5000
DATE: 14 May 1991
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#58 001-002
LONG TITLE: Revised Analytical Methods for Pease AFB
AUTHOR: Logan VanLeigh, Capt. USAF. BSC
RECIPIENT: Johanna Hunter, EPA
DATE: 31 May 1991
TYPE: Letter
SECOND REFERENCE: PEA(3.1)
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#59 001-005
LONG TITLE: Procedure for Establishing Background Metal Concentrations for Groundwater and Soil
AUTHOR: Edward S. Barnes, Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 03 June 1991
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#60 001-012
LONG TITLE: Information to Assist Interpretation of Data Submitted by EPA to the Air Force
AUTHOR: Johanna Hunter, EPA
RECIPIENT: Art Ditto, Pease AFB
DATE: 06 June 1991
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#61 001-004
LONG TITLE: Resolution Letter for Procedures for 8260 for VOC Analysis of Water
AUTHOR: Mark McKenzie, Pease AFB
RECIPIENT: Richard Pease, NHDES
Carl Gysler, Earth Technology, San Bernardino, CA
Johanna Hunter, EPA
DATE: 06 June 1991
TYPE: Fax
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#62 001-001
LONG TITLE: Background Determination Protocols
AUTHOR: USAF
RECIPIENT: Richard Pease, NHDES
DATE: 07 June 1991
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#63 001-001
LONG TITLE: Background Determination Protocols
AUTHOR: USAF
RECIPIENT: Johanna Hunter, EPA
DATE: 07 June 1991
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#64 001-003
LONG TITLE: Revised Analytical Methods for Pease AFB GC/MS method 8260 for VOA
AUTHOR: Edward S. Barnes, Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 11 June 1991
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#65 001-001
LONG TITLE: Laboratory Services
AUTHOR: Richard Pease, NHDES
RECIPIENT: Art Ditto, Pease AFB
DATE: 13 June 1991
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#66 001-002
LONG TITLE: Roy F. Weston, INC., Proposed Methods for Determining Background Concentrations at Pease Air Force Base, New Hampshire
AUTHOR: George Rice, Mitre Corporation
RECIPIENT: Dennis Lundquist, Human Systems Division
IRP Program Office
HSD/YAQ
Brooks AFB, TX 78235-5000
DATE: 02 July 1991
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA(3.6)#67 001-001
LONG TITLE: Transmittal Letter for Protocols for Baseline Risk Assessments
AUTHOR: Arthur Ditto, USAF
RECIPIENT: Richard Pease, NHDES
DATE: 18 July 1991
TYPE: Transmittal Letter
SECOND REFERENCE: Baseline Risk Assessments
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #68 001-001
LONG TITLE: Transmittal Letter for Protocols for Baseline Risk Assessments
AUTHOR: Author Ditto, USAF
RECIPIENT: Johanna Hunter EPA
DATE: 18 July 1991
TYPE: Transmittal Letter
SECOND REFERENCE: Baseline Risk Assessments
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #69 001-001
LONG TITLE: Submittal of Secondary Document
AUTHOR: USAF
RECIPIENT: Richard Pease, NHDES
Johanna Hunter, USEPA
DATE: 18 July, 1991
TYPE: Letter
SECOND REFERENCE: Site 32:36
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #70 001-006
LONG TITLE: Review of the Proposed Procedure for Background Determination Protocols for Pease Air Force Base, Portsmouth, NH
AUTHOR: Johanna Hunter, EPA
RECIPIENT: Art Ditto, Pease AFB
DATE: 02 August 1991
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #71 001-001
LONG TITLE: Split Sampling Results
AUTHOR: Arthur Ditto, USAF
RECIPIENT: Johann Hunter, EPA
Richard Pease, NHDES
DATE: 9 September 1991
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #72 001-002
LONG TITLE: Field Oversight-September 1991
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, USAF
DATE: 28 October 1991
TYPE: Letter
SECOND REFERENCE: PEA (3.4)
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #73 001-001
LONG TITLE: Transmittal Letter for Data Collected on Surface Water and Sediment Background Concentration
AUTHOR: Johanna Hunter, EPA
RECIPIENT: Ed Barnes Roy F. Weston
DATE: 2 December 1991
TYPE: Transmittal Letter
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #74 001-002
LONG TITLE: Regional Literature Search to Assist Development of the Sediment and Surface Water Background Determination for Pease AFB, Portsmouth, NH
AUTHOR: Johanna Hunter, EPA
RECIPIENT: Art Ditto, Pease AFB
DATE: 2 December 1991
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #75 001-001
LONG TITLE: Fugitive Dust Pathway in the Baseline Risk Assessment
AUTHOR: Arthur Ditto, USAFA
RECIPIENT: Johanna Hunter, EPA
DATE: 3 January 1992
TYPE: Letter
SECOND REFERENCE: PEA (3.5)
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #76 001-001
LONG TITLE: Evaluation of the Air Pathway in Baseline Risk Assessment
AUTHOR: USAF
RECIPIENT: Johanna Hunter, EPA
DATE: 11 February 1992
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #77 001-001
LONG TITLE: Evaluation of the Air Pathway in Baseline Risk Assessment
AUTHOR: USAF
RECIPIENT: Richard Pease, NHDES
DATE: 11 February 1992
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #78 001-001
LONG TITLE: Transmittal Letter for Submittal of Baseline Risk Assessment Protocols
AUTHOR: Arthur Ditto, USAF
RECIPIENT: Richard Pease, NHDES
DATE: 25 February 1992
TYPE: Transmittal Letter
SECOND REFERENCE: Baseline Risk Assessment
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #79 001-001
LONG TITLE: Transmittal Letter for Revised Baseline Risk Assessment Protocols
AUTHOR: Arthur Ditto, USAF
RECIPIENT: Johanna Hunter, EPA
DATE: 25 February 1992
TYPE: Transmittal Letter
SECOND REFERENCE: Revised Baseline Risk Assessment
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #80 001-003
LONG TITLE: Request for EPA Split Sampling Results
AUTHOR: Arthur Ditto, USAF
RECIPIENT: Johanna Hunter, EPA
DATE: 9 March 1992
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #81 001-D1
LONG TITLE: Letter Report of Results of Statistical Comparison of Stage 3C Samples to the 66 Other Background Samples
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 9 March 1992
TYPE: Letter Report
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #82 001-001
LONG TITLE: Transmittal Letter for Submittal of Stage 4 Work Plan Addendum Number 2 on the Draft Stage 4 Sampling and Analysis Plan Addendum Number 2
AUTHOR: Arthur Ditto, USAF
RECIPIENT: Johanna Hunter, EPA
DATE: 24 March 1992
TYPE: Transmittal Letter
SECOND REFERENCE: PEA(3.1);PEA(3.3)
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #83 001-001
LONG TITLE: Transmittal Letter for Submittal of Stage 4 Addendum Number 2 Work Plan and Sampling and Analysis Plan
AUTHOR: Arthur Ditto, USAF
RECIPIENT: Richard Pease, NHDES
DATE: 24 March 1992
TYPE: Transmittal Letter
SECOND REFERENCE: PEA(3.1);PEA(3.3)
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #84 001-001
LONG TITLE: Data You May Be Able to Provide
AUTHOR: Thomas R. Marks, Roy F. Weston, Inc.
RECIPIENT: Mark McKenzie, Pease AFB
DATE: 26 May 1992
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #85 001-022
LONG TITLE: Evaluation of Air Pathway in Baseline Risk Assessments
AUTHOR: Richard Pease, NHDES
RECIPIENT: Art Ditto, Pease AFB
DATE: 13 April 1992
TYPE: Letter with Attachments
SECOND REFERENCE: None
LOCATION: ARF(Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #86 001-003
LONG TITLE: Pease Air Force Base Zone 4 Draft Site Characterization Summary
AUTHOR: Edward S. Barnes, Roy F. Weston, Inc.
RECIPIENT: USAF
Johanna Hunter, EPA
Richard Pease, NHDES
DATE: 08 May 1992
TYPE: Letter
SECOND REFERENCE: Zone 4
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #87 001-002
LONG TITLE: Oversight Role of Regulatory Agencies at Pease AFB
AUTHOR: Michael Daly, EPA
RECIPIENT: Mark McKenzie, Pease AFB
DATE: 26 May 1992
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #88 001-003
LONG TITLE: Submittal of Draft Secondary Document, Zone 3 Site Characterization Summary
AUTHOR: USAF
RECIPIENT: Johanna Hunter, EPA
Richard Pease, NHDES
DATE: 26 May 1992
TYPE: Letter
SECOND REFERENCE: Zone 3
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #89 001-001
LONG TITLE: Submittal of Draft Secondary Documents, Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum
AUTHOR: USAF
RECIPIENT: Richard Pease, NHDES
DATE: 24 June 1992
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #90 001-001
LONG TITLE: Submittal of Draft Secondary Documents, Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum
AUTHOR: USAF
RECIPIENT: Johanna Hunter, EPA
DATE: 24 June 1992
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #91 001-002
LONG TITLE: Additional Field Oversight
AUTHOR: USAF
RECIPIENT: Michael Daly, EPA
DATE: 8 July 1992
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #92 001-021
LONG TITLE: Pease Air Force Base Groundwater Modeling Letter Report
AUTHOR: Lee dePersia, Roy F. Weston, Inc.
RECIPIENT: USAF
Johanna Hunter, EPA
Richard Pease, NHDES
DATE: 29 July 1992
TYPE: Letter with Report
SECOND REFERENCE: None
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #93 001-002
LONG TITLE: Results of Background Surface Water Sediment Location Walkover
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, Pease AFB
DATE: 27 August 1992
TYPE: Letter
SECOND REFERENCE: PEA (6.4)
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #94 001-005
LONG TITLE: Risk Assessment Issues for Pease AFB
AUTHOR: Lee dePersia, Roy F. Weston, Inc.
RECIPIENT: Arthur Ditto, USAF
DATE: 28 August 1992
TYPE: Letter Report
SECOND REFERENCE: PEA (3.5)
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #95 001-001
LONG TITLE: Transmittal Letter for Submittal of Groundwater Background Letter Report
AUTHOR: Mark McKenzie for Author Ditto, USAF
RECIPIENT: Richard Pease, NHDES
Johanna Hunter, EPA
DATE: 1 September 1992
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #96 001-001
LONG TITLE: Transmittal Letter for Submittal of Draft Primary Document, Site 3 No Further Action Decision Document (NFADD)
AUTHOR: Arthur Ditto, USAF
RECIPIENT: Johanna Hunter, EPA
DATE: 9 September 1992
TYPE: Letter
SECOND REFERENCE: Site 3
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #97 001-001
LONG TITLE: Transmittal Letter for Submittal of Draft Primary Document, Site 3 No Further Action Decision Document (NFADD)
AUTHOR: Arthur Ditto, USAF
RECIPIENT: Richard Pease, NHDES
DATE: 9 September 1992
TYPE: Letter
SECOND REFERENCE: Site 3
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #98 001-003
LONG TITLE: Summary of Risk Issues Meeting of August 19, 1992
AUTHOR: Johanna Hunter, EPA
RECIPIENT: Arthur Ditto, USAF
DATE: 16 September 1992
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #99 001-002
LONG TITLE: Field Oversight - Mid-August-Mid-September
AUTHOR: Richard Pease NHDES
RECIPIENT: Arthur Ditto, Pease, AFB
DATE: 7 October 1991
TYPE: Letter
SECOND REFERENCE: PEA (3.4)
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #100 001-001
LONG TITLE: Pease AFB Zone 1 Site Characterization Summary
AUTHOR: Lee dePersia, Roy F. Weston, Inc.
RECIPIENT: Capt. Carl Woerhle, AFCEE
DATE: 21 October 1992
TYPE: Transmittal Letter
SECOND REFERENCE: Zone 1
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #101 001-001
LONG TITLE: Transmittal Letter for Pease AFB Zone 2 Site Characterization Study
AUTHOR: Lee dePersia, Roy F. Weston, Inc.
RECIPIENT: Capt. Carl Woerhle, AFCEE
DATE: 22 October 1992
TYPE: Letter
SECOND REFERENCE: Zone 2
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #102 001-001
LONG TITLE: Transmittal Letter for Submittal of Zone 2 Site Characterization Summary Report
AUTHOR: Lee dePersia, Roy F. Weston, Inc.
RECIPIENT: Richard Pease, NHDES
DATE: 22 October 1992
TYPE: Letter
SECOND REFERENCE: Zone 2
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #103 001-001
LONG TITLE: Transmittal Letter for Submittal of Zone 2 Site Characterization Summary Report
AUTHOR: Lee dePersia, Roy F. Weston, Inc.
RECIPIENT: Johanna Hall, TRC Member, Lowell, MA
DATE: 22 October 1992
TYPE: Letter
SECOND REFERENCE: Zone 2
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #104 001-001
LONG TITLE: Transmittal Letter for Submittal of Zone 2 Site Characterization Summary Report
AUTHOR: Lee dePersia, Roy F. Weston, Inc.
RECIPIENT: Johanna Hunter, EPA
DATE: 22 October 1992
TYPE: Letter
SECOND REFERENCE: Zone 2
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #105 001-001
LONG TITLE: Submittal of Draft Secondary Documents, Zones 1, 2, and 5 Site Characterization Summaries
AUTHOR: USAF
RECIPIENT: Richard Pease, NHDES
DATE: 26 October 1992
TYPE: Letter
SECOND REFERENCE: Zone 1, Zone 2, Zone 5
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #106 001-001
LONG TITLE: Submittal of Draft Secondary Document, Zone 1, 2, and 5 Site Characterization Summaries
AUTHOR: USAF
RECIPIENT: Johanna Hunter, EPA
DATE: 26 October 1992
TYPE: Letter
SECOND REFERENCE: Zone 1, Zone 2, Zone 5
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #107 001-001
LONG TITLE: Submittal of Stage 4 Sampling and Analysis Plan Addendum 3
AUTHOR: USAF
RECIPIENT: Johanna Hunter, EPA
DATE: 26 October 1992
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #108 001-001
LONG TITLE: Submittal of Stage 4 Sampling and Analysis Plan Addendum 3
AUTHOR: USAF
RECIPIENT: Richard Pease, NHDES
DATE: 26 October 1992
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #109 001-001
LONG TITLE: Transmittal Letter for Submittal of Stage 5 Health and Safety Plan
AUTHOR: Arthur Ditto, USAF
RECIPIENT: Johanna Hunter, EPA
Richard Pease, NHDES
DATE: 17 November 1992
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #110 001-004
LONG TITLE: No Further Action Decision for Site 3
AUTHOR: Arthur Ditto, USAF
RECIPIENT: Johanna Hunter, EPA
DATE: 1 December 1992
TYPE: Letter
SECOND REFERENCE: Site 3
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #111 001-001
LONG TITLE: Application of the Reasonable Maximum Exposure (RME) in Risk Assessments
AUTHOR: Arthur Ditto, USAF
RECIPIENT: Richard Pease, NHDES
DATE: 1 December 1992
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #112 001-001
LONG TITLE: Explanation of Off-Base Well Inventory Report
AUTHOR: Arthur Ditto, USAF
RECIPIENT: Richard Pease, NHDES
DATE: 4 December 1992
TYPE: Letter
SECOND REFERENCE: Off-Base Well Inventory Letter Report of 17 September 1992
PEA (3.5)
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #113 001-001
LONG TITLE: Transmittal Letter for Submittal of Quality Assurance Project Plan (QAPP)
Portion of the Stage 4
Sampling and Analysis Plan (SAP) Number 3
AUTHOR: Arthur Ditto, USAF
RECIPIENT: Johanna Hunter, EPA
Richard Pease, NHDES
DATE: 11 December 1992
TYPE: Letter
SECOND REFERENCE: PEA (3.1)
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #114 001-002
LONG TITLE: Request for Deadline Extension
AUTHOR: Arthur Ditto, USAF
RECIPIENT: Johanna Hunter, EPA
Richard Pease, NHDES
DATE: 23 December 1992
TYPE: Letter
SECOND REFERENCE: PEA (6.3)
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #115 001-001
LONG TITLE: Transmittal of EPA Maximum Risk Calculation Addenda to Site 5.8.32 36 and
34 Draft Final RI
Reports
AUTHOR: Arthur Ditto, USAF
RECIPIENT: Johanna Hunter, EPA
Richard Pease, NHDES
DATE: 29 December 1992
TYPE: Letter
SECOND REFERENCE: Sites 5, 8, 32/36 and 34; PEA (3.5)
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #116 001-001
LONG TITLE: Submittal of Draft Primary Document, Zone 4 Remedial Investigation Report
AUTHOR: USAF
RECIPIENT: Richard Pease, NHDES
DATE: 9 March 1992
TYPE: Letter
SECOND REFERENCE: PEA (3.5); Zone 4
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #117 001-002
LONG TITLE: Request for Deadline Extension
AUTHOR: USAF
RECIPIENT: Johanna Hunter, EPA
Richard Pease, NHDES
DATE: 19 March 1993
TYPE: Letter
SECOND REFERENCE: PEA (3.5)
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #118 001-001
LONG TITLE: Submittal of Draft Primary Document, Landfill 5 Record of Decision
AUTHOR: USAF
RECIPIENT: Richard Pease, NHDES
DATE: 21 April 1993
TYPE: Letter
SECOND REFERENCE: Landfill 5; PEA (5.1)
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #119 001-001
LONG TITLE: Submittal of Draft Documents
AUTHOR: USAF
RECIPIENT: Richard Pease, NHDES
DATE: 21 April 1993
TYPE: Letter
SECOND REFERENCE: Zone 3, Zone 4, Landfill 5
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #120 001-001
LONG TITLE: Submittal of Draft Documents
AUTHOR: USAF
RECIPIENT: Richard Pease, NHDES
DATE: 21 April 1993
TYPE: Letter
SECOND REFERENCE: Zone 3, Zone 4, Landfill 5
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #121 001-001
LONG TITLE: Submittal of Draft Primary Document, Landfill 5 Record of Decision
AUTHOR: USAF
RECIPIENT: Johanna Hunter, EPA
DATE: 21 April 1993
TYPE: Letter
SECOND REFERENCE: Landfill 5; PEA (5.1)
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #122 001-001
LONG TITLE: Submittal of Draft Primary Document, Zone 1 Remedial Investigation Report
AUTHOR: USAF
RECIPIENT: Richard Pease, NHDES
DATE: 28 April 1993
TYPE: Letter
SECOND REFERENCE: Zone 1, PEA (3.5)
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #123 001-001
LONG TITLE: Submittal of Draft Primary Document, Zone 1 Remedial Investigation Report
AUTHOR: USAF
RECIPIENT: Johanna Hunter, EPA
DATE: 28 April 1993
TYPE: Letter
SECOND REFERENCE: Zone 1: PEA (3.5)
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #124 001-002
LONG TITLE: Zone 3 Remedial Investigation Report, Draft Final, Outstanding Risk Assessment Concern
AUTHOR: NHDES
RECIPIENT: USAF
DATE: 5 November 1993
TYPE: Letter
SECOND REFERENCE: Zone 3
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #125 001-002
LONG TITLE: Review of the Draft Final Zone 3 Remedial Investigation Report, Pease AFB
AUTHOR: EPA
RECIPIENT: USAF
DATE: 8 November 1993
TYPE: Letter
SECOND REFERENCE: Zone 3
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #170 001-008
LONG TITLE: Locations of Surface Waters of the State of New Hampshire in the Vicinity of Former Pease AFB
AUTHOR: Arthur Ditto, Pease AFB
RECIPIENT: Richard Pease, NHDES
DATE: 16 November 1993
TYPE: Letter with Attachment
SECOND REFERENCE: None
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #126 001-002
LONG TITLE: Zone 1 Draft Final Remedial Investigation Report
AUTHOR: NHDES
RECIPIENT: USAF
DATE: 24 November 1993
TYPE: Letter
SECOND REFERENCE: Zone 1
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #127 001-001
LONG TITLE: Draft Final Zone 3, 4, and 5 Remedial Investigation Reports, Pease AFB, NH
AUTHOR: EPA
RECIPIENT: USAF
DATE: 30 November 1993
TYPE: Memorandum
SECOND REFERENCE: Zone 3; Zone 4; Zone 5
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #128 001-002
LONG TITLE: Zone 1 Draft Final Remedial Investigation Report
AUTHOR: NHDES
RECIPIENT: USAF
DATE: 27 November 1993
TYPE: Letter
SECOND REFERENCE: Zone 1
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #129 001-003
LONG TITLE: Zone 1 Draft Final Remedial Investigation Report
AUTHOR: NHDES
RECIPIENT: USAF
DATE: 15 December 1993
TYPE: Letter
SECOND REFERENCE: Zone 1
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #130 001-003
LONG TITLE: Potential Issues of Dispute, Zone 1 Draft Final Remedial Investigation Report
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, AFBCA
DATE: 15 December 1993
TYPE: Letter
SECOND REFERENCE: Zone 1
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #131 001-003
LONG TITLE: Potential Issues of Dispute, McIntyre Brook Lower Newfields Ditch Remedial Investigation/Feasibility Study Report, Draft Final, November 1993 (Draft Final RI FS)
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, AFBCA
DATE: 20 December 1993
TYPE: Letter
SECOND REFERENCE: Section 4.2; McIntyre Brook/Lower Newfields Ditch
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #132 001-001
LONG TITLE: Zone 3 Remedial investigation (RI) Report, Addendum 1
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Mike Daly, EPA Region I
Richard Pease, NHDES
DATE: 26 April 1994
TYPE: Letter
SECOND REFERENCE: Zone 3
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #133 001-001
LONG TITLE: Zone 3 Remedial Investigation Report, Addendum 2
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Mike Daly, EPA Region I
Richard Pease, NHDES
DATE: 24 May 1994
TYPE: Letter
SECOND REFERENCE: Zone 3
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #134 001-002
LONG TITLE: Interim Monitoring Plan, DES Review Comments
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Richard Pease, NHDES
DATE: 25 April 1994
TYPE: Letter, with Response to Comments
SECOND REFERENCE: Section 10.1
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #135 001-063
LONG TITLE: Pease AFB Second Quarter Report for 1994
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 12 July 1994
TYPE: Letter Report
SECOND REFERENCE: None
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #136 001-007
LONG TITLE: Sediment Toxicity Letter Report for Pease AFB, NII
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: Arthur Ditto, AFBCA
DATE: 15 July 1994
TYPE: Letter Report
SECOND REFERENCE: Zone 1
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #137 001-001
LONG TITLE: Surface Water Sampling in Railway Ditch
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Richard Pease, NHDES
DATE: 21 July 1994
TYPE: Letter
SECOND REFERENCE: Railway Ditch
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #138 001-D.2
LONG TITLE: 1994 Third Quarter Report
AUTHOR: Mark McKenzie, AFBCA
RECIPIENT: Mike Daly, EPA Region I
Richard Pease, NHDES
DATE: 08 November 1994
TYPE: Report
SECOND REFERENCE: None
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #139 001-002
LONG TITLE: Additional Air Force Response to NHDES Zone 3 Remedial Investigation
Addenda #1 and #2 Comments
AUTHOR: Mark McKenzie, AFBCA
RECIPIENT: Richard Pease, NHDES
DATE: 24 February 1995
TYPE: Letter
SECOND REFERENCE: Zone 3; PEA (10.1)
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #140 001-001
LONG TITLE: Sampling Results Newington Locations
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Margaret Lamson, Town of Newington, NH
DATE: 24 November 1993
TYPE: Letter
SECOND REFERENCE: PEA (10.10)
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #141 001-001
LONG TITLE: Regional Groundwater Modeling Letter Report for Pease AFB, NH
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: Arthur Ditto, AFBCA
DATE: 02 May 1994
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #142 001-001
LONG TITLE: Surface Water Sampling in Railway Ditch
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, AFBCA
DATE: 20 July 1994
TYPE: Fax
SECOND REFERENCE: Railway Ditch
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #143 001-Att. 5
LONG TITLE: Zone 3 Water Hardness at Pease AFB, NH
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: Arthur Ditto, AFBCA
DATE: 25 May 1994
TYPE: Letter
SECOND REFERENCE: Zone 3
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #144 001-001
LONG TITLE: Basewide Interim Monitoring Report No. 6
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Michael Daly, EPA Region I
Richard Pease, NHDES
DATE: 26 July 1995
TYPE: Letter
SECOND REFERENCE: Zones 1, 2, 3, 4, 5 and Zone 7
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #145 001-001
LONG TITLE: Bulk Fuel Storage Area Construction Work Plan
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Richard Pease, NHDES
DATE: 26 July 1995
TYPE: Letter
SECOND REFERENCE: Zone 1, 2, 3, 4, 5 and Zone 7
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT TITLE: PEA (3.6) #146 001-005
LONG TITLE: Pease AFB Ditches Draft RI/FS Report
AUTHOR: Lee R. dePersia, Roy F. Weston, Inc.
RECIPIENT: Jim Snyder, AFCEE Base Closure Division
DATE: 16 November 1995
TYPE: Forwarding Letters
SECOND REFERENCE: Brooks Ditches RFFS (4.2)
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT TITLE: PEA (3.6) #147 001-006
LONG TITLE: Pease AFB Superfund Site Brooks and Ditches RI/FS Comments
AUTHOR: Gary S. Lynn, P.E., NHDES
RECIPIENT: Arthur Ditto, P.E., AFBCA
DATE: 5 December 1995
TYPE: Letter & Comments
SECOND REFERENCE: Brooks Ditches RIFS (4.2)
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT TITLE: PEA (3.6) #148 001-001
LONG TITLE: Pease AFB Final Zone 3 Groundwater Model
AUTHOR: Lee R. dePersia, Roy F. Weston, Inc.
RECIPIENT: Arthur Ditto, P.E., AFBCA
DATE: 18 December 1995
TYPE: Forwarding Letter
SECOND REFERENCE: Zone 3; Groundwater Model (3.4)
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT TITLE: PEA (3.6) #149 001-005
LONG TITLE: Re: Draft Brooks/Ditches Remedial Investigation/Feasibility Study
AUTHOR: Michael J. Daly, EPA
RECIPIENT: Arthur Ditto, P.E., AFBCA
DATE: 19 December 1995
TYPE: Letter & Comments
SECOND REFERENCE: Brooks Ditches RI/FS (4.2, 4.5)
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT NUMBER: PEA (3.6) #150 001-001
LONG TITLE: Pease AFB Bioaccumulation Risk Assessment for Pauls Brook
AUTHOR: Lee dePersia, Roy F. Weston, Inc.
RECIPIENT: Jim Snyder, AFCEE Base Closure Division
DATE: 27 December 1995
TYPE: Forwarding Letter
SECOND REFERENCE: Bioaccumulation Risk Assessment for Pauls Brook (3.4)
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT TITLE: PEA (3.6) #151 001-003
LONG TITLE: Pease Air Force Base Installation Restoration Program
Bioaccumulation Risk Assessment for Pauls Brook Letter Report
AUTHOR: Gary S. Lynn, P.E. NHDES
RECIPIENT: Arthur L. Ditto, P.E., AFBCA
DATE: 03 January 1996
TYPE: Letter & Comments
SECOND REFERENCE: Bioaccumulation Risk Assessment for Pauls Brook (3.4)
LOCATION: ARF (Section 3.6 Binder)

DOCUMENT TITLE: PEA (3.6) #152 001-015
LONG TITLE: Pease AFB Brooks/Ditches Draft Final RI/FS Consolidated Report and Responses to
Comments
AUTHOR: Lee dePersia, Roy F. Weston, Inc.
RECIPIENT: Jim Snyder, AFCEE Base Closure Division
DATE: 08 May 1996
TYPE: Forwarding Letter & Comments
SECOND REFERENCE: Brooks Ditches RI/FS Consolidated Report (4.2, 4.5)
LOCATION: ARF (Section 3.6 Binder)

4.1 ARAR Determinations

DOCUMENT NUMBER: PEA (4.1) #1 001-024
LONG TITLE: New Hampshire ARAR List Update
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, USAF
DATE: 13 April 1992
TYPE: Letter and Tables
SECOND REFERENCE: None (Section 4.1 Binder)
LOCATION: ARF

DOCUMENT NUMBER: PEA (4.1) #2 001-B.3
LONG TITLE: Installation Restoration Program Stage 4, Basewide ARARs, Pease Air Force Base, NH
03803 - Draft
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: January 1993
TYPE: ARARs
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA (4.1) #3 001-002
LONG TITLE: Waiverability of Env-WS 430, Surface Water Quality Regulations, as an ARAR
AUTHOR: Arthur Ditto, Pease AFB
RECIPIENT: Richard Pease, NHDES
DATE: 21 December 1993
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 4.1 Binder)

DOCUMENT NUMBER: PEA (4.1) #4 001-025
LONG TITLE: New Hampshire ARAR List Update
AUTHOR: NHDES
RECIPIENT: USAF
DATE: 23 December 1993
TYPE: Letter with Attachment
SECOND REFERENCE: None
LOCATION: ARF (Section 4.1 Binder)

DOCUMENT NUMBER: PEA (4.1) #5 001-005
LONG TITLE: Documentation of ARARs for Zone 1 Groundwater
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 30 June 1994
TYPE: ARARs
SECOND REFERENCE: Zone 1
LOCATION: ARF (Section 4.1 Binder)

DOCUMENT NUMBER: PEA (4.1) #6 001-001
LONG TITLE: Pease Air Force Base: Resolution of Env-Ws 410 ARARs Issue
AUTHOR: Joan Miles, Assistant Regional Counsel, EPA Region I
RECIPIENT: Anne Renner, EPA Region I
DATE: Assistant Attorney General, New Hampshire
TYPE: Letter
SECOND REFERENCE: PEA (6.3), PEA (11.2)
LOCATION: ARF (Section 4.1 Binder)

DOCUMENT NUMBER: PEA (4.2) #1 001-B.39
LONG TITLE: Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP
Site 5, Pease AFB, NH
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: October 1991
TYPE: Report
SECOND REFERENCE: Landfill 5
LOCATION: ARF (Landfill 5 Shelf)

DOCUMENT NUMBER: PEA (4.2) #2 001-ACR.3
LONG TITLE: Installation Restoration Program Stage 3C, Feasibility Study for IRP Site 5, Pease AFB, NH - Technical Report - Draft Final
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: August 1992
TYPE: Report
SECOND REFERENCE: Landfill 5
LOCATION: ARF (Landfill 5 Shelf)

DOCUMENT NUMBER: PEA (4.2) #3 001-5.2.14
LONG TITLE: Installation Restoration Program, Stage 3C, Feasibility Study for IRP Site 5, Pease AFB, NH - Figures - Draft Final
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: August 1992
TYPE: Figures
SECOND REFERENCE: Landfill 5
LOCATION: ARF (Landfill 5 Shelf)

DOCUMENT NUMBER: PEA (4.2) #4 001-1.3
LONG TITLE: Installation Restoration Program, Stage 3C, Feasibility Study for IRP Site 5, Pease AFB, NH Appendices A-I. Draft Final
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: August 1992
TYPE: Appendices
SECOND REFERENCE: Landfill 5
LOCATION: ARF (Landfill 5 Shelf)

DOCUMENT NUMBER: PEA (4.2) 112 001-K.5-2
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB McIntyre Brook/Lower Newfields Ditch Remedial Investigation/Feasibility Study-Draft FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: November 1993
TYPE: Report
SECOND REFERENCE: PEA (3.5) 112 001-K.5-2
LOCATION: ARF (Zone 3 Shelf)

DOCUMENT NUMBER: PEA (4.2) #6 001-MM4B-7
LONG TITLE: U.S. Air Force Installation Program Pease AFB Zone 3 Initial Screening of Alternatives- DRAFT
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: May 1993
TYPE: Feasibility Study
SECOND REFERENCE: Zone 3
LOCATION: ARF (Zone 3 Shelf)

DOCUMENT NUMBER: PEA (4.2) #7 001-MM3-9
LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 1 Initial Screening of Alternatives Report Draft
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: May 1993
TYPE: Feasibility Study
SECOND REFERENCE: Zone 1
LOCATION: ARF (Zone 1 Shelf)

DOCUMENT NUMBER: PEA (4.2) #8 ES-1-ACR-3
LONG TITLE: U.S. Air Force Installation Restoration Program, Pease AFB, Zone 3
Feasibility Study Report Text- DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: November 1993
TYPE: Report
SECOND REFERENCE: Zone 3
LOCATION: ARF (Zone 3 Shelf)

DOCUMENT NUMBER: PEA (4.2) #9 A-1-L-6
LONG TITLE: U.S. Air Force Installation Restoration Program, Pease AFB, Zone 3
Feasibility Study Report
Appendices-DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: November 1993
TYPE: Appendix
SECOND REFERENCE: Zone 3
LOCATION: ARF (Zone 3 Shelf)

DOCUMENT NUMBER: PEA (4.2) #10 001-R.4
LONG TITLE: U.S. Air Force Installation Restoration Program, Pease AFB, Zone 1
Feasibility Study Report, Text - DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: December 1993
TYPE: Feasibility Study
SECOND REFERENCE: Zone 1
LOCATION: ARF (Zone 1 Shelf)

DOCUMENT NUMBER: PEA (4.2) #11 001-J.7
LONG TITLE: U.S. Air Force Installation Restoration Program, Pease AFB, Zone 1
Feasibility Study Report Appendices - DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: December 1993
TYPE: Feasibility Study
SECOND REFERENCE: Zone 1
LOCATION: ARF (Zone 1 Shelf)

DOCUMENT NUMBER: PEA (4.2) #12 001-005
LONG TITLE: Submittal of the Zone 1 Technical Memorandum - Revised Ecological Risk
Assessments for Sites 4 and 44
AUTHOR: Mark McKenzie, AFBCA
RECIPIENT: Mike Daly, EPA Region I
Richard Pease, NHDES
DATE: 03 August 1994
TYPE: Letter with attachment
SECOND REFERENCE: Zone 1; Site 4; Site 44
LOCATION: ARF (Section 4.2 Binder)

DOCUMENT NUMBER: PEA (4.2) #13 001-f7-11
LONG TITLE: Final Supplement to Zone 3 Draft Final Feasibility Study
AUTHOR: USEPA
RECIPIENT: USAFBCA
DATE: 23 May 1995
TYPE: Report
SECOND REFERENCE: Zone 3
LOCATION: ARF (Zone 3 Shelf)

DOCUMENT NUMBER: PEA (4.2) #14 iii-D10
LONG TITLE: Brooks/Ditches Remedial Investigation/Feasibility Study Consolidated Report - Revised DRAFT FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: AFBCA
DATE: November 1996
TYPE: RI/FS Report
SECOND REFERENCE: Brooks/Ditches RI/FS
LOCATION: ARF

4.3 Proposed Plan

DOCUMENT NUMBER: PEA (4.3) #1 001-R1
LONG TITLE: Installation Restoration Program, Proposed Plan for Zone 3, Pease AFB, NH
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: January 1994
TYPE: Proposed Plan
SECOND REFERENCE: Zone 3
LOCATION: ARF (Zone 3 Shelf)

DOCUMENT NUMBER: PEA (4.3) #2 001-R.1
LONG TITLE: Installation Restoration Program Proposed Plan for IRP Zone 1, Pease AFB, NH
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: July 1994
TYPE: Proposed Plan
SECOND REFERENCE: Zone 1
LOCATION: ARF (Zone 1 Shelf)

DOCUMENT NUMBER: PEA (4.3) #11 - DELETED

DOCUMENT NUMBER: PEA (4.3) #3 001-R.1
LONG TITLE: Installation Restoration Program, Proposed Plan for Zone 3, Pease Air Force Base, NH
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: June 1995
TYPE: Proposed Plan
SECOND REFERENCE: Zone 3
LOCATION: ARF (Zone 3 Shelf)

4.4 Supplements and Revisions to the Proposed Plan

DOCUMENT NUMBER: PEA (4.4) #1 001-005
LONG TITLE: Cost Estimate Error for Zone 1 Alternative MM-2
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: Arthur Ditto, AFBCA
DATE: 18 July 1994
TYPE: Revised Cost Estimate
SECOND REFERENCE: Zone 1; PEA (4.3)
LOCATION: ARF (Section 4.4 Binder)

4.5 Correspondence

DOCUMENT NUMBER: PEA (4.5) #1 001-001
LONG TITLE: Submittal of Draft Final Primary Document, Landfill 5 Feasibility Study Report
AUTHOR: USAF
RECIPIENT: Richard Pease, NHDES
DATE: Unknown
TYPE: Letter
SECOND REFERENCE: Landfill 5
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #2 001-002
LONG TITLE: Applicable or Relevant and Appropriate Requirements (ARARs)
AUTHOR: Richard Pease, NHDES
RECIPIENT: Art Ditto, Pease AFB
DATE: 25 November 1991
TYPE: Letter
SECOND REFERENCE: PEA (6.4)
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #3 001-001
LONG TITLE: Submittal of Secondary Document
AUTHOR: USAF
RECIPIENT: Richard Pease, NHDES
DATE: 09 January 1992
TYPE: Letter
SECOND REFERENCE: Site 32/36; Site 34
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #4 001-001
LONG TITLE: Submittal of Secondary Document
AUTHOR: USAF
RECIPIENT: Johanna Hunter, EPA
DATE: 09 January 1992
TYPE: Letter
SECOND REFERENCE: Site 32/36; Site 34
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #5 001-001
LONG TITLE: Landfill 3 Decision Document
AUTHOR: USAF
RECIPIENT: Edward S. Barnes, Roy F. Weston, Inc.
DATE: 03 February 1992
TYPE: Letter
SECOND REFERENCE: Landfill 3
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.3) #6 001-001
LONG TITLE: Request for Deadline Extension for Review of the Draft IRP Site 5
Feasibility Report Dated April 1992
AUTHOR: Johanna Hunter, EPA
RECIPIENT: Art Ditto, Pease AFB
DATE: 22 May 1992
TYPE: Letter
SECOND REFERENCE: Site 5
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #7 001-001
LONG TITLE: Document Submittals
AUTHOR: USAF
RECIPIENT: Johanna Hunter, EPA
Richard Pease, NHDES
DATE: 26 May 1992
TYPE: Letter
SECOND REFERENCE: Pea (10.1); Site 34
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #8 001-001
LONG TITLE: Submittal of Landfill 5 Draft Proposed Plan
AUTHOR: USAF
RECIPIENT: Johanna Hunter, EPA
DATE: 12 August 1992
TYPE: Letter
SECOND REFERENCE: Landfill 5
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #9 001-001
LONG TITLE: Submittal of Landfill 5 Draft Proposed Plan
AUTHOR: USAF
RECIPIENT: Richard Pease, NHDES
DATE: 12 August 1992
TYPE: Letter
SECOND REFERENCE: Landfill 5
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #10 001-003
LONG TITLE: Landfill 5 Source Area Draft Final Feasability Study Report
AUTHOR: Edward S. Barnes, Roy F. Weston, Inc.
RECIPIENT: USAF
Johanna Hunter, EPA
Richard Pease, NHDES
DATE: 14 August 1992
TYPE: Letter
SECOND REFERENCE: Landfill 5
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #11 001-001
LONG TITLE: Submittal of Draft Final Primary Document, Landfill 5 Feasibility Study Report
AUTHOR: USAF
RECIPIENT: Johanna Hunter, EPA
DATE: 18 August 1992
TYPE: Letter
SECOND REFERENCE: Landfill 5
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #12 001-001
LONG TITLE: Submittal of Draft Final Primary Document, Landfill 5 Feasibility Study Report
AUTHOR: USAF
RECIPIENT: Richard Pease, NHDES
DATE: 18 August 1992
TYPE: Letter
SECOND REFERENCE: Landfill 5
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #13 001-001
LONG TITLE: Landfill 5 Draft Proposed Plan
AUTHOR: USAF
RECIPIENT: Johanna Hunter, EPA
Richard Pease, NHDES
DATE: 17 November 1992
TYPE: Letter
SECOND REFERENCE: Landfill 5
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #14 001-001
LONG TITLE: Determination of Site Boundaries at the Time of Remedial Action
Implementation (Will Migrate to Proposal)
AUTHOR: USAF
RECIPIENT: Johanna Hunter, EPA
Richard Pease, NHDES
DATE: 2 December 1992
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #15 001-002
LONG TITLE: Request for Deadline Extension
AUTHOR: USAF
RECIPIENT: Johanna Hunter, EPA
Richard Pease, NHDES
DATE: 4 December 1992
TYPE: Letter
SECOND REFERENCE: Site 34
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #16 001-001
LONG TITLE: Submittal of Draft Secondary Document, Zone 3 Initial Screening of Alternatives
AUTHOR: Arthur Ditto, Pease AFB
RECIPIENT: Johanna Hunter, EPA
DATE: 17 May 1993
TYPE: Letter
SECOND REFERENCE: Zone 3
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #17 001-001
LONG TITLE: Submittal of Draft Secondary Document, Zone 3 Initial Screening of Alternatives
AUTHOR: Arthur Ditto, Pease AFB
RECIPIENT: Richard Pease, NHDES
DATE: 17 May 1993
TYPE: Letter
SECOND REFERENCE: Zone 3
LOCATION: ARF (Zone 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #18 001-001
LONG TITLE: Submittal of Draft Secondary Document, Zone 1 Initial Screening of Alternatives
AUTHOR: Arthur Ditto, Pease AFB
RECIPIENT: Richard Pease, NHDES
DATE: 3 June 1993
TYPE: Letter
SECOND REFERENCE: Zone 1
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #19 001-001
LONG TITLE: Submittal of Draft Secondary Document, Zone 1 Initial Screening of Alternatives
AUTHOR: Arthur Ditto, Pease AFB
RECIPIENT: Mike Daly, EPA Region I
DATE: 3 June 1993
TYPE: Letter
SECOND REFERENCE: Zone 1
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #20 001-001
LONG TITLE: Submittal of Proposed Plans for Landfills 2 and 4 and Landfill 5
AUTHOR: Arthur Ditto, Pease AFB
RECIPIENT: Mike Daly, EPA Region I
Richard Pease, NHDES
DATE: 25 June 1993
TYPE: Letter
SECOND REFERENCE: Landfill 2, Landfill 4, Landfill 5
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #21 001-003
LONG TITLE: Former Pease AFB, Surface Water Issues
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, Pease AFB
DATE: 29 November 1993
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #22 001-001
LONG TITLE: Regional Groundwater Model
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: John Regan, NHDES
DATE: 3 June 1994
TYPE: Letter
SECOND REFERENCE: Haven Well
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #23 001-001
LONG TITLE: Memo for the Record
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Pease Air Force Base Administrative Record File
DATE: 21 July 1994
TYPE: Memorandum
SECOND REFERENCE: Landfill 5
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #24 001-002
LONG TITLE: Zone 1 Feasibility Study Report, Pease Air Force Base, NH
AUTHOR: Mike Daly, EPA Region I
RECIPIENT: Arthur Ditto, AFBCA
DATE: 01 August 1994
TYPE: Letter with attachment
SECOND REFERENCE: Zone 1; Landfill 5
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #25 001-001
LONG TITLE: Zone 1 Feasibility Study
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Mike Daly, EPA Region I
DATE: 11 October 1994
TYPE: Letter
SECOND REFERENCE: Zone 1
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #26 001-001
LONG TITLE: ARARs
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Richard Pease, NHDES
DATE: 01 December 1994
TYPE: Letter
SECOND REFERENCE: Zone 5; Site 8
LOCATION: ARF (Zone 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #27 001-007
LONG TITLE: Supplement to the Zone 3 Draft Final Feasibility Study
AUTHOR: Mike Daly, EPA Region I
RECIPIENT: Arthur Ditto, AFBCA
DATE: 10 February 1995
TYPE: Letter with attachment
SECOND REFERENCE: Zone 3; PEA (4.2)
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #28 001-010
LONG TITLE: Zone 3 Draft Proposed Plan
AUTHOR: Mike Daly, EPA Region I
RECIPIENT: Arthur Ditto, AFBCA
DATE: 13 February 1995
TYPE: Letter with attachment
SECOND REFERENCE: Zone 3; PEA (5.1)
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #29 001-004
LONG TITLE: Natural Attenuation Modeling for Zones 2 and 3 at Pease Air Force Base, New Hampshire
AUTHOR: Lee de Persia, Roy F. Weston, Inc.
RECIPIENT: Arthur Ditto, AFBCA
DATE: 16 February 1995
TYPE: Letter
SECOND REFERENCE: Zone 2; Zone 3
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #30 001-001
LONG TITLE: Forwarding Various IRP Documents
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Ronald Gehl, SCOPE
DATE: 28 February 1995
TYPE: Letter
SECOND REFERENCE: PEA (10.0)
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #31 001-003
LONG TITLE: Site 5 Attenuation
AUTHOR: Lee de Persia, Roy F. Weston, Inc.
RECIPIENT: Arthur Ditto, AFBCA
DATE: April 1994
TYPE: Fax
SECOND REFERENCE: Landfill 5
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #32 001-001
LONG TITLE: Basewide Interim Monitoring Report No. 5
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Mike Daly, EPA Region I
Richard Pease, NHDES
DATE: 26 June 1995
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #33 001-005
LONG TITLE: RE: Draft Brooks/Ditches Remedial Investigation Feasibility Study Consolidated Report, Pease Air Force Base - November 1995
AUTHOR: Michael J. Daly, EPA Region I
RECIPIENT: Arthur Ditto, P.E., AFBCA
DATE: 19 December 1995
TYPE: Letter & EPA Comments
SECOND REFERENCE: Brooks & Ditches RI/FS Consolidated Report (3.6 4.2)
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #34 1001-015
LONG TITLE: Pease AFB Brooks Ditches Draft Final RI/FS Consolidated Report
AUTHOR: Lee F. dePersia, Roy F. Weston, Inc.
RECIPIENT: Jim Snyder, AFCEE Base Closure Division
DATE: 08 May 1996
TYPE: Forwarding Letter & Response to Comments
SECOND REFERENCE: Brooks/Ditches RI/FS Consolidated Report (3.6 4.2)
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #35 001-004
LONG TITLE: Draft Final Brooks and Ditches RI/FS and Air Force Response to the Department's Review Comments on the Draft Brooks and Ditches RI/FS
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, AFBCA
DATE: 25 June 1996
TYPE: Letter & Response to Comments
SECOND REFERENCE: Brooks and Ditches
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #36 001-005
LONG TITLE: Draft Final Brooks/Ditches Remedial Investigational/Feasibility Study
Consolidated Report, Pease ARB, May 1996
AUTHOR: Michael Daly, USEPA
RECIPIENT: Arthur Ditto, AFBCA
DATE: 28 June 1996
TYPE: Letter & Response to Comments
SECOND REFERENCE: Brooks and Ditches
LOCATION: ARF (Section 4.5 Binder)

DOCUMENT NUMBER: PEA (4.5) #37 001-001
LONG TITLE: Brooks and Ditches and Operable Unit (OU)
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Mike Daly, USEPA
DATE: 25 February 1997
TYPE: Letter
SECOND REFERENCE: Brooks and Ditches
LOCATION: ARF (Section 4.5 Binder)

5.1 ROD

DOCUMENT NUMBER: PEA (5.1) #1 001-12.1
LONG TITLE: U.S. Air Force Installation Restoration Program, Pease AFB, Record of
Decision for a Source Area Remedial Action at Landfill 5
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: September 1993
TYPE: ROD
SECOND REFERENCE: Landfill 5
LOCATION: ARF (Landfill 5 Shelf)

DOCUMENT NUMBER: PEA (5.1) #2 001-D97
LONG TITLE: Record of Decision, Zone 1, Pease Air Force Base, New Hampshire - FINAL
AUTHOR: USAF
RECIPIENT: EPA
NHDES
DATE: July 1995
TYPE: ROD
SECOND REFERENCE: Zone 1
LOCATION: ARF

DOCUMENT NUMBER: PEA (5.1) #3 001-D139
LONG TITLE: Record of Decision, Zone 3, Pease AFB, NH -FINAL
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: AFBCA
DATE: September 1995
TYPE: ROD
SECOND REFERENCE: Zone 3
LOCATION: ARF (Zone 3 Shelf)

5.2 Amendments to ROD

* NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

5.3 Explanations of Significant Differences

* NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

5.4 Correspondence

DOCUMENT NUMBER: PEA (5.4) #1 001-001
LONG TITLE: Region I ROD Model Language
AUTHOR: USAF
RECIPIENT: Johanna Hunter, EPA
DATE: Unknown
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 5.4 Binder)

DOCUMENT NUMBER: PEA (5.4) #2 001-002
LONG TITLE: Pease AFB IRP ROD Review Process
AUTHOR: Arthur Ditto, AFBCA/OL-A
RECIPIENT: AFBCA/NE
DATE: 15 December 1993
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 5.4 Binder)

DOCUMENT NUMBER: PEA (5.4) #3 001-002
LONG TITLE: Getting to a ROD, Revised Milestones
AUTHOR: Arthur Ditto, Pease, AFB
RECIPIENT: Michael Daly, EPA
Richard Pease, NHDES
DATE: 4 February 1994
TYPE: Letter
SECOND REFERENCE: Zone 1; Zone 2; Zone 3; Zone 4 Site 32/36
LOCATION: ARF (Section 5.4 Binder)

DOCUMENT NUMBER: PEA (5.4) #4 001-002
LONG TITLE: Signing of CERCLA RODs
AUTHOR: Arthur Ditto, AFBCA/OL-A
RECIPIENT: AFBCA/NE
DATE: 24 May 1994
TYPE: Memorandum
SECOND REFERENCE: Site 8; Zone 5
LOCATION: ARF (Section 5.4 Binder)

DOCUMENT NUMBER: PEA (5.4) #5 001-001
LONG TITLE: Railway Ditch Sediment Removal
AUTHOR: Arthur Ditto, AFBCA/OL-A
RECIPIENT: Mike Daly, EPA Region I
Richard Pease, NHDES
DATE: 28 July 1994
TYPE: Letter
SECOND REFERENCE: Railway Ditch; Zone 1; Landfill 5
LOCATION: ARF (Section 5.4 Binder)

DOCUMENT NUMBER: PEA (5.4) #6 001-002
LONG TITLE: Getting to a ROD
AUTHOR: Arthur Ditto, AFBCA/OL-A
RECIPIENT: Mike Daly, EPA Region I
Richard Pease, NHDES
DATE: 15 August 1994
TYPE: Letter
SECOND REFERENCE: Zone 1; Zone 2; Zone 3; Zone 4; Site 32/36; Site 45
LOCATION: ARF (Section 5.4 Binder)

DOCUMENT NUMBER: PEA (5.4) #7 001-001
LONG TITLE: Landfill 5 Remedial Action
AUTHOR: Arthur Ditto, AFBCA/OL-A
RECIPIENT: Mike Daly, EPA Region I
Richard Pease, NHDES
DATE: 30 September 1994
TYPE: Letter
SECOND REFERENCE: Landfill 5
LOCATION: ARF (Section 5.4 Binder)

DOCUMENT NUMBER: PEA (5.4) #8 001-006
LONG TITLE: Document Review Schedule
AUTHOR: Arthur Ditto, AFBCA/OL-A
RECIPIENT: Mike Daly, EPA Region I
Richard Pease, NHDES
DATE: 14 November 1994
TYPE: Letter with attachment
SECOND REFERENCE: Zone 1; Zone 2; Zone 3; Zone 4; Site 32/36; Site 45
LOCATION: ARF (Section 5.4 Binder)

DOCUMENT NUMBER: PEA (5.4) #9 001-002
LONG TITLE: Additional Requests for Additional Documents for EPA Review
AUTHOR: Arthur Ditto, AFBCA/OL-A
RECIPIENT: Mike Daly, EPA Region I
DATE: 12 December 1994
TYPE: Letter
SECOND REFERENCE: Zone 1; Zone 2; Zone 3; Zone 4; Site 32 36; Site 34
LOCATION: ARF (Section 5.4 Binder)

DOCUMENT NUMBER: PEA (5.4) #10 001-003
LONG TITLE: Pease Air Force Base Zone 1 Record of Decision
AUTHOR: Lee de Persia, Roy F. Weston, Inc.
RECIPIENT: Arthur Ditto, AFBCA
DATE: 16 February 1995
TYPE: Letter
SECOND REFERENCE: Zone 1
LOCATION: ARF (Section 5.4 Binder)

DOCUMENT NUMBER: PEA (5.4) #11 001-003
LONG TITLE: Project Status and Schedule, Pease Air Force Base, Newington, New Hampshire
AUTHOR: Mary Sanderson, EPA
RECIPIENT: Arthur Ditto, AFBCA
DATE: 02 March 1995
TYPE: Letter with attachments
SECOND REFERENCE: None
LOCATION: ARF (Section 5.4 Binder)

DOCUMENT NUMBER: PEA (5.4) #12 001-001
LONG TITLE: Submittal of Draft Zone 1 Record of Decision
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Michael Daly, EPA
Richard Pease, NHDES
DATE: 11 August 1994
TYPE: Letter
SECOND REFERENCE: Zone 1
LOCATION: ARF (Section 5.4 Binder)

DOCUMENT NUMBER: PEA (5.4) #13 001-001
LONG TITLE: Draft Zone 1 ROD Review
AUTHOR: Arthur Ditto, AFBCA/OL-A
RECIPIENT: John Corradetti, AFBCA/NE
DATE: 11 August 1994
TYPE: Memorandum
SECOND REFERENCE: Zone 1
LOCATION: ARF (Section 5.4 Binder)

DOCUMENT NUMBER: PEA (5.4) #14 001-002
LONG TITLE: Landfill 5 Closure
AUTHOR: Arthur Ditto
RECIPIENT: Michael Daly, EPA
Richard Pease, NHDES
DATE: 08 March 1995
TYPE: Letter
SECOND REFERENCE: Landfill 5
LOCATION: ARF (Section 5.4 Binder)

DOCUMENT NUMBER: PEA (5.4) #15 001-001
LONG TITLE: Zone 1 ROD, Final Acceptance
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Richard Pease, NHDES
DATE: 17 March 1995
TYPE: Letter
SECOND REFERENCE: Zone 1
LOCATION: ARF (Section 5.4 Binder)

DOCUMENT NUMBER: PEA (5.4) #16 001-002
LONG TITLE: Zone 1 Record of Decision
AUTHOR: Arthur Ditto, AFBCA/OL-A
RECIPIENT: Hank Lowman, AFBCA/NE
DATE: 13 April 1995
TYPE: Memorandum
SECOND REFERENCE: Zone 1; PEA (5.1) #6 001-D-97
LOCATION: ARF (Section 5.4 Binder)

DOCUMENT NUMBER: PEA (5.4) #17 001-003
LONG TITLE: Record of Decision for Zone 1 at the Pease Air Force Base Superfund Site;
Newington and Portsmouth, New Hampshire; Declaration of Concurrence
AUTHOR: Robert W. Varney, NHDES Commissioner
RECIPIENT: Alan K. Olsen, Director, AFBCA
DATE: 13 April 1995
TYPE: Letter of Concurrence
SECOND REFERENCE: Zone 1; PEA (5.1) #6 001-D-97
LOCATION: ARF (Section 5.4 Binder)

DOCUMENT NUMBER: PEA (5.4) #18 001-001
LONG TITLE: Zone 1 Record of Decision (ROD)
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Mike Daly, EPA Region I
DATE: 20 June 1995
TYPE: Letter
SECOND REFERENCE: Zone 1 ROD; PEA (5.1)
LOCATION: ARF (Section 5.4 Binder)

DOCUMENT NUMBER: PEA (5.4) #19 001-001
LONG TITLE: Draft Zone 3 Record of Decision (ROD)
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Hank Lowman, AFBCA/NE
DATE: 22 June 1995
TYPE: Memorandum
SECOND REFERENCE: Draft Zone 3 ROD; PEA (5.1)
LOCATION: ARF (Section 5.4 Binder)

DOCUMENT NUMBER: PEA (5.4) #20 001-001
LONG TITLE: Zone 1 Record of Decision Document
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: Jim Snyder, AFCEE/ESB
DATE: 20 July 1995
TYPE: Letter
SECOND REFERENCE: Zone 1 ROD
LOCATION: ARF (Section 5.4 Binder)

DOCUMENT NUMBER: PEA (5.4) #21 001-001
LONG TITLE: Zone 1 Record of Decision Document
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: Richard Pease, NHDES
DATE: 20 July 1995
TYPE: Letter
SECOND REFERENCE: Zone 1 ROD
LOCATION: ARF (Section 5.4 Binder)

DOCUMENT NUMBER: PEA (5.4) #22 001-001
LONG TITLE: Zone 1 Record of Decision Document
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: Mike Daly, EPA Region I
DATE: 20 July 1995
TYPE: Letter
SECOND REFERENCE: Zone 1 ROD
LOCATION: ARF (Section 5.4 Binder)

DOCUMENT NUMBER: PEA (5.4) #23 001-001
LONG TITLE: Finalized Record of Decision for Zone 1
AUTHOR: Arthur Ditto, AFBCa
RECIPIENT: John Corradetti, AFBCA/NE
DATE: 24 July 1995
TYPE: Letter
SECOND REFERENCE: Zone 1
LOCATION: ARF (Section 5.4 Binder)

DOCUMENT NUMBER: PEA (5.4) #24 001-A71
LONG TITLE: Zone 3 Draft ROD Comments Pease AFB
AUTHOR: Michael Daly, EPA
RECIPIENT: Arthur Ditto
DATE: 02 August 1995
TYPE: Letter & Comments
SECOND REFERENCE: Zone 3
LOCATION: ARF (Section 5.4 Binder)

DOCUMENT NUMBER: PEA (5.4) #25 001-005
LONG TITLE: Zone 3 Record of Decision Comments
AUTHOR: Gary S. Lynn, NHDES
RECIPIENT: Arthur Ditto, AFBCA
DATE: 04 August 1995
TYPE: Letter & Comments
SECOND REFERENCE: Zone 3 ROD (5.1)
LOCATION: ARF (Section 5.4 Binder)

DOCUMENT NUMBER: PEA (5.4) #26 001-005
LONG TITLE: Submission of Signed Zone 3 ROD - FINAL
AUTHOR: Lee dePersia, Roy F. Weston, Inc.
RECIPIENT: Jim Snyder, AFCEE Base Closure Division
DATE: 23 August 1995
TYPE: Forwarding Letter
SECOND REFERENCE: Zone 3 ROD (5.1)
LOCATION: ARF (Section 5.4 Binder)

DOCUMENT NUMBER: PEA (5.4) #27 001-001
LONG TITLE: Submission of Signed Zone 3 ROD - FINAL
AUTHOR: Arthur Ditto, AFBCA OL-A
RECIPIENT: Hank Lowman, AFBCA/NE
DATE: 24 August 1995
TYPE: Forwarding Letter
SECOND REFERENCE: Zone 3 ROD (5.1)
LOCATION: ARF (Section 5.4 Binder)

DOCUMENT NUMBER: PEA (5.4) #28 001-025
LONG TITLE: Comments on the Zone 3 Record of Decision
AUTHOR: Michael Daly, EPA
RECIPIENT: Arthur Ditto, AFBCA
DATE: 08 September 1995
TYPE: Comments
SECOND REFERENCE: Zone 3 ROD (5.1)
LOCATION: ARF (Section 5.4 Binder)

DOCUMENT NUMBER: PEA (5.4) #29 001-002
LONG TITLE: Zone 3 Draft ROD Review Comments
AUTHOR: Gary S. Lynn, NHDES
RECIPIENT: Arthur Ditto, AFBCA
DATE: 12 September 1995
TYPE: Comments
SECOND REFERENCE: Zone 3 ROD (5.1)
LOCATION: ARF (Section 5.4 Binder)

DOCUMENT NUMBER: PEA (5.4) #30 001-002
LONG TITLE: Signature Copy of the Pease AFB Zone 3 and Site 32/36 ROD
AUTHOR: Lee dePersia, Roy F. Weston, Inc.
RECIPIENT: Arthur Ditto, AFBCA
DATE: 15 September 1995
TYPE: Comments
SECOND REFERENCE: Zone 3 and Site 32/36 RODs (5.1)
LOCATION: ARF (Section 5.4 Binder)

DOCUMENT NUMBER: PEA (5.4) #31 001-001
LONG TITLE: Pease AFB Brooks Ditches Draft Record of Decision, Contract No. F41624-92-D-8009, Delivery Order 06, Document Control No. Pease 02280AGQ
AUTHOR: Lee R. dePersia, Roy F. Weston, Inc.
RECIPIENT: Arthur Ditto, AFBCA
DATE: 28 February 1997
TYPE: Delivery Letter
SECOND REFERENCE: Brooks and Ditches
LOCATION: ARF (Section 5.4 Binder)

6.1 Cooperative Agreements/SMOAs

DOCUMENT NUMBER: PEA (6.1) #1 001-013
LONG TITLE: Memorandum of Understanding Executed Between the Town of Newington, NH, and Pease Air Force Base, NH
AUTHOR: Town of Newington/USAF
RECIPIENT: USAF
DATE: 22 August 1980
TYPE: Memorandum of Understanding
SECOND REFERENCE: None
LOCATION: ARF (Section 6.1 Binder)

DOCUMENT NUMBER: PEA (6.1) #2 001-004
LONG TITLE: Memorandum of Understanding (MOU) between the U.S. Air Force Occupational and Environmental Health Laboratory (USAFOEHL) and Pease Air Force Base relating to procedures for conducting the IRP
AUTHOR: U.S. Department of the Air Force
RECIPIENT: Pease AFB
DATE: 31 July 1987
TYPE: Memorandum of Understanding
SECOND REFERENCE: None
LOCATION: ARF (Section 6.1 Binder)

DOCUMENT NUMBER: PEA (6.1) #31 001-020
LONG TITLE: Defense and State Memorandum of Agreement
AUTHOR: USAF
RECIPIENT: NHDES
DATE: 14 December 1992
TYPE: DSMOA
SECOND REFERENCE: None
LOCATION: ARF (Section 6.1 Binder)

6.2 Federal Facility Agreement (FFA)

DOCUMENT NUMBER: PEA (6.2) #1 001-097
LONG TITLE: Federal Facility Agreement under CERCLA Section 120
AUTHOR: EPA: State of New Hampshire; USAF
RECIPIENT: EPA: NHDES; USAF
DATE: 24 April 1991
TYPE: Federal Facility Agreement
SECOND REFERENCE: None
LOCATION: ARF (Section 6.2 Binder)

DOCUMENT NUMBER: PEA (6.2) #2 001-003
LONG TITLE: Remedial Project Managers Meeting Minutes
AUTHOR: Pease Air Force Base
RECIPIENT: See Distribution List
DATE: 16 January 1991
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: Section 6.2 Binder)

DOCUMENT NUMBER: PEA (6.2) #3 001-003
LONG TITLE: Remedial Project Managers Meeting Minutes
AUTHOR: Pease Air Force Base
RECIPIENT: See Distribution List
DATE: 20 February 1991
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 6.2 Binder)

DOCUMENT NUMBER: PEA (6.2) #4 001-003
LONG TITLE: Remedial Project Managers Meeting Minutes
AUTHOR: Pease Air Force Base
RECIPIENT: See Distribution List
DATE: 20 March 1991
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 6.2 Binder)

DOCUMENT NUMBER: PEA (6.2) #5 001-002
LONG TITLE: Remedial Project Managers Meeting Minutes
AUTHOR: Pease Air Force Base
RECIPIENT: See Distribution List
DATE: 17 April 1991
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 6.2 Binder)

DOCUMENT NUMBER: PEA (6.2) #6 001-002
LONG TITLE: Remedial Project Managers Meeting Minutes
AUTHOR: Pease Air Force Base
RECIPIENT: See Distribution List
DATE: 21 May 1991
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 6.2 Binder)

DOCUMENT NUMBER: PEA (6.2) #7 001-002
LONG TITLE: Remedial Project Managers Meeting Minutes
AUTHOR: Pease Air Force Base
RECIPIENT: See Distribution List
DATE: 24 June 1991
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 6.2 Binder)

DOCUMENT NUMBER: PEA (6.2) #8 001-II.4
LONG TITLE: Modification 1 to Pease AFB Federal Facilities Agreement
AUTHOR: USAF
RECIPIENT: Michael Daly, EPA
Richard Pease, NHDES
DATE: 8 September 1993
TYPE: FFA Modification
SECOND REFERENCE: None
LOCATION: ARF (Section 6.2 Binder)

DOCUMENT NUMBER: PEA (6.2) #9 001-Attachment B
LONG TITLE: Submittal of the Quarterly Report for First Quarter 1995
AUTHOR: Mark McKenzie, AFBCA
RECIPIENT: Michael Daly, EPA
Richard Pease, NHDES
DATE: 23 May 1995
TYPE: Report
SECOND REFERENCE: None
LOCATION: ARF (Section 6.2 Binder)

6.3 Coordination-State/Federal

DOCUMENT NUMBER: PEA (6.3) #1 001-003
LONG TITLE: Meeting Minutes From Air Force Meeting With State Officials Concerning
Pease Air Force Base IRP
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 11 March 1987
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3) #2 001-002
LONG TITLE: Agenda for Meeting with State DES, Air Force, and EPA Technical Team
AUTHOR: Pease Air Force Base
RECIPIENT: See Distribution List
DATE: 26 April 1990
TYPE: Agenda
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3) #3 001-031
LONG TITLE: Completed Applications for Department of the Army Permit (ENG Form 435) and
New Hampshire Wetlands Board Permit
AUTHOR: Department of the Air Force
RECIPIENT: Army Corps of Engineers, New England Division
DATE: 31 August 1989
TYPE: Letter and Attachments
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3) #4 001-002
LONG TITLE: Letter Regarding Emergency Discharge Exclusion From the Requirement for a Permit under the National Pollutant Discharge Elimination System (NPDES)
AUTHOR: EPA
RECIPIENT: USAF
DATE: 29 September 1989
TYPE: Letter
SECOND REFERENCE: NPDES
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3) #5 001-002
LONG TITLE: Letter in Response to Air Force Question Regarding Necessity of a Permit for the Proposed Landfill Cleanup Operation
AUTHOR: Department of the Army
RECIPIENT: USAF
DATE: 17 October 1989
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3) #6 001-001
LONG TITLE: Agenda and Notes for Working Meeting with U.S. and State of New Hampshire
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 21 November 1989
TYPE: Agenda and Meeting Notes
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3) #7 001-025
LONG TITLE: Letter Response to Air Force Letter of 22 August 1990 Regarding CERCLA Remedial Actions at Pease Air Force Base, 404 Permit Not Required
AUTHOR: Department of the Army
RECIPIENT: USAF
DATE: 3 October 1990
TYPE: Response Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3) #8 001-033
LONG TITLE: Point Paper on Installation Restoration Program (Pease AFB) and Attachments (Prepared for a meeting of J. Coit and M. Aldrich, of Senator Humphrey's office, with Pease, NHDES, WESTON, and OEHL)
AUTHOR: USAF
RECIPIENT: J. Coit & M. Aldrich of Senator Humphrey's Office
DATE: 31 March 1989
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3) #9 001-003
LONG TITLE: Recommendation to Place Pease AFB on the National Priority List (NPL)
AUTHOR: USAF
RECIPIENT: EPA
DATE: 27 June 1989
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3)#10 001-004
LONG TITLE: Remedial Project Managers' Meeting Minutes of January 16, 1991
AUTHOR: Arthur Ditto, USAF
RECIPIENT: See Distribution List
DATE: 16 January 1991
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3)#11 001-004
LONG TITLE: Remedial Project Managers' Meeting Minutes of February 20, 1991
AUTHOR: Arthur Ditto, USAF
RECIPIENT: See Distribution List
DATE: 20 February 1991
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3)#12 001-004
LONG TITLE: Remedial Project Managers' Meeting Minutes
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 20 March 1991
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3)#13 001-004
LONG TITLE: Remedial Project Managers' Meeting Minutes
AUTHOR: Arthur Ditto, USAF
RECIPIENT: See Distribution List
DATE: 17 April 1991
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3)#14 001-004
LONG TITLE: Remedial Project Managers' Meeting Minutes
AUTHOR: Arthur Ditto, USAF
RECIPIENT: See Distribution List
DATE: 21 May 1991
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3)#15 001-004
LONG TITLE: Notification of Additional Investigative Work in a Wetland
AUTHOR: USAF
RECIPIENT: NHDES
DATE: 14 June 1991
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3)#16 001-004
LONG TITLE: Remedial Project Managers' Meeting Minutes
AUTHOR: Arthur Ditto, USAF
RECIPIENT: See Distribution List
DATE: 24 June 1991
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3)#17 001-003
LONG TITLE: Remedial Project Managers' Meeting Minutes
AUTHOR: Arthur Ditto, USAF
RECIPIENT: See Distribution List
DATE: 24 July 1991
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3)#18 001-004
LONG TITLE: Remedial Project Managers' Meeting Minutes
AUTHOR: Arthur Ditto, USAF
RECIPIENT: See Distribution List
DATE: 21 August 1991
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3)#19 001-004
LONG TITLE: Remedial Project Managers' Meeting Minutes
AUTHOR: Arthur Ditto, USAF
RECIPIENT: See Distribution List
DATE: 26 September 1991
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3)#20 001-004
LONG TITLE: Remedial Project Managers' Meeting Minutes
AUTHOR: Arthur Ditto, USAF
RECIPIENT: See Distribution List
DATE: 27 October 1991
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3)#21 001-003
LONG TITLE: Remedial Project Managers' Meeting Minutes
AUTHOR: Arthur Ditto, USAF
RECIPIENT: See Distribution List
DATE: 20 November 1991
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3)#22 001-003
LONG TITLE: Remedial Project Managers' Meeting Minutes of January 27, 1992
AUTHOR: Arthur Ditto, USAF
RECIPIENT: See Distribution List
DATE: 19 December 1991
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3)#23 001-003
LONG TITLE: Remedial Project Managers' Meeting Minutes
AUTHOR: Arthur Ditto, USAF
RECIPIENT: See Distribution List
DATE: 27 January 1992
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3)#24 001-003
LONG TITLE: Remedial Project Managers' Meeting Minutes
AUTHOR: Arthur Ditto, USAF
RECIPIENT: See Distribution List
DATE: 25 February 1992
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3)#25 001-002
LONG TITLE: Remedial Project Managers' Meeting Minutes
AUTHOR: Arthur Ditto, USAF
RECIPIENT: See Distribution List
DATE: 07 April 1992
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3)#25 001-004
LONG TITLE: NH Wetlands Permit for National List Related Work
AUTHOR: USAF
RECIPIENT: NHDES
DATE: 24 April 1992
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3)#27 001-002
LONG TITLE: Remedial Project Managers' Meeting Minutes
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 22 April 1992
TYPE: Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3)#28 001-008
LONG TITLE: Remedial Project Managers' Meeting Minutes
AUTHOR: Arthur Ditto, USAF
RECIPIENT: See Distribution List
DATE: 3 June 1992
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3)#29 001-003
LONG TITLE: Remedial Project Managers' Meeting Minutes
AUTHOR: Arthur Ditto, USAF
RECIPIENT: See Distribution List
DATE: 21 August 1992
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3)#30 001-003
LONG TITLE: Remedial Project Managers' Meeting Minutes
AUTHOR: Arthur Ditto, USAF
RECIPIENT: See Distribution List
DATE: 10 September 1992
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3)#31 001-002
LONG TITLE: Remedial Project Managers' Meeting Minutes
AUTHOR: Arthur Ditto, USAF
RECIPIENT: See Distribution List
DATE: 20 October 1992
TYPE: Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3)#32 001-003
LONG TITLE: Application of the Reasonable Maximum Exposure (RME) in Risk Assessments;
Request for Site Specific Justification for Using the "Average Maximum"
AUTHOR: Richard Pease, NHDES
RECIPIENT: Art Ditto, Pease AFB
Johanna Hunter, EPA
Capt. Woerhle, AFCEE
DATE: 22 October 1992
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3)#33 001-001
LONG TITLE: Guidebook for Environmental Permits in New Hampshire
AUTHOR: Richard Pease, NHDES
RECIPIENT: Art Ditto, Pease AFB
Johanna Hunter, EPA
DATE: 4 November 1992
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3)#34 001-Attachment 6
LONG TITLE: Quarterly Report, Second Quarter 1991
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA; NHDES; USAF
DATE: 19 July 1991
TYPE: Quarterly Report
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder); Arthur Ditto's office files

DOCUMENT NUMBER: PEA (6.3)#35 001-034
LONG TITLE: Quarterly Report, Third Quarter 1991
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA; NHDES; USAF
DATE: 24 October 1991
TYPE: Quarterly Report, Transmittal Letters
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder); Arthur Ditto's office files

DOCUMENT NUMBER: PEA (6.3)#36 001-030
LONG TITLE: Quarterly Report, Fourth Quarter 1991
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA; NHDES; USAF
DATE: 14 January 1992
TYPE: Quarterly Report
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder); Arthur Ditto's office files

DOCUMENT NUMBER: PEA (6.3)#37 001-020
LONG TITLE: Quarterly Report, First Quarter 1992
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA; NHDES; USAF
DATE: 15 April 1992
TYPE: Quarterly Report
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder); Arthur Ditto's office files

DOCUMENT NUMBER: PEA (6.3)#38 001-032
LONG TITLE: Quarterly Report, Second Quarter 1992
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA; NHDES; USAF
DATE: 14 July 1992
TYPE: Quarterly Report
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder); Arthur Ditto's office files

DOCUMENT NUMBER: PEA (6.3)#39 001-043
LONG TITLE: Quarterly Report, Third Quarter 1992
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA; NHDES; USAF
DATE: 20 October 1992
TYPE: Quarterly Report
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder); Arthur Ditto's office files

DOCUMENT NUMBER: PEA (6.3)#40 001-Q4
LONG TITLE: Transmittal Letter for Quarterly Progress Report, Fourth Quarter 1992
AUTHOR: Art Ditto, Pease AFB
RECIPIENT: Johanna Hunter, EPA
Richard Pease, NHDES
DATE: 19 January 1993
TYPE: Transmittal Letter and Quarterly Report
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder); Arthur Ditto's office files

DOCUMENT NUMBER: PEA (6.3)#41 001-E,1
LONG TITLE: Quarterly Progress Report for Pease AFB
AUTHOR: Art Ditto, Pease AFB
RECIPIENT: Johanna Hunter, EPA Region 1
Richard Pease, NHDES
DATE: 26 April 1993
TYPE: Report
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder); Arthur Ditto's office files

DOCUMENT NUMBER: PEA (6.3)#42 001-002
LONG TITLE: Notice of Intent for Storm Water Discharge Associated with Industrial Activity Under the NPDES General Permit - EPA NPDES Form
AUTHOR: Art Ditto, AFBCA
RECIPIENT: EPA Region 1
DATE: 08 September 1994
TYPE: EPA Report
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3)#43 001-007
LONG TITLE: Groundwater Treatment Plant Influent/Effluent Results, Quarterly Reporting
AUTHOR: Art Ditto, AFBCA
RECIPIENT: EPA
DATE: 15 November 1994
TYPE: Report
SECOND REFERENCE: NPDES Permit No. NH0090000
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3)#44 001-002
LONG TITLE: Remedial Project Managers' Meeting Minutes
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: See Distribution List
DATE: 15 April 1994
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3)#45 001-002
LONG TITLE: Remedial Project Managers' Meeting Minutes
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: See Distribution List
DATE: 31 May 1994
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3)#46 001-003
LONG TITLE: Remedial Project Managers' Meeting Minutes
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: See Distribution List
DATE: 16 December 1994
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3)#47 001-Attachment 1
LONG TITLE: Remedial Project Managers' Meeting Minutes
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Mike Daly, EPA Region 1
Richard Pease, NHDES
DATE: 19 June 1995
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

DOCUMENT NUMBER: PEA (6.3)#48 001-B.2
LONG TITLE: Submittal of the Quarterly Report for First Quarter 1995
AUTHOR: Mark McKenzie, AFBCA
RECIPIENT: Mike Daly, EPA Region 1
DATE: 23 May 1995
TYPE: Report
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder); Arthur Ditto's office files

DOCUMENT NUMBER: PEA (6.3)#49 001-002
LONG TITLE: RPM Meeting Minutes from June 6, 1995 Meeting
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Mike Daly, EPA Region 1
DATE: 26 July 1995
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 6.3 Binder)

6.4 General Correspondence

DOCUMENT NUMBER: PEA (6.4)#1 001-003
LONG TITLE: Wetlands application No. 89-1805
AUTHOR: NHDES
RECIPIENT: State of New Hampshire
DATE: 14 September 1989
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 6.4 Binder)

DOCUMENT NUMBER: PEA (6.4)#2 001-001
LONG TITLE: Request for Information for Wetlands Permits
AUTHOR: NHDES
RECIPIENT: USAF
DATE: 18 September 1989
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 6.4 Binder)

DOCUMENT NUMBER: PEA (6.4)#3 001-001
LONG TITLE: Letter Regarding the Approval of Permit No. WPP-3348 for Landfill 5 Remediation
AUTHOR: NHDES
RECIPIENT: USAF
DATE: 11 October 1989
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 6.4 Binder)

DOCUMENT NUMBER: PEA (6.4)#4 001-005
LONG TITLE: Air Force Letter to the Wetlands Board Regarding a Request for Approval for a Modification to the Wetlands Permitted Scope of Work"
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: Delbert Downing, Wetlands Board, Concord, NH
DATE: 21 November 1989
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 6.4 Binder)

DOCUMENT NUMBER: PEA (6.4)#5 001-010
LONG TITLE: Letter to EPA Regarding Background Information on Pease Air Force Base
AUTHOR: US Department of Commerce
RECIPIENT: USAF
DATE: 7 March 1990
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 6.4 Binder)

DOCUMENT NUMBER: PEA (6.4)#6 001-001
LONG TITLE: File #92-679; CERCLA Related Temporary fill of 2000 Square Feet for Wells at Pease AFB, NH
AUTHOR: Kenneth N. Kettering, NHDES
RECIPIENT: Art Ditto, Pease AFB
DATE: 26 May 1992
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 6.4 Binder)

DOCUMENT NUMBER: PEA (6.4)#7 001-019
LONG TITLE: Lab results of groundwater samples from monitoring wells 05-5113, 05-6101, and 08-6024.
AUTHOR: NHDES
RECIPIENT: Art Ditto, Pease AFB
DATE: 11 February 1993
TYPE: Letter w/attachment
SECOND REFERENCE: None
LOCATION: ARF (Section 6.4 Binder)

DOCUMENT NUMBER: PEA (6.4)#8 001-041
LONG TITLE: Quarterly Progress Report, Period of Performance July, August and September 1993
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: October 1993
TYPE: Report
SECOND REFERENCE: None
LOCATION: ARF (Section 6.4 Binder)

DOCUMENT NUMBER: PEA (6.4)#9 001-B.3
LONG TITLE: Quarterly Progress Report, Period of Performance October, November and December 1993
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: January 1994
TYPE: Report
SECOND REFERENCE: None
LOCATION: ARF (Section 6.4 Binder)

DOCUMENT NUMBER: PEA (6.4)#10 001-B.4
LONG TITLE: Quarterly Progress Report, Period of Performance January, February and March 1994
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: April 1993
TYPE: Report
SECOND REFERENCE: None
LOCATION: ARF (Section 6.4 Binder)

DOCUMENT NUMBER: PEA (6.4)#11 001-022
LONG TITLE: Pease Air Force Base Installation Restoration Program January 13, 1994
Informal Dispute Resolution Meeting - Final Minutes
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, AFBCA
Michael Daly, EPA
DATE: 16 March 1994
TYPE: Letter with Meeting Minutes Attached
SECOND REFERENCE: None
LOCATION: ARF (Section 6.4 Binder)

DOCUMENT NUMBER: PEA (6.4)#12 001-001
LONG TITLE: Ditch Maintenance Work, Excavation Material Disposal
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Richard Pease, NHDES
DATE: 07 October 1994
TYPE: Letter
SECOND REFERENCE: Landfill 5: Grafton Ditch
LOCATION: ARF (Section 6.4 Binder)

DOCUMENT NUMBER: PEA (6.4)#13 001-009
LONG TITLE: Air Force Request for Approval to Place Excavated Materials from the Ditch
Maintenance Work at Landfill 5 - Protocols to be Used When Requesting
Regulatory Approval
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, AFBCA
DATE: 02 November 1994
TYPE: Letter
SECOND REFERENCE: Landfill 5: PEA (11.3)
LOCATION: ARF (Section 6.4 Binder)

DOCUMENT NUMBER: PEA (6.4)#14 001-064
LONG TITLE: Quarterly Progress Report, Period of Performance: Calendar Months April, May,
and June 1994
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: July 1995
TYPE: Report
SECOND REFERENCE: None
LOCATION: ARF (Section 6.4 Binder)

DOCUMENT NUMBER: PEA (6.4)#15 001-022
LONG TITLE: Quarterly Progress Report, Period of Performance: Calendar Months October,
November and December 1994
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: February 1995
TYPE: Report
SECOND REFERENCE: None
LOCATION: ARF (Section 6.4 Binder)

DOCUMENT NUMBER: PEA (6.4)#16 001-004
LONG TITLE: Background Contamination
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Richard Pease, NHDES
DATE: 30 January 1995
TYPE: Letter with attachments
SECOND REFERENCE: None
LOCATION: ARF (Section 6.4 Binder)

DOCUMENT NUMBER: PEA (6.4)#17 001-001
LONG TITLE: DDT Sediment Evaluation Report
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Richard Pease, NHDES
DATE: 30 January 1995
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 6.4 Binder)

DOCUMENT NUMBER: PEA (6.4)#18 001-001
LONG TITLE: Pease AFB Restoration Advisory Board/Technical Review Committee (RAB/TRC)
Meeting Notification
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: See Distribution List
DATE: 20 March 1995
TYPE: Memorandum
SECOND REFERENCE: None
LOCATION: ARF (Section 6.4 Binder)

DOCUMENT NUMBER: PEA (6.4)#19 001-005
LONG TITLE: Quarterly Progress Report, Period of Performance July 1995 - September 1995
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 3rd Quarter 1995
TYPE: Report
SECOND REFERENCE: None
LOCATION: ARF (Section 6.4 Binder)

DOCUMENT NUMBER: PEA (6.4)#20 001-003
LONG TITLE: RPM Meeting Minutes
AUTHOR: Arthur L. Ditto, AFBCA
RECIPIENT: Mike Daly, USEPA; Gary Lynn, NHDES
DATE: 12 January 1996
TYPE: Letter & Minutes Attached
SECOND REFERENCE: None
LOCATION: ARF (Section 6.4 Binder)

7.1 Enforcement History

*NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

7.2 Endangerment Assessments

NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

7.3 Administrative Orders

DOCUMENT NUMBER: PEA (7.3)#1 001-II.3
LONG TITLE: Pease AFB Federal Facilities Agreement Modification
AUTHOR: USAF
RECIPIENT: Pease AFB
EPA Region 1
NHDES
NH Attorney General
DATE: January 1993
TYPE: FFA Modification
SECOND REFERENCE: None
LOCATION: ARF (Section 7.3 Binder)

7.4 Consent Decrees

* NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

7.5 Affidavit

* NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

7.6 Documentation of Technical Discussions/Response Actions

* NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

7.7 Notices, Letters, and Responses

* NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

8.1 ATSDR Health Assessments

* NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

8.2 Toxicological Profiles

DOCUMENT NUMBER: PEA (8.2)#1 001-ZN4
LONG TITLE: Installation Restoration Program Stage 4 Toxicity Profiles, Pease Air Force
Base, NH 03803
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: January 1993
TYPE: Toxicity Profiles
SECOND REFERENCE: None
LOCATION: ARF

8.3 General Correspondence

9.1 Notices Issued

* NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

9.2 Findings of Fact

* NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

9.3 Reports

DOCUMENT NUMBER: PEA (9.3)#1 001-015
LONG TITLE: Landfill 5 Closure Wetlands Assessment and Mitigation Report
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: November 1993
TYPE: Report
SECOND REFERENCE: Landfill 5
LOCATION: ARF (Landfill 5 Shelf)

9.4 General Correspondence

DOCUMENT NUMBER: PEA (9.4)#1 001-001
LONG TITLE: Wetlands Assessment and Mitigation Report
AUTHOR: Arthur ditto, Pease AFB
RECIPIENT: Michael Daly, EPA
Richard Pease, NHDES
DATE: 3 December 1993
TYPE: Letter
SECOND REFERENCE: Landfill 5
LOCATION: ARF (Section 9.4 Binder)

DOCUMENT NUMBER: PEA (9.4)#2 001-002
LONG TITLE: Trustees for Natural Resources
AUTHOR: Arthur Ditto, AFBCA'OL-A
RECIPIENT: AFBCA/NE
DATE: 20 May 1994
TYPE: Letter with Attachment
SECOND REFERENCE: None
LOCATION: ARF (Section 9.4 Binder)

10.1 Comments and Responses

DOCUMENT NUMBER: PEA (10.1)#1 001-005
LONG TITLE: Response to Comments - Draft Final Community Relations Plan
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 7 February 1991
TYPE: Letter/Response to Comments
SECOND REFERENCE: PEA (10.2)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#2 001-003
LONG TITLE: Draft Community Relations Plan Comments
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, USAF
DATE: 30 November 1990
TYPE: Letter Comment Report
SECOND REFERENCE: PEA (10.2)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#3 001-010
LONG TITLE: EPA Region 1 Comments to IRP Draft Community Relations Plan; Pease AFB
AUTHOR: Douglas S. Gutto, EPA
RECIPIENT: Arthur Ditto, USAF
DATE: 7 December 1990
TYPE: Letter Comment Report
SECOND REFERENCE: PEA (10.2)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#4 001-011
LONG TITLE: EPA Comments on Pease AFB Community Relations Plan with Air Force's Responses
AUTHOR: Unknown (From Air Force)
RECIPIENT: USAF
DATE: January 1991
TYPE: Comment Report
SECOND REFERENCE: PEA (10.2)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#5 001-010
LONG TITLE: NHDES Comments on Pease AFB Community Relations Plan with Air Force Responses
AUTHOR: Unknown (From Air Force)
RECIPIENT: USAF
DATE: January 1991
TYPE: Comment Report
SECOND REFERENCE: PEA (10.2)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#6 001-002
LONG TITLE: Review of Draft (Revised) Final Report IRP Community Relations Plan
AUTHOR: Johanna Hunter, EPA
RECIPIENT: Arthur Ditto, USAF
DATE: 25 March 1991
TYPE: Letter
SECOND REFERENCE: PEA (10.2)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#7 001-003
LONG TITLE: Comments Remaining Unresolved for Stage 4 Work Plan Analysis Method
AUTHOR: Mark McKenzie, Pease AFB
RECIPIENT: Lee dePersia, Roy F. Weston, Inc.
DATE: 05 May 1991
TYPE: Comments
SECOND REFERENCE: PEA (3.1)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#8 001-002
LONG TITLE: Preliminary Assessment Site Inspection Draft Fact Sheet Comments
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, Pease AFB
DATE: 17 April 1992
TYPE: Comments
SECOND REFERENCE: PEA (10.6); PEA (6.3)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#9 001-003
LONG TITLE: Review Comments for Stage 4 Work Plan Addendum Number 2
AUTHOR: Richard H. Pease, NHDES
RECIPIENT: Arthur Ditto, USAF
DATE: 08 May 1992
TYPE: Letter
SECOND REFERENCE: PEA (3.3)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#1 001-014
LONG TITLE: Review Comments for Stage 4 Work Plan and Sampling and Analysis Plan Addendum Number 2
AUTHOR: Michael Daly, EPA
RECIPIENT: Arthur Ditto, USAF
DATE: 14 May 1992
TYPE: Transmittal Sheet, Letter and Comment Report
SECOND REFERENCE: PEA (3.1); PEA (3.3)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#11 001-013
LONG TITLE: Review of Stage 4 Work Plan and Sampling and Analysis Plan Addendum Number 2 for Pease AFB
AUTHOR: Michael Daly, EPA
RECIPIENT: Arthur Ditto, USAF
DATE: 14 May 1992
TYPE: Letter with Comment Report
SECOND REFERENCE: PEA (3.1); PEA (3.3)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#12 001-006
LONG TITLE: Zone 3 Site Characterization Summary, May 1992 Review Comments
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, Pease AFB
DATE: 11 June 1992
TYPE: Comments
SECOND REFERENCE: PEA (6.3); Zone 3
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#13 001-009
LONG TITLE: Review of the Zone 3 Site Characterization Summary for Pease Air Force Base, Portsmouth, NH - May 1992
AUTHOR: Michale Daly, EPA
RECIPIENT: Arthur Ditto, Pease AFB
DATE: 11 June 1992
TYPE: Comments
SECOND REFERENCE: Zone 3
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#14 001-006
LONG TITLE: Issues Needing Resolution for the Draft Final Remedial Investigation Report for Landfill 5, Dated April 1992
AUTHOR: USAF
RECIPIENT: Johanna Hunter, EPA
DATE: 28 July 1992
TYPE: Response to Comments
SECOND REFERENCE: Landfill 5
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#15 001-002
LONG TITLE: Stage 4 Work Plan Addendum 3 Review Comments
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, Pease AFB
DATE: 14 August 1992
TYPE: Comments
SECOND REFERENCE: PEA (6.3)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#16 001-026
LONG TITLE: Response to Comments on Zone 3 Site Characterization Summary
AUTHOR: Lee dePersia, Roy F. Weston, Inc.
RECIPIENT: Capt. Carl Woerhle, AFCEE
DATE: 1 September 1992
TYPE: Letter with Comment Report
SECOND REFERENCE: Zone 3; PEA (3.4)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#17 001-002
LONG TITLE: Review Comments of Draft Landfill 5 Source Area Proposed Plan
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, USAF
DATE: 10 September 1992
TYPE: Comments
SECOND REFERENCE: Landfill 5; PEA (4.3)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#18 001-001
LONG TITLE: Review Comments for Landfill 3 - No Further Action Decision Document
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, USAF
DATE: 2 October 1992
TYPE: Comments
SECOND REFERENCE: Zone 1
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#19 001-001
LONG TITLE: Review Comments for Landfill 3 (IRP Site 3)
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, USAF
DATE: 2 October 1992
TYPE: Comments
SECOND REFERENCE: Zone 1
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#20 001-006
LONG TITLE: Response to Comments, Stage 4 Work Plan and Sampling and Analysis Plan Addendum 2
AUTHOR: Arthur Ditto, USAF
RECIPIENT: Johanna Hunter, EPA
DATE: 3 November 1992
TYPE: Response to Comments
SECOND REFERENCE: PEA (3.3); PEA (3.1)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#21 001-002
LONG TITLE: EPA Review of IRP Stage 4, No Further Action Decision Document (NFADD) for Site 3
AUTHOR: Johanna Hunter, EPA
RECIPIENT: Arthur Ditto, USAF
DATE: 5 November 1992
TYPE: Comments
SECOND REFERENCE: Site 3
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#22 001-002
LONG TITLE: Review of Stage 4 Sampling and Analysis Plan Addendum 3, Pease AFB
AUTHOR: Johanna Hunter, EPA
RECIPIENT: Arthur Ditto, USAF
DATE: 23 November 1992
TYPE: Comments
SECOND REFERENCE: None
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#23 001-003
LONG TITLE: Review of Comments of Stage 4 Site Characterization Summary, IRP Zone 1
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, USAF
DATE: 1 December 1992
TYPE: Comments
SECOND REFERENCE: Zone 1, Landfill 2, Landfill 4
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#24 001-004
LONG TITLE: Review of Zone 1, Site Characterization Summary for Pease AFB, October 1992
AUTHOR: Michael Daly, EPA
RECIPIENT: Arthur Ditto, USAF
DATE: 9 December 1992
TYPE: Comments
SECOND REFERENCE: Zone 1; PEA (3.5)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#25 001-004
LONG TITLE: Review of Zone 1 Site Characterization Summary for Pease AFB
AUTHOR: Michael Daly, EPA
RECIPIENT: Arthur Ditto, USAF
DATE: 9 December 1992
TYPE: Comments
SECOND REFERENCE: Zone 1
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#26 001-004
LONG TITLE: EPA Review of IRP LF-5, Draft Proposed Plan, November 1992
AUTHOR: Johanna Hunter, EPA
RECIPIENT: Arthur Ditto, USAF
DATE: 17 December 1992
TYPE: Comments
SECOND REFERENCE: Landfill 5, PEA (4.3)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#27 001-002
LONG TITLE: Response to Comments, Landfill 5 Draft Proposed Plan and Fact Sheet
AUTHOR: Arthur Ditto, USAF
RECIPIENT: Johanna Hunter, EPA
DATE: 5 January 1993
TYPE: Response to Comments
SECOND REFERENCE: Landfill 5, PEA (10.6)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#28 001-001
LONG TITLE: Sierra Club Comments on Cleanup of Site 5 at Pease Air Force Base
AUTHOR: Scott Drummey, Sierra Club
RECIPIENT: USAF
DATE: 15 February 1993
TYPE: Comments
SECOND REFERENCE: Landfills
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#29 001-002
LONG TITLE: Proposed Plan for IPR Site 5, Landfill 5, Source Area
AUTHOR: Seacoast Citizens Overseeing Pease Environment (SCOPE)
RECIPIENT: USAF
DATE: 22 January 1993
TYPE: Comments
SECOND REFERENCE: Landfill 5
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#30 001-023
LONG TITLE: Review of the Air Force Installation Restoration Program, Zone 1, Initial Screening of Alternatives Report, Pease AFB
AUTHOR: EPA
RECIPIENT: USAF
DATE: 27 August 1993
TYPE: Comments
SECOND REFERENCE: PEA (10.10); Zone 1
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#31 001-018
LONG TITLE: Response to EPA Comments on the Zone 1 Draft Remedial Investigation Report
AUTHOR: USAF
RECIPIENT: EPA
DATE: 15 October 1993
TYPE: Comments
SECOND REFERENCE: Zone 1
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#32 001-018
LONG TITLE: Response to NHDES Comments on the Zone 1 Draft Remedial Investigation Report
AUTHOR: USAF
RECIPIENT: NHDES
DATE: 15 October 1993
TYPE: Response to Comments
SECOND REFERENCE: Zone 1; PEA(10.10)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#33 001-015
LONG TITLE: Response to the EPA Comments on the Zone 1 Draft FS Report
AUTHOR: USAF
RECIPIENT: EPA
DATE: 29 November 1993
TYPE: Response to Comments
SECOND REFERENCE: Zone 1
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#34 001-018
LONG TITLE: Response to NHDES Comments on the Zone 1 Draft FS Report
AUTHOR: USAF
RECIPIENT: NHDES
DATE: 30 November 1993
TYPE: Response to Comments
SECOND REFERENCE: Zone 1
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#35 001-033
LONG TITLE: Response to EPA Comments on the Draft Zone 3 RI Report
AUTHOR: USAF
RECIPIENT: EPA
DATE: 28 September 1993
TYPE: Comments
SECOND REFERENCE: Zone 3
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#36 001-024
LONG TITLE: Response to NHDES Comments on the Draft Zone 3 RI Report
AUTHOR: USAF
RECIPIENT: NHDES
DATE: 29 September 1993
TYPE: Comments
SECOND REFERENCE: Zone 3
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#37 001-008
LONG TITLE: Draft Response to EPA Comments on the McIntyre Brook/Lower Newfields Ditch
Draft RI/FS Report
AUTHOR: USAF
RECIPIENT: EPA
DATE: 9 November 1993
TYPE: Response to Comments
SECOND REFERENCE: McIntyre Brook; Lower Newfields Ditch
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#38 001-014
LONG TITLE: Draft Response to NHDES Comments on the McIntyre Brook/Lower Newfields Ditch
Draft RI/FS Report
AUTHOR: USAF
RECIPIENT: NHDES
DATE: 8 November 1993
TYPE: Response to Comments
SECOND REFERENCE: McIntyre Brook; Lower Newfields Ditch
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#39 001-003
LONG TITLE: Remedial Technology Peer Review, Pease International Tradeport and Air
National Base, New Hampshire, Peer Review
AUTHOR: Fred Price, Mitre Corporation
RECIPIENT: Major Charles Howell, AFCEE
DATE: 13 April 1993
TYPE: Letter
SECOND REFERENCE: Zone 5
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#40 001-003
LONG TITLE: Review of U.S. Environmental Protection Agency Comments on Background Data
for Pease AFB, NH
AUTHOR: Fred Price, Mitre Corporation
RECIPIENT: Major Charles Howell, AFCEE
DATE: 11 June 1993
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#41 001-003
LONG TITLE: Peer Review of Initial Screening of Alternatives, Zone 3, Pease AFB, NH
AUTHOR: Fred Price, Mitre Corporation
RECIPIENT: Major Charles Howell, AFCEE
DATE: 2 July 1993
TYPE: Letter
SECOND REFERENCE: Zone 3
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#42 001-004
LONG TITLE: Peer Review of Initial Screening of Alternatives, Zone 1, Pease AFB, NH
AUTHOR: Fred Price, Mitre Corporation
RECIPIENT: Major Charles Howell, AFCEE
DATE: 16 July 1993
TYPE: Letter
SECOND REFERENCE: Zone 1
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#43 001-005
LONG TITLE: Review of the Air Force Installation Restoration Program, Zone 1 Initial Screening of Alternatives Report, Pease AFB, NH
AUTHOR: EPA
RECIPIENT: USAF
DATE: 27 August 1993
TYPE: Letter with Attachment
SECOND REFERENCE: Zone 1
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#44 001-012
LONG TITLE: Pease AFB Zone 1 Draft Feasibility Study Review Comments
AUTHOR: NHDES
RECIPIENT: USAF
DATE: 1 October 1993
TYPE: Letter with Attachment
SECOND REFERENCE: Zone 1
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#45 001-002
LONG TITLE: EPA Review of McIntyre Brook and Flagstone Brook Sediment Evaluation Work Plan
AUTHOR: EPA
RECIPIENT: USAF
DATE: 16 November 1993
TYPE: Fax
SECOND REFERENCE: PEA(3.3)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#46 001-003
LONG TITLE: Response to EPA Comments Zone 3 Draft FS
AUTHOR: USAF
RECIPIENT: EPA
DATE: 22 November 1993
TYPE: Response to Comments
SECOND REFERENCE: Zone 3
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#47 001-012
LONG TITLE: State Response to Comments Zone 3 Draft Feasibility Study
AUTHOR: USAF
RECIPIENT: NHDES
DATE: 22 November 1993
TYPE: Response to Comments
SECOND REFERENCE: Zone 3
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#48 001-010
LONG TITLE: Pease AFB Zone 1 Draft Final Remedial Investigation Review Comments
AUTHOR: NHDES
RECIPIENT: USAF
DATE: 29 November 1993
TYPE: Comments
SECOND REFERENCE: Zone 1
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#49 001-002
LONG TITLE: Work Plan to Evaluate the Sediments of McIntyre Brook and Flagstone Brook Review Comments
AUTHOR: NHDES
RECIPIENT: USAF
DATE: 29 November 1993
TYPE: Comments
SECOND REFERENCE: McIntyre Brook; Flagstone Brook
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#50 001-003
LONG TITLE: Pease AFB Zone 1 Feasibility Study Report Draft Final Review Comments
AUTHOR: NHDES
RECIPIENT: USAF
DATE: 3 January 1994
TYPE: Comments
SECOND REFERENCE: Zone 1
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#51 001-004
LONG TITLE: Zone 3 Draft Final Feasibility Study Report Review Comments
AUTHOR: NHDES
RECIPIENT: USAF
DATE: 3 January 1994
TYPE: Comments
SECOND REFERENCE: Zone 3
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#52 001-010
LONG TITLE: Pease AFB, Zone 1 Draft Final Remedial Investigation
AUTHOR: NHDES
RECIPIENT: USAF
DATE: 29 November 1993
TYPE: Review Comments
SECOND REFERENCE: Zone 1; PEA(3.6)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#53 001-004
LONG TITLE: Review Comments, Zone 3, Draft Final Feasibility Study Report
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, AFBCA
DATE: 3 January 1994
TYPE: Review Comments
SECOND REFERENCE: Zone 3; Section 4.2
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#54 001-003
LONG TITLE: Review Comments for Landfill 5 Proposed Plan
AUTHOR: Mike Daly, EPA Region 1
RECIPIENT: Arthur Ditto, AFBCA
DATE: 25 January 1994
TYPE: Review Comments
SECOND REFERENCE: Landfill 5; Section 4.3
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#55 001-005
LONG TITLE: Review Comments, Zone 1 Draft Proposed Plan, January 1994
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, AFBCA
DATE: 22 February 1994
TYPE: Review Comments
SECOND REFERENCE: Zone 1; Section 4.3
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#56 001-012
LONG TITLE: Comments Draft Minutes of February 10, 1994 Meeting to Discuss State Issues
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, AFBCA
DATE: 14 March 1994
TYPE: Comments
SECOND REFERENCE: Landfill 1, CRD-2
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#57 001-003
LONG TITLE: Comments Pease Air Force Base Installation Restoration Program, Zone 3 RI Addendum #1
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, AFBCA
DATE: 15 June 1994
TYPE: Comments
SECOND REFERENCE: Zone 3; Section 3.5
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#58 001-001
LONG TITLE: Response to EPA Comments and Additional Responses to NHDES Comments on the Basewide Interim Monitoring Plan
AUTHOR: Mark McKenzie, AFBCA
RECIPIENT: Richard Pease, NHDES
DATE: 21 June 1994
TYPE: Response to Comments
SECOND REFERENCE: None
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#59 001-019
LONG TITLE: Air Force Response to Comments
AUTHOR: USAF
RECIPIENT: EPA
DATE: 26 August 1994
TYPE: Response to Comments
SECOND REFERENCE: None
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#60 001-006
LONG TITLE: Response to EPA and NHDES Comments on the Basewide Interim Monitoring Plan
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: USAF
DATE: 16 June 1994
TYPE: Response to Comments
SECOND REFERENCE: PEA(3.5)#123 001-E.34; PEA(3.5)#124 001-007
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#61 001-007
LONG TITLE: Pease AFB Basewide Interim Monitoring Plan, Response to Air Force June 21, 1994 Letter
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, AFBCA
DATE: 21 July 1994
TYPE: Comments
SECOND REFERENCE: PEA(3.5) #121 001-007
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#62 001-003
LONG TITLE: EPA Comments
AUTHOR: Mike Daly, EPA Region 1
RECIPIENT: Arthur Ditto, AFBCA
DATE: undated
TYPE: Comments
SECOND REFERENCE: Site 9
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#63 001-005
LONG TITLE: Comments to the Zone 3 RI Addendum #2 Report, May 1994
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, AFBCA
DATE: 01 July 1994
TYPE: Comments
SECOND REFERENCE: Zone 3
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#64 001-002
LONG TITLE: Comments on Pease AFB Zone 1 Feasibility Study
AUTHOR: Mike Daly, EPA Region 1
RECIPIENT: Arthur Ditto, AFBCA
DATE: 31 August 1994
TYPE: Comments
SECOND REFERENCE: Zone 1; PEA(4.2)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#65 001-004
LONG TITLE: Zone 1 Draft Record of Decision, August 1994, Review Comments
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, AFBCA
DATE: 20 September 1994
TYPE: Comments
SECOND REFERENCE: Zone 1; PEA (5.1)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#66 001-016
LONG TITLE: Response to Comments Zone 3 Addendum #1 and #2
AUTHOR: Mark McKenzie, AFBCA
RECIPIENT: Richard Pease, NHDES
DATE: 08 November 1994
TYPE: Response to Comments
SECOND REFERENCE: Zone 3
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#67 001-100
LONG TITLE: Zone 1 Draft Record of Decision - Comments
AUTHOR: Mike Daly, EPA Region 1
RECIPIENT: Arthur Ditto, AFBCA
DATE: 14 November 1994
TYPE: Comments
SECOND REFERENCE: Zone 1; PEA(5.1)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#68 001-022
LONG TITLE: Response to NHDES Comments on the Air Force's 21 June 1994 Letter Responding
to NDHES 23 March 1994 Comments on the Pease AFB Basewide Interim Monitoring Plan
AUTHOR: USAF
RECIPIENT: NHDES
DATE: 07 December 1994
TYPE: Response to Comments
SECOND REFERENCE: PEA(3.5) #121 001-007; PEA(3.5) #123 001-E.34;
PEA(3.5) #124 001-007; PEA(10.1) #161 001-006;
PEA (10.1) #166 001 012
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#69 001-003
LONG TITLE: DDT Sediment Evaluation Report for Pease AFB, NH - Comments
AUTHOR: Mike Daly, EPA Region 1
RECIPIENT: Arthur Ditto, AFBCA
DATE: 11 January 1995
TYPE: Comments
SECOND REFERENCE: None
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#70 001-005
LONG TITLE: DDT Sediment Evaluation Report Review Comments
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, AFBCA
DATE: 12 January 1995
TYPE: Comments
SECOND REFERENCE: None
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#71 001-5.2
LONG TITLE: Sediment Bioassay and Hardness Letter Reports Evaluation Review Comments
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, AFBCA
DATE: 12 January 1995
TYPE: Comments
SECOND REFERENCE: Zone 3; PEA(3.5) #120 001-008; PEA(11.1)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#72 001-011
LONG TITLE: Zone 1 Draft Final Record of Decision
AUTHOR: Mike Daly, EPA Region 1
RECIPIENT: Arthur Ditto, AFBCA
DATE: 18 January 1995
TYPE: Comments
SECOND REFERENCE: Zone 1; PEA(5.1)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#73 001-004
LONG TITLE: Air Force Response to the State's Zone 3 RI Addendums #1 and #2 Comments -
Outstanding Issues
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, AFBCA
DATE: 19 January 1995
TYPE: Comments
SECOND REFERENCE: Zone 3
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#74 001-005
LONG TITLE: Zone 1 Draft Final Record of Decision, December 1994, Review Comments
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, AFBCA
DATE: 20 January 1995
TYPE: Comments
SECOND REFERENCE: Zone 1; PEA(5.1)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#75 001-008
LONG TITLE: Response to EPA Comments on the Draft Zone 1 ROD
AUTHOR: USAF
RECIPIENT: EPA
DATE: 14 December 1994
TYPE: Response to Comments
SECOND REFERENCE: Zone 1; PEA(5.1)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#76 001-003
LONG TITLE: Response to NHDES Comments on the Draft Zone 1 ROD
AUTHOR: USAF
RECIPIENT: NHDES
DATE: 14 December 1994
TYPE: Response to Comments
SECOND REFERENCE: Zone 1; PEA (5.1)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#77 001-003
LONG TITLE: Pease Air Force Base Installation Restoration Program Zone 3 RI Addendum - Comments
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, AFBCA
DATE: 15 June 1994
TYPE: Comments
SECOND REFERENCE: Zone 3; PEA(3.5)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#78 001-007
LONG TITLE: Table A-4, Documentation of ARARs for Groundwater - Alternative MM-2, Limited Action - Institutional Controls Long Term Groundwater Monitoring/Groundwater Management Zone (GMZ), Zone 1
AUTHOR: Mike Daly, EPA
RECIPIENT: Arthur Ditto, AFBCA
DATE: 18 August 1994
TYPE: Comments
SECOND REFERENCE: Zone 1; PEA(4.3)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#79 001-003
LONG TITLE: Review of Preliminary Signature Ready Zone 1 ROD, Pease AFB, February 1995
AUTHOR: Mike Daly, EPA
RECIPIENT: Arthur Ditto, AFBCA
DATE: 03 March 1995
TYPE: Comments
SECOND REFERENCE: Zone 2; Zone 3; PEA(5.1)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#80 001-003
LONG TITLE: Draft Final Zone 3 Proposed Plan
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: Arthur Ditto, AFBCA
DATE: 13 March 1995
TYPE: Response to Comments
SECOND REFERENCE: Zone 3, PEA(4.3)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#81 001-012
LONG TITLE: I. Air Force Response to Comments dated January 20, 1995, to the Zone 1 Draft Final Record of Decision December 1994 (Zone 1 DFRD)
II. Preliminary Zone 1 Final Record of Decision, February 1995 (Zone 1 PFRD)
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, AFBCA
DATE: 14 March 1995
TYPE: Comments
SECOND REFERENCE: Zone 1; PEA(5.1)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#82 001-011
LONG TITLE: Zone 3 and Site 32 36 Draft Proposed Plan Fact Sheets
AUTHOR: Mike Daly, EPA
RECIPIENT: Arthur Ditto, AFBCA
DATE: 30 March 1995
TYPE: Comments
SECOND REFERENCE: Zone 3; Site 32 36; PEA(10.6)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#83 001-006
LONG TITLE: Proposed Plan for Zone 3, March 1995; Review Comments
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, AFBCA
DATE: 17 April 1995
TYPE: Comments
SECOND REFERENCE: Zone 3; PEA(4.3)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#84 001-004
LONG TITLE: Review of the Draft Final Zone 3 Proposed Plan, Pease Air Force Base, NH, March 1995
AUTHOR: Mike Daly, EPA Region 1
RECIPIENT: Arthur Ditto, AFBCA
DATE: 18 April 1995
TYPE: Comments
SECOND REFERENCE: Zone 3; PEA(4.3)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#85 001-001
LONG TITLE: Zone 3 Proposed Plan, Response to Review Comments
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Richard Pease, NHDES
DATE: 27 April 1995
TYPE: Comments
SECOND REFERENCE: Zone 3; PEA(4.3)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#86 001-002
LONG TITLE: Zone 3 Proposed Plan, Response to Review Comments
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Richard Pease, NHDES
DATE: 28 April 1995
TYPE: Comments
SECOND REFERENCE: Zone 3; PEA(4.3)
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#87 001-003
LONG TITLE: Review of Protocol for a Bioaccumulation Study for Paul's Brook at Pease AFB,
New Hampshire
AUTHOR: Mike Daly, EPA Region 1
RECIPIENT: Arthur Ditto, AFBCA
DATE: 07 June 1995
TYPE: Comments
SECOND REFERENCE: Paul's Brook
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#88 001-002
LONG TITLE: Zone 3 Proposed Plan Review Comments
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, AFBCA
DATE: 22 June 1995
TYPE: Comments
SECOND REFERENCE: Zone 3; PEA(4.3)#13 001-R.1
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#89 001-008
LONG TITLE: Clarification of the State's Comments to the Zone 3 Proposed Plan, March 1995
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, AFBCA
DATE: 11 July 1995
TYPE: Comments
SECOND REFERENCE: Zone 3; PEA(4.3)#13 001-R.1
LOCATION: ARF (Section 10.1 Binder)

DOCUMENT NUMBER: PEA (10.1)#90 001-002
LONG TITLE: Response to EPA Region 1 Comments on the Protocol for a Bioaccumulation Study
for Paul's Brook at Pease AFB, NH
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: Arthur Ditto, AFBCA
DATE: 23 June 1995
TYPE: Response to Comments
SECOND REFERENCE: Paul's Brook
LOCATION: ARF (Section 10.1 Binder)

10.2 Community Relations Plan

DOCUMENT NUMBER: PEA (10.2)#1 001-040
LONG TITLE: Installation Restoration Program Community Relations Plan
AUTHOR: Roy F. Weston, Inc.
RECIPIENT: EPA; NHDES; USAF
DATE: January 1995
TYPE: Community Relations Plan
SECOND REFERENCE: None
LOCATION: ARF, IR

DOCUMENT NUMBER: PEA (10.2)#2 1-1.1
LONG TITLE: Pease Air Force Base Installation Restoration Program Revised Community Relations Plan
AUTHOR: Dynamic Corporation
230 Peachtree St., N.W., Ste. 700
Atlanta, GA. 30303
RECIPIENT: USAF
DATE: October 1995
TYPE: Community Relations Plan
SECOND REFERENCE: None
LOCATION: ARF

10.3 Public Notices

DOCUMENT NUMBER: PEA (10.3)#1 001-001
LONG TITLE: Paid Advertisement of January 27, 1993 Public Hearing on Proposed Plan for
Landfill 5 Source Area
AUTHOR: USAF
RECIPIENT: Foster's Daily Democrat Public
DATE: 23 January 1993
TYPE: Public Notice
SECOND REFERENCE: Landfill 5; PEA (4.3)
LOCATION: ARF (Section 10.3 Binder),IR

DOCUMENT NUMBER: PEA (10.3)#2 001-001
LONG TITLE: Paid Advertisement of January 27, 1993 Public Hearing on Proposed Plan for
Landfill 5 Source Area
AUTHOR: USAF
RECIPIENT: Portsmouth Herald, Public
DATE: 24 January 1993
TYPE: Public Notice
SECOND REFERENCE: Landfill 5; PEA (4.3)
LOCATION: ARF (Section 10.3 Binder),IR

DOCUMENT NUMBER: PEA (10.3)#3 001-001
LONG TITLE: Paid Advertisement in Foster's Daily Democrat for Landfill 5 Revised Proposed
Plan Public Comment Period and Public Hearing
AUTHOR: USAF
RECIPIENT: Foster's Daily Democrat Public
DATE: 31 July 1993
TYPE: Public Notice
SECOND REFERENCE: Landfill 2; Landfill 4; Landfill 5; PEA (4.3)
LOCATION: ARF (Section 10.3 Binder)

DOCUMENT NUMBER: PEA (10.3)#4 001-001
LONG TITLE: Paid Advertisement in Portsmouth Herald for Landfill 5 Revised Proposed Plan
Public Comment Period and Public Hearing
AUTHOR: USAF
RECIPIENT: Portsmouth Herald, Public
DATE: 1 August 1993
TYPE: Public Notice
SECOND REFERENCE: Landfill 2; Landfill 4; Landfill 5; PEA (4.3)
LOCATION: ARF (Section 10.3 Binder)

DOCUMENT NUMBER: PEA (10.3)#5 001-001
LONG TITLE: Public Notice Announcing the Signing of Two RODs; Site 34 and Landfill 5
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Local Communities via The Portsmouth Herald, Public
DATE: 4 October 1993
TYPE: Public Notice
SECOND REFERENCE: Landfill 5; PEA (5.1)
LOCATION: ARF (Section 10.3 Binder)

DOCUMENT NUMBER: PEA (10.3)#6 001-001
LONG TITLE: Paid Public Notice in Portsmouth Herald Announcing the Zone 3 and Site 32/36
Proposed Plan Public Hearing
AUTHOR: USAF
RECIPIENT: Public
DATE: 30 July 1995
TYPE: Paid Public Notice
SECOND REFERENCE: Zone 3; Site 32 36
LOCATION: ARF (Section 10.3 Binder)

DOCUMENT NUMBER: PEA (10.3)#7 001-001
LONG TITLE: Paid Public Notice in Foster's Daily Democrat Announcing the Zone 3 and Site
32/36 Proposed Plan Public Hearing
AUTHOR: USAF
RECIPIENT: Public
DATE: 29 July 1995
TYPE: Paid Public Notice
SECOND REFERENCE: Zone 3; Site 32 36
LOCATION: ARF (Section 10.3 Binder)

10.4 Public Meeting Transcripts

DOCUMENT NUMBER: PEA (10.4)#1 001-052
LONG TITLE: Pease Air Force Base, New Hampshire Official Transcript of Public Hearing for
Proposed Plan for Landfill 5 Source Area
AUTHOR: R & R Associates
P.O. Box 863
Exeter, NH 03833
RECIPIENT: USAF
DATE: 27 January 1993
TYPE: Transcript
SECOND REFERENCE: Landfill 5
LOCATION: ARF (Landfill 5 Shelf)

DOCUMENT NUMBER: PEA (10.4)#2 001-7.4
LONG TITLE: Public Hearing Summary of Pease Air Force Base Public Hearing on Landfill 5
Source Area Proposed Plan
AUTHOR: Dynamic Corporation
RECIPIENT: USAF
DATE: 27 January 1993
TYPE: Hearing Summary
SECOND REFERENCE: Landfill 5
LOCATION: ARF (Landfill 5 Shelf), IR

DOCUMENT NUMBER: PEA (10.4)#3 001-025
LONG TITLE: Pease Air Force Base Public Workshop and Information Meeting; Installation
Restoration Program
AUTHOR: Dynamic Corporation
RECIPIENT: USAF
DATE: 12 January 1993
TYPE: Meeting Summary
SECOND REFERENCE: None
LOCATION: IR

DOCUMENT NUMBER: PEA (10.4)#4 001-034
LONG TITLE: Pease AFB Official Transcript of Public Hearing for Revised Proposed Plan for
Landfill 5
AUTHOR: R & R Associates
RECIPIENT: USAF
DATE: 5 August 1993
TYPE: Transcript
SECOND REFERENCE: Landfill 5
LOCATION: ARF (Landfill 5 Shelf)

DOCUMENT NUMBER: PEA (10.4)#5 001-8.3
LONG TITLE: Final Summary of Pease AFB Public Hearing on the Revised Proposed Plan for the Landfill 5 Source Area and the Consolidation of Landfills 2 and 4 Within Landfill 5
AUTHOR: Dynamic Corporation
RECIPIENT: USAF
DATE: 5 August 1993
TYPE: Hearing Summary
SECOND REFERENCE: Landfill 2; Landfill 4; Landfill 5
LOCATION: ARF (Landfill 5 Shelf)

DOCUMENT NUMBER: PEA (10.4)#6 001-002
LONG TITLE: Pease Air Force Base Public Hearing for the Zone 1 Proposed Plan Sign-In Sheet
AUTHOR: Not Applicable
RECIPIENT: USAF
DATE: 18 August 1994
TYPE: Attendance Sheet
SECOND REFERENCE: Zone 1
LOCATION: ARF (Section 10.4 Binder)

DOCUMENT NUMBER: PEA (10.4)#7 1.1-6.3
LONG TITLE: Summary of Pease Air Force Base Public Hearing on the Proposed Plan for Zone 1
AUTHOR: Dynamic Corporation
RECIPIENT: USAF
DATE: 18 August 1994
TYPE: Hearing Summary Report
SECOND REFERENCE: Zone 1
LOCATION: ARF (Zone 1 Shelf)

DOCUMENT NUMBER: PEA (10.4)#8 001 - TAB #6
LONG TITLE: Summary of Pease AFB 1995 Environmental Open House
AUTHOR: Dynamic Corporation
RECIPIENT: USAF
DATE: 14 October 1995
TYPE: Meeting Summary Report
SECOND REFERENCE: none
LOCATION: ARF (general shelving)

DOCUMENT NUMBER: PEA (10.4)#9 001-002
LONG TITLE: Sign-In Sheet for the Pease AFB Public Hearing for the Brooks Ditches Proposed Plan
AUTHOR: Public
RECIPIENT: USAF
DATE: 05 March 1997
TYPE: sign-In Sheet
SECOND REFERENCE: none
LOCATION: ARF (10.4 Binder)

10.5 Documentation of Other Public Meetings/TRC Minutes

DOCUMENT NUMBER: PEA (10.5) #00 001-004
LONG TITLE: Meeting Minutes of the Technical Review Committee
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 22 February 1990
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #0 001-013
LONG TITLE: Meeting Minutes of the Technical Review Committee
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 30 March, 1990
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #1 001-004
LONG TITLE: Meeting Minutes of the Technical Review Committee
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 27 April 1990
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #2 001-010
LONG TITLE: Meeting Minutes of the Technical Review Committee
AUTHOR: USAF
RECIPIENT: See Distribution of Minutes
DATE: 30 May 1990
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #3 001-008
LONG TITLE: Meeting Minutes of the Technical Review Committee
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 27 June 1990
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #4 001-005
LONG TITLE: Meeting Minutes of the Technical Review Committee
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 25 July 1990
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #5 001-005
LONG TITLE: Meeting Minutes of the Technical Review Committee
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 29 August 1990
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #6 001-012
LONG TITLE: Meeting Minutes of the Technical Review Committee
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 26 September 1990
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #7 001-008
LONG TITLE: Meeting Minutes of the Technical Review Committee
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 31 October 1990
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #8 001-004
LONG TITLE: Meeting Minutes of the Technical Review Committee
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 29 November 1990
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #9 001-003
LONG TITLE: Meeting Minutes of the Technical Review Committee
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 31 January 1991
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #10 001-003
LONG TITLE: Meeting Minutes of the Technical Review Committee
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 27 March 1991
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #11 001-006
LONG TITLE: Meeting Minutes of the Technical Review Committee
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 24 April 1991
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #12 001-003
LONG TITLE: Meeting Minutes of the Technical Review Committee
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 28 May 1991
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #13 001-006
LONG TITLE: Meeting Minutes of the Technical Review Committee
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 25 June 1991
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #14 001-007
LONG TITLE: Meeting Minutes of Technical Review Committee
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 30 July 1991
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #15 001-007
LONG TITLE: Meeting Minutes of Technical Review Committee
AUTHOR: USAF
RECIPIENT: See Distribution List

DATE: 27 August 1991
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #16 001-010
LONG TITLE: Meeting Minutes of Technical Review Committee
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 01 October 1991
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #17 001-003
LONG TITLE: Meeting Minutes of Technical Review Committee
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 29 October 1991
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #18 001-013
LONG TITLE: Meeting Minutes of Technical Review Committee
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 26 November 1991
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #19 001-005
LONG TITLE: Meeting Minutes of Technical Review Committee
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 07 January 1992
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #20 001-003
LONG TITLE: Meeting Minutes of Technical Review Committee
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 31 March 1992
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #21 001-002
LONG TITLE: Meeting Minutes of Technical Review Committee
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 28 April 1992
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #22 001-003
LONG TITLE: Meeting Minutes of Technical Review Committee
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 20 May 1992
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #23 001-003
LONG TITLE: Meeting Minutes of Technical Review Committee
AUTHOR: USAF
RECIPIENT: TRC Distribution List
DATE: 28 July 1992
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #24 001-005
LONG TITLE: Meeting Minutes of Technical Review Committee
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 29 September 1992
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #25 001-013
LONG TITLE: Meeting Minutes of Technical Review Committee
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 27 October 1992
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #26 001-004
LONG TITLE: Meeting Minutes of Technical Review Committee
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 16 December 1992
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #27 001-003
LONG TITLE: Meeting Minutes of Technical Review Committee
AUTHOR: USAF
RECIPIENT: TRC Distribution List
DATE: 17 February 1992
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #28 001-003
LONG TITLE: Meeting Minutes of Technical Review Committee
AUTHOR: USAF
RECIPIENT: TRC Distribution List
DATE: 23 March 1993
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #29 001-006
LONG TITLE: Meeting Minutes of Technical Review Committee
AUTHOR: USAF
RECIPIENT: TRC Distribution List
DATE: 27 April 1993
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #30 001-006
LONG TITLE: Meeting Minutes of Technical Review Committee
AUTHOR: USAF
RECIPIENT: TRC Distribution List
DATE: 25 May 1993
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #31 001-012
LONG TITLE: Meeting Minutes of Technical Review Committee
AUTHOR: USAF
RECIPIENT: TRC Distribution List
DATE: 29 July 1993
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #32 001-002
LONG TITLE: Meeting Minutes of Technical Review Committee
AUTHOR: USAF
RECIPIENT: TRC Distribution List
DATE: 27 July 1993
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #33 001-008
LONG TITLE: Meeting Minutes of the Technical Review Committee
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 31 August 1993
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #34 001-009
LONG TITLE: Meeting Minutes of Technical Review Committee
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 28 September 1993
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #35 001-010
LONG TITLE: Technical Review Committee Meeting Minutes
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 26 October 1993
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #36 001-011
LONG TITLE: Technical Review Committee Meeting Minutes
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 30 November 1993
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #37 001-002
LONG TITLE: Technical Review Committee Meeting Minutes
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 11 January 1994
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #38 001-003
LONG TITLE: Meeting Minutes of Technical Review Committee
AUTHOR: USAF
RECIPIENT: TRC Distribution List
DATE: 1 March 1994
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #39 001-012
LONG TITLE: Meeting Minutes of Technical Review Committee
AUTHOR: USAF
RECIPIENT: TRC Distribution List
DATE: 26 April 1994
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #40 001-001
LONG TITLE: January 13, 1994, Informal Dispute Resolution Meeting - Final Minutes
AUTHOR: Arthur Ditto, AFBCA/OL-A
RECIPIENT: AFBCA/NE
DATE: 11 April 1994
TYPE: Memorandum
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #41 001-013
LONG TITLE: Meeting Minutes of Technical Review Committee/Restoration Advisory Board
AUTHOR: USAF
RECIPIENT: TRC/RAB Distribution List
DATE: 5 May 1994
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #42 001-004
LONG TITLE: Meeting Minutes of Technical Review Committee/Restoration Advisory Board
AUTHOR: USAF
RECIPIENT: TRC/RAB Distribution List
DATE: 28 June 1994
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #43 001-013
LONG TITLE: Meeting Minutes of Technical Review Committee/Restoration Advisory Board
AUTHOR: USAF
RECIPIENT: TRC/RAB Distribution List
DATE: 26 July 1994
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #44 001-006
LONG TITLE: Meeting Minutes of Technical Review Committee/Restoration Advisory Board
AUTHOR: USAF
RECIPIENT: TRC/RAB Distribution List
DATE: 30 August 1994
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #45 001-011
LONG TITLE: Meeting Minutes of Technical Review Committee/Restoration Advisory Board
AUTHOR: USAF
RECIPIENT: TRC RAB Distribution List
DATE: 04 October 1994
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #46 001-010
LONG TITLE: Pease Air Force Base Restoration Advisory Board/Technical Review
Committee Meeting Minutes
AUTHOR: USAF
RECIPIENT: TRC RAB Distribution List
DATE: 07 February 1995
TYPE: Meeting Minutes
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #47 001-001
LONG TITLE: Pease Air Force Base Restoration Advisory Board Technical Review
Committee Meeting Cancellation Notice
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: TRC/RAB Distribution List
DATE: 28 February 1995
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #48 01-014
LONG TITLE: Pease Air Force Base Restoration Advisory Board Technical Review Meeting Minutes
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: TRC/RAB Distribution List
DATE: 03 April 1995
TYPE: Minutes
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #49 001-002
LONG TITLE: Pease AFB Restoration Advisory Board Technical Review Committee (RAB/TRC)
Meeting Notification
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Pease RAB/TRC
DATE: 21 April 1995
TYPE: Memorandum
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #50 001-006
LONG TITLE: Pease AFB Restoration Advisory Board Technical Review Committee (TRC)
Meeting Minutes
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Pease RAB/TRC
DATE: 16 May 1995
TYPE: Memorandum for Distribution
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #51 001-020
LONG TITLE: RAB/TRC Meeting Minutes from June 6, 1995
AUTHOR: USAF
RECIPIENT: See Distribution
DATE: 21 June 1995
TYPE: Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #52 001-AH 2
LONG TITLE: RAB/TRC Meeting Minutes from June 6, 1995
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 26 July 1995
TYPE: Minutes
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #53 001-002
LONG TITLE: Pease AFB Restoration Advisory Board Technical Review Committee (RAB/TRC)
Meeting Notification
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Pease RAB/TRC
DATE: 14 August 1995
TYPE: Memorandum
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #54 001-005
LONG TITLE: RAB/TRC Meeting Minutes from August 22, 1995
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 11 September 1995
TYPE: Minutes
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #55 001-002
LONG TITLE: Pease AFB Restoration Advisory Board Technical Review Committee (RAB/TRC)
Meeting Notification
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Pease RAB/TRC
DATE: 14 September 1995
TYPE: Memorandum
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #56 001-019
LONG TITLE: RAB TRC Meeting Minutes from October 3, 1995
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 20 October 1995
TYPE: Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #57 001-002
LONG TITLE: Pease AFB Restoration Advisory Board/Technical Review Committee (RAB/TRC)
Meeting Notification
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Pease RAB/TRC
DATE: 06 November 1995
TYPE: Memorandum
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #58 001-013
LONG TITLE: RAB/TRC Meeting Minutes from November 14, 1995
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 20 November 1995
TYPE: Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #59A 001-002
LONG TITLE: Pease AFB Restoration Advisory Board/Technical Review Committee (RAB/TRC) Meeting Notification
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Pease RAB/TRC
DATE: 02 January 1996
TYPE: Memorandum
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #60 001-003
LONG TITLE: RAB/TRC Meeting Minutes from January 09, 1996
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 12 January 1996
TYPE: Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #61 001-002
LONG TITLE: Pease AFB Restoration Advisory Board/Technical Review Committee (RAB/TRC) Meeting Notification
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Pease RAB/TRC
DATE: 22 January 1996
TYPE: Memorandum
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #62 001-011
LONG TITLE: RAB/TRC Meeting Minutes from 30 January 1996
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 12 February 1996
TYPE: Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #63 001-002
LONG TITLE: Pease AFB Restoration Advisory Board/Technical Review Committee (RAB/TRC) Meeting Notification
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Pease RAB TRC
DATE: 18 March 1996
TYPE: Memorandum
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #64 001-015
LONG TITLE: RAB TRC Meeting Minutes from 26 March 1996
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 05 April 1996
TYPE: Minutes
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #65 001-003
LONG TITLE: RPM Meeting Minutes from 26 March 1996
AUTHOR: USAF
RECIPIENT: Michael Daly, EPA and Gary Lynn, NHDES
DATE: 05 April 1996
TYPE: Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #66 001-002
LONG TITLE: Pease AFB Restoration Advisory Board Technical Review Committee (RAB/TRC) Meeting Notification
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Pease RAB/TRC
DATE: 22 April 1996
TYPE: Memorandum
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #67 001-007
LONG TITLE: RAB/TRC Meeting Minutes from 30 April 1996
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 13 May 1996
TYPE: Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #68 001-002
LONG TITLE: Pease AFB Restoration Advisory Board Technical Review Committee (RAB/TRC) Meeting Notification
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Pease RAB/TRC
DATE: 30 May 1996
TYPE: Memorandum
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #69 001-003
LONG TITLE: RAB/TRC Meeting Minutes from 11 June 1996
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: 27 June 1996
TYPE: Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #70 001-002
LONG TITLE: Pease AFB Restoration Advisory Board/Technical Review Committee (RAB/TRC) Meeting
AUTHOR: Arthur L. Ditto, AFBCA
RECIPIENT: See Distribution List
DATE: 26 July 1996
TYPE: Memorandum with Agenda Attached
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #71 001-003
LONG TITLE: Pease AFB Restoration Advisory Board Technical Review Committee (RAB/TRC) Meeting Minutes
AUTHOR: Arthur L. Ditto, AFBCA
RECIPIENT: See Distribution List
DATE: 16 September 1996
TYPE: Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #72 001-003
LONG TITLE: Pease AFB Restoration Advisory Board Technical Review Committee (RAB/TRC)
Meeting Minutes
AUTHOR: Arthur L. Ditto, AFBCA
RECIPIENT: See Distribution List
DATE: 11 October 1996
TYPE: Minutes
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #73 001-002
LONG TITLE: Pease AFB Restoration Advisory Board Technical Review Committee (RAB/TRC)
Meeting Notification
AUTHOR: Arthur L. Ditto, AFBCA
RECIPIENT: See Distribution List
DATE: 18 October 1996
TYPE: Memorandum with Agenda Attached
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #74 001-004
LONG TITLE: Pease AFB Restoration Advisory Board/Technical Review Committee (RAB/TRC)
Meeting Minutes
AUTHOR: Arthur L. Ditto, AFBCA
RECIPIENT: See Distribution List
DATE: 10 December 1996
TYPE: Minutes
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #75 001-002
LONG TITLE: Pease AFB Restoration Advisory Board/Technical Review Committee (RAB/TRC)
Meeting Notification
AUTHOR: Arthur L. Ditto, AFBCA
RECIPIENT: See Distribution List
DATE: 20 December 1996
TYPE: Memorandum with Agenda Attached
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #76 001-011
LONG TITLE: Pease AFB Restoration Advisory Board/Technical Review Committee (RAB/TRC)
Meeting Minutes
AUTHOR: Arthur L. Ditto, AFBCA
RECIPIENT: See Distribution List
DATE: 04 February 1997
TYPE: Memorandum with Attachment
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #77 001-002
LONG TITLE: Pease AFB Restoration Advisory Board/Technical Review Committee (RAB/TRC)
Meeting Notification
AUTHOR: Arthur L. Ditto, AFBCA
RECIPIENT: See Distribution List
DATE: 18 February 1997
TYPE: Memorandum with Agenda Attached
SECOND REFERENCE: None
LOCATION: ARF(Section 10.5 Binder)

DOCUMENT NUMBER: PEA (10.5) #78 001-003
LONG TITLE: Pease AFB Restoration Advisory Board/Technical Review Committee (RAB/TRC) Meeting Minutes
AUTHOR: Arthur L. Ditto, AFBCA
RECIPIENT: See Distribution List
DATE: 27 June 1997
TYPE: Meeting Minutes with Attachment
SECOND REFERENCE: None
LOCATION: ARF (Section 10.5 Binder)

10.6 Fact Sheets, Press Advisories, and News Releases

DOCUMENT NUMBER: PEA (10.6) #1 001-002
LONG TITLE: News Release Regarding Presentation of the Second Interim Technical Report
AUTHOR: USAF
RECIPIENT: Media
DATE: 21 September 1988
TYPE: News Release
SECOND REFERENCE: None
LOCATION: ARF(Section 10.6 Binder)

DOCUMENT NUMBER: PEA (10.6) #2 001-003
LONG TITLE: News Release Regarding the Underground Water Sampling Program
AUTHOR: USAF
RECIPIENT: Media
DATE: 29 November 1988
TYPE: News Release
SECOND REFERENCE: None
LOCATION: ARF (Section 10.6 Binder)

DOCUMENT NUMBER: PEA (10.5) #3 001-002
LONG TITLE: News Release Regarding the Release of the Third Interim Technical Report
AUTHOR: USAF
RECIPIENT: Media
DATE: 22 March 1989
TYPE: News Release
SECOND REFERENCE: None
LOCATION: ARF(Section 10.6 Binder)

DOCUMENT NUMBER: PEA (10.6) #4 001-003
LONG TITLE: Superfund Program Draft Interagency Agreement Fact Sheet
AUTHOR: EPA Region 1
RECIPIENT: See Mailing List
DATE: December 1990
TYPE: Fact Sheet
SECOND REFERENCE: PEA (6.2)
LOCATION: ARF(Section 10.6 Binder) IR

DOCUMENT NUMBER: PEA (10.6) #5 001-008
LONG TITLE: Pease Air Force Base Installation Restoration Program Update: Remedial Investigation/Feasibility Study Fact Sheet
AUTHOR: USAF
RECIPIENT: 1991 Mailing List
DATE: October 1991
TYPE: Fact Sheet
SECOND REFERENCE: None
LOCATION: ARF(Section 10.6 Binder) IR

DOCUMENT NUMBER: PEA (10.6) #6 001-011
LONG TITLE: Pease Air Force Base Installation Restoration Program Update Fact Sheet
AUTHOR: USAF
RECIPIENT: 1992 Mailing List
DATE: December 1992
TYPE: Fact Sheet
SECOND REFERENCE: None
LOCATION: ARF (Section 10.6 Binder) IR

DOCUMENT NUMBER: PEA (10.5) #7 001-008
LONG TITLE: Pease Air Force Base Installation Restoration Program Update Fact Sheet:
Proposed Plan for Landfill 5 Source Area
AUTHOR: USAF
RECIPIENT: 1993 Mailing List
DATE: January 1993
TYPE: Fact Sheet
SECOND REFERENCE: Landfill 5; PEA (4.3)
LOCATION: ARF(Section 10.6 Binder) IR

DOCUMENT NUMBER: PEA (10.6) #8 001-006
LONG TITLE: Pease Air Force Base Installation Restoration Program Update Fact Sheet:
Preliminary Assessment/Site Investigation
AUTHOR: USAF
RECIPIENT: 1993 Mailing List
DATE: January 1993
TYPE: Fact Sheet
SECOND REFERENCE: None
LOCATION: ARF(Section 10.6 Binder) IR

DOCUMENT NUMBER: PEA (10.6) #9 001-002
LONG TITLE: News Release 93-01 Comment Period Opens for Proposed Plan on Landfill 5
Source Area
AUTHOR: USAF
RECIPIENT: All Local News Media - Radio, Press, TV
DATE: 15 January 1993
TYPE: News Release
SECOND REFERENCE: PEA (4.3); Landfill 5
LOCATION: ARF(Section 10.6 Binder) IR

DOCUMENT NUMBER: PEA (10.6) #10 001-008
LONG TITLE: Revised Proposed Plan for Landfill 5 Source Area and the Plan to
Consolidate Landfills 2 and 4 Within Landfill 5 Fact Sheet
AUTHOR: USAF
RECIPIENT: See Mailing List
DATE: July 1993
TYPE: Fact Sheet
SECOND REFERENCE: Landfill 2; Landfill 4; Landfill 5
LOCATION: ARF (Section 10.6 Binder) IR

DOCUMENT NUMBER: PEA (10.6) #11 001-002
LONG TITLE: News Release Final Plans Issued for Cleanup of Two Sites at Pease AFB
AUTHOR: USAF
RECIPIENT: Media
DATE: 27 September 1993
TYPE: News Release
SECOND REFERENCE: Landfill 5; Site 34
LOCATION: ARF(Section 10.6 Binder)

DOCUMENT NUMBER: PEA (10.6) #12 001-006
LONG TITLE: Pease AFB Installation Restoration Program Update Fact Sheet: Proposed
Plan for IRP Zone 1
AUTHOR: USAF
RECIPIENT: Mailing List
DATE: July 1994
TYPE: Fact Sheet
SECOND REFERENCE: Zone 1; PEA (4.3)
LOCATION: ARF(Section 10.6 Binder) IR

DOCUMENT NUMBER: PEA (10.6) #13 001-001
LONG TITLE: News Release Regarding Zone 1 Proposed Plan Public Hearing
AUTHOR: USAF
RECIPIENT: Media
DATE: 17 August 1994
TYPE: News Release
SECOND REFERENCE: Zone 1
LOCATION: ARF(Section 10.6 Binder) IR

DOCUMENT NUMBER: PEA (10.6) #14 001-003
LONG TITLE: News Release: Final Plans Announced for Cleaning Up Zone 1
AUTHOR: USAF
RECIPIENT: See Distribution
DATE: 30 June 1995
TYPE: Press Release
SECOND REFERENCE: Zone 1
LOCATION: ARF(Section 10.6 Binder) IR

DOCUMENT NUMBER: PEA (10.6) #15 001-006
LONG TITLE: Pease AFB IRP Update Fact Sheet: Proposed Plan for Zone 3
AUTHOR: USAF
RECIPIENT: See Distribution List
DATE: June 1995
TYPE: Fact Sheet
SECOND REFERENCE: Site 32/36 and Zone 3
LOCATION: ARF (Section 10.6 Binder) IR

DOCUMENT NUMBER: PEA (10.6) #16 001-001
LONG TITLE: Article in Foster's Daily Democrat about the Zone 3 and Site 32/36
Proposed Plan Public Hearing
AUTHOR: Foster's Daily Democrat
RECIPIENT: Public
DATE: August 1995
TYPE: Article
SECOND REFERENCE: Zone 3; Site 32/36
LOCATION: ARF(Section 10.6 Binder)

DOCUMENT NUMBER: PEA (10.6) #17 001-001
LONG TITLE: Article in Foster's Daily Democrat about the Zone 1 ROD Signing
AUTHOR: Foster's Daily Democrat
RECIPIENT: Public
DATE: 13 September 1995
TYPE: Article
SECOND REFERENCE: Zone 1
LOCATION: ARF(Section 10.6 Binder)

DOCUMENT NUMBER: PEA (10.6) #18 001-001
LONG TITLE: Article in Portsmouth Herald about the Zone 1 ROD Signing
AUTHOR: Portsmouth Herald
RECIPIENT: Public
DATE: 14 September 1995
TYPE: Article
SECOND REFERENCE: Zone 1
LOCATION: ARF(Section 10.6 Binder)

DOCUMENT NUMBER: PEA (10.6) #19 001-001
LONG TITLE: Article in Portsmouth Herald about the ROD Signing for Zone 3 and Site 32/36
AUTHOR: Portsmouth Herald
RECIPIENT: Public
DATE: 21 October 1995
TYPE: Article
SECOND REFERENCE: Zone 3; Site 32/36
LOCATION: ARF (Section 10.6 Binder)

DOCUMENT NUMBER: PEA (10.6) #20 001-001
LONG TITLE: Article in Foster's Daily Democrat about the ROD Signing for Zone 3 and Site 32/36
AUTHOR: Foster's Daily Democrat
RECIPIENT: Public
DATE: 21 October 1995
TYPE: Article
SECOND REFERENCE: Zone 3; Site 32/36
LOCATION: ARF(Section 10.6 Binder)

DOCUMENT NUMBER: PEA (10.6) #21 001-008
LONG TITLE: Pease AFB Installation Restoration Program Update: Proposed Plan for the Pease AFB Brooks and Ditches Operable
AUTHOR: USAF
RECIPIENT: See Mailing List
DATE: February 1997
TYPE: Fact Sheet
SECOND REFERENCE: None
LOCATION: ARF(Section 10.6 Binder) IR

DOCUMENT NUMBER: PEA (10.6) #22 001-001
LONG TITLE: News Release Information Session and Public Hearing Announced for the Pease AFB Site 21/23 Proposed Cleanup Plans
AUTHOR: USAF
RECIPIENT: All Local Media
DATE: 12 October 1995
TYPE: Press Release
SECOND REFERENCE: none
LOCATION: ARF(Section 10.6 Binder)

10.7 Responsiveness Summary

DOCUMENT NUMBER: PEA (10.7) #1 001-016
LONG TITLE: Landfill 5 Responsiveness Summary
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Mike Daly, EPA Region I
Richard Pease, NHDES
DATE: September 1993
TYPE: Responsive Summary
SECOND REFERENCE: Landfill 5
LOCATION: ARF(Section 10.7 Binder)
PEA(5.1) #2 001-12.1 (Landfill 5 Shelf in ARF)

DOCUMENT NUMBER: PEA (10.7) #2 001-006
LONG TITLE: Zone 1 Responsiveness Summary
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Mike Daly, EPA Region I
Gary Lynn, NHDES
DATE: July 1995
TYPE: Responsive Summary
SECOND REFERENCE: Zone 1 OD (5.1)
LOCATION: ARF (Section 10.7 Binder)

DOCUMENT NUMBER: PEA (10.7) #3 001-007
LONG TITLE: Zone 3 Responsiveness Summary
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Mike Daly, EPA Region I
Gary Lynn, NHDES
DATE: August 1995
TYPE: Responsiveness Summary
SECOND REFERENCE: Zone 3 ROD (5.1)
LOCATION: ARF(Section 10.7 Binder)

10.8 Late Comments

NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

10.9 Technical Review Committee Charter

DOCUMENT NUMBER: PEA (10.9) #1 001-004
LONG TITLE: Pease Air Force Base Installation Restoration Program: Technical Review Charter
AUTHOR: USAF
RECIPIENT: See Membership List
DATE: 11 January 1990
TYPE: Charter with Attachment
SECOND REFERENCE: None
LOCATION: ARF(Section 10.9 Binder)

10.10 Correspondence

DOCUMENT NUMBER: PEA (10.10) #1 001-001
LONG TITLE: Letter Regarding Concern about the Hazardous Waste Sites at Pease AFB
AUTHOR: Gordon J. Humphrey, U.S. Senate
RECIPIENT: James F. McGovern, Acting Secretary of the Air Force
DATE: 24 March 1989
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF(Section 10.10 Binder)

DOCUMENT NUMBER: PEA (10.10) #2 001-002
LONG TITLE: Letter Regarding the Migration of Air Force Hazardous Waste Beyond the Pease AFB Perimeter
AUTHOR: Town of Newington
RECIPIENT: Robert Field, Environmental Cleanup Advisory Committee, Portsmouth, NH
DATE: 11 May 1990
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 10.10 Binder)

DOCUMENT NUMBER: PEA (10.10) #3 001-008
LONG TITLE: Letter Regarding Groundwater Sampling Conducted on Private Property
AUTHOR: USAF
RECIPIENT: Will Gilbert, Newington, NH
DATE: 6 June 1989
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF(Section 10.10 Binder)

DOCUMENT NUMBER: PEA (10.10) #4 001-001
LONG TITLE: Submittal Letter for Draft Community Relations Plan for the Massachusetts Military Reservation (MMR) on Cape Cod, Massachusetts
AUTHOR: Douglas S. Gutro, EPA
RECIPIENT: Karen Cowden, Roy F. Weston, Inc.
DATE: 19 June 1990
TYPE: Letter
SECOND REFERENCE: PEA (10.2)
LOCATION: ARF(Section 10.10 Binder)

DOCUMENT NUMBER: PEA (10.10) #5 001-002
LONG TITLE: Impact of Base Closure on Personnel Responsible for the Installation Restoration Program and Public Affairs
AUTHOR: Merrill S. Hohman, EPA
RECIPIENT: Col. James R. Wilson, Pease AFB
DATE: 27 August 1990
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF(Section 10.10 Binder)

DOCUMENT NUMBER: PEA (10.10) #6 001-001
LONG TITLE: Impact of Base Closure on Personnel Responsible for the Installation Restoration Program and Public Affairs (Your Letter, August 27, 1990)
AUTHOR: USAF
RECIPIENT: Merrill S. Hohman, EPA
DATE: 11 October 1990
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 10.10 Binder)

DOCUMENT NUMBER: PEA (10.10) #7 001-001
LONG TITLE: Submittal of Primary Documents (Community Relations Plan)
AUTHOR: USAF
RECIPIENT: Jim Brown, EPA
DATE: 24 October 1990
TYPE: Letter
SECOND REFERENCE: PEA (10.2)
LOCATION: ARF(Section 10.10 Binder)

DOCUMENT NUMBER: PEA (10.10) #8 001-001
LONG TITLE: Submittal of Primary Documents (Community Relations Plan)
AUTHOR: USAF
RECIPIENT: Richard Pease, NHDES
DATE: 24 October 1990
TYPE: Letter
SECOND REFERENCE: PEA (10.2)
LOCATION: ARF(Section 10.10 Binder)

DOCUMENT NUMBER: PEA (10.10) #9 001-001
LONG TITLE: Community Relations Plan Development Extension
AUTHOR: USAF
RECIPIENT: Johanna Hunter, EPA
DATE: 17 January 1991
TYPE: Letter
SECOND REFERENCE: PEA (10.2)
LOCATION: ARF(Section 10.10 Binder)

DOCUMENT NUMBER: PEA (10.10) #10 001-001
LONG TITLE: Community Relations Plan Development Extension
AUTHOR: USAF
RECIPIENT: Richard Pease, NHDES
DATE: 17 January 1991
TYPE: Letter
SECOND REFERENCE: PEA (10.2)
LOCATION: ARF (Section 10.10 Binder)

DOCUMENT NUMBER: PEA (10.10) #11 001-001
LONG TITLE: Submittal of Draft Final Primary Documents
AUTHOR: USAF
RECIPIENT: Richard Pease, NHDES
DATE: 5 February 1991
TYPE: Letter
SECOND REFERENCE: PEA (3.1); PEA (3.3)
LOCATION: ARF(Section 10.10 Binder)

DOCUMENT NUMBER: PEA (10.10) #12 001-001
LONG TITLE: Submittal of Draft Final Primary Documents
AUTHOR: USAF
RECIPIENT: Johanna Hunter, EPA
DATE: 5 February 1991
TYPE: Letter
SECOND REFERENCE: PEA (3.1); PEA (3.3)
LOCATION: ARF(Section 10.10 Binder)

DOCUMENT NUMBER: PEA (10.10) #13 001-001
LONG TITLE: Community Relations Plan
AUTHOR: USAF
RECIPIENT: Johanna Hunter, EPA
DATE: 12 April 1991
TYPE: Letter
SECOND REFERENCE: PEA (10.2)
LOCATION: ARF(Section 10.10 Binder)

DOCUMENT NUMBER: PEA (10.10) #14 001-004
LONG TITLE: Basewide ARARs Pease AFB, NH 03803, January 1993, Draft - Review Comments
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, Pease AFB
DATE: 1 April 1993
TYPE: Letter
SECOND REFERENCE: PEA (4.1)
LOCATION: ARF(Section 10.10 Binder)

DOCUMENT NUMBER: PEA (10.10) #15 001-005
LONG TITLE: Draft Record of Decision for Landfill 5 Source Area Remedial Action, April 1993 - Review Comments
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, Pease AFB
DATE: 11 May 1993
TYPE: Letter
SECOND REFERENCE: Landfill 5
LOCATION: ARF (Section 10.10 Binder)

DOCUMENT NUMBER: PEA (10.10) #16 001-002
LONG TITLE: Pease AFB Review of Landfill 5 Draft Record of Decision
AUTHOR: Johanna Hunter, EPA
RECIPIENT: Arthur Ditto, Pease AFB
DATE: 13 May 1993
TYPE: Faxed Letter
SECOND REFERENCE: Landfill 5
LOCATION: ARF(Section 10.10 Binder)

DOCUMENT NUMBER: PEA (10.10) #17 001-011
LONG TITLE: Pease AFB Zone 3 Remedial Investigation Report Draft, April 1993 - Review Comments
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, Pease AFB
DATE: 20 May 1993
TYPE: Letter
SECOND REFERENCE: Zone 3
LOCATION: ARF(Section 10.10 Binder)

DOCUMENT NUMBER: PEA (10.10) #18 001-008
LONG TITLE: McIntyre Brook/Lower Newfields Ditch RI/FS Draft, April 1993 - Review Comments
AUTHOR: Richard Pease, NHDES
RECIPIENT: Arthur Ditto, Pease AFB
DATE: 24 May 1993
TYPE: Letter
SECOND REFERENCE: Zone 3
LOCATION: ARF(Section 10.10 Binder)

DOCUMENT NUMBER: PEA (10.10) #19 001-015
LONG TITLE: Review of the Air Force Installation Restoration Program, Draft Remedial Investigation Report, Zone 3, Pease AFB, April 1993
AUTHOR: Mike Daly, EPA Region I
RECIPIENT: Arthur Ditto, Pease AFB
DATE: 26 May 1993
TYPE: Faxed Letter
SECOND REFERENCE: Zone 3
LOCATION: ARF (Section 10.10 Binder)

DOCUMENT NUMBER: PEA (10.10) #20 001-004
LONG TITLE: Review of the Air Force Installation Restoration Program Draft McIntyre Brook/Lower Newfields Ditch Remedial Investigation/Feasibility Study, April 1993
AUTHOR: Mike Daly, EPA Region I
RECIPIENT: Arthur Ditto, Pease AFB
DATE: 26 May 1993
TYPE: Faxed Letter
SECOND REFERENCE: Zone 3
LOCATION: ARF(Section 10.10 Binder)

DOCUMENT NUMBER: PEA (10.10) #21 001-001
LONG TITLE: IRP Documents
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Ronald Gehl, SCOPE Technical Advisor
DATE: 23 March 1994
TYPE: Letter
SECOND REFERENCE: Site 8, Site 32/36
LOCATION: ARF(Section 10.10 Binder)

DOCUMENT NUMBER: PEA (10.10) #22 001-001
LONG TITLE: Draft Final Community Relations Plan
AUTHOR: USAF
RECIPIENT: EPA
NHDES
DATE: 13 July 1994
TYPE: Letter
SECOND REFERENCE: PEA (10.2) #3
LOCATION: ARF(Section 10.10 Binder)

DOCUMENT NUMBER: PEA (10.6) #23 001-001
LONG TITLE: Request for Permission to Use the Newington Town Hall for the Zone 1
Public Hearing
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Newington Board of Selection
DATE: 18 July 1994
TYPE: Letter
SECOND REFERENCE: Zone 1
LOCATION: ARF(Section 10.10 Binder)

DOCUMENT NUMBER: PEA (10.10) #24 001-001
LONG TITLE: SCOPE
AUTHOR: Bradley Lown, Portsmouth, NH
RECIPIENT: Arthur Ditto, AFBCA
DATE: 01 March 1995
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 10.10 Binder)

DOCUMENT NUMBER: PEA (10.10) #25 001
LONG TITLE: Zone 3 and Site 32/36; Proposed Plan Public Comment Period
AUTHOR: Arthur Ditto, AFBCA
RECIPIENT: Richard Pease, NHDES
DATE: 01 May 1995
TYPE: Letter
SECOND REFERENCE: Zone 3; Site 32/36
LOCATION: ARF(Section 10.10 Binder)

DOCUMENT NUMBER: PEA (10.10) #26 001-002
LONG TITLE: Surface Water Sampling Pease AFB/Airport Road, Newington, Subject: Results of
Volatile Organic Chemicals and Pesticide Analysis
AUTHOR: Richard Pease, NHDES
RECIPIENT: Peggy Lamson, Newington Health Officer
DATE: 25 May 1995
TYPE: Letter
SECOND REFERENCE: Site 45
LOCATION: ARF(Section 10.10 Binder)

11.1 EPA Headquarters Guidance

* NOTE: Guidance documents listed as bibliographic sources for a document already included in the Administrative Record are not listed separately in this index.

DOCUMENT NUMBER: PEA (11.1) #1 001-003
LONG TITLE: Risk Assessment Issue Paper for Carcinogenicity Characterization for Trichloroethylene (CASRN 79-01-6), Tetrachloroethylene (CASRN 127-18-4), and Styrene (CASRN 100-42-5)
AUTHOR: EPA
RECIPIENT: USAF
DATE: 14 July 1992
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: ARF(Section 11.1 Binder)

DOCUMENT NUMBER: PEA (11.1) #2 001-G.2
LONG TITLE: Draft Guidance on Preparing Superfund Decision Documents: The Proposed Plan and Record of Decision
AUTHOR: Office of Emergency & Remedial Response, EPA, Washington, DC
RECIPIENT: USAF
DATE: March 1998w
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.1) #3 001-B9
LONG TITLE: The RPM Primer: An Introductory Guide to the Role and Responsibilities of the Superfund Remedial Project Manager
AUTHOR: Office of Emergency and Remedial Response, EPA, Washington DC
RECIPIENT: USAF
DATE: September 1987
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Dittos Office

DOCUMENT NUMBER: PEA (11.1) #4 001-11.1
LONG TITLE: CERCLA Site Discrepancies to POTWs Guidance Manual
AUTHOR: Office of Emergency and Remedial Response, EPA, Washington, DC
RECIPIENT: USAF
DATE: August 1990
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.1) #5 001-041
LONG TITLE: Framework for Ecological Risk Assessment
AUTHOR: EPA
RECIPIENT: USAF
DATE: February 1992
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.1) #6 001-E.1
LONG TITLE: Preliminary Assessment Guidance Fiscal Year 1988
AUTHOR: Office of Emergency and Remedial Response, EPA, Washington, DC
RECIPIENT: USAF
DATE: January 1988
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.1) #7 001-I.13
LONG TITLE: Community Relations in Superfund: A Handbook
AUTHOR: Office of Emergency and Remedial Response, EPA, Washington, DC
(EPA/540/R-92/009)
RECIPIENT: USAF
DATE: January 1992
TYPE: Guidance
SECOND REFERENCE: PEA (10.0)
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.1) #8 001-H.6
LONG TITLE: Summary Report on Issues in Ecological Risk Assessment
AUTHOR: EPA
RECIPIENT: USAF
DATE: February 1991
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.1) #9 001-127
LONG TITLE: Technology Screening Guide for Treatment of CERCLA Soils and Sludges
AUTHOR: EPA
RECIPIENT: USAF
DATE: September 1988
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.1) #10 001-F.19
LONG TITLE: Guidance for Conducting Remedial Investigations and Feasibility Studies
Under CERCLA - Interim Final
AUTHOR: Office of Emergency and Remedial Response EPA, Washington DC
RECIPIENT: USAF
DATE: October 1988
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.1) #11 001-103
LONG TITLE: Final Guidance on Administrative Records for Selecting CERCLA Response Actions
AUTHOR: Office of Solid Waste and Emergency Response EPA, Washington, DC
RECIPIENT: USAF
DATE: 11/90/91
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.1) #12 001-B.2
LONG TITLE: Implementing EPA's Groundwater Protection Strategy for the 1990's; Draft
Comprehensive State Groundwater Protection Program Guidance
AUTHOR: EPA
RECIPIENT: USAF
DATE: 1992
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.1) #13 001-021
LONG TITLE: A Handbook for State Groundwater Managers
AUTHOR: Office of Water, EPA, Washington, DC
RECIPIENT: USAF
DATE: May 1992
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.1) #14 001-3.40
LONG TITLE: Conducting Remedial Investigations/Feasibility Studies for CERCLA
Municipal Landfill Sites
AUTHOR: Office of Emergency and Remedial Response, EPA, Washington, DC
RECIPIENT: USAF
DATE: February 1991
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.1)#15 001-F.2
LONG TITLE: Guidance on Preparing Superfund Decision Documents: The Proposed Plan, The
record of Decision, and Explanation of Significant Differences, The Record
of Decision Amendment
AUTHOR: Office of Emergency and Remedial Response, EPA, Washington, DC
RECIPIENT: USAF
DATE: July 1989
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.1)#16 001-B.12
LONG TITLE: Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation
Manual (Part A)Interim Final
AUTHOR: Office of Emergency and Remedial Response, EPA, Washington, DC
RECIPIENT: USAF
DATE: December 1989
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.1)#17 001-057
LONG TITLE: Risk Assessment Guidance for Superfund Volume II: Environmental Evaluation
Manual Interim Final
AUTHOR: Office of Emergency and Remedial Response, EPA, Washington, DC
RECIPIENT: USAF
DATE: March 1989
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.1)#18 --- Deleted

DOCUMENT NUMBER: PEA (11.1)#19 001-B.2
LONG TITLE: Superfund Removal Procedures Action Memorandum Guidance
AUTHOR: EPA
RECIPIENT: USAF
DATE: December 1990
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.1)#20 001-G
LONG TITLE: RCRA Orientation Manual
AUTHOR: EPA
RECIPIENT: USAF
DATE: 1990
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.1)#21 001-295
LONG TITLE: The Superfund Innovative Technology Evaluation Program: Technology Profiles
AUTHOR: EPA
RECIPIENT: USAF
DATE: November 1991
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.1)#22 001-017
LONG TITLE: Accessing Federal Data Bases For Contaminated Site Clean-Up Technologies
AUTHOR: EPA
RECIPIENT: USAF
DATE: May 1991
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.1)#23 001-023
LONG TITLE: Bibliography of Federal Reports and Publications Describing Alternatives and Innovative Treatment Technologies for Corrective Action and Site Remediation
AUTHOR: EPA
RECIPIENT: USAF
DATE: May 1991
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.1)#24 001-111
LONG TITLE: Synopses of Federal Demonstrations of Innovative Site Remediation Technologies
AUTHOR: EPA
RECIPIENT: USAF
DATE: May 1991
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.1)#25 001-A.20
LONG TITLE: CERCLA Compliancy with Other Laws Manual: Interim Final
AUTHOR: USEPA, Office of Emergency and Remedial Response. Washington. D.C.
RECIPIENT: USAF
DATE: August 1988
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.1)#26 001-A.6
LONG TITLE: Ecological Assessments of Hazardous Waste Sites: A Field and Laboratory Reference Document
AUTHOR: USEPA, Office of Research and Development. Washington. D.C.
RECIPIENT: USAF
DATE: March 1989
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.1)#27 001-E.8
LONG TITLE: Guidance for Performing Site Inspections Under CERCLA
AUTHOR: USEPA, Office of Research and Development. Washington. D.C.
RECIPIENT: USAF
DATE: September 1992
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.1)#28 001-E.11
LONG TITLE: Guidance for Performing Preliminary Assessments Under CERCLA
AUTHOR: USEPA, Office of Research and Development. Washington. D.C.
RECIPIENT: USAF
DATE: September 1991
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.1)#29 001-A.57
LONG TITLE: Hazard Ranking System Guidance Manual
AUTHOR: USEPA, Office of Solid Waste and Emergency Response
RECIPIENT: USAF
DATE: November 1992
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.1)#30 51532-51667
LONG TITLE: Federal Register: Part II. Environmental Protection Agency 40 CFR Part 300,
Hazard Ranking System Final Rule
AUTHOR: USEPA
RECIPIENT: USAF
DATE: 14 December 1990
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.1)#31 001-054
LONG TITLE: Risk Assessment Guidance for Superfund: Volume 1 - Human Health Evaluation
Manual (Part B, Development of Risk-Based Preliminary Remediation Goals)
AUTHOR: USEPA, Office of Research and Development
RECIPIENT: USAF
DATE: December 1991
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.1)#32 001-065
LONG TITLE: Risk Assessment Guidance for Superfund: Volume 1 - Human Health Evaluation
Manual (Part C, Risk Evaluation of Remediation Alternatives)
AUTHOR: USEPA, Office of Research and Development
RECIPIENT: USAF
DATE: December 1991
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.1)#33 8813-8865
LONG TITLE: Federal Register: Part II. Environmental Protection Agency 40 CFR Part 300.
National Oil and Hazardous Substances Pollution Contingency Plan Final Rule
AUTHOR: EPA
RECIPIENT: USAF
DATE: 08 March 1990
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.1)#34 001-008
LONG TITLE: Final Guidance on Administrative Records for Selecting CERCLA Response Actions
AUTHOR: EPA
RECIPIENT: USAF
DATE: 20 December 1993
TYPE: Letter with attachments
SECOND REFERENCE: None
LOCATION: ARF Section 11.1 Binder)

11.2 EPA Regional Guidance

*Note: Guidance documents listed as bibliographic sources for a document already included in the Administrative Record are not listed separately in this index.

DOCUMENT NUMBER: PEA (11.2)#1 001-C.1
LONG TITLE: Land Disposal Restrictions Summary of Requirements
AUTHOR: EPA, Region 1
RECIPIENT: USAF
DATE: August 1990
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.2)#2 001-107
LONG TITLE: Supplemental Risk Assessment Guidance for the Superfund Program
AUTHOR: EPA, Region 1
RECIPIENT: USAF
DATE: June 1989
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

11.3 State Guidance

* Note: Guidance Documents listed as bibliographical sources for a document already included in the Administrative record are not listed separately in this index.

DOCUMENT NUMBER: PEA (11.3)#1 001-B.8
LONG TITLE: Interim Policy for the Management of Soils Contaminated from Spills/Releases of Virgin Petroleum Products
AUTHOR: NHDES
RECIPIENT: USAF
DATE: September 1991
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.3)#2 001-C.15
LONG TITLE: Guidance Document for the Closure of Solid Waste Landfills in New Hampshire
AUTHOR: NHDES
RECIPIENT: USAF
DATE: May 1990
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.3)#3 001-D.7
LONG TITLE: Guidebook for Environmental Permits in New Hampshire
AUTHOR: NHDES
RECIPIENT: USAF
DATE: 1992
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.3)#4 001-017
LONG TITLE: List of Standards and Advisory Levels Used by New Hampshire Division of Public Health Services to Evaluate Drinking Water Quality
AUTHOR: New Hampshire Department of Health and Human Services, Division of Public Health Services
RECIPIENT: Arthur Ditto, AFBCA
DATE: 7 January 1993
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: ARF (Section 11.3 Binder)

DOCUMENT NUMBER: PEA (11.3)#5 001-039
LONG TITLE: New Hampshire Code of Administrative Rules, Part Env-A 1121
AUTHOR: State of New Hampshire
RECIPIENT: Arthur Ditto, AFBCA
DATE: 12 August 1994
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: ARF (Section 11.3 Binder)

DOCUMENT NUMBER: PEA (11.3)#6 001-015
LONG TITLE: State of New Hampshire Human Health risk Assessment Protocols
AUTHOR: Richard Pease, EPA Region
RECIPIENT: Arthur Ditto, AFBCA
DATE: 10 April 19954
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: ARF (Section 11.3 Binder)

11.4 Air Force Guidance

* Note: Guidance documents listed as bibliographic sources for a document already included in the Administrative Record are not listed separately in this index.

DOCUMENT NUMBER: PEA (11.4)#1 001-024
LONG TITLE: Ecological Risk Assessment Guidance for Pease AFB. New Hampshire
AUTHOR: Mitre Corporation. Civil Systems Division
RECIPIENT: USAF
DATE: 20 June 1990
TYPE: Letter report
SECOND REFERENCE: None
LOCATION: ARF (Section 11.4 Binder)

DOCUMENT NUMBER: PEA (11.4)#2 001-016
LONG TITLE: Implementation of Department of Defense (DOD) Policy Guidance on IRP Policy No. 1
AUTHOR: Department of the Air Force
RECIPIENT: See Distribution List
DATE: 11 December 1981
TYPE: Policy Guidance Document
SECOND REFERENCE: None
LOCATION: ARF (Section 11.4 Binder)

DOCUMENT NUMBER: PEA (11.4)#4 001-003
LONG TITLE: Relationship of the IRP to RCRA Enforcement Actions
AUTHOR: Department of the Air Force
RECIPIENT: See Distribution List
DATE: 26 December 1985
TYPE: Policy Document
SECOND REFERENCE: None
LOCATION: ARF (Section 11.4 Binder)

DOCUMENT NUMBER: PEA (11.4)#5 001-002
LONG TITLE: Guidance for Air Force Installation Compliancy with Volatile Organic Compound Regulations
AUTHOR: Department of the Air Force
RECIPIENT: See Distribution List
DATE: 8 October 198681
TYPE: Guidance Document
SECOND REFERENCE: None
LOCATION: ARF (Section 11.4 Binder)

DOCUMENT NUMBER: PEA (11.4)#6 001-003
LONG TITLE: IRP Decision Documentation Policy
AUTHOR: Department of the Air Force"
RECIPIENT: See Distribution List
DATE: 25 May 1988
TYPE: Policy Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 11.4 Binder)

DOCUMENT NUMBER: PEA (11.4)#7 001-003
LONG TITLE: RCRA Facility Assessment Guidance to Installation
AUTHOR: Department of the Air Force
RECIPIENT: See Distribution List
DATE: 3 August 1988
TYPE: Guidance Document
SECOND REFERENCE: None
LOCATION: ARF (Section 11.4 Binder)

DOCUMENT NUMBER: PEA (11.4)#8 001-003
LONG TITLE: Guidance on Base Map Construction and Digitization D.O. 006 Pease AFB
AUTHOR: Department of the Air Force
RECIPIENT: Roy F. Weston. Inc.
DATE: 6 March 1989
TYPE: Guidance Document
SECOND REFERENCE: None
LOCATION: ARF (Section 11.4 Binder)

DOCUMENT NUMBER: PEA (11.4)#9 001-1.3
LONG TITLE: Handbook to Support the Installation Restoration Program Statements of Work
for Remedial Investigation/Feasibility Studies Version 3.0
AUTHOR: Air Force Occupational and Environmental Health Laboratory Technical Services
Division
RECIPIENT: Pease AFB
DATE: May 1989
TYPE: Handbook
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.4)#10 001-087
LONG TITLE: Air Force Logistics Command Public Affairs Environmental Guidance
AUTHOR: USAF
RECIPIENT: Pease AFB
DATE: March 31, 1989
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.4)#11 001-IX.A1.3
LONG TITLE: Recommended Sampling Procedures
AUTHOR: Air Force Occupational and Environmental Health Laboratory Technical
Services Division
RECIPIENT: Pease AFB
DATE: March 1989
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.4)#12 001-1.5
LONG TITLE: Initiatives for Accelerating Cleanup at BRAC Installations
AUTHOR: Department of Defense
RECIPIENT: Pease AFB
DATE: June 1992
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.4)#13 - Deleted

DOCUMENT NUMBER: PEA (11.4)#14 001-104
LONG TITLE: Air Force Base Conversion Agency Environmental Public Affairs Guidance
AUTHOR: AFBCA/External Affairs
RECIPIENT: Site Managers and Base Environmental Coordinators
DATE: December 1994
TYPE: Guidance
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.5)#1 001-080
LONG TITLE: Geology and Groundwater Resources of Southeastern New Hampshire
AUTHOR: U.S. Geological Survey and Environmental Health Laboratory Technical Services Division
RECIPIENT: USAF
DATE: 1964
TYPE: Technical Source
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.5)#2 001-010
LONG TITLE: Preliminary Wetland Delineation and Evaluation Report for Pease Air Force Base, NH - Draft
AUTHOR: The Smart Associates, Environmental Consultants, Inc.
RECIPIENT: USAF
DATE: April 1990
TYPE: Technical Source
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.5)#3 001-222
LONG TITLE: The Ecology of the Great Bay Estuary, New Hampshire and Maine: An Estuarine Profile and Bibliography
AUTHOR: Jackson Estuarine Laboratory, Durham, NH
RECIPIENT: USAF
DATE: October 1992
TYPE: Technical Source
SECOND REFERENCE: None
LOCATION: Arthur Ditto's Office

DOCUMENT NUMBER: PEA (11.6)#9 001-005
LONG TITLE: Risk Assessment Data Needs and Sampling Procedures Letter Report
AUTHOR: Roy F. Weston. Inc.
RECIPIENT: EPA: NHDES: USAF
DATE: 8 March 1991
TYPE: Letter Report
SECOND REFERENCE: None
LOCATION: ARF (Section 11.6 Binder)

DOCUMENT NUMBER: PEA (11.6)#2 001-051
LONG TITLE: Analytical Methods Letter Report -- Supplemental Information to Stage 4 Sampling and Analyses Plan
AUTHOR: Roy F. Weston. Inc.
RECIPIENT: EPA: NHDES: USAF
DATE: 23 April 1991
TYPE: Letter Report
SECOND REFERENCE: None
LOCATION: ARF

DOCUMENT NUMBER: PEA (11.6)#3 001-055
LONG TITLE: Protocols for Generation of Baseline Risk Assessments for the Pease AFB Sites-- Revised
AUTHOR: Roy F. Weston. Inc.
RECIPIENT: EPA: NHDES: USAF
DATE: July 1991
TYPE: Report
SECOND REFERENCE: None
LOCATION: ARF

11.7 Correspondence

DOCUMENT NUMBER: PEA (11.7)#1 001-006
LONG TITLE: Letter to EPA Requesting Review and Concurrence of risk Assessment Data and Sampling Procedure Letter Report
AUTHOR: USAF
RECIPIENT: EPA
DATE: 20 March 1991
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 11.7 Binder)

DOCUMENT NUMBER: PEA (11.7)#2 001-002
LONG TITLE: Analytical Methods for Pease AFB
AUTHOR: Roy F. Weston. Inc.
RECIPIENT: USAF
DATE: 23 April 1991
TYPE: Letter
SECOND REFERENCE: None
LOCATION: ARF (Section 11.7 Binder)

DOCUMENT NUMBER: PEA (11.7)#3 001-001
LONG TITLE: Consolidated Background Values Letter Report
AUTHOR: USAF
RECIPIENT: Richard Pease. NHDES
Johanna Hunter. EPA
DATE: March 9. 1993
TYPE: Letter Report
SECOND REFERENCE: None
LOCATION: ARF (Section 11.7 Binder)

12.1 Privileged Documents (Extractions)

* NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME