

Table 1-1
Summary of Previous Investigations and Remediations
Bailey Point

Description	Date	Preparer	Summary
Environmental Surveillance and Studies	4/78	Maine Yankee	Final report of surveillance studies performed at Maine Yankee from 1969 through 1977 in order to determine the environmental impact of plant operation.
Evaluation of Ultimate Fate of Chromium	3/89	Robert G. Gerber, Inc.	The report summarizes the evaluation of the potential pathways from a 12,000 gallon underground pipe leak of 700 ppm sodium chromate and estimates maximum possible concentrations reaching various points in the environment based on preliminary modeling. Installation of monitoring wells in bedrock was recommended.
Sodium Chromate Spill Summary Report	6/89	Robert G. Gerber, Inc.	Submission of B-200 series drilling logs and initial water levels, temperature, and conductivity in monitoring wells installed to look for sodium chromate in groundwater.
Sodium Chromate Spill Summary Report	3/90	Robert G. Gerber, Inc.	Summary report of activities done to remediate and evaluate groundwater impacts from spill. Study presents CFS flow calculations, precipitation data, chemical analysis, analysis of saltwater intrusion, water level measurements, and temperature and conductivity measurements from May to December 1989. Chromate had moved out of the groundwater system.
Underground Gasoline Tank Facility Closure Site Assessment	1/92	Robert G. Gerber, Inc.	Site assessment associated with removal of 1,000 gallon underground gas tank northeast of information center. Field headspace on soils and water collected from excavation during tank removal indicated minor leakage of gasoline had occurred.
Underground Gasoline Tank Facility Closure Site Assessment	4/92	Robert G. Gerber, Inc.	A PVC monitoring well was located 10 feet from the former tank location. No gasoline was detected in the groundwater. Contaminated soil was remediated.
Site Assessment for Ferrous Sulfate Tank	2/92	Robert G. Gerber, Inc.	The report summarizes closure activities that included removing liquid remaining in the tank, cleaning the tank, and filling the tank in place.
Groundwater Monitoring Related to Component Cooling Change in Service	10/92	Robert G. Gerber, Inc.	The report summarizes groundwater monitoring completed in 1989 and 1992. The only evidence of significant groundwater impact was associated with seawater intrusion.
Groundwater Monitoring for the Ferrous Sulfate Tank Abandonment	2/92	Robert G. Gerber, Inc.	Site assessment report at time of tank closure. Results of monitoring well installation, water levels and ferrous sulfate chemistry included.
Groundwater Monitoring for the Ferrous Sulfate Tank Abandonment	5/92	Robert G. Gerber, Inc.	Follow-up report on additional chemical sampling of groundwater and nearby seawater. The location appeared to be affected by saltwater intrusion and no further sampling was recommended for ferrous sulfate.
Groundwater Monitoring at Maine Yankee	9/92	Robert G. Gerber, Inc.	Provided a summary of comprehensive groundwater chemistry sampling in B-200 series wells, BK-1, CFS, MW-100, and seawater in March and August 1992. Exceedances of MCL's and MEG's occurred for iron, chloride, bromide, iodide, and TDS, due in part to seawater intrusion in some wells.
Evaluation of Contaminated Soil at Former Low Level Radioactive Waste Storage Area	10/92	Yankee Atomic Electric Co.	Evaluation report on the contaminated soil found in the area of the former low level radioactive waste storage area. The report describes remedial actions and concentrations remaining in soil.
RCRA Facility Assessment (RFA)	8/92	MDEP	The RFA summarized the site setting, geology and spill history of the facility, and identified areas of concern (AOCs).

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Underground Diesel Fuel Storage Facility Site Closure Site Assessment	12/94	Robert G. Gerber, Inc.	Closure report associated with removal of two diesel fuel tanks south of the former Turbine Hall. The report concluded that neither of the tanks nor the associated piping had leaked and oily soil associated with the tank filling station was appropriately removed to Baseline Cleanup Standards. The MDEP concurred with the closure findings January 17, 1995.
Kerosene Leak, Spare Generator Enclosure	7/94	Robert G. Gerber, Inc.	Preliminary report summarizing results of fuel oil analysis of 2 surface water samples, 2 groundwater samples from test pits, and PID headspace readings on soil samples from test pits in the area of the spill. Monitoring well investigation recommended to further delineate groundwater impact.
Site Assessment Report of Kerosene Leak at Spare Generator Enclosure	8/94	Robert G. Gerber, Inc.	Summarized installation of 3 pairs of monitoring wells (soil and bedrock) and one soil boring. Groundwater flow to the west with upward vertical gradients. No kerosene detected below 9.5 feet because of presence of clay-silt. Recommended quarterly groundwater sampling for one year in overburden wells.
Groundwater Summary Report for Kerosene Leak at Spare Generator Enclosure	12/95	Robert G. Gerber, Inc.	Summarized quarterly testing of monitoring wells around kerosene leak site. No detectable concentrations of BTEX, TPH or oil and grease were found in any well during any quarterly sampling event.
Characterization Survey Report for the Maine Yankee Atomic Power Plant	4/98	GTS Duratek	Volume 7 (Hazardous Materials) presents study of soil, groundwater, sediment, and surface water samples collected from locations across the Maine Yankee site for initial, qualitative chemical analysis to support contractor bidding.
Classification and Disposition of Electrical Transformers	9/99	Maine Yankee	Pursuant to Maine Yankee's Site Location of Development order, information was provided to MDEP summarizing PCB information for the six transformers and disposition information.
ISFSI Trench Excavation Sampling and Analysis Plan	11/99	Stone & Webster	Plan to assess the soil excavated from the new storm drain/potable water line trench and the relocated sewer line trench associated with the ISFSI. This plan was required by MDEP Site Location of Development order for ISFSI.
Corrected MDEP RFA	11/99	MDEP	Corrected 1992 RFA presented by MDEP to Maine Yankee November 9, 1999.
Site History Report (SHR)	11/99	Stone & Webster	The report provided a detailed summary of historic releases of hazardous material to the environment and areas of concern initially summarized in the 1992 RFA (MDEP, 1992). It also summarized the field data obtained during the site characterization survey of hazardous materials completed by GTS Duratek in April 1998.
Kerosene Release Investigation	2/00	Stone & Webster	MDEP-approved sampling plan to assess the extent of any soil contamination in the area of the former spare generator storage building as a result of a kerosene leak. Comments received from MDEP 3/2/00 were incorporated into the investigation.
Characterization of Electrical Cables	6/00	Woodard & Curran	Sampling plan to evaluate cable sheathing from various electrical cables at Maine Yankee.
ISFSI Trench Excavation Sampling and Analysis Report	6/00	Stone & Webster	Report summarizing results of soil samples collected pursuant to the sampling and analysis plan submitted to MDEP (11/2/99) as required by MDEP Site Location permit.
Petroleum Contaminated Soils -	6/00	Stone &	Report summarizing remediation of petroleum contaminated soil discovered on March 16, 2000,

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ISFSI Sewer Line Trench		Webster	during installation of the ISFSI sewer line.
Kerosene Spill Report – Spare Generator Storage Enclosure	7/00	Stone & Webster	Presents the results of soil investigation performed in the vicinity of the former spare generator storage building March 6 and 7, 2000, in accordance with the MDEP-approved investigation plan (February 2000).
Barge Slip Access Road Improvements	7/00	Stone & Webster	In accordance with MDEP orders (Site Location and NRPA), soil samples were collected from four locations within the area disturbed by barge slip access road improvements.
Spray Chemical Addition Tank (SCAT) Closure Certification	7/00	Stone & Webster	Closure documentation to support closure of the SCAT, submitted to MDEP July 13, 2000. The closure was conducted in accordance with an MDEP-approved closure plan submitted to MDEP on January 11, 2000.
ISFSI RFI Sampling Results	8/00	Maine Yankee	Summary of RFI sampling performed within the ISFSI area (Study Area 4) prior to construction. A response to MDEP comments was provided to MDEP December 14, 2000.
Kerosene Spill Remediation Plan	8/00	Stratex, LLC	Plan to remediate kerosene-contaminated soil in the area of the former spare generator storage building. The plan was approved by MDEP August 23, 2000.
Kerosene Spill Remediation	9/00	Stratex, LLC	Presents the results of soil remediation performed August 24, 25 and 28, 2000, which resulted in the removal of 1,700 tons of kerosene-contaminated soil from the site of the former spare generator storage building.
ISFSI Soil Remediation Plan	9/00	Stratex, LLC	MDEP-approved plan to remediated petroleum-contaminated soil discovered during construction of ISFSI on August 28, 2000.
Report on August 28, 2000 ISFSI Spill Discovery Remediation	10/00	Jacques Whitford	Results of remediation of petroleum-contaminated soil discovered on August 28, 2000, during construction of ISFSI. Approximately 30 cubic yards of soil was excavated August 30 and September 7, 2000.
Building Assessment Plan (BAP)	10/00	Stratex, LLC	The BAP developed an understanding of the various processes conducted at the Maine Yankee facility, summarized known and documented spill histories and releases, and identified a level of environmental concern for each of the buildings and structures at the facility.
Lube Oil Storage Room Closure Plan	2/01	Stratex, LLC	MDEP-approved plan to close Maine Yankee’s Interim Hazardous Waste Facility, the Lube Oil Storage Room, in accordance with CMR Chapter 855. The Plan was approved by MDEP February 26, 2001.
Concrete Waste Characterization Program	3/01	Maine Yankee	Plan that describes the sampling and analysis program to determine the radiological and potential hazardous waste characteristics of the concrete waste that will be shipped off-site for disposal or temporarily stored in on-site storage areas. The plan was approved by MDEP and placed in the Operations Manual for the temporary solid waste storage areas.
Waste Concrete Characterization Report	4/01	Stratex, LLC	Results of extensive concrete sampling performed at Maine Yankee in accordance with MDEP-approved program (3/29/01). The report concludes that concrete at Maine Yankee is non-hazardous.
Building Walkdown Assessment Data Packages	5/01	Stratex, LLC	The data packages document the results of visual site inspections of buildings/structures at the Maine Yankee site performed in accordance with the BAP.

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Certification of Closure-Hazardous Waste Treatment Facility Abbreviated License for Treatment in Tanks	8/01	Stratex, LLC	Closure certification associated with a cable stripping/granulator operated at Maine Yankee from March 2001 through June 2001 within the former Turbine Hall. The certification concluded that the facility was appropriately cleaned prior to removal and that the required test samples did not indicate detectable levels of PCBs.
Additional Building Walkdown Assessment Data Packages	11/01	Stratex, LLC	Additional data packages that document the results of sump/trench inspections performed between 5/9/01 and 10/2/01 in accordance with the BAP.
November 9, 2001 Hydraulic Oil Spill in Restricted Area	12/01	Jacques Whitford	Report documenting remedial activities performed following a crane hydraulic hose leak in the RA area.
ISFSI Form Oil Release Clean-up	12/01	Jacques Whitford	Report documenting removal of soils impacted by form oil, which was applied to wooden concrete forms used to construct ISFSI storage casks.
Ferrous Sulfate Tank Removal Notification	1/02	Maine Yankee	Notification to MDEP of removal of the 9400 gallon ferrous sulfate tank. The tank was removed as part of RFI activities on November 28, 2001. Closure photographs were submitted to MDEP on November 28, 2001, following tank removal as required by Maine Yankee's Site Location/NRPA permit.
April 1, 2002 Hydraulic Oil Spill	5/02	Jacques Whitford	Report documenting remedial activities performed following a crane hydraulic hose leak in the RA area.
Forebay Remediation Plan – Phase 1	6/02	Maine Yankee	As required by Maine Yankee's Site Location/NRPA permit, the first phase of planning for remediation of the forebay was submitted to MDEP. Phase I consisted of further characterization activities to determine the extent of contamination, support remedial alternative analysis, and select dewatering options.
Lube Oil Storage Room Closure Certification	8/02	Stratex, LLC	Final Hazardous Waste Closure Certification of Lube Oil Storage Room, which was prepared in accordance with MDEP-approved Plan. The Closure document was submitted to MDEP August 28, 2002, and a subsequent certification letter was submitted to MDEP October 2, 2002. MDEP concurred that the closure meets the certification requirements of Chapter 855 of the Maine Hazardous Waste Management Rules on 11/28/02.
Removal of PCB Bulk Product Waste from Concrete Blocks	10/02	Maine Yankee	Report submitted to EPA that summarizes removal of PCB Bulk Product Waste paint from concrete removed from the containment building. All the concrete samples collected following paint removal confirmed that the PCB concentrations were below the residual limit of 1 ppm PCBs.
Final Building Walkdown Assessments	11/02	Jacques Whitford	Additional data packages that document the results of the remaining building assessments performed in accordance with the BAP.
Forebay Remediation Plan – Phase 2	12/02	Maine Yankee	As required by Maine Yankee's Site Location/NRPA permit, the second phase of planning for remediation of the forebay was submitted to MDEP. Phase 2 evaluated remedial alternatives, dewatering options, and end-state alternatives.
Removal of PAB Alleyway Soils	4/03	Jacques Whitford	Report documenting remedial activities performed following a discovery of an historic petroleum-contaminated area during excavation in the PAB Alleyway in the RA area.

Table 1-2
Summary of Project Meetings and Status Reports

Description	Date	Summary
RFI Field Training	September 10/11, 2001	Two day field training seminar held at Maine Yankee for all personnel (including MDEP and EPA) involved with RFI work. The training included an overview of sampling procedures for each media and sample screening required by Maine Yankee prior to release from the site to analytical laboratories.
Project Status Report	October 2001	<ul style="list-style-type: none"> • Began RFI field work September 17, 2001. • Developed response matrix for outstanding QAPP comments. • Integrated additional laboratory (SWRI) to receive radiological samples. • Initiated Field and Laboratory Technical System Audits (TSAs). • Summary of weekly status calls with MDEP July 9th, 16th, 24th, and 30th; August 6th, 13th and 20th; September 24th; and October 1st. • RFI Phase 1 field work over 70 percent complete.
Risk Assessment Meeting	October 9, 2001	Meeting held with MDEP and EPA at Maine Yankee to discuss the methodology for conducting the baseline Human Health Exposure Assessment (HHEA) submitted to the MDEP/EPA (draft) on September 13, 2001.
Project Status Report	November 2001	<ul style="list-style-type: none"> • Developed technical memorandum (November 21, 2001) summarizing an evaluation of bulk sediment chemical data from the initial round of outfall sediment sample collection and held a conference call with MDEP (see below). • Submitted Field TSA Report to MDEP November 15, 2001. • Developed Field TSA Corrective Action Report. • Distributed revised QAPP pages based on resolution of MDEP/EPA outstanding comments and Field TSA findings. • Held weekly status calls with MDEP the 5th, 13th, 19th, and 26th. • RFI Phase 1 field work over 75 percent complete.
Outfall Toxicity Sediment Sampling	November 8, 2001	Conference call with MDEP to discuss the results of the initial round of outfall bulk sediment chemical data and to decide which locations should be resampled for toxicity analysis.
Project Status Report	December 2001	<ul style="list-style-type: none"> • MDEP final approval of QAPP on December 11, 2001. • Distributed revised QAPP pages based on changes to the groundwater sampling procedure and to provide laboratory SOPs. • Submitted QAPP Change Order No. 1, which was based primarily on changed field conditions encountered during initial field activities. • Completed Laboratory TSA. • Held weekly status calls with MDEP the 3rd and 10th. • RFI Phase 1 field work about 80 percent complete. • Completed Phase 1A RFI field work December 13, 2001.
Project Status Report	January 2002	<ul style="list-style-type: none"> • No field work performed. • Completed sample analyses and validation for samples collected from the Backlands (Study Area 1 and 2). • Initiated development of Backlands RFI Report.

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		<ul style="list-style-type: none"> • Held weekly status calls with MDEP the 7th, 14th and 28th. • Completed Laboratory TSA Report and Corrective Action Report.
RFI Project Meeting	January 31, 2002	Project team meeting held at Maine Yankee to discuss lessons learned during the Phase 1A field program and plan for Phase 1B work.
Project Status Report	February 2002	<ul style="list-style-type: none"> • No field work performed. • Completed Phase 1A sample analyses. • Held weekly status calls with MDEP the 4th, 11th and 25th. • Submitted Laboratory TSA Report and Corrective Action Report to MDEP February 14, 2002. • Submitted Draft Backlands RFI Report to MDEP February 27, 2002.
Project Status Report	March 2002	<ul style="list-style-type: none"> • No field work performed. • Completed Phase 1A data validation. • Project coordination meeting held with MDEP March 19th (see below). • Held weekly status calls with MDEP the 4th, 11th and 25th.
MDEP Project Meeting	March 19, 2002	Project coordination meeting held with MDEP and EPA in Portland, Maine, to discuss preliminary Phase 1A results and proposed additions to the Phase 1B program.
Project Status Report	April 2002	<ul style="list-style-type: none"> • Began Phase 1B field work April 8, 2002. • Submitted QAPP Change Order No. 2, which included an expansion of the investigation in the Backlands (Relic Dump 2) and Bailey Point. • Conducted Data Validation TSA. • Received comments from MDEP on the Draft Backlands RFI Report April 17th. • Held weekly status calls with MDEP the 23rd and 30th.
Project Status Report	May 2002	<ul style="list-style-type: none"> • Developed technical memorandum (May 15, 2002) for risk characterization results for the stormwater outfalls based on chemical, toxicity and benthic data collected to date. • Held meeting onsite with MDEP on May 29, 2002, to discuss additional sample scope at the 345 kV silt spreading/ball field area and stormwater outfalls (see below). • Submitted Data Validation TSA to MDEP May 30, 2002. • Held weekly status calls with MDEP the 7th, 14th and 28th. • RFI Phase 1 field work nearly 90 percent complete.
MDEP Site Meeting	May 29, 2002	Meeting held at Maine Yankee to discuss additional sampling within the 345 kV silt spreading/ball field area and the preliminary ecological risk assessment performed for the outfall areas based on Phase 1A bulk chemical, toxicity and benthic community analytical results. It was concluded that the sampling program in the 345 kV transmission line/silt spreading/ball field area would be expanded and that no further sediment characterization was necessary to support the offshore ecological risk assessment.
Project Status Report	June 2002	<ul style="list-style-type: none"> • Submitted QAPP Change Order No. 3, which provided additional analytical protocol and an expanded investigation program in the 345 kV transmission line area.

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Description	Date	Summary
		<ul style="list-style-type: none"> • An additional audit of Katahdin Analytical Services was performed on June 18, 2002, as a result of missing hold times for mercury analysis on soil samples collected from the Turbine Hall area. • Received additional comments on the Draft Backlands RFI Report from the Bureau of Health on June 21st. • Held weekly status calls with MDEP the 4th, 10th, 19th, and 25th. • RFI Phase 1 field work about 98 percent complete.
Project Status Report	July 2002	<ul style="list-style-type: none"> • Submitted plan to remediate soils at Relic Dump 2 in the Backlands to MDEP July 18, 2002. • Submitted response to MDEP comments on the Draft Backlands RFI Report to MDEP July 31, 2002. • Held weekly status calls with MDEP the 2nd, 9th, 16th, 23rd, and 30th. • Completed Phase 1B field work activities July 17, 2002.
Project Status Report	August 2002	<ul style="list-style-type: none"> • Submitted plan to remediate soils at Eaton Farm in the Backlands to MDEP August 15, 2002. • Initiated field work associated with data gaps identified in Phase 1. • Installed additional wells in the Relic Dump 2 area of the Backlands. • Held weekly status call with MDEP on the 13th and 20th.
Project Status Report	September 2002	<ul style="list-style-type: none"> • Performed synoptic water level measurements from installed wells during historic low water period. • Performed groundwater sampling associated with identified Phase 1 data gaps and newly installed wells. • Project coordination meeting held with MDEP September 12th (see below). • Held weekly status calls with MDEP the 3rd, 10th, 17th and 24th.
MDEP Project Meeting	September 12, 2002	Project coordination meeting held with MDEP and EPA in Portland, Maine, to discuss preliminary Phase 1B results and proposed additions to the RFI program.
Project Status Report	October 2002	<ul style="list-style-type: none"> • Performed groundwater sampling at identified Phase I data gap locations. • Collected additional sediment samples at Outfall 009 for bounding purposes and from a gully west of the 345 kV transmission line/ballfield area at the request of MDEP. • Initiated remedial activities at the Eaton Farm Carriage House and Relic Dump 2 in the Backlands. • Identified additional relic dump in the Backlands (Relic Dump 12). • Submitted well abandonment procedure to MDEP for review. • Held weekly status calls with MDEP the 1st, 8th, 15th, 22nd, and 29th.
MDEP Ecological Risk Conference Call	October 3, 2002	Conference call with MDEP to discuss stormwater outfall sediment sample analytical results and ecological risk approach to support remedial plans for Outfall 009.
Project Status Report	November 2002	<ul style="list-style-type: none"> • Collected confirmatory samples following remediation of soils at Relic Dump 2 and Eaton Farm Carriage House, and removal of debris from Relic Dump 12. • Completed building assessment activities as required by the BAP. • Held weekly status calls with MDEP on the 5th, 19th and 26th. • Completed RFI Phase I data gap sampling activities on November 14, 2002.

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Description	Date	Summary
Project Status Report	December 2002	<ul style="list-style-type: none"> • Submitted QAPP Change Order No. 4, which was a result of conditions encountered in the field, collection of additional samples based on an evaluation of data collected in Phase I, and comments received from the MDEP. • Submitted SOP 20 to support future abandonment (closure) of site monitoring wells. • Laboratory analysis of Phase I data gap and Relic Dump samples completed. • A plan to remediate radioactively contaminated sediments within the Forebay was submitted to MDEP December 19, 2002. • Held status calls with MDEP on the 10th and 17th.
Project Status Report	January 2003	<ul style="list-style-type: none"> • Submittal of draft Human Health Exposure Assessment document (Rev. 1) to MDEP January 15, 2003. • Data validation of Phase I data gap and Relic Dump 2 laboratory results complete. • Submitted revised Cumulative Risk Assessment Framework document to MDEP January 22, 2003. • Held weekly status calls with MDEP the 7th and 28th.
Project Status Report	February 2003	<ul style="list-style-type: none"> • Collected water samples from the PAB Test Pit. • Held weekly status calls with MDEP on the 25th.
Project Status Report	March 2003	<ul style="list-style-type: none"> • Submitted draft Backlands RFI Report (Rev. 1) to MDEP March 11, 2003. • Received comments from MDEP on the revised draft HHEA document (Rev. 1). • Provided response to MDEP comments on the HHEA. • Held weekly status calls with MDEP on the 25th.
Project Status Report	April 2003	<ul style="list-style-type: none"> • Groundwater samples and water levels obtained from Relic Dump 2 monitoring wells. • Submitted draft Backlands Closure Report to MDEP April 10, 2003. • MDEP provided comments on Maine Yankee response to HHEA comments on April 11, 2003 and conditional approval of HHEA approach. • MDEP approval of Outfall 009 Remediation Plan April 14, 2003.
Project Status Report	May 2003	<ul style="list-style-type: none"> • MDEP completed review of Backlands RFI and Closure Reports May 15, 2003. • Provided MDEP response to outstanding comments on the revised HHEA May 7, 2003. • Held routine status call with MDEP on the 20th.
MDEP Routine Status Calls	June 2003 – August 2003	Held routine status calls with MDEP/EPA on 6/24, 7/15 and 8/19.
MDEP Project Meeting	August 13, 2003	Project coordination meeting held with MDEP, MBOH and EPA at Maine Yankee, to discuss RFI findings and recommended actions.

Table 1-3
Summary of QAPP Change Orders

Description	Date	Summary
Change Order No. 1	December 12, 2001	<p><i>Study Area 1</i></p> <ul style="list-style-type: none"> • Installed additional monitoring wells to evaluate groundwater conditions beneath rubble piles; • Constructed additional test pits to evaluate soil within the rubble piles; and • Reconstructed and/or replaced reference wells as a result of damage and/or field conditions. <p><i>Study Area 5</i></p> <ul style="list-style-type: none"> • Installed additional collocated soil boring/monitoring well downgradient of leachfield; • Adjusted forebay sampling program based on remedial plans and field conditions; • Adjusted sampling program near the Information Center and the Construction Transformer south of the 115 kV switchyard based on proximity to structures; • Replaced a damaged monitoring well in Radiological Restricted Area; and • Constructed additional investigative test pits behind Warehouse 2/3. <p><i>Study Area 6</i></p> <ul style="list-style-type: none"> • No sediment available for collection at Outfall 009 intertidal location and Outfall 010 subtidal location; • Relocated reference sediment and biota sample locations to Brookings Bay in order to achieve more comparable conditions.
Change Order No. 2	April 8, 2002	<p><i>Study Area 2</i></p> <ul style="list-style-type: none"> • Collected additional soil samples and installed additional monitoring wells to evaluate conditions associated with a former homestead dumpsite (Relic Dump 2). <p><i>Study Area 4</i></p> <ul style="list-style-type: none"> • Perform a second round of groundwater sampling from existing monitoring wells. <p><i>Study Area 5</i></p> <ul style="list-style-type: none"> • Installed additional test pits within area of leachfield; • Collect additional soil samples in area of Construction Transformer, Former Truck Maintenance Garage, and Warehouse 2/3 based on detections in the Phase 1A sample program; • Install additional collocated soil borings/monitoring wells in the Warehouse 2/3 area; • Adjusted soil sampling plan around transformers based on demolition plans; • Perform a second round of groundwater sampling from wells installed in the Pre-operation Cleaning Basin Area and the Radiological Restricted Area; and • No soil available beneath several building slab locations in the Turbine Hall and Radiological Restricted Area. <p><i>Study Area 6</i></p> <ul style="list-style-type: none"> • Adjusted analytical protocol for the 28-day <i>Leptocheirus plumulosus</i> test based on newly promulgated procedure. <p>In addition, a second round of water level measurements were obtained from site monitoring wells and a second round of groundwater samples were collected from each reference well.</p>

Table 1-3
Summary of QAPP Change Orders

Description	Date	Summary
Change Order No. 3	June 20, 2002	<p><i>Study Area 5</i></p> <ul style="list-style-type: none"> • Expanded soil and groundwater investigation within the 345 kV transmission line area based on detections in the Phase 1A sampling program; and • Provided additional understanding of his torical fill activities within the 345 kV transmission line area. <p>At the request of MDEP, groundwater analysis for petroleum hydrocarbons will be performed using the MDEP Diesel Range Organics (DRO) Method versus EPH. Analytical procedures for the DRO method were provided in the Change Order.</p> <p>To support Maine Yankee’s License Termination Plan, additional Anion/Cation analysis was performed on selected Radiological Restricted Area monitoring wells. Analytical procedures to support Anion/Cation analysis were provided in the Change Order.</p>
Change Order No. 4	December 5, 2002	<p><i>Study Area 1</i></p> <ul style="list-style-type: none"> • Collected additional surface soil samples from the rubble pile area based on pesticide detection. <p><i>Study Area 2</i></p> <ul style="list-style-type: none"> • Installed additional monitoring wells and sampled groundwater to evaluate conditions associated with a former homestead dumpsite (Relic Dump 2); • Collect second round of groundwater samples from the initial monitoring wells installed at Relic Dump 2; and • Collect a surface soil sample following removal of debris from the newly discovered relic dump (Relic Dump 12). <p><i>Study Area 4</i></p> <ul style="list-style-type: none"> • Collect a third round of groundwater samples from overburden monitoring wells. <p><i>Study Area 5</i></p> <ul style="list-style-type: none"> • Perform a second round of groundwater sampling from selected RA and Turbine Hall area wells; • Collect a second round of groundwater samples from monitoring wells installed in the 345 kV Transmission Lines (Silt Spreading) area; • Install additional monitoring wells, soil borings and geoprobes around the Warehouse 2/3 complex; • Collect an additional round of groundwater samples from existing wells surrounding Warehouse 2/3; • Collect an additional groundwater sample from monitoring well north of ISFSI in the area of the Pre-Operation Cleaning Basin; • Install additional monitoring wells and perform second round of groundwater sampling in area of Former Truck Maintenance Garage; and • No soil available beneath several building slab locations in the Turbine Hall and Radiological Restricted Area and former Fire Pump House.

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Change Order No. 4, continued		<p data-bbox="642 350 783 375"><i>Study Area 6</i></p> <ul data-bbox="688 383 1902 472" style="list-style-type: none"> <li data-bbox="688 383 1860 407">• Collect additional sediment samples from Outfall 009 to bound detections of petroleum hydrocarbons; and <li data-bbox="688 415 1902 472">• At the request of MDEP, collect additional sediment samples from Bailey Cove sediments from a gully west of the 345 kV Transmission Lines (Silt Spreading) area. <p data-bbox="642 505 1887 561">A third round of water level measurements were obtained from site monitoring wells and a third round of groundwater samples were collected from each reference well.</p> <p data-bbox="642 594 1887 651">A SOP for abandonment of monitoring wells (SOP 20) was also forwarded to the MDEP and appropriate personnel for placement in the QAPP.</p>